


## GENERAL VIEW

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## T H E W O R L D,



IN THO VOLUMES:

By the Rev. E. BLOMFIELD.

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## PREFACE.

IN the aequisition of knowledge, not less than in procuring the nocersaries and conveniencies of life, we are united to our fellow men, by varions degrees of dependauce. An infant, deprived of the benefiss of society, will either soon perish, or, if, as in a few instances it has occurred, he should, by some strange interposition of Providence, arrive at more mature years, will bo found to be only a mere savage, naked and speechless, resembling other wild animals in the perfection of their senses, and in their aversion to mankind. Yet though it is evident, that without education, no one would have made the least progress in any department of literature, the obligation to the assistance of others is peculiarly apparent with regard to general history; for while the mathematician obtains his scieace from comparing his ideas, and the experimental philosopher his information from the evidence of his senses, the general historian derives the value of his labours from the credibility of the authorities by which be is supported. We shall therefore enurerate, in alphabetical order, the principal works by which we bave beea furnished with materials, or assisted in ascertaining or illustrating facts.

Mr. Adam's Lectures on Natural Philosophy deserve the warmest commendation, as being equally adapted to the improvement of the head and of the heart. Such is the classie purity of Mr: Addison's style, and such the permanency of the objects to which his attention was directed, shat his Travels in Italy are still read with entertaiument and profit. The great abilities and extensive learuing of the geatlemen who compose the Asiatic Society have procured for their researches a just celebrity. Bingley's Animal Biography has fumished several interesting anecdotes. Blair's Lectures on the Belles Lettres have contributed their aid in tracing the history of literature. Of Boninycastle's lutreduction to Astronomy, and Mrs. Bryan's Lectures on the same subject, it is sufficient to observe, that the former excels in the originality of ideas, and the latter in the elegance of expression. We have examined Bryants Mythology, without adopting every part of his system. We are under considerable obligatign to Bruce's. Travels in Abyssinia. The excellencies and defects of Buffon are very generally known. The lively descriptions of nature which proceeded from his pencil, poorly compensate for his indirect attacks on the principles of uatural and revealed religios. Busching's Grography, though tedious, from a minuteness of detail, is a valuable store-house of topographical-information. Of Casar and Tacitus - itwwould bo presumptuous to give any character. Coote's History of England, though inferior to Hume's in elegance, is far superior in impartiality. Coxe's Travels through Poland, Russia, Sweden, and Deomark, afford very satisfactory information concerning. esch of these countries. Du. Halde's deccription of China is 4 work of acknowledged

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Iv. PREFACE,
excellence. In the Encyolopedia Britannica every branch of universal knowledge is subservient to the mecrests of religion and virtue. Eutropius and Florus haver been found useful in ascertaining of facts. We have followed Forster's Voyages And Discoveries in the North, in treating of the geograply of the middle ages. The yarious charncter of Qibtion, his extensive intelligence, his magnificent periods, and his disguised hatred to the Christian religion, are well known to the public. The Historical Compendium of Goldsmith has bexh servicedble in compiling the history of the Roman empire. Dr. Gregory's Eeonomy of Nature has afforded considerable assistance to the Introductory part of this work. Nor must our acknowledgmghts of the late editions of Guthrie's Geography be omitted ; editions, which are rendered more valuable by the spirit of moderation with which the account of recent transactions are recorded. Henry's History of Great Britain, though not written on such a plan as to render it highly entertaining, affords much information respecting the progress of society in our native country. Of the life of Nadir Sbish, by fir William Jones, it is unnecessary to say more than to mention the name of that distinguished scholar. Kirwan's Treatises on Mineralogy and Geology are superior to our praise. That portion of the writingt of Livy which remains, makes us regret that we are prevented from reading the whole History of the Roman Republic, as secorded by his inimitabke pen. Maurice's Antient and Modern Histories of Hindostan have afforded us considerable entertaimment and assistance, Milner's History of the Church of Christ is particularly valuable for his account of the Waldenses and other early reformers; and that of Moshicim for his impartial and critical discrimination of the opinions of different sects. The carl of Oxford's Collection of Voyages and Travels contains a number of profluctions, of different degrees of merit, but some of them curious. The reputation of Pinkerton's Geograply is deservedly high. Pontopidan's Natural History of Norway is the work of a diligent observer of nature, whom some will esteem too credulous as to marvellous stories. Radeliff's Travels in Sweden has sume merit. Russel's History of Modern Europe is higbly entertaining and instructive ; it xvould be agreeable if the ingenious author continued it * down to the present eventful times, and, by a slight alteratiou of some exceptionable passages, render it a safer companion for youth. We have in our deseription of the Chinese empire availed onrselves of what assintanse might be derived from Sir George Staunton's embassy to that contry. Golouel Symes has the uncommon happiness of utroducing to the knowledge of the publie a populous And higbly civilized empire, with which before they were but slightly meyquanted. Townion's Travels in Hungary, though especially devoted to mineralogital purposes, contain very correct, and copious information relative to the present statend that part of Europe. The Tromsactions of the different Misionary Societies inforn us of the various success of a numbor of benevolont men, who have saerificed every comfogt, that they might carcy the beneflts of civilization and religion to the most harbarous regions. The Travels of the celebrated atheist Volncy into Egypt and Syria have considerable merit; his krowa charneter will necessarily put the reader on his guard as to some of his remarks Whiston's lectures on Astronomy have assisted us in dercribing the phenomena of the planels. Winterbofham's America contains informatios conteorning that guarter of the world, well digested and excellently arcangel. Wraxalls Travels in . the North of Europe ulerive considerable interest from their bejug maderiaken $\alpha, \&=$ time when the late unfortunate queen of Denmark and the elebrated naturakst Lisseus wore living.

In selecting from this mass of materials, we have constantly leept two objecto in?



# VIEW OF THE WORLD. 

INTRODUCTION. Paepalatory Viein of the World.<br>Chapter I.

Astrosomy.-Initroductory remiarks-.Apparent diurnal recolutions of the hean vens-Referred to the rotation of the carth on its orm aris-The sum-His opparcont ammat mofiont- Signs of the zodinc--The plancts, inferior and superion-. Newtonian systen--Relative distances of the plancts--Parallar of the sun-

- Geargiann Sidus-Cencs-Pallas--Secondary planets-Lunar Phases-Laxss of the nostion of the sotelliten-Eclipues-Lunar-mointains-Habitcobleness of the planetr-Comers, their motion, natuss, \&c..--Fired stars, their mumber and mag-nitude-Necton's and Herschcll's systen of the unixerse--Reflections.

THE world is both an extensiva and a fortile field. The knomledge of the relations it sustains, of the elements of which it is composed, of the vegetables with which it is furrished, of the numerous tribes ob animals by whom it is inhabited, and especially of its most dietinguisted possessons, the busy mee of men, with their suceessive revolutions in langunge, in manners, in government, in religion, in the constitution of their bodies, and the disposition of tbeir minds,' comprehends an immense variety of information, Much of this treasure is urfortunately lost for ever. The most antient records are generally scanty and fabulous; the steps by which mations advanced to maturity are usually. unknown ; and of sone of the greatest natural commotions which ever agitated the terrestrial globe, nothing can now be discovered but their remaining effecte. This want of materials contracts the reward of the inquirer, but rather increases than diminishes his habour, If the complete history of the universal nature was extant, persevering industry might redice it to a compendiam ; but to discover clearly the facts which are concealed by the veil of allegorical fiction, to supply by happy conjecture the want of authentic evideace, and to unite the scattered fragurents of truth which might be thus brought to light, 30 as to form them into one perfect and harmonious system, is a task which mumt prove too ardaous for the most transcendant human abilities. Enough may, however, atill be collected that has escaped the ravages of time to produce a rich supply of entertainment and instruction : we must, to the various difficulties we have to encounter, oppose

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## ASTRONOMY.

the fittest precautions in our power; we must content ourselves within the limits of real * kuvilatge, and rather choose to confess our ignorance than give to mere opinions the authority of-facts ; we must seek to arrange our ideas in the most easy order, and' give the reader such intimation of our method as unay most contribute to facilitate his improvement. As connection and distinction ate each of them uscful to the memory, we shail eadeavour to avail ourselves of the nssiftance of both. It Is our wish that each cliapter should form one distinet dissertation ; that so many of those should be collected into the same book as treat of sabjects whict are united by a natural atinity, and, finally, that the books should so follow each other, that the mind may be cond octed vithout any rapid transition, through the whole extent of our preseat undertaking. The object of our Introdgetion is to exhibit general vions of the word, without descending to its political divisions. The first of theso views we shid in this chapter place before the eye of the reader: it is that of the carti), as a planct, connected by certain established lays to the other bodies which constitute the universe.
*Our aftention must now be directed to the heavens, that immense blue concave sphere Which every where surrounds the terrestrial globe. In this the sun, moon, planets, and fived stars seem to be situsted, and are for that reason denominated celestial bodies. That point of the beavens which is directly over our heads is the zenth ; that, which, if the world were transparent, would be seen beneath our feet the nadir; and a circle. placed af equal distance from cach of these the rational horiaon. The elevation of any celestial body above this circle is called its altitude. Every circle which divides the beavens into two equal bemispheres is called a great circle ; such is the horizon, and such is every circle which passes through both the zecuith and nadir. Every great circle is divided into $\$ 60$ degrees, and subdiviled into, minutes, 60 of whith constitate a degree. All the celestial fumináries describe an apparent revolation in the space of 24 hours. The sun, moon, planets, and most of the fixed stars are observed by every one to rise and set, and though some constellations contimue at all times above the horizoh, they sre perceived to revolve round an immoveable point near the tail of the little bear. This imaginary point is called the fiorth pole, opposite to which is another denominated the south pole. Midway between them is the equinoctial circle which distinguishes the northera from the southern hemilisphere.
Whether this diurnal motion be really perforenep by the henvens, or only an appearance produced by the rotation of the earth on its awn axis, is a question calich was furmerly the subject of much dispute, but concerning twhich most thinking people are at this diy perfectly agreed, The cridence of our senses would persuade his of the realify of the motion of the heavens, Fiad we not several'strong reasons to suspect that their testimony is in this instance delasive. For, first, if we suppose that the earth revolves round its axis, and all the other bodies of the universe at rest, the same phenomens will in consequence be extribited as are every day offered to our obaervation. Is when we sail down a smooth stream our own progress is no otherwise percesied thoil by observing bow the neighbouring objects ore continnally recoding from 4 L . Secondly, S The supposition of this celestial revolution puts all nature to an unsecesiatry latious, as
it inkess globes, many thousand times greater tian the itorrestinal, and many millions of cuilef distant trom it, to bo hurried round it with an inconceivalle rapidity, in order to aceomplish a purpose as completely obtained by the gradual rotation of this diminutive woild. Thirdly, the hioon, and several of the planets not to mention the sue, turn round cach of them on its own axis, so that were we fix our station on any of these, we should perceive the henvens describing a eircuit about that globe on which we were situated; but the position of their poley, nid the space of thme in which they complete thicir movements, would at each removal be found to dififer materially. We should have the same eridence that the whole starry sphere revolved routh the moon in. 29 days, or found Jupiter in nine hours 52 minutes, as we now have that they perform that revolution froun which our days and nights degive their existence. The poles of these planets would be found to differ widely frous ours, so much so, that the same stars which

- appear to die intrabitants of the carth to be partakers of no sensible motiop, would be seen by us, if stationed at Yenus, to describe a circle of the greatest possible dimensions. Knowing that it is utterly impossible that the same revolution should be performed round different centres, and in different times, we should become coavinced that the evidence of our senses is not almays to be admitted without cautious, examination. We should discover no cause why this earth in particular should be the centre of such a mighity rewhotion, and at length rest satigfied with the conclusion of the learned, that each of these worlds, by revalvigg round its axis, procures to its own respective inhabitants, the grateful vicissitudes of darkness and light.
The source from which all the bodies in this part of the universe derive their light and beat is the sun. To the naked eye he appears all over equally laminous, but through a telescopes of eveo moderate payers, some parts look brighter, and others darker than the rest of his disk. The dark spots are pot endowed with any permanency, nor are they at all regualar in their shape, magnitude, number, or in the time of their appearance or continuance. One was obsecred by Hevelius to rise and vanish in 16 or 17 bours ; nor have any beea observed to continue more than 60 or 70 days. Those that are formed gradually are gradually dbpersed, and those that arise suddeuly are usually suddenly dissolved. When a spot disappear, that part where it was generally becomcs brighter than the rest of the sum, and coptinues so for several days: on the other hand the bright parts, sometimes tura to spols. The nature and formation of these spots have occusioned among the learned Duch uncertain debate ; but as they seldom change their piace on the sun's surface, they discover, what othervise would not have been known, that the sun is a globe; and performes a rotation round his own axis in 25 days, 15 hours, 10 ainutes.
Besides this rotation which the sun actually performs, and his apparent diurnal motion, which has beea already accounted for, thero is also an annual circuit which he zecens to deseribe, and to which we are indebted for the varicty of our measons. The path in which he appears to journey is called the ecliptic, and intersects the equinoctial at twa phosite points, stiled the vermal and autumnal equinoxes. Theje points of the ecliptic which are most remote fitm the equinoctial are denominated the summer end wiater sof-


## ASTRONOMY.

stices, or the tropics of eancer and capricorn ; their distance from the equinoctial is about 2) $\frac{1}{2}$ degrees. The deviation of the sun to the north or south of that circle is termed has dectination.
The ecliptic is divided into twelve signs, which are denomieated from so many consteliations situated in that part of the heavens through which this circle is drawn : it is blso sabdivided into degrees and minutes. The names and characters of these signs, the months to which they correspond, the days when the sun passes from one sign to shother, the time of the equinoxes and of the solstices are all to be seen at one view by twopecting the following table :


## WINTER SIGNS

Autumn.

$\left|\begin{array}{c}\text { Sept. } 93 \\ \text { Oct. } 23 \\ \text { Oct. } 23 \\ \text { Nov. } 28 \\ \text { Nov. } 28 \\ \text { Dee. 21 }\end{array}\right|$

| Autumual <br> Equinex | of Caprieorn |
| :---: | :---: |
|  | the goat |
|  | $=$ Aquarius the water bearer |
|  | $x$ Pisces the fish |


| Dee. | 90 | TVilter |
| :--- | :--- | :--- |
| Jaw. | 19 | Solstice |
| Jan. | 19 |  |
| Feb. | 18 |  |
| Feb. | 18 |  |
| March20 |  |  |

As the Chaidean shepherds are undoubtedly to bo numbered among the most early caltivators of astronomy, it cannot be thought worlderful that they should-be referred to as the autbors of the names, and characters by which the signs of the zodiac are distinRpished. Aries and Taurus correspond with those months of the year when their flocks ind berds were increased by the addition of their young. Geininit, for a similar reason, was antiently characterized by the kids. Cancer represents the retrograde movement of the sur, when, having arrived at the summer solstice, be directs his journcy towards the equinoctial line. The raging hicat of July was compared to the fury of a lion. The virgin with the aheaf of corn afforded an easy and elegant cymbol of harvest and gleaning. The equality of days and nights about the auturnnal eqoinox is well represented by Libra the balance. The sickly season of leaf falling was compared to the sting of the

Sccfipion, tan insect peculiarly drendful in the warmer elimates. Sagitarius which was orighilly designed for a huinter mounted on horseback, and armed with a bow, denoted that pirt of the year which was more especially devoted to the cliace. As the goat deTightes to climb the rocks and mountains, it aptiy represented the sun when ascending from the winter solstice. The whole circle was completed by the water bearor and the fishes, myhich indicated the continual rains that occurred in that part of the world dyring the months of January and Bebruary. The reasons here asoigned for the names of tho signs are not to be consjdered as fally ascertained, but as the result of, the most probable conjecture. It may with more certainty be affirmed that the character of Libre is of more modern date than those of the other eleven, as the stars of which it is composed were formerly denominated the Scorpion's claws.) This circumstance explains the reason of these signs bieing named the signs of ahe zodiac, or of 'the animals, as before the invention of the hame and character of Libra, everyrone of them was supposed to repres sent something possessed of animal life.

- The annual revolution to which we are indebted for our seasons, has been the occasion of a dispute nearly similar to that which concerns the diurnal motion of the carthe, In both instances the first suggestion of our seuses is opposei by the more deliberate de-3 cision of our reason. The sun appears to change his place annong the fixed stars, but this "is casily accounted for by supposing that we view bim from different positions. The superiority of his miagnitude to that of the earthe renders it mure probable that the carth should be carried round the sun than ghat the sun zhould be carried round the carth; and this opinion will be abundantly confirmed when we have contemplated the planetary mation, and examined the laws by which they are regulated.
Some philosophers have diyided the animal creation into three distinct gradations of beingis the first extending from the elephamt to the mite, comprehends cvery different specios visible to the naked eye.) To the second class are referred all that have been discovered by glasses a and to the thind, those which, though entirely invisible, are for probable reasons supposed to existid The same distinction is applicable to the celestial bodies, whether fixed stars, comets, or planets. The planets visible to the naked eye are five: Merciry, Venus, Mars, Jupiter, and Saturn, Mercury has a very, amall apparent dianeter, but a remarkably bright white light. Venus is the most beautiful of the planets, and Mars is distinguished by a red hace. Jupiter abines whth a bright white light, and Saturn, with a pale fiulint one. The plonets which have been discovered by the telescope are three: Gicorgiun Sidus, Ceres, and Pallas. How many other planets may exist in our syatem is a question ispossible to be answered; but as three have been discoycred in less than $\$ 0$ years, it is probable that our catalogue will at length be amply enlarged. The orbits of the planets do not exactly coincide with the ecliptic, but are, however, comprehended within the zodiac or circle of animals, a large belt extending about ten degrees on esch side of the sun's path.

The zodiac is nut only divided by the signs of the ecliptic, but by meridian lines, imagined to proeced througtevery part of this belt to the poles of the ecliptic. These meridan lines serve to alcertain the longitode both of the planets and of the other celertial

Vol. I.
$8:$
ASTPRONONIX.
bothes, whichis always counted from the first meridian of A ries : the latitude of a plaket, as well as that of a fixed star, is its distince north or south from the ecliptice, Any eircle which has every part of its circuniference at equal distance frotu tie iecliptic is called a parallel of latitude. The geocentric place of a planet is that situation in the heavens which it appears to occopy as seen from the earth. The positions of the planets relative to each other are cafled their aspects; thiesol aro priticipally three, itie cepjunction, the opposition, and the quurtile. The conjunction tukes liplace when tivn planets havz the same longitude ; the opposition, when they appearl in oppositel situations; and tho quathile, when their meridiats cut each otfornat right anglesuls
Waving premised thus much, that our reasoning might be better understood, let us now resume nar enquiry to discover the ceitra of our system 05 If the earth wrere possessed of that importint station, we stiould behold tiee planets froving regulaty round us, and describing circular orbits; whereas we fiow perceivetithem to be sometimes bititionitry, sodietimes receding backward, and only, during certain intervals, journeying forward nc-cording to the order of the bigns, whence, thercfore, /welderive aiconclusive arguanient that thic earth is not the centre of thie planetary systemis Where then does this centre exist ? To decide this queston tet us first exuthine the phenonienas of Mercury and Ver nus, and then raise our aitention to Mars, Jophter, ánd Saturn.
The most remarkable phenomena of the ivferior plaapts arol thel following \& First, They never come to a square with the süh, múthlest to an oppositionito himi arid in the: mean wbile that they depart from the sub, sometir es to the cast, Isometimes to the wrest; their greatest distance from him never amounts to two whole signs, Mfercory being carricd: from him never further than the space of 28 , degrees, and Venus never excecding the interval of 48 degrees. Second, In eonsequence of theil continuing so near the sun, their periodical times, in which they go over the eeliptic, arealtogether equal, and are mcasured by his antinal motion, so that the Sus, Venus, anit Mercury, if their apparent motions be stated at the interval of many years, will be fotnid to go over the zodiac in an equalb space of time. Third, Although the periodical times of Venus and Mercary are so ex-1 actly equal to the tropical year, yet if wo leok at thiose periodical times of Verus, whích are from one situation of the sun to the same drain, hrey will be found much longer than thie periodical times of Mercury. Fotith, Each off thése plabets; as it oecupies ditterent positions with regard to the sun exhibits h variety of plases resembling athose of the moon : this variety of appearahices must necessarily result from that side which is opposed to the sun, and cnlightevied by his rays, bcing sometimés more and sometimes less tumed towards us. Tifth, Their apparent diameter varies according to' their difforcitt aspects with the sun, decreasing as they depart from him to the edst, or ave retorning towards him, till they have arrived at their superior cobjunction, and aftervards increasing continually as they नepart from him to the west, and as they are again returning towards him, till they arive at their inferior conjunction: this change is more observable- in Venus than in Miercury. Sixth, The hodies of each of these planets welsometimes, though very seldom, observed to be inferposed betwixt the sun tand the earth in the form of dark spots-in the gun. From these phenomena we may safely conclude'that Mercury and $V_{\text {e }}$

pyis are situated between us and the sun, that they have each of tiem al distinct and propgr motion round that luminary, and lasty, that the orbit of Mercury is of inarower vimensions than that of Venus, and consequently inelosed within the iimits, of the latter. Thus we have discovered the centre of at least one part of the planetary system,

Mars, Jupiter, and Saturn have tie following remarkable phenomexa : First, Thicy have all possible aspects with the sum, and are frequently seen in oppposition to tion. Second, Mars performs his circuit round the heavens a great deat sooser than Jopiter, and Jupiter a great deal sooner than Satura. Third, They do not in their different uspects with the sun exhibit tho same yariety of phases as the inoop, bat only appear a - little gibbous at the time of quartile. Fourth, They seem fur greater in thicir opposition than in their conjunction with the sun., Fifth, Fech of the two last mentioned changes are more obscrvable in Mars, than in Jupiten and in Jupiter than in Saturn. From an attention to these circumstances, with the addition of the mont exnet obscrvations on the curviture of the orbits of the superior planets, it has been concluded by philosophers that Mars, Jupiter, and Saturn ate situated at a greater distance than we are from the sun, that each of them has a proper motion round that luminary; and lastly, that the prbit of Jupiter encircles that of Mars, but is itself encircled by the orbit of Saturn.

As it now appears that the sun is the centre of the planet's circuits, and their inhabitants perccite the sun to be, farried round them in the same manner as be appears to journey round us, it does not, scem to be a very bizardous conjecture that this earth should be added to the number of thes planets, and supposed the agent of the annual royolutinn. It is not, horever, becessary to content ourselves with this annilogical reasoning whicn a variety of arguments stand ready for our assistance. We shall choose a middle path, and that re may neither leave the reader dissatisfied with the scercity of our proofs, nor weary his attention by too great a number of them, select one more , thich wo think of aconvincing nature, and then pass on to the consideration of the mighty laws by which the universe is regulated.
${ }_{10}$ Mars, it is well known, periorms his joumey over the Zodiac in about 686 days. At the same time we know, that he las a very swift retrograde motion whenever he comes in opposition to the sun: , this opposition to the sun can arise from nothing else than the interposition of this earth between Mars and the Sun. On the supposition that this world is in ,motion, such an interposition ought to take place as often as a body which performs a revolution in a yeyr, could overtake one that perforins a similar revolution in 686 days. The time required for this purpose is two years and 49 diys, which is found by observation to be exactly the period which elapses from the middle of one regress of Mars to the middle of another. Similar arguments might be deduced from Jupiter and Saturn, but that which, more than all things, confirms the doctrine of the earth's motion, is Neyton's diecovery of the laws of gravitation. Before the time of 'Sir Isace Newton no attempt had been made with success to develope the laws of natare, and ascertain by what second causes the universe is kept in existence, and the various bodies of which it is composed made to co-operate so fitly with one another. Imaginatioa had indeed given birth to many aystems unsupported by fact; but to proceed pa-
tiently through a long train of mathomatical reasoning till the harnony of the spheres was thoroughly underitood was an office allotted to none but the illustrious pritice of modera philosophers. This design of bis existence he assiduously faboured to accomplish, not only by treating of material nature, but by teaching us to look througt nature up to Nature's God.

The Newtonian system of pbilosophy depends on three propositions, which are easily demonstrated.
First, That every body set, in motion in an unresisting medium will for ever continue to move on in a straight line unless it recives some contrary impalif. This power is denominatsd the centrifugal force.
Second, That all bodies have a tendency to attract each other, and that in proportion to the quantity of matter of which they are composed. This tendency is, when it concerns the carth called gravity, in the sun, attraction, and in the planets, the centripetal force.
Thind, That the reaction of all bodies is exactly equal to their action, th that while a greater body attracts a less one, it does likewise graritate towards it with a force exactly squal to that which attraets it.
In consequence of the first of these laws the planets have a constant tendency to fly of in straight lines, since it is proved by the regolarity of their periods that they meet with no conriderable resistance in the medium in which they revolve, Did only the second law exist they would all be drawn to the sun, find there immediately be dissolved by his lieat; but as both of these laws exist together, they are gradually drawn from a righit line in the exact proportion that their centripetal and centrifugat forces bear to each other. Where these are equal, the revolving body describes a circle, but where they are unequal, an ellipsis or an oblong figure. The different planets have for this reason, elliptical orbits, and the excess by which any one of these ellipsis differs from a circle to called. its excentricity. By the third law of motion the sun gravitate towards the planets, so that they do not in fact perform their revolutions round him, but round a cenfre of gravity placed at a small distance from the contre of the suh. The strength of the centripetal power is found to decrease in a duplicate proportion to the distance from the sun. This proportion may be explained in the following imanner?

Suppose several distances to bear to each other the' proportion of the numbers 1, 8 , 5, 4,5 , that is, let the second distance to double the first i the third three times, the fourth four times, and the fith five tinues as great as the first. Multiply each of these numbere by itself, and the products inverted will respectively express the proportion which the centripetal power in each of the following distances bears to the power at the first distance ; for in the second distance, which is double the first, the centripetal power will be one fourth part only of the power of the first distance" it the third distance the power will only be one bloth of the first power; at the fourth distince the power 2 ill bo only one sixtecuth ; and at the fifth, only one twenty-fifth of the first power.

As it is only by this centripetal power that the planets are broughit out of their naturat rectilinear course, it is not wonderfil that the longth of their perlods shorild Be
-proportioned to the weakness of the centripetal power by which they are influtneed The fimes of the aimual revolations of the different planets are found to bear, in every instance, the ahove mentioned proportion to the longer axis of the orbit of each planet. The excess of the longer above the shorter axis of an orbit is derominated its eccentricity, and may be ascertained by carefutly observing the different velocities of a planet's motion. It thercfore only remaius to discover the planet's periodical times, and this is done by observing thean when they have no latitude. They are then undoubtedly on the ecliptic, and by carefully renarking how long it is before they are seen the third time in a simitar situntion, their periods may be known pretty exactly.

We shall now place before the view of the reader the relative distances of each of the phanets, as discovered by this reasoning, and confirmed by many observations. Let the meac distance of the earth from the sun in puris be stated at 100,000 , then the mean distances of, each of the planets will be agreeable to the following proportions : Merciry 38.710, Venus 72,333, Mars 132,369. Jupiter 520,096 , and Satarn 964,006 .

Our way is now cleared to procoed to some general explanation of one of the noblest kubours of astrocomy, the discovery of the distance, in miles, of the sun froun our earth, and from each of the planets. It is usial in this place to annex a diagram, and perhaps, to persons possessed of some mathematical knowledge, this may be the best method of illustration, we sball however in this instance depart from the beaten road, wad in the place of a diagram subinit the following retianks :

1. The same fixed object, when viewgd from different points, appears in different positives relative to those objects which are situated near it. A very little observation will coavince any one of this truth. The steeple, that from one station seems to be joined to a celighbouring wood, appears considerably lemoved from it when viewed from ariother situation.
II. If two observers be stationed in different points, and each of them observes the same object, lines drawa from the eye of each observer will meet at the object observed, ant corsequently make an angle.

1II. This atgle will be the same vnder which the space between the two observers would appear to a third obscrver stationed at that point to which the observation of the two first had been directed.
IV. If therefore tiro observers, nindty 'degrees distant from each other, looked at any celeital body, the above-mentioned, angle would in this case te the same under which the semi-diameter of the earth wonld appear to an ohserver placed on that celestial body: That angle under which the semi-diameter of the earth would appear to un observer on any celestial body, is denominated the diurual parallax, or the tiorizontal parallax of that celeatial body. The nearer the object observed be to the observers stationed at anty giver distance from each other, the greater will be the angle in question : the fiorizontal parailax of a negr celestial body will, therefore, be greater than that of one that is more remote. Thus the parallax of Mars is greater than that of the son, but the parallax of Yeines than that of, Mars.

V, 'As the relative ilstances of the planets' orbits have been already 'determinech, as:
Yor. 1.

Thell its the rlegrees of their fospobtivdeceentricities fit ifsonly/ necossary to I mens the one of there rolative diattinces in order to aseortoin the distances, in miles, of alt the planets from the earth, from tach other, -and from thensan. $\qquad$
V1. Since it is, therefoteylindifferent which of theserdistances be arensured, it is na-
 those of more femote planetsy That of Mars has beea sought by compariug his distance from oae of thelfived staisk as acen fibin thit centre of the earth, on fruin a placo to sulich
 part of tho carlh 90 degrees distent foom the foruer, Bat dlie transits of. Yenus io 1761, and 1769 , when she passed over the sun's diske, in the wianer sleseribed fu the sixth phethometa of the inferiur planets, where copsidered as affordingsuch a tivourable opporturnity for duciding this question so important te stretice, that the great Dr. Hally took considerable pains to leave such iestructions to those astronomers who should be tiving at the time of the traofits, as might enable frem to make their observations with the igreatest success. It was for this purpose chidily necessary to note exactly the moments when the plapet appeared to inmerge into the sum, and emerge out of him, but these it wars found loppossible to determino with thie dedired exactuest. So inuch has, however, been effected ly this aid other methods, as to furnish a pretty certain datn from which to draw those conclusions which are found in our table.
The distances of the sun and planets being in any manner fonnd, it is quite easy to infer their magwitude, from comparing the angle under which they appear, with the distance at which tbey are placed, The tength of their days and nights, and the position of their poles, are deterulined by means of certain spots which are seen on their surfaces by the assistauce of the telescope. The denvity of a celestial body is ascertalined by ob= sorving the power with which it operates on other bodies at given distances, it being constantly obseryed that the power which a body possesses of attracting others, corresponds. with the quantity of matter of which it is composed. The quantity of matter cotspared with the magnitade will then easily discover the density. In is for that reason basy to determine with certainty the density of the sun, the earth, Jupiter, and Saturo, because they have other bodies on which they vert powerfully act; bat that of Mercury, Venus, and Mars, is supplied by probable conjecture.

Most of the remarks on those planets which suere known to the antients are equally applicable to those which have been more reotntly discovered : we shall, therefore, only compile some brief history of their discovery, and for other particulars refer the reader to our table.

The Georgium Sidus was first observed by Dr. Hersctict, on fie 1Sth of Marcb,1781, near the foot of Castor, and hís attention was excited hy its steady light. On applying an higher magnifying power to his telescope, it appeared manifestly to increase in diameter, and two days atter be obseryod that its place was changed. From these circumstances he concluded that it was a comet, and sent an accoint of it as such to the Astronotmer Koyal, which was very soon spread alf over Europe. it was not long, however, before it was known, especially by the English astrobemers, to, be a' planet. The cir-

- cumplances whiols led to this uliservory mevo ite wivintty to phecocliption tha direction of its mption, and its beiggnearly statisnaxy- at the timegiot soci at imanor as corresponds yjuis the like sppearanues of the othercplanntse The Frodief astronohiers, however, stilt imagued it to bo a cometenithough it bat not that fuitat train of lighty which urually acecvapanies the enfodies, not would its sucoessive lippearanices correspond whih such an hypqthesis; 60 . that thgy were at hist obliged toiann that ivoweit round thie suo in an orhit nearly circular. Its motion was firet computed orn this prineigla by Mr. Loxel, Pepessor of Astronony at St, Peforiburgb, whio shewed that a circulir orthit, whose radius is about i9 times the disfance of the earth from the sion, wontd agiee very well with aijthe ghservations which pad heep mader ruring the yean 1791 © On the first of Der cernher that year, it was ion oppasition with the sum, wherico one of its stations was certhinly determiged. In the menp time, hovever, as astronomers werel every where engaged in sualing obseryations on the same, it oceureed to some that it might possibly fave been observed before, though not known to bee a plamet: Mr: Dlode, of Berlin, who had just publisfied va yonk contaiaing all the catalogues of zodiacal stars which had appeared, was induced, by the observations which had been already made on the new planet, to consult these catalogues in onder to discover whether any star marked by one astrongaier, and omitted by another, might iot be the new planet in question. 'In the course of this enquiry he found, that the star No: $96 \ddagger$, of Mayer's cataloguc, had been dinoliserved loy others, and only, once by Mr. Mayen himself, so that no metion could Lave becu perceived by him. Oa this Mr. Bode immediately directed his telescope to that part of the heavens where he might expect to find the star marked in Mayer's catalogue, but without success. At the same time, by the calculations already made concentiog the new planch, tic difcoverad that its apparent place, in the year 1756, ought to have been that of Mayeris star, and this whas otie of the years in whfeh he iwas busied in this observations s and on funther enquiry it iras foumd, that the star $96 \%$ had been discotered by Mr. Mayer, on the 15th of September, 1756 : 10 that it is now generally befleved tilat the star No. 964 of Maycr's catalogue ivas the new planet of Herschel. Bee fore the end of the yoar 1802 , it was, found that the angular motion of the platict was in creasing, which showed that it was not moving la a circle, but in an eccentric orbit, and was approaebing towards the sum. Astroioniers, therefore, began to investigate the inequality of this angular heliocentric motibn, fio order to discover the form and position of the elipsis described. Tlis ivas a very difficale task, 35 the small inequality of inotiou sthoyed thint the arbit was ndarly circular, and the arch alneady described was tho more than one fifticth part of the whole circamference. It was, however, by no menns easy, from the variation of curvature discoverable in this small arch, to determine to what part of the circumfercnce it belonged : though Prufessor. Flobinsos is of opimon that the supposition of its being the star 964 inf Mayer's catalogue renidera the calculatiou easy. On this supposition. its motion his been calculated by several/astronomers, as well as by Mr. Robinion bimell: He observes, however, thint if we do not admit the identity of these stars, noarchalf in century must elapse before we can determine the elements of this plandt's uption with a precibien equini to that/ of the others.

The planet Ceres was discovered in the year 1801, by Piozzi, a celebrated Kalian astronomer, who gave it the name of Ceres Ferdinande, in honour of the king of Naples. This discovery was no sooner announced than it awakened the attention of the learned. Dr. Olbers, et Dromien, began to examine with great accuracy all the smal! stars in the wing of Virgo, with a view of ascertaining their several positions, in orter that he might the more readily determine the situation of the planet. On the 28th of March, 1Fos, while he was observing the tweatieth star of Virgo, near which he had seen the Ceres in the mooth of January, be was surprised to see near this star, which is of the sixth magnitude, another smail one of the seventh. Knowing that it was not there at the time of his first obtervations, he hastened to ascertain its position ; but doring the two hoors in which he he was employed in making qbservations he perceived that it had chagged its place. The two succeeding nights affording him ample means of determiniog its motions, which he found at the rate of 10 per day. As soon as be lad made pablic this interesting observation, astronomers took the earliest opportunity of attending to this new star, and of calculating its orbit. Dr. Gaus, an able geometrician of Brunswick, and Citizen Burchard, a French astronomer, have employed themselves on this subject with great assiduity and suecess.

Dr. Herschel has calculated the magnitude of both these two most recently discovered planets, and foand it to be extremely diminutive. He has given them the denomination of asteroides, a name denoting a species of celestial bodies, which move in orbits either of little or considerable eccentricity round the suin, the plane of which may be finclined to the ecliptic in ony angle whatever. Their motion may be ditect or retrograde, and they may, or may not, have coasiderable atmospheres, very small comas, disks, or nuclei.

Many other planetary bodies may probably belong to our system, though they have hitherto escaped observations. To all these the sum is a centre of attraction, and an inexhausted fountain of light and beat. As bis direct rays can, however, illuminate but one side of any of these bodies at a time, the author of nature has judged it proper, in his wisdom, to furnish several of the planets with certain sttendants that occasionally supply, in some degree, the deficiency of bolar light. Thesc attendant bodies are stilet secondary planots, satellites on moons. Of these Jupiter has four, Saturn seven, the Georgium Sidus six, and our carth one faithful corgpanion, that agrecably mitigates the darkness of the nighit. The sateiliten of Jupiter, 'Saturn, and the Georgitum Sidus, are visible only by means of the teloscope, which rendérs it probable that many similar bodies may exist, though not at present observed, by astronomers. The moon is so little remote from our globe that it frequentiy passen before the planets and fixed stars, but never admits of any of these between itself and the eye of the spectator. Its distance is ancertained by finding its parallax, and the other particulars mentioned in our table, hy similar methods as have been already described. The distances of the other satellites from their primaries are judged of by observing their apparent distances ; and 'their real magnitudes, by comparing their apparent magnitudes with those of their primaries.

All the secondary planets are subject to the same laws of motion, and exhibit similar,

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## A VIEW OF THE SOLAR SYSTEM.



SECONDARY PLANETS.


## ASTRONOMY.

phehomena, so that when the reader has understood the theory of the mbogh, he will have becone acquaiated with that of each of the others.

The moon is an opaque globe like the earth, and shines only by reflecting the Vight of the sua; therefore whilst that half of Lier which is towards the sun is enlightened, the other side must be dark aud invisible. Hence she disappears at ber conjunction when she comes between us and the sun, because her dark side is then towards us. When she comes to her first octant, or has gone one eighth part of ber orbit from her conjunction, a quarter of bersenlightenert side is turned towards the earth, and she appears horned. When stie has performed a quarter of her circuit, she shews us half her enliphtened side. and we say she is a quarter old. In her secord octant, shewing us more of her enlightened side, she appeans gibbous. At her opposition her whole reulightened side is turned towards the earth, and therefore she appears round, then we say it is full moon. Immeiliately after this she begins to decrease, becoming gilibbous at the tiund octant, bisected at her thind quarter, and-hopned at her fourth octant, till at length she is- invisible, miakes another conjunction with the sun, ond begins a new revolution. When-she-first becomes visible, at the time she is called the new moon, shic appears, on the western part of the heavens, to be at,no great distance from the sun. Every night she removes 'to a greater distance from birm, till at last she appears in the eastern part of the horizon, just at the time the sun disappears in the western' After this she gradually moves further and further leastward, zyd therefore rises every night later and later, till at last shie seems to approach the sun as nearly on the east as she did in the west, and tises only a little before him in the morning; as in the first part of her course she set in the west not long after him. All these different appearances are completed in the course of a mouth, after which they begin in the same order as before,
, The same laws of hature which govern the planets in their revolution round the centre of their system, equally operate on the satellites in their revolution round their respectivg primaries. That each secondary planet is kept is its ortit by a power directed towards its primary, is proved from the phenomena of the satellites of Jupiter and Satarn, be, cause they move in circies, as far as we con observe, about their respective primaries with an equal course, the primary being the centre of each orbit; aud by comparing the times in whigir the different satellites, of the same primary planet perform their periods, they are tound to have the same relation to the distances from the primary, as the priimary planets observe in respect to their mean distances from the sun. It also appears that the power which retains the moon in her orbit is the same with that which causes bodies near the surfice of the earth to fall to the ground, since the moon is drawn from a right line with exactly the same velocity with which a body, placed at that distance from the earth, would be found to descend towards the centre of gravity. While the secondary planets are thus attracted by their prinaries, they are also subject to the influence of the sun, whio acts upen them with a force proportioned to their dittance. This would tend not to disturb, but to preserve the regularity of their monthly, revolutions; bot that being 'la 'the couse of' these revolutions, sometimes nearer to, the sun than' their primaries, and sopnetimes more renvete, they are not always acted upoo in the asme degree, Yol. 1.

With theif primaries, but when near the sun are attaeted thore, and whear fartier, from lim lein. Hence arise various irregalarities in the motion of the sceondary planetsiof whell we shall give sonie examples with relation to the mopas.
The moon's motion, from the first quarter, to the opposituon, atad frota the third quartor to thid conjunction is acceleratet; ; while ber motion, fpous theiconjupction to the first quarter, and from the opposition to tha third quarter, is retarded. Her orbit has a greater-degree of curvature in thie quarters thanft would have received from the eanth's carvatore nlone; and of the contrary, is less inflected in the coujuaction, and oppor vition. A third effect of the sm on the moon's motion is, that thopgh the moon, madis turbed by the sun, might have moved in a girsle of ghich the earth was the, eentre, yet by thie sun's action, the moun would be nearer the earth at thengew and full than at the quarters: butsince the moon moves not in a circle, but in an ellipsis, the efiocts of the sum's influenco are productive of additional imegalarities, not onfy clanging the position of the larger axis of her orbt, but varying, 10 a very considerable amount, the degrees of its eecentricity: All these irregularities are greater when the carth is noar the sum, and less when she is forther from him. When all these irregularities aro attentively considered, we shall be able to form sone caliception of the lahour which was emplayed by thoseliwho inst constructed tables for finding the changes of the moon.

- The plane of the moon's orbit does not coincide sith that of the celiptic, but is inelined towards it in an angle of about five degrees. The points in which these two cireles intersect each other are called nodes ; and a line drawn from one of these to the whier, is denominited the lines of the nodes. The line of the nodes has no fixed relation to the place of conjunction or opposition : haf if it were qninterrupted by the sun's influence, would be parallel to itself, and in the space of a year pass through every degree and minute of the ecliptic. The action of the sun on the plane of the moon's orhit dops, however, produce two irregularities, the first causing a variation in the angle tbat is made by the intersection of the mbon's orbit with the ecliptic: the second by chusing the line of that intersection to complete the revolution in about 19 days sooner than it otherwise would.

2. Whien the sur's light is $s 0$ intercepted by the moon, that fo any place of the carth the sun mppears partially or wholly covered, be is suil to undergo an celipse though properly speaking, it is only an eclipse of that part of the earth where, the mnon's ahadow or penumbra fulis. When she comes between the sun and the moon, the moon falls into the cearti's shiddow, abit having po tight of her owo, she suffers a rgal eclipse from the interception of the sun's rays. When the nodes are in a right liue with the centre of the sun ati n inew or fall moon, the sun, moon, and earth, are all in a right line; and if the moon be then new, her stindow falls upon the earth; if falt, the earth's shadow falls upon her. Whien the suan and moon are more than 17 degrees from either of the nodes at jhe time of conjunction, the moonis generally too ligh, or too low in her orbit to cast ang part of ther shadow upon the earth. When the sun is more than 12 degrees from either of the nocesa at the time of fail moon, the moon is generaily ton high or 'tou low to ge thfough any part of the earth's shadow, and in both casca there, will be no eclipse. But when the

## ASTRONOMY.

mponi is less than 17 degrees from cither node at thic time of opposition, she goestaroagh a greater or less portion of the eartl's sludow, us she is more or less within this limmt
If the line of the nodes, like the earth's axis, was carried parallel to itself round the sun, thero would be just half an year betireen the coujumctions of the sun and bodes: but the nodes move backwandse or controry to the earth's, aunual motion $19 \frac{1}{3}$ degreen every year, and therefore the satue wode comes round the sun 10 days souner every yeas thain the yéar tiefores Conieguentys in whatever time of the year vechave eclipses, of the laminaries about eitber note, wo may be sure in abont 173 days aftel, we shall have edipses about the oflier node. In gess mean funations, ifter the sun, moon, and nodes have been once in a line of conjunction, they return so nearly jo the same state again, as that the same nodes which was in corjunction with the sun and moon at the beginning of the first of these lumations, will be within $25^{\prime} 19^{\prime}$ of ${ }^{\prime}$ degree of a line of conjunction: with the sun and moon again, when the last of these lonations is complete, and therefore therowill be in this period a regulir succession of eclipses, or returns of the, same eclipses for many ages. In this period, which was first discovered by the Clialdeanbe there are 18 Jullan years, 11 days, 7 hours, 43 minutes, 20 seconds, when the last day of Pebruary, in leap year, is four times incladed; but when it is five times included, the period consists of only, 18 years, 10 days, 7 liours, is minutes 80 seconds. But, the falling back of the line of conjunction or npposition of the sun and moon 28. $19^{\circ}$, with respect to the line of thej nodes in overyopcriod, it will wear out in process of time, and then it will not return again in less than 12,492 years.

Eelipses of the sun are more frequent than, those of the moon, beccuse the sun's ecliptic boundaries are greater than the moon's; yct we have; more visible eclipses of the moon thian of the sun, because eclipses of the moos are seen from all parts of that hemisghere of the earth that is next her! but the sun's eclipses are visible only to that small portion of the hemisphere next bim where the moon's shadow falls. Whea the meon chagges at her least distance from the earth, and so ncar thie node that her dark shadow falls upon the earth, she appeirs high engugh to cover the wbole disk of the sun, from that part on which her shadow falls, and the sun appears fotally eclipsed for soma minutes: but when the moon changes at her greatest distanee from the sun, so near the node that ber dork shadow is directly towards the carth, her diameter appears less than the sun's, and therefore stie cannot lide his whole disk from any part of the earth; nor does hee shadow reach us at that time : and at the place over which the point of ber shitdow hangs, the eelipse is sunular, the sun's edge appearing like a luminous ring all round the body of the moon. When the change happens swithin 17 degrees of the node, and the moon at ber mean distance from the carth, the point of her shadow just touches the earth, and she eclipses the sun totolly at that small spot where her shadow fall ; but the darkness is net of a moment's continuance:

In the greatest eclipse of the spa that can possibly liappen, the duration of the totat darkaess cannot excoed three minutes and is seconds of an bour. The moon's dark shadow Covers only a spot on the earth's surfice about 180 milos broad, whea the moon's dizmeter appears largest, ind the sun's leust; and the total darkness can exfend no fart

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ther phan the dark shadow covers; but the moon's partial shadow or penumbra may then cover a circular space 490 wiles in diameter, within all which the sun is more or Iess eclipsed, as the places are more or less distant from the deutre of the penumbra, When the penumbra first touches the earth, the general eclipse begins, and when is leaves the eartir the general cclipse ends, and from the beginining to the end the sun appears eclipsed to some parts of the earth or other. When the penumbra touches any place the eclipse begins pt that place, and ends when the celipse leaves it. When the moon changes at the node, the penumbra goes over the Centre of the earth's disk, as seen from the moon, and consequently, by describing the longest line possible on the earth, continues the longest upon it ; námely, af a meah rate, fivo hours 50 minutes, more if the moon be at her greatest distance from the carth, because she then moves slawest ; less if she be at her least distance, because of her quicker motion.

The moon can never be eclipsed but at the tine of her being foll, and the reason she is not eelipsed at every full has been shewn already. When totally eelijised she is not invisible, but appears of a dusky colour like tarmished copper. The true cause of ber bieing visible is the scatteied beams of the san bent into the earth's shatdow by going through the atmosphere. The longest dumation of a lunar eclipse is 3 hours 37 minutes 6 seconds, if the moon be at her greatest distance from the earth; and 3 hours $\$ 7 \mathrm{mi}$ nutes 26 seconds, if she be at her least distance. The reason of this difference is, that when the moon is forthest from the earth she moves slowest ; and when nearest to it quickest. Not only when the moon is oclipsed, but whenever she makes her appearance, she presents a wide field for telescopic observation, and for curlous conjecture. Many dark spots appear in her disk to the naked eye; and through a teleicope their number is prodigiously increased ; she also appears very plainly to be more prominent in the middle than at the edges, and to have the figure of a globe, ond not that of a flat civcle. Particular care has been taken to hote all the shining parts in her surface; and, for the better distinguishing them, each bas been marked with a proper name. Langrenas and Kieciolus have divided the lubar regions among the philosophers, astronomers, and other enninent men: but Hevelius and others have endeavonfed to spoil them of their property, by giving the names belonging to diffocent countries, ivlands, and seas on eirth, to different parts of the moon's surface, without regard to situation or figure. The aatnes udopted by Risciolus, however, are those which are generally followed, as the names of Hippsirchus, Tycho, Copernicus, \&c, are more pleasing to nstronomers tliun those of Africa, the Mediterranesn Sea, Sicily, and Mount Etna.

If the moon be observed through a telescope at any other time than when she is fuik the confines of light and darkness appears as if they were toothed, and cut with innumetable notches ; and even in the dark part, near the borders of the illuminnted surface, there are seen some small spots enlightened by the sun's beams. Astronomers have geuerally agreed that these shining spots are inequalities on the mon's surfice; and not conteht with perceiving the bare existence of these lunar mountrins, have endeavoured fo tneasure their beight by observing the length of their shadow. They have not perrectiy coincided as to their conclusions from these mensarations, but most of theni have.
determined that there are much greater eninecices in the moon than on heterraqueous Eglobe. Mr. Ferguson stiys that some of her mountains, by comparing their hight with Tlier diameter, ane found, to be three times higher than the higbest bills on earmb and TKeil, in bis astronotnitoal fectures, has cilculated the leight of St. Cathefive's bill. sording to the observations of Ricciolus, and finds it nine miles. Mr. Hersehell, howe ever, who has wurde lis observatipas with the best of instruments, and the most suspicious cantion, has discovered that few, it any of the lumar mountains, much exceed anEnglisti mile ib perpendicular height:
 1787. Dr. Herseliell discovered three of theim, of which tor seem nearly extinguished, the other in astate of actual eruption. He turned his telescope to the third satellite of Jupiter, estimated the diometer of the burning part of the volCano to be equal to at Teast twice that of the satellite; whence, says Dr. Herschell, we may compute that the shining, or buruing matter, must be above three miles in dianeter. It was of an irregular round figure, and very sharply definent da the etges. The other two volemoes were anch farther tasurds the centro of the moon, and resembled large faint nebula, that were gradulily much brighter in the midide, but no well defined luminous spot could be adiseerned in tliem. The appearances of sthat he calls the actual fire or eruption of a -vofemb, exactly resembled is sunall piece of burbing charcoal when it is coveret by a very thin coat of white, ashes; anil it had a degree of brightness about as strong as that with which sucbia coat would be seen 5 g glow in faint day lights. All the adjacent parts of the voleano thountain seemed to be faintly illuminited by the eruption, , and werd graduually more obscure as they lay at a greater distance from the crater.
2h Tie dusky spots on the moon's surface have given occasion to different conjectures.
3. The most probaiule opinion appears to be this : that they are of twd kinids, the one va-
fiable, tho other pormanent. The yariable spots are most tikely to bo the shate pbich
bat is cast by modntains as they torn variotas way, encrease and decreate in their length, and
bo are constaritly found to be opposite to the sun. The permanent spots, it is said, unust
be some fintter whith is bot fitteit Sor reflecting the tiys of the sun so trach as the tirfght
ai) partis do, afid this proporty we know, by experience, belongs to water rather than land, trienco some philosophers, conclude that the moon, as well as oar earth, is made up of find and sea.
5uf. Whether the moon hins an atmpsphere is not fully decidcd. Various arguments have been adduced ag both sides, but the evidence in favour of the existence of a lunar atmosphere seems to preponderate. It has even been asserted that flasties of ligbtnin. haye been observed from the dark pasts of the inoon to the time of a solar eclipse, whieh must, if if were certioinly known, afford indubitable pronfs on the affirmative side of this dispute. So many hatances of cunformity between the funar and the terraqueous globes have ascourniged many to imagine that they resemble cash other in $n=t i l l$ more important particulate that of being hasitable. The same conjecture tias been formed concerning thio primary, planets, as all, fuch of them as are conveniently situated for obtre servation, have' had spots discovered on their surfaces. It has been alledged, in sup. Brat Vol L .

## so

 ASTRONOMY.port of this grfaion, that since every thing in this warld, more or less, contributes to the support of sersitive life, since even a drop of patrid water is a sea to a great variety of animalcula, it is extremely unlikely that so many worlds should exist, bo kept in tho tion by the same laws as uphold the earth in its orbit, be, like that, partakers of the interelinge of day and night, and, in some degres, of summer and winter, to remain for ever desolater wastes, suppoiting nothing that can either admire or enjoy the goodness of its Creator.

Objections have been made to this hypothelis, from the different degrees of heat and light which the plancts receive from the sun. On Venus, for instance, the heat must be more than double what it is with us ; and on Mercury, upyards of ten times as great, so that if our cartb was brought as near the sum as Mercury, every drop of liquid would be evaporated into steam, 'and every combutiblo solid set on fire; while, on the other land, were we removed to the dixance of the superior planets, such as the Georgiura Sidus, Saturi, or even Jupiter, there is the highest probability that our liquids would be all congealed to ice, at the same that the climate would be utterly insupportable oy such creatures as we are. Objections of the same kind are drawn from the smalf quantity of light which fulls ypon the more distant planets, which, it is thought, would be insufficient for the purposes of living and of rational beings,
that tiese objections are by no means conclusive, will appear, we trust, from the fol-. lowing observations : Some patts of the nearer planets are of a temperature which is tupportable to uatives of the terrestrial globe. The warmest climate of the planet Mars is not colder then many parts of Norway or Lapland are in spring or autumn. The greatest heat on the planet Yeuus exceeds the heat on the island of St. Thomas, on the coast of Gulnea, or Sumatro, in the East Indics, about as much as the heat in those places exceeds that of the Orkney isles, or of the city of Stockholm, to Sweden; therefore at $60^{\circ}$ north lat. on that planet, if its axis were perpendicular to the plane of its orbit, the heat would hot exceed the grealest heat on earth; and of conrse vegetation like ours might be there carried on, and anmals of the species on earth might subsist If Mercury be supposed to liave a like position, a circle of about 20 degrees diameter round esch pole would eojoy the same temperature as the warmer regions of the earth, though in its hottest climate water would continually boil, and many inflammable substances would be parched up, destroyed, or converted into vapour. As to the quantity of light. etjoyed by the most distant planets, it is much greater than one should readily imagine. Thie day light of the Georgium Sidus, the most remote of all that have yet, been discovered, being equal to the effeet of more than 200 fill moons.

It is not, however, by any means necessary to suppose that every part of our system should be inhabited by beings of the same constitation. In our own world we find the nature of animals to be suited to that of the regions in which they reside, and we have ho reason to assign why the same regulation may not abtain in the planetary spheres. It is probable, almost to certajnty, that the elements of which the surfices of planets are composed, have some relation to the density of the planets themsclves, The most dense Planets are placed nearest the sun, as requiring the greater degree of heat to agitate and
keep thein parts in motion, while the planets which are more rare, aro removed to a greater distanch, as they would be rendered unfit for their office by the inte beat to which the deviser are expose.

Thus the very objections that are brought against the habitableness of the planets, He to additional argumests in favour of the bypothesis. The satellites of Jupiter, Satarm, and the Georgiun-Sidus, abundantly confirm this reasoning, as they can answer no very important parposes, unless to the inhabitants of thone vast and very remote bodies: To all this may be added the wonderfil ring with which the planet Saturn is encompassed, the nature and design of Minich it is impossible to discover, but which affords a most incontrovertible evidence that Saturn is not excluded from the paternal care of the altmighty Author of the unikerse,
Not only the sum, the planets, and thelr satellites, but certuin other bodies, called eomets, are cotmprehended within the limits of our system. These have always attracted the attention of mankind; but, for many ages, more excited their apprehensions of impending calanities than afforded tilean subjects for calm investigation. Even the philesophers of modern tinies were igoorant of their true motion, till it was discovered by Sir Isaac Nenton. The comet of 1680 Laving been diligzatly observed by astronomers, Sir Isaac compared their observations, and was fhence enabled to determine that comets - were a kind of planets inoving in very eccentric eliptical orbits. This hypothesis was confirmed by Dr. Halley, who carefully examined the phenomena of such coinets as had been observed in former ages, calculoked their clements, ascertained their periods, and concladed that their orbits were not confined within the bounds of the zodiac, but inclined to the eciiptic in angles of all possjble dimensions. The comet of 1682 he considered as the same that had been seen in 1607, and 1531, assigned to it a period of 75 or 76 years, and ventured to foretel its return in 1758. The comet which appeared in $\$ 662$ was supposed to be the same with that of 1539 , and to have a period of 129 years. And from thie equality and similitude of appearances, it was concluded that the great comet of 1680 had appeared before, in the reign of Henry the First, in the consulate of Iampradius and Orestes. A. 15. 531, and the year 44 8. c. a little before the assassination of Cresar
-The distance of comets from the ceptre of gravity varies with the position they occupy in their orbits. Their least distance is found by actual observation made at the time of their approach to the sun. Their mean distance has the same relation to their periods as is found to take place in the planets ; and their greatest distance is discovered by doubling their mean distance, and subtracting their least distance from the product. Their distance from the earth is sought by observing their parallax, and their magnitude, by contemplating the apparent diameter of their nucleus. By this method it has been found that many of the comets are of magoitude inferior to that of the moon ; but that othersaje onsiderably greater, though few of them equal the bulk of the earth. The remarkable circumatances with which they appear will be learnt by perusing the following extact from Iong's Astronomy :

The bead of a coinet, to the eye unassisted by glasses, appeare nometimes like a
ecloudy ate $\quad$ rometimes shines with a dull light placet likp that of the Satarn ; some ce Ginets file peen said to equal, some to exceed stars of the first magritude ; some to, - hy surpassed Jupiter, and even Venus, and to have cast a shadow ns Werris sometimes does. The ficad of a comet, seen through a good telescope, appoors to consist of a - solid globe, and an atmosphere that surrounds ft. The solid pert is frequentiy eafled 'the nucleus, which, through a telescope, is easily distingutbided from tho nimbiphiere or - hairy appearance. A comet is generally attended with a blaze or tail, whereby it is "distinguisbied from a star or planet, as it is also by its motion. Soaretimes the fail only of a comet has been visible at a place where the head has tieen aift the white mudor the 'horizon ; such an apprearance is called a beam. The nucleus of the domet of 1618 is' 'said, a few days after corning into view, to have broken into three or foar parts of ir${ }^{\text {' regotar figures. One observer coppares them to so many burining coats, and gays, }}$ thoy chianged their sifuation whife lic was looking at them, is when al peition sthr th fire,
'anc a few days after were broken into a great number of small pieces. Another nc-
toan of the same is, that on the first and fourth of Deceuber, the uncleus appeared
To ve a round, solid, and luminous body, of a dusky lead colour, larger thini gny star of
(the finct hagititude. On thé eighth of lioe same month, it was broken into tlirec or four
"part of irregular tigures ; and on the eotb, was changed into a claster of small stars?'
रif As the tail of 4 comet is owing to the heat of the sun, it groms farger as the comet
'approaches near to, and ztortehs os if reecdes from that luminary. If the ratt of a eo-
t met were to continue of the same length, it woftd appear longer or shiorter necording
'to the different vinws of the spectator; for, if his eye be in a line drawn tbrough :fie
'middle of tho tail lengthirise, or nearly so, the tail will not be distinguitbed from the
efest of the atmospliere but fhe whole will appear roond; if the eye be a little out of

* that line, the tail will appear shiort, and it is called a bearded concet when the tail hiangs
- down towards the horizon. If the taif of a coniet be viewed sideways, the whole length
tiof it is/sieen. It is obvious to remark, that the netiret the cye is to the tail, the greater
t will he the apparent iength thereof.
1.The tails of comets often appear bent, uwing to the resistgnee of than ether, which,

Though extreucly small, may liave a sensible effect on 50 thid a vapour as tho taile con-
ggist of. This bending is seen only when the eark is not fin the plane of the orbit of the
teomet continued. Whea that plane passes through the eye of the spectator, the thit
thppears stitight?
4. Lougomontanus mentions a comet that, in 1618 , December ithe cioth had a tail

Tatiove 100 degrees in lengtb, which shows it must ther have heen very near the earth.
The tuit of a coaret will, at the same time, appear of different leogthe in different
'places, according as the air in oic place is clearer than in tabother. It-veed yot be

- mentioned flat in the'same plice the difference, in the eyes of the gpecthtors, will be

Tthe cause of their diagreeing in their entimate of the length of a tivil of a eometiv 134
Wheverius is very pirticular in telling us that he ofserved the comet kf 166 to to cast a
'shariow upon the tail, for in the middle thercof appeared a dark, lines tt is squmewhiat

- surprising that Hook should be positive in uffirming on the contrary, that the place

Th where the shadow of the comet ahould have heen, if there had been any shodou, was, 1 brighter than any other part of the tail. He was of opinion that comets han Stree lighit of their own; his obscrsations were maile in a hurry; he owns they were short - Fand transitory. Hevelius's were made with'so much care, that there is more reason to Tdepend upon them. Dom Cissini otiserved, in the tail of the comet of 1689 a dark'ress in the middle: and the like was taken notice of, by a curious observer, in that of - 174. There are three comets, vi2. of 1680,1744 , and 1759 , thatt deserve to have a Ffurther accoant given of them. The coulet of 1680 was retnarkable for its near ap' proach to the sun; so near, that is its perihelion it was not atove a sixth part of the * diameter of that luminary from the surtáce thereof. The tail like that of other comets, *increased in length and brightness, as it ceme nearer to the sun, and grew shorter and 'fuinter as it weat farther from, him, and from the earth, till that and the comet were 'too for off to be any longer visible. The comet of 1744 was first seen at Lausanna, in 'Switeerland, December 19, 1743, NI: S. From that time it increased in brightness and 'maguitude, as it was coming nearer to the sun. The dameter of it, when at that dis'tance of the sin from us, measured about one minute, which brings it out equal to three

- timies the diameter of the earth. It eame so near Mercury, that if its attraction had - been proportionable to its tragnitude, it was thought probable it would have disturbed' the motion of that planel. The nusleus, which had before licen always round, on the $\pm 10$ th day of February appoared oblong in the direction of the tail, and seemed divided 'into two parts by a black stroke in the ,mitdle. Oue of the parts had a sort of beard 'brighter than the tail; this beard was surrounded by two unequal dark strokes that se'parated the beard from the hair of the comet. The odd phenomenn disappeared the tnext day, and nothing was seen bjet irregular obscure spaces, like smoke, in the middle fof the tail, nad the head resumed its natural form. February 15 , the tail was divided 'into two brancfes, the eastern part about seven or ciglit degrees long, the western 24. 'On the 23d, the tail began to be bent; it shewed so tail till it was as near to the sun ' as the orbit of $A$ Fars. The tail grew longer as it approached nearer the sun, and at its 'greatest length, was computed to eqval a third part of , the distance of the earth from the sun. I remember that, in reviewing it, I thought the tail seemed to sparkle or vibrate luminous particles. Hevelius mentions the like in other comets, and that their 'tails lengthen and shorten while we are viewing. This is probably awing to the motion - of our air. The comet of 1759 did hot make any considerable appearance, by reason *of the unfavourable situation of the earth alt the time, its tait might otherwise have been 'conspicuous, the comet being then too near the sun to be seen by us; but deserves our 'particular consideration, as it was the first that ever had its return foretold.
The sature of comets, and the purposes they serve in the ereation, have given rise to is variety of conjectures, all of which are embarrassed with difticalties, We shall, therofore, only state a 'few pf the most celebrated hypotheses, and leave thiem, without comtrient to the consideration of the reaiter, "Sir Isaac Newton was of opinion that the tall of a coinet was a very thin vupour, which the head sends out by reason of its heat; that it ascends from the sun just ins smoke dees from the carah; that, as the ascent of smolve

Vol, I.
G

## 25

Theayer by the rarefiction of the air whereinit is entangled, causing such air to ascemi an' carry the sinoke up with it, so the surfs rays acting upon the coma, or atmosphere of the comet, do, by rarefuction and refraction, heat the same ; that this beated atmosphere heats, and by heating rarefie the ether that is involved therein ; and that the spo-. cific gravity with which such ether tends to the sim, is so diminished by its rarefuctions, that it will now ascend from it, by its relative lightess, and carry with it the refecting particles of which the tail is "compored;

The nucleus bedoaked upon to be a bady of extreme solidity, in orjer to sustaik such an inteuse heat as the comets are sometimes destined do -undergo. He, also thivkor that one use of the comets may be to furnieh fiuel ter thio sum, which otherwise would be in danger of wasting, from the continusil emistion of its light., Marian supposes the trils of the comets to be formed out of the luninous matter whereof the sun'k atmosptice consists. This he thought extended as for as the orbit of the earth, and furnisted matter for the aurora borealis, M, de Zalande isfor joining the opinions of Newton and Marimn topether. Part of the metter thich formsthe teils of comets, he supposes to ntrion from their own atmosphere, ravefied by the heah, and nushed forward by the force of the light streaming from the sun ; and also that a comet passing tirough the sun's atmosphere, is drenched tierein, and carries away somie of it.
Since the discovery of the vast porrers of electricity, it bas been believed by many, that the tails of comets are stremms of electrical matter. An hypothesis of this kind has been publiabed by Dr. Hamilton. He supposes that comets are of ase to bring back the electric fluid to the planets, which bes been discharged from the bigher reglons of thicir atmosphere.

This diversity of opinions may seen to indiente that the nature of comets is less known to us than that of the planets, and their satellites; we cannot, however, doubt but that they serve some important end, since they are the productions of that great invtitble Agent, who hath made all his works in wisdom,

We must now contemplate thic fixed stars, those beautiful luminaries which every where diversify the axure of the nocturnal sky, They are distioguished from planeto and comets by their strong light, their frequent , wriokling and their permanent contianance in the snme position relative to one another. Their strong light evinces that they are lacid bodies shining by their own-rediance, unassisted by any other body. Their twinkling procceds from the interception of their rays by some of those minute sulstances which are continually floating in the atmosphere?

The fixed stars are divided into classes, called magnitudes, according to the different tegrees of their lustre, and apparent dirmeter. Those of tie six first magnitudes are visible to the naked ege, the others are discovered only by the assistance of glasses, and are hence denominated telescopic stars:

The distance of the fixed stars is so great that all attempts to calculate, their parallas have failed. Some have conjectured that the nearest of them are 'four huodred tholusand times more distant than the sun. The imagination may perhaps be assisted by recolJecting that, as they are undeubtedly suns, and are probably of a magnitude equal to that

## ASTRONOMY.

of the great Juminary of orr system, so the sun wonld appear no greater $t s$ a Bोriciator, on oue of these stars, than such a star appears to the iulabitants of this worli; ; and kat ? to a spectator on pae of the telescopic sturs, be would become absolutely invisible.
To arrapge the stars in some regular order, so that they might be more casity Lnown from each other, a variety of methods have been takea. The antient astronomers formod them into constellations, which they compared to certain persons, animals, or things belonging to their fibulous history, Such as they csuld not easily include in these imaginary figures they denominatod unformed stars ; but put of these several new groups have becn composed by the moterns. The most conspicuous stars in each constellation have usually been made to agree with the most prominent parts of the avimal, and sonse of thiom are distingrished by proper oanyes, as Arcturus, Atderbaran, Lucida lyra. The method of Batyer is now also genorally adopted. He assigns to each star in any, rospective constollation, the name and character of a member of the Greek alphabet, calling the most splendid Alpha, the next in magnitade. Beta, \&ke.

There is also a divistion of the heavens into thiree parts: First, The zodiac, to which belong tecive constellations, Second, That region north of the zodiac, in which are 21 - aytieut constellations, the Coms, Berenius, and seven constellations made by Hevelius out of the unformed stars. Third. The region south of tho zodiac, including is constclations of the antients, 14 of the moderns, and three of Hevelius.

The constellations of the zodiac, each of them, in the days of Ptolemy, corresponded with the respective sigus to which they had given name; but since then they have moved one sign forwart, the stars of Aies bing got ioto the sign Taurus, those of Tauris into Gemini, \&e. This change, however, is not the result of any proper motion of the fixed stars, but of the joint influerice of the sun and moon upon the earth.

By reason of the motion of the eartion its axis, more matter is accumulated round ite equatorial parts than any where else on our globe. The san and moon, by attracting this redundancy of matter, bring tha equator sojner under them in every return towards? it, than if there were no spch accumulation.' 'Therefore, if the sun set out as from any star or fixed point in the heavens the moment when he is departing from the equinoctial of from ettier tropic, he will comoto the same equinos or tropic agalin 20 minutes $17 \frac{3}{2}$ scconds of tỉne, or 50 seconds of a ilegree, before he completes his revolation so as to arrive at the same fixed star from which he set out. Thus the equinoctial points recede 50 seconds of a degree westward every year, contrary to the sun's appareat annual motion.

As the equinoctial points recede in the ecliptic, the earth's axis in in mation on the earth's centre in sucha manner as to describe a double cone round the mis of tae ccliptic in the time that thic equinoctial points move quite round the ecligtic, which is -5,990 'years, and in that length of time the north pole of the earth's axis prodereed, de: scribes a circle round the pole of the ecliptic, which remains immoventile in the centre. Tlie, earth's axis being29 $\frac{x}{2}$ degrees inclined to the axis of the ecliptic, the circle describud by the north pole of the carti's axis is 47 degrees in diameter, or doutle tbe itclination of the curths axis. In consequence of this, the point which is its present the
north pole of the licavens, and near to a star, of the second naagnitude, in the tail of the Battle flear, must be deserted by the earth's axis, which, moving backward a degree every 74 years, will, 6,480 years hence, be directed towards a star or point between the head and land of Cepheus, which will then be the north pold of the heavers. The vernal equinoctial point will then be removed 10 that part of the lieavens which is now the place of the winter solstice. Many stars that are now visible will then fise and set : thas those seven bright stars in the Great Bear called Charles' Wain, which now never go below or near the horizon, will fhen get almost wholly below the horizon. On the contrary, some of those stars, which now rise and set as the constellations Delphinus, Sagitta, Velpecula, Andromeda, 8 ce . will then te constantly visible. The present pole-star, which is always nearly the same theight above the horizon, will then appear to rerolve round the then poles of the world, and will hive a difference of altitude upon the meridian of foll $64^{\circ} 30^{\prime}$. Stars that are altogether invisible to us in the southern hemisphere, will rise to the view of that oge; while many that are now conspicuous above our horizon, will then be tolally invisible. In 12,960 years the vernat equinox will, with respect to the constellations, have changed place with the autumnal; and the winter solstice will bave changed place with the sum peer solstice.

The sun in the same part of the beavens, when he now makes the shortest days anil longeat nights, will then make the loagest days and shortest rights. So that it will re-, quire 19,960 years yet more, to bring the north pole quite round so as to be directed toward that point of the heavens that - is vertieal to it at present; and then and not till then, the same stars which at present describe the equator, tropics, polar circles, \&c. by the earth's annal , motion, will descrite the same over agoin.

It appears from astronomers, antient and modern, that several important changen have taken place in the fixed stars, for which no satisfactory reason has yet been adduced. Several stars observed by the uncients, and now no more to be seen, and others which were not knowi of in former ages, have since made their appearance. Some of them have also disappeared for some time, and again become visible. We are also assured, from the observations of astronomers, that some stars have been observed for some tume which were never seen before, anil for a certain'time they have distinguished themselves by their superiative lustre; but aftervards decreasing, they vanished by degrees, nod were no moro to be seen. One of these stars being first seen and observed by Hipparchus, the chiof of the antieht astronomers, set him upon coriposing a catalogue of the fixed stars, that by it posterity might learn whether any of the stars perish, and others sre produced afresh.
To account for these phenomena, many different hypotheses have been adopted. Dr

* Keil thinks it is no ways improbable that these stars, lose their brightness, by a prodigious number of spots which entirely cover and overwhelm them. In what dismal condition must their planets remain, who fave nothing but the dim and twinkling light of the fixed stars to enlighten thein, Others, however, have frade suppositions more agreeable to our notions of the benevolent character of the Deity. Sir Isaac Newton thinks that the sutdien blaze of sotme stars may have been occasioned by the fulling of a
comet into them ; by which moans they might be enabled to emit a prodigious quantity of light for a little time, after which they would gradually return to their former state. Others have thought that the variable stars which disappear for a time, were planets that were visible during only some part of their course; but their apparent immobilify notwithstanding their decrease of lustre, will not allow us to think thus. Some have ininglied that one side of them imight be naturally much darker than the other; and Whien, by tho revolution of the atar upon its axis, the dark side was turned towards us, the star becaife invisiblo, and for the same reason, after somo interval, resumed its former lastre. Mr. Maupertius in bis dissertation on the figures of the celestial bodies, is: of opinion that some stars, by their prodigionsly quick rotations, may not only nesume the figures of oblique spheroides, but be reduced to flat circular planes, so as to be quite invisible whien their edges are turned.towards us, as Saturn's ring is in such positions.
- But when a very eccontric plauet or comet goes round any flat star in un orbit much inclined to its equator, the attractions of the planet or comet, in its perihelion, muit alter the inclination of the axis of the star; on which account it will appear more or less large and luminous as ite broad side is more or less turned towards us: Lastly, Mr. Duan conjectures that the interposition of some gross atmosphere may solve the phenomiena of new stars.
- It is well knowin to every one who has observed the heavans with the least degree of attention, that they are surruuuded by a kind of irrogular zone, remarkahle for its white-1 ness, and distinguished by the name of the Via Lactea, or Milly way. This had been eonsidered by many astronomers as consisting of nat infinite number of stars, but thisopinion has been abundantly confirmed by the observations of, Herschell. He first observed that portion of it which is situated about the hand and club of Orion, and found therein an astonishing multitude of sfars, whose number he endearoured to estimate by coithing many felds of view, and computing, from a mean of these, how many might be contained in a gived portion of the Milky Way. In the most vacant place be met within that neighbourhood he found $s 6$ stars ; other six fields contained $1: 10,60,70,90,70$, and 74 stars, a metan of all which gave 79 for tile number of stars to each field, and thus he found, by allowing 15 minutes for the diameter of his field of view, a bed of 15 der grees long, and two broad, which he hadoften seen pass before his telescope in an hour's tiurie, could not contain less than 50,000 stars, large enough to be distinetly numbered, besides whieh, he suspected twice as many more, which could only be seen now and
- then, by fiunt glimptes, for want of sufficient light. The success he had within the Milky Wry soon induced him to turn his telescope to the nebulous parts of the beavens: Most of these yielded to a Newtonian reflector of 90 feet focal distance, and 12 inches apertore, which plainly discoverd them to be composed of stars ; or, at least, to conó toin stars, and to show every other indication of consisting of them entirely. Assisted by these observations, Dr: Herschell has suggested a new theory of the universe. He thinks it very probable that the great stratum, called the Milky Way, is that in which the sun is placed throtgh, perhaps, not in the very centre of its thicknets, tWe gathon '(vays he) this from the appearance of the galaxy, which seems to encompass tho whole
${ }^{*}$ flietriens as it cettainly must do if the sun is within the same: for suppose in number of $1^{\text {s stars, arranged between two para llel planes, indefinitely extended every way, but at a }}$ sconsideruble distance froun one another, and calling this a sidereal stratum, an eye placed somewhere within it will see all the stars in the direction of the planes of the atratum - projected into a great cirele, whích will appear lucid, on account of the accumulation 'of the stars, while the rest of the heavens, at the sides, will only seem- to be seattered ' over with constellations, moro or less crouded, aceording to the distance of the planes ' or aumbere of stars contained in the thickness or sides of the stratum. If the eyo wore, 'pliseet somewhere without the stratum, at no very great distance, the appearance of 'the stars within it would assume the form of one of the less circles of the sphere, 'whief would be more or less contrected to the distance of the eye ; and if this distance 'were exceediogly increased, the nkole stratum might be drawn at last together into a: 'lucid spot, of any shape, according to the position, lenggh, and height of the atratum.
- Let us now suppose that a branch, or sraller stratum, should run' out from the former,
- in a certaín direction, and let it also be contained between two parallel planes ex-
'teniled indefinitely onwards; but so that the eye may be placed in the great stratum,
' somewhere before the separation, and not far from the place where the strata are still.
' united, then will this second stratum not be projected into $n$ bright circle like the for-"
- mer, but will be seen as a fucid branch proceeding from the first, and retorping to it \& again, at a certain distance less than a senticircles. What his been inataneed in pat
'rallel planes may easily be applied to strata frregularly bounded, and running in va-
- rious directions ; for their projection will, of consequence, vary according to the quan-,
- tities of the variations in the strata, and the distance of the eye from the same. And
- thus any kind of curvatures, as well as various degrees of brightness, may be prodiuced
- in the projections. From appearances then, as I phserved before, we may infer that tho
- sun is, most likely, placed in one of the great strata of the fixed stars, and, very pro-
'bably, not far from the' place where some smaller stratum branches out of it.'
Not côntented with having thus accertuined the ppsition of the sun among the different strata of fixed stars, Dr. Herschel endeavours to point out the means hy which, if numberless stars of various sizes were scattered over an indefinite portion of space in such a manner as to he almost equally distributed shrough the whole, they would at length eollect into such clusters as are found to exist. This amazing effeet he considers as the result of the laws of attraction, operating in every part of the universe. He also proves that the fixed stars are not absolutely at rest, hutg gradually tending towards each other? that the sum, for instance, with all the system which surrounds it, is traversing the regions of space with a velocity at least equal to that with which the earth performs its annual revolution.

From all that has now been stated, it appears that the universe is much more extensive than we naturally imagine. The more the powers of the telescpae are improved, the greater number of stars are found to croud upon the sight, so that, though art is, in this respect, advaneed so near to perfection, yet immense multitudes of stars are but impersedly perceived.


## CHAPTER. II.

Mathematical Geoomapiry -Thitroduction-Forn of the Earch-TatutudeMagnituele of the Earth-Longitude-Climates-Zones-Anuual Revolution of the Earth, and consegnent change of Seasms-Mloon-Fired Stars-Reflectionse

THE earth has, for many reasons, a better claim to our investigation than any of the other bodies that constitute the universe. It is the spot to which providence has confined our abode, the only world into which we can make any accurate researches ; its magnitude is the standard by Which we measule the heavens and its surface, the first' Atution were ne observe the laws of attraction. Many of the observations we shall here make on the earth are equally applicable to the planetary spberes ; and several positions, that we have been hitherto obliged to assume, will now appear to be supported by the most indubitable evidence,

1. The design of this chapter is to consider tio figure and magnitude of the terraqueous iworld, and the relations of different parts of its surfice, to the most conspicuous celestial luminaries. That the figure of the earth is nearly spherical, has been proved by a variety of arguments. The earth's shiddow cast upon the moon at the time of a lunar eclipse, is always bounded by a circu ar line, although the earth is incessantly turaing its different sides to the moon, and very) seldom turns the same side towards her in different ectipses, because they seldom happen at the same hours. Were the earth shaped like a round flat plate, its shadow would only be circular when either of its sides directly faced the moon, and more or less cliptical as the earth happened to be turned mare or less obliquely towards the moon when she is eclipsed. The noble art of navigation affords another most evident proof, for since that art hath never delivered any other rules of sailing than what are deduced from the speherical form of the earth, and the resolutions of spherical triangles, there is no room for doubting but that it hath truly supposed that spherical figure: fox it cannot be, that the rules for directing ships into ports . through the vast ocean, should infallibly have, their intended effect, if, the terraqueous world were of any other figure than that from which the whole art is derived. But that which puts this question beyond the reach of dispute, is the great number of vaynges . which have been performed round the world, Dy ships of almost every European nation.

The earth being globular, its outward parts, as the soveral countries, seas, 8 cc are most naturally represented upon the surface of a globe ; and when such a body has the outward parts of the earth and sea delineated upon its surface, and placed in their natural order and situation, it is called a terrestrial globe. On this are drawn the,ecliptic, the equator and its poles, together with a certain number of meridians, and of parallels, for the ready ascertaining the latitude and longitude of places.

The latitude of places is reckoned from the equator, It must be always equal to the
elevation cither of the north or sonth pole above the horizon, because when we are exacly on the equator both poles appear on the horizon. There is, however, no star exactly in either of the celestial poles ; therefore, to find the altitude of that invisible point eilled the pole of the heavens, we must choose some star ncar it that does not set; and laving, by several observations, found its greatest and least altitudes, divide their difference by two, and half that difference added to the least, and substracted from the greatest altiture of the star, gives the exact altitude of the pole, or latitude of the place Thus supposing the greatest altitude of the star observed is $60^{\circ}$, and is least $59^{\circ}$, we know that the latitude of the place where the observation was made is exactly $35^{\circ}$.

As there are 90 degrees of latitude from the equator to cither of the poles, so fourtimes this number, or $\$ 60$, must necessarily comprehend the *hole circumfercace of the earth. If therefore one degree be wecurately measured, the magnitade of the whole terranueous globe may bo nearly ascertained. This method will approach just as near to necuracy as the figure of the world we inhabit does to a perfect sphere. On this principlo it is that several attempts have been made, in differeat nges, to ascertain the magnitudd of the earth. Eratostbenes, the librarian of Ptoleny Evergetes, is among the minst celelirated of the entient astronomers who lubourch far the solution of this nobie problent. Having observed that, on the day of the summer solstice, the sun passed Ulirough the vertical point of the city Syense, he caug $d^{d}$ a well to be dug there, in such a situation, that at twelve o'clock, on the forementio cd day, it should bo wholly, enlighteved by thie solar rays. He also placed in the cit for Alexantria is coucave bemisptere, with of post in its centre. Remarking, on the applfoted day at the ipstant of noon, the distance of the sun from the vertical point "yy the sladar of this post, he found, that at the time when the sun was vertical to the city of Sjering it wanted one-fifieth part of a whole circle to be so at Alexandria. From this obscrvation be anturally concluded that the city of Alexandria must be one-fifieth part of the wholo circumference of the earth distant from Syenne. The distance betireco these two cities was casily measured, and when ascertained, the multiplied it $\psi 50$, and thus discovered that the whole earth was 250,000 firlongs in circminferenco, us 5,000 furlongs was the distance from one of these stations of observation to the other,

- Posidonius aext after him set ugon twis business who, from bis enquiry, found that 70,000 surlongs were te be cat off from the computation of Erntoshenes, and affirmed, that the compass of the earth is 180,000 furfongs. This mensure was received and used by Pblemy
- nodother geographers after him for a longtime, nor is it, as will appear from what follows, very wide of the trith. In the niath centory, Al Mamun, halif of Arabia, employed certain eminent mathematicians to incasure a degree in the ficlds of Mesopotamia. The result of their researeh was, that a lintle more than 20,000 miles were attributed to the circomference of the eanth. Long after alf these, Snellius, an Mollaoter, from a more exact serufiny, demonstrated 24,000 miles were to be ascribed to this carth Thus ve are come it length, to the last measures of the Eoglish and French, which were determined by the most tecarafe methods that ever were, or perhaps ever wia be put in praetice Our countryman, Norwood, took the sin's altitude at London on the day of the Vol. I.
summer solstice, and then male the same bliecrvations on the sun's alitude on the meridian at York the year following, after which he measured the distance between the two cities, and found 139 of our miles were equal to two degrees, and consequently about 25,020 ngree to the eartl's circumforence.

Thic French, by means of a yet more aceurite search, and of advantoges which searcely are elsewher to be expected, twice set themselves to this work; by command of the Most Christian King, surpassed all that went before them. The learned Pieard presided over the work the first time, and the fmouls' Cassini the second time. The fivist-mensuration was performed thus: In Picardy zhere is a certain causeway paved with stones, which lies in a right line, and leads frum a place called the Jews villoge, to Jnrivisum: this tray afforded the fondansental base of the whole mensuration, and it reaches for almost seven miles in "length. It war easy, therefone by known measures applied to it, so exactly to determine the length of this rectilinear way, that they should scarcely ert ono slugle foot from the truth. "1'ben, by' the belp of so great a rectilinear distance, they were able also to measure targe-intervais of places by soveral stations and trigonometrical calculations. Thiey ueed such inddstry is to determine the distances of the places they measared by a double series of stations and triangles, ond so happily,dind the matter sueceed with them, that ecarely any body can expeet to perform it more accpratelys. For the space between Malvaan nand Surdon, which lies almost in a straight line froan north to sotith, they measored with th ipstruments furnished with telescopic greatest diligence, by means of the moit exquisite glits, They found also the sun's altitude in bota places with eqnal care, as did Cassini afterwards. Trom all which operations they ase signed alinost the same measure to the perimeter of the earth which Notwood had done. We may, thercfore'rest satisfied that this determination is not very far renoved front the trutl.

These mensurations gave rise to a very serions dispute concerning the figure of the earhi. Cassini, from Picard's measurement; concladed that the earth was an oblong splieriod, but Newton, from a considergation of the laws of gravity, and the diumal motion of the carth, had determined the figure of it to be an, oblate splieriod, and flatted at the poles. To determine this point, Louis XV, resolved to have two degrees of the meridiun measured, one under of very near the equator, the other as near the pole as possible. For this purpose the Royal Academy of Sciences sent Mr. Maupertivis, Clainault, Camus, Le Monier, to Lapland: they were accompanied by the Abbe Outhier, a correspondent of tho same acadenny. They were joined by Mr. Celsius, professor of anatomy at Upsal, and having set out from France in the spring of the year 1736, returned to it in 1737, having fitlly accompished their errand.

On the southern expedition were dispatcied M. Godin, Condamine, and Bouguer. to whom the king of Spain joined two other very ingenious gentiemen, and officers of the marfne. They left Europe in 1735, and ufter endaring innameratite hanistips and difficulties in the execution of their comonission, returned to Europe by different ways, in the years 1745,1745 , and 1746 . In consequence of these vaborious researches, the rapasurement of Pichard was revised and corrected, and found to agree with the two

Which have now been described, the hypothesis of Cassini was abandoned, fand that of Nowton generally received. It is now generally admitted that the equatorial dianeter of tie earth exceeds its polar diameter by the excess of thirty miles,

The longitude of a place is its distance from a given meridian, and consequently car never exceed 130 , though sometimes it is reckoned easterly quite round the glabe. The meridim of any part of the world is a great circle passing through the zenits and nadir of the place, and through each of the poles. It therefore divides the heargps, as well as the earth, into two equal pirts, the castern and the Festern hemisphere. Ait such celestial bodies as are in the castern hemisphere are rising, and all such as are in the westem lemisphere are sitting. The sun is at the meridian at noon, and at midnight that part of the meridional circle which is below the forizon, and on which the sun is at midnight, is usually atiled the opposite merkliau. From what has been said it will be easily understood that the meridian of any place on enth has no fixed relation to the stars, but passes, in the space of et hoars, through every part of the theavens. Hence it is that geographers, of different nations, reckon their longitade from different rueridiaus, cotamonly choosing the meridian passing through the metropolis of their orn country for the first. Thus the English generally reckon from the meridian of Luinton, the French froan that or Paifs, the Dutch from that of Austerdam, \&c: some borrever, reckon from the meridian of Ferroe, one of the pzores, and mariners generally from the last knowu land they say. This arbitrasy way of reckoning the longitude from different meridians, makes it necessary, whefeever we would express the lom gitude of any place, that the place it is counted from 10 ealso expressed,

The following observations are very easily authenficatel, zuld may contribute to give the reader some further idea of longitude. First, If (aman should travel directly north or directly south, quite round the globe, he would contrinuily change his latitude, and pass through the two poles of the world without deviating in the least from the meridian of the place be departed frons, and consequently, on his return, will not differ in his necount of time from the people residing in the suid place. Second, If a man should travel round the globe, cithec, dae east or due west, or on an oblique course, betwixt the meridian and the easf and west ppints, he will continually chauge his longitude ; and if bis course be eastward, he will gain a'colnplete day in his reckoning, or reckon one day more than the Sinhabitants of the place from which he departed; or, if his course had been west, he would have lost a day; or reckoned one day less. The reason of this is eavily assigoed; for admitting our traveller steers eastward so many miles in one day as to make his difference of longitude equivalent to a quarter of an bour of time, it is evident that the next day thie sun will rise to him a quarter of an hour sooner than to the inhatitants of tho place from whence he departed, and so, daily, in proportion to the rate that he travels, which, in going quite round, will make up coe natural day. In tike manner, It he steer westward after the same rate, he will lengthen every day a quarter of an hour, and consequently the sun will risc to him so inuch later every day; by which retans, , in going quite roend, bie will lose one day complete in his reckoninga. Whence

## 35

## MATHEMATICAL GEOGRAPHY.

it follows, Third, If two persons should set out from the same place, one steering eastward, and the other westward, and so continue their courses quite round the globe, until they arrive at the plaee from which they set out, they will differ two days in their reckoning at the time of their return. Fourth, The people residing in the easternmosr of any two places, will reckon their time so much the sooner than those who live in the other place, according to the difference of longitude betivixt the two places, ailowing otie hour for every is degrees.

The reader is now enabfed to understand the methods by ewhich the discovery of the longitade has been attempted. The great difficulty attending the enquiry is, that the mes ridian of any place has no relation to the stars, and, therefore cannot be determined like that of a star, by the inspection of the heavenk. The method of discovering the longitude is by determining the difference of titie at the place ofrom whose meridian the dongitude is reckoned, and the time at the place whose longitede is sought: for as 15 degrees of longitude is equivalent to an hour of time, so the relation between any greater or less space of time, and the difforence of longitude, is easily diseovered. All then that remains, is to determine the difference between the time at the two different places, and this has been found extremely difficult. The time at the place where the observation is made, is eavily determined by celestial observations; but it is not so ensy to discover; the time at the place from which the longitude is to be reckoned. To remove this difeficuity several methods have teeen tried. Timp pieces have been invented which have; recorded the time with wondern fexactness; but as even these are liable to error, recourse has been still had to art tain changes in the heavens. Eelipses are, in this respect, extremely serviceable, effec कally those of the moon, because they are more frequently visible than those of the $50 / \mathrm{n}$, and the same lunar eclipse is of equal largeness and duration wherever it is seti. The eclipses of. Jupiter's satellites are still more convenient, because they occur more frequently, but are of no use at sea, because the rolljing of the ship hinders all nice telescopic observations. A third celestinl method is now more soceessfully practised. Wenner, who \&ourished in the fifteenth or sixteenth centuries, proposed to find the longitude it sea, by observing the approuch of the moon to the fixed stars. The explanation of the theory of the moon, by Newton and oilher eminent astronomers, gave a greater degree of practicability to such observations; aud Neville Maskeline, the present Astronomer Royal, has at length brought the method into general practice.

The exast conformity which has been already observed between' the difference of longitude and difference of time, proves to us that every meridian of our globe is equaily affected by the light of henven. This remark would apply to the different parallels of Jatitude, were it not for the two following reasons: Fisst, The earth, on account of the elliptical figure of its orbit, tarries egigit days longer in the southern, than ia the northern signs, consequently, as the sun always appears in that part of the heavens which is opposite to the earth's place, his visit to the northera hemisphere is cight days longer than that which he makes to the southern hemisphere. Second, $\mathrm{A}_{5}$ ahe solar rays Istl mate

directly on the equatorial parts of sur globe than on those which more immediately encircle the poles, both light and heat must, in the former regions, be more intense than in the latter.

The whole of the earth's surface is divided into 60 climates, 24 extending from the eguator to each polar circle, and the remaining six from the polar circle to its respectivo poie. Climates of the former description are distinguished from each other by the difference of half an hour in zhe duration of their longest day"; and those of the litter, by the difference of a month in the continunince of the sun above their horizon.

The terraqueous globe is also dividẹd into zones : torrid, temperate, and frigid. The torrid, or burning xoné, is $23^{\circ} 28^{\prime}$ broad, and bounded by the tropical circles. Between the tropics of the polar circles lay the temperate zones, wifich are two, the northern extending from the tropic of Cancer to the aretic circle of the southern, which is situated betreen the tropic of Capricorn aad the antarctic circle. The frigid zones also are two, surrounding each of the poles from them $28^{\circ} 98^{\circ}$. The space oceupied by the torrid zoine is greater than that which is filled by the frigit ; but not equral to that which is possessed by the temperate regions.
. The reader is thow made acquainted with the five zones, and may, perbaps, be able to point out their limits on the map : he has not, liowever, yet been instructed to ussign the causes from which this division of the earth's surface derives its origin: Enough hias been done to enlarge his catalogue of words; but if he would make any valuable addition to his store of ideas, let him take bis station on various regions of nur globe, view them as affected by the succession of seasons, and investigate their relation to the celestial luminaries.

Whenever the days are exactly 12 hours long, the sun rises due east and sets due wett ; where the days exceed this length, he rises and sets towards the north: and where they are of shorter duration, he rises and sets towards the soath. The point where the sun makes his first and last appearance varies from the east and west points of the bori$z o n$ in the same proportion that the length of day varies from the fore-mentioned number of hours. This observation applies to every part of the earth, unless preciscly at the poles, where there is neither east hor'west ; therefore, at the north pole, the sun always rises and sets in the south, and in' the south pole he always rises and sets in the north.

The appearances of the sun at noon aro somewhat more varicus. To all that reside between the tgopics he is vertical taice in the year. He is, therefore, seen by them in tiree different positions: north, sonth, and vertical. To such as dwell immediately under the tropical circles, he is vertical but onice in the course of his annual revolution. Such as dwell beyond the tropic of Caneer, und sueb as divell under it, (untess when the sun is vertical to them) always see him in the socth; whild sweh as dwell beyoud the tropic of Capricorn, and sueb is divell under it (unless when the sun is vertical to thiemi) always see him in the north.

On the 18th of March, when the sun enters the sign of Aries, be is vertical to that portion of our globe which corresponds with the equiuoctial, sooth to ail that lays north Vul. 1.
of it , and north to all that lays south of it. The days and nights are now of equal length to all the inhatitants of the sarth, unless at the pules, and bere the sun is seen fixed in the horizon. In the northern hemispbere it is spring, and in the southern bemispliere it is autuma. When the sun has passed the equinox be proceeds towards the north, becoming every day vertical to places further north of the equator than those to which he was vertical the day preceding. In the sorthern hemisplere the days are continually shortening. . Every day the northern pole becomes more ealightened, nad a greater portion of the arctic regions have the sun continunlly elevated, while, to the soutb pole, and the antaretio regiuns, be becomes every day tmore depressed.
June the glot the $84^{\circ}$ enters Cancer, pand is, consequently vertical to those who are directly under the tropical circle. To ail the gther inhabitants of tho torrid zone, he appears in the north. It is now longest day to the whole northern bemisphere, and shortest day to the whole southern bemisphere. To all those that live between the aretir circle and the pole, the sui does not set, and his height above the horizon, when he is in the lower part of the meridian, is equal to their distance from the arctic circles for example, those who live in the 80 th paraliel have the sun when he is Jowest, at this time $15 \frac{1^{\circ}}{2}$ bigh. He is just visible to such as inhabit under the autarctic circle, bus entirely unseen by such as live nearer to the south pole,

Inmediately after this the sun declives towards the south, and becomes vertical a second time to such as are situated between the équator and the tropic of Cancer. The days decrease in the northern, and increase in the southern hemisphere, and the arctic regions berome less enlightened. At length the sun arrives at the first of Libra, and exhibits the same plicnomena as at the vernal equinox, unless that it is now autumn where it was theu spring, and spring where it was then autumn. The days continue increasing in the south, and decreasing in the north, till the 21 st of Deoember. Then the sur,
thaving in his progress become vertical to all the sooth half of the torrid zone, takes possession of the winter solstice, and exhibits effocts, oxactly opposite to those which be produces when in the tropic of Cancer. " The sun is now vertical to such as live directly under the tropic of Capricorn, and appears south to all that inhabit north of that climate. It is longest day in the southern hemixphere, and shortest day in the northern : it is then perfectly light at the south pole, and total darkness at the north pole.
After this he becomes a second time vertical to the southern regions of the torrid zone, and thus, proceeding to the vernal equinox, completes his annual revolution.

The inhabitants of different latitudes not only experience that astonishing diversity of seasons we have been now describing, but they ulso reccive the influence of the moon with circumstances of considerable varicty. We cannot give the reader a more satisfactory account of these phenomena than by subjoining the following extracts from a modern publication of unquestionable merit.
" It is generally believed that the moon rises about 50 minutes later every day thinh the preceding ; bat this is true only with regard to places on the equator. In places of considerublo latitude there is a remarkable difference, especially in the harvest time. Here the autumnal moon rises very, soon after sun-set, for aeveral evenings together,

At the polar circles, where the mild season is of very short daration, the autumnal fult moon rises at sum-set, from the first to the third quarter. And at the poles, where the son is for half a year absent, the winter full mooas shine constantly, without setting, from the first to the third quarter. All these phenomena are owing to the different angles made hy the tiorizon, and the different part of the moon's orbit; and may be explained in the following manner: The plane of the equinoctial is perpendicular to the earth's axis ; and, therefore, sas the earth turas round its axis, all parts of the equinootial make equal angles with the horizoo, both at rising and setting, so that equal portions. of it always rise or set in equal times. .Consequently, if the moon's motion were equable, and in the equinoctial at the rate of $19^{\circ} 11$ from the sun every day, as it is in her orbit, she would- rise and set 50 minutes later every day thah on the preceding ; for $19^{\circ} 11^{\circ}$ of the equator set in 50 minutes of time in alt latitures. But the moon's motion is so nearly in the ecliptic, that we may'consider it at present as moving in it. Now the different parts of the ecliptic, on aceount of its obliquity to the earth's axis, make very different angles with the horizon as they rise or set. Those parts or signs, which rise with the smallest angles, sst with the greatest, and vice versa. In equal times, whenever this angle is least ; a greater portion of the ecliptic rises when the angle is longer, as may be scon by elevating the pole of a globe to any considerable lakitude, and then turning it round its axis in the horizon. Consequently, when the moon is in those signs which rise or set with the smallest angles, she rises ot sets with the least difference of tone, and with the greatest difference in those sigas which rise or set with the greatest angles."
"In uorthern latitude the sunallest angle inade by the ecliptic and horizon is when Aries rises, at which time Libra sets ; the greatest when Libra rises, at which time Aries sets. Hence, from the rising of Aries to the rising of Libra, which is twelve sidereal hours, the angle increases : and from the rising of Libra, to the rising of Aries, it decreases in the same proportion. By this article it appears that the ecliptic risel fastest about Aries, and slowest about Libra."
"On the parallel of London, as much of the ecliptic riser about Pisces and Aries as the moon goes through in six days ; and, therefore, while she is in these signs, she differs but two hours in rising for six days together, that is about 20 minutes later every day or night than the preceding, at a mean rate. But in 14 days afterward the moon comes to Virgro und Libra, which are the opposite signs to Pisces and Aries ; and thero she differs almost four times as much in the rising : namly, one hour and fifteen mimutes later every day or night than the former whilst she is in these signs."
"As the moon can never be full but when she is opposite to the sun, and the sun is never in Virgo or Libra but in our autumnal, months, it is plain that the moon is never full in the opposite signs Pisces and Aries, but in these two months; and, therefore, we have only two full moons in a year, which rise so near the time of sun-set for a week together as above mentioned. The formier of these is called the harvest moon, and the latter the bunter's moon.' ${ }^{\text {. }}$

Here it sill probably be asked why we never observe this remarkable rising of the
moon , but in harycst, seeing she is in Pisces and Aries twelve times in a year beside, and must then rise with as little difference of time as in harvest? The answer is phain ; for in winter there sigus rise at noon, and being then only a quarter of a circle distant from the son, the moon in then is in her first quarter ; but when the sun is above the horizon, the moon's rising is neither regarded nor perceived. In spring these signs rite with the sum, because he is then in them ; and as the moon changeth in them at that time of the year, sho is quite iqvisible. In summer they rise about midnight, the sun being then three signs, or a quarter of a circle before them, the moon is in them about her third quarter; when rising so late, and giving but very little light, her rising passes unobrerved. And in autumn, these tigus being opposite to the sun, rise when he sets, with the moon in opposition, or at the fulls, which makes her risingevery conspicuous."

* At the equator the north and south poles lie in the horizon, and therefore the ecliptic makes the same angle southward, with the horizon, when Aries rises, as it does northward, wheo Libra rises. Consequently, as the mona rises and sets nearly at equal angles with the horizon all the year round, and about 50 minutes later every day or night than on the preceding, there can be no particular harvest moon at the equator, The firrther any place is from the equator, if it be not beyond the polor circle, the more the angle is diminished which the ecliptic and borizon make when Pisces and Arics rise : and, therefore, when the moon is in these signs, sho rises with a greater proportionable difterence later every day than the former; and is for that reason the more remarkablo about the full, until we come to the polar circles, or 60 degrees from the equator : in which latitude the ecliptic and horizon become coincident every day for a moment, at the same siderial hour, or 3 minutes 56 seconds sooner every day than the former, and the very next moment one half of tha ecliptic, containing Capricorn, Aquarius, Pisces, Aries, Taurus, and Gemini rimes, and the opposite half sets. Therefore, whilst the moon is going from the beginning of Capricorn to the beginning of Cancer, which is almost 14 days, she rises at the same siderial hour ; and in autumn, just at sun-set, all that balf of the ecliptic, in which the sun is nt that time, sets at the same sidereal hour. and the opposite half rises, that is 3 minutes $56^{\prime}$ seconds of mean solar time sooner every day than the day before. So, whilst the moon is going from Capricorn to Cancer, she rises earlier every day than on the proceding, contrary to what she does at all places betweca the polar circles ; but during the above 14 days, the moon is 24 siderial hours later in setting ; for the six signs which rise on the castern side of the horizon are 24 bours in setting on the western side of it. In northern latitudes the nutumnal full mioons are in Pisces and Aries, and the vernal full moons in Virgo and Lilra ; in southenn latituides jast the reverse, because the seasons are contrary, but Tirgo and Libra rise at as small angles with the horizon in southern latitudes, as Pisces and Ários do in the northern, and therefore the harvest moons are just as regular , on one side of the equator as on the other.
"4 As the signa -which rise with the least angles, set with the greatest, the vernal fult
moons differ as much in their times of rising every night as the autumnil full moons do in their times of setting; and set with as little difference as the autumnal futl moons rise with, the one being in all cases the reverse of the other."
"Hitherto, for the sake of plainness, we have supposed the moon to move in the ecliptic from which the sun never deviates. But the orbit in which the moon really moves is different from the ecliptic ; one half being elevated $5 \frac{1}{3}$ above $i t$, the other as much depressed below it; so the moon can never be in the celiptic but when she is in cither of the nodes, which is at least tivice in every course from clange to change, and somoe tines thrice. The moon's obtique motion with regard to the ecliptic, causes some difference in the times of rising and setting from what has been nlrea̧dy mentioned. For when she is northisard of the ecliptic, she rises sodner and sets later than if she moved in the ecliptic ; and when she is southward'of the ecliptic, she rises later and sets sooner."
"At the polar circles, when the sun touches the summer tropic, be continues 94 hours above the horizon, and 24 hours below it, when he touches the winter tropic. For the saine reason the moon neither rises in summer, nor sets in winter, considering her as moving in the ecliptic; for the winter full moon being ns high in the celiptic as the summer sun, must therefore continue as long above the horizon, and the summer full moon boing as low in the ecliptic as the winter sun, can no more rise than he does. Dut these are the only two full moons which happen asout the tropic, for all the others rise and set. In summer the full moons are low, and their stay is short above the horizon, when the nights are short, and we have the least occasion for moon light; in wintor they go high and slay long above the horizon, when the nights are long, and we want the greatest quantity of moon-light."
"As the sun is above the borizon of the north pole from the e0th of March to the e9d of September, it is plain that the moon, when full, must be below the horizon during that half of the year. But when the sun is in the southern balf of the ecliptic, he never rises to the north pole; during which half of the year, every full moon happens in some of the northern balf of the ecliptic, which never sets. Consequently, as the polar inhabitants never see a full moon in summer, they have her always in the winter, before, at, and after the full, shining for 14 of our, days and nights. And when the sun is at its greatest depression below the horizon, , being then in Capricorn, the moon is at her third quarter in Aries, full in Cancer, and at her first quarter in Libra. And as the beginning of Aries is the rising point of the ecliptic, Cancer the highest, and Libra the setting point, the moon rises at her first quarter in Aries, is most elevated above the horizon, and fulf in Cancer, and sets at the beginning of Libra in ber third quarter, having constinued visible for 14 diurnal rotations of the earth. Thus the poles are supplied one baff of the winter time with constant moon-light, in the sun's absense; and only lose sight of the moon from her first to her third quarter, while she gives but very little light, and could be of little or no service to them."

Thie appearance exhibited by the fixed stars to the inhabitants of the different regions of the carth, affords also some considerable variety. To such as dwell immediately uader the line, all the stars rise and set, unless such as may be observed exactly at the Vol. I.
L.
poles, and these woild remmin fixed in the horizon. The farther we depart from the equator on either side, the greater number of stars continue above the horizon, whilst an equal space of the heavens is always depressed below it. The same stars that to the inhabitants of any given latitude remain continually above the horizon, to the inlurbitants of an opposite latitude remain depressed below it. Those stars, for instance, which are always visible at lat. $45^{\circ}$ north, ere always invisible at lat. $55^{\circ}$ south. At eacli of the poles half of the stars, are visible, and theso continue at all times above the liorizon. *The planets and comets must, of course, be visible only where the constellations are visible through which they are traversing, therefore afford room for no farther observation.

If the former chapter presented the Deity to our view as the mighty monarch of an unbounded empirc, this leads us to revere hiin as the universal Father, who has adapted, with infinite kindness, the movements of the planetary spheres, to the various circumstances of the different regions of the earth; and while he probably designed the celestial luminaries to furnish habitations for vast numbers of intelligent beings, hath also mercifully appointed them to be the inhabitants of this earth for sigas and for seasons, for days and for yeurs.


## CHAPTER III.

Metsonolocy....-Dificiculties. attoraing metcorological enquivies--Probable causes of the variation of sesseqn-Light-Optical aifinitiont-Properties of light-A

 lours of natural hodics-Bhece mofour sit the sity-Cotore's of clouds-Transparent, opake, and phosphoric bodics-Menffits, of lighic. Heat-.Opiniens of Boyle and Bocrharve on the nature of firc-miciticicy-of silk-Of blasi--Electrical mia-chunce.-Jar, and buttery-Of groilac, amber, fe-Of the tourmalin- Frank-
 tricity-Air, matcrial, hecryy-Baroudter- Elasticity-Gasses-Heighe of the atmosphere--.Undulation-...Wind-.-Hurricancs...Whirkcinds-...IV ater-spouts-...
 ning--Thunder-Mctcors-- Falling stars-Igrice fatui-Aurora Barcalis,

IT has been frequently and justly remarked that the farther men advance in the pursuit of wisdom, the less are they elated by the retrospect of their attainments: that while the smatterer in knowledgo is prood, the true pliflosopher is humble. This remark is applicable, in its ntmost extent to the finvertigation of the subject before is. The student that bas barely obtained an insight into the doctrinc of zones and climates, imigiacs himself able at once to determine thio weather that is experienced in every part of our globe. He calculates the heat of each region by the inverse proportion of its latitude, and arguing form the slendes stock of his owa actual observations, fixes with precision which tracts of the earth's surfice are covered with eternal snow, which are scorched up with continual heat, and which enjoy a truly temperate medium, like that with which his native istand is faroured. He enjoys this pleasing delusion till he is awakened out of it by further information. He hesiss that thie waters of Holland are covered with bridges of ice, while those of England scarcely sopport the burtien of ant egg: and that countries in America, which lay moder the parallel of Cambridge, are scarcely habitable in winter by reason of the cold. He now wishes to understand the causes by which such an astonishing variety is produced; but has not gone far in this pursuit, before he becomes surrounded with dififculties. Hills peep over hill, and Alps rise upon Alps. In some casés lec obtains fixed data, concenning which all parties are agreed; in others, he can only collect the opinions of the learned. These difficultics orise from the subtile zasture of the elemients, which wre, in many instances, not easily perceptible, either to the, eje or to the touch; from the secrecy with which many of the operations of nature are conducted, and to that propensity, so powerful ainong mortats,
$\therefore$ to supply their want of information by the fertility of their conjecture.

The phenomena of our atmosphere, of which, in this chapter, it is designed to treat, are denominated meteors, and divided into two classes, viz. those which rise in the heavens, seemingly without any connection with the earth; and those which are perceptible only in the lower regions of the atmosphere. The former are only tliree in number, viz. large fire-balls, falling stars, and the aurora borealis. The second class is much more numerous, including the phenomena of the ordinary winds, rain, bail, snow, clouds, and vapours of all, kinds, thunder and lightaing, hurricanes, whirlwinds, waterspouts, ignes fatui, and other luminous appearances; not ofeepting the various changes of the atmosphere itself, with regard to rarefaction, gravity, and moisture.
Thiough all these niust, no doubt, somehow depend upon the action of the sun upon the earth, and on the aunual and diturral motion of the latter, jet we do not find the same regularity in meteors that wo do in other pheriomena of nature. Every succeeding year differs from that which preceded, in a vast number of instances. Sometimes wo find a number of years, successively, similar to each other, and another sez, quito different, taking place immediately after them. This dissionilarity between the phenomena of different years, may warrant us to conclude that other causes, beside the reguInr action of the sun, apd revolution of the earth, are concerned. Some of these causes may be supposed to be fermentation, and other commotions within the bowels of the earth; but as all fermentation is a regular process, and takes place only in certain circumstances, of which heat is a very considerable one, why is there not annually a certaid quantity of this fermentation excited? And why are not regular effects observed in proportion? It does not indeed appear that ths immense variety of meteorological nppearances can, by any means, be accounted for, but by the interference of some causes in their own nature frregular, that is, capable of such endless variety that no assignable space of time is sufficient to exhaust it. These causes, as they cannot be proved to exist cither on the surface of the earth, or in its internal parts, must be sought for in the celestial expanse itsolf. Sir Isaac Newton supposed tho planets to be infloenced by the comets, and that from the tails of the latter some of the finer parts of our atmospbere were produced. He even supposed that from these bodies a quantity of water, imagined to be wasted in the various operations of nature, might be supplied. But if it be not unreasonable to suppose that comets answer some such purposes inenature, it is as little unreasonable to think that the planets may infuence the atmospheres of one another. That this must be the case is very probable, not only on account of the light they reflect upon one another, but also by reason of their spheres of mutual attraction, which extend an immense way, and are so powerful in the planets Jupiter and Saturn, that they disturb the motions of each other's satellites as they pass.

But besides even these causes, if we allow them to be such, there are others which take place in the immeuse void between the celestial bodies. That ehangeo do take place in this space, is evident from what is related of the total disappearance of some of the satellites of Saturn, and their sudden re-appearance, withoot any perceptible change in our atmosphere so as to effect our view of the celestial objects, It may appear ridiculeus to think that a change in such distant regions should bave any influence
pron the atmosphere of the enth ; but wo must remember that if the universe be cont nectod together as one vast kystew, which we bave every reason to believe, it is as iunpossible that a change cunt talee place in any part without affecting the wholo in sotre degree, as it is impossible to change any part of a cleck or wateh without affecting the Uhote movement. But of all the changes that take place in the celestial regions, those which affect tho sun seem most likely to produce changes ia'our atmosphere, and to be the bidden cuuses of wiany theteorological plienomena.

That the sun is not excmpt from chnings is evident from the spots which are seen in his disk. It has been observed in scme years that the sun lys seemed to lose his infuence, and even to the naked eye to appear much dimmer than usual. In such cases it is impossible, but our atnospliere, and even the whole solar system must bave been affected ; and not only must the seasons, for the present time, have folt the molign infivence of auch spots, but the atmosphere itscif may have acquired such a disposition as to produce seasons of a pecoliar niture for a number of years afterwards. If it be true, according to the hypothesis of some. that the sun is supplidd with fuel by comets falling into his body; it is plain that every new accession of this kind must have a proportioneble effect upon all the bodies exposed to tis tight. If the comets do not perform any such office, still, it is very probable, they answer nome purposes to the planets, becouse they are never seen without the planetary regions; and though their influence be bot immediately perceptible, it is impossible to prove they have none, nor indeed is it probable that they have none, for the influenon of any ofject extends as far as its light, and how much farther we cannot tell. Considering the matter in this view, therefore, there is not a spot that can obscure the sun, a comet that can approach the carth, nor, perliags, a belt or spot which can take plhee on Mars, Jupiter, or Saturn, which may not be productive of important changes in our atmosphere, and affect the meteors produced by it in many different ways.

But though these causes may affect the diversity of scasons, it is not from them we must derive the rygar phetiomena of the atmosphere ; these, undoubtedly, depend on the setted action of light, heat, and the, electric thuid. We shall, therefore, first inquire into the nature of these fluids, and thicu attempt to describe their operations and effecte.

The opinions of philosophers concerning the nature of light, may be in general reduced to two. The first of these, doducing the phenomena of vision from the undulations of an elostic fluid; the socond, deriving them from the netion of matter cmitted from the shining body with immense velocity, moving uniformly in staight lines, and acted upon by other bodies so as to be refected, refracted, or inflected, by means of forces which aet opon it, in the same manaer as on other inert matter. This latter senfiment was introdiued by Sir Isaac Newton, and supported by litm with unanswerable wrguments. It is now generally received by the learned, and may be safely considered: Et possessing the greatest claim to our regard.
-The least particle of light, that can bo eithor intercepted alono whilst all the rest ane suffered to pass, or that can be let pass nionc, whilst all the rest are intercepted, is called: a ray of light. Any parcel of cays diverging from a point, considerod as separate from: YoL 1.

## METEOROLתGY.

the rest, is called apencil of rays. Whatever is beheld by the eye, is by opticians called an "object. They consider every lumiaous object as mado up of a vast number of mil nute poiats, and that each of these points, by an unknown power, sends forth rays of light in all directions, and is thus the centre of a sphere of light extending indefinitely on all sides. A small object, or pbytical point of an object, considered as propagating light towards a certain part, is sometimes called a radiant, or radiating point. Those rays which proceed from any point, at a very great distance, may be considered as parallel rays, for the greater the dirtance of the point from whence rays flow, the nearer do they approach a parallel dircetion. By a medjum, in the language of opticians, is meant any -pellucid or transparent body, wisch suffers light to pass through it. Thus water, air, glass, or a diamond, are'called mediums: One medium is said to be more dense than another, when it contains more matter in the same bulk ; thus glass is more dense than water, and water is more dense than air. -

Light noves or acts in a straight line, as appears from the shadows which opaque bodies cast, for if the light did not describe straight lines, there would be no shadows; it is equally plain from light's finding no passage through bent tubes, In consequence of this property of light, a luminous body may be seen from all places to which a straight line can be drawn, witbout meeting with any intervening obstacle. Wheresoever a spectator is placed with respect to a luminous body, every point of that part of the surface which is turned towards him is visible, each point is, therefore, a radiant point emitting rays in all directions.

Dr. Bradley observed that the eclipses of Jupiter happened $8^{\prime} 19^{\prime}$ sooner than calcuLeted when Jupiter was in opposition to the sun, and $8^{\prime \prime} 19^{\prime}$ later than calculated when the is in conjunetion with that tumiary, Hence be concluded that light is, in that space of tiwe, propagated as far as from the sun to the earth. The velocity of light being known, we should be able to estimate the magnitude of its particles, if we were in possossion of good observations of the effecty of their fhomentom. For example it is found that a ball from a cannon, at its first discharge, flies with a velocity of about a mile in eight seconds, and would therefore arrive at the sun in 39 years, supposing it to move with unremitted vclocity. Now light passes in 'abobut eight minutes, which is two milIions of times faster. But the forees with which bodies move are as their masses multiplied by their velocities : if, therefore, the particles of light were oqual in mass to the tho millionth part of a grain of sand, we should be vo more able to endure their force than that of sand shot point blank from a cannon.
This wonderful minoteness of the particles of light will be farther proved when we consider that if any one make a bole in a piece of paper with a needle, he will sec all the objects that are before him be they ever so minute. If a common tallow candle be lighted, and set by night on an high tower, it will illuminate a sphere of a mile diameter, without having its bulk diminished in any sensible degrec. Rays of light will pass without confusion through a small puncture in a piece of papet, from several candles in a line parallel to the paper, and form distinct images on a slieet. pasteboard placed belund the paper.

The effects produced by bodies on the rays of light are chiefly the following : infection, reflection, and refraction.

By the inttection of light we are to understand a certain inftuence of bodies upon it by attraction and repulsion. This is a subject but little understood, as the experiments of Sir Isaac Newton were confessedly incomplete, and succeeding philosophers bave dobe little more than collect a few isolated facts, without being able to form a regular combination of chnsequences. The laws followed by the powers that inflect the light, and the limits of their action, are yet unknown. To explain a little the nature of this pheromenon, se will recite one or two of the experiments by wivch it has been discovered, If a beam of the sun's light be admitted intó a darkenod chamber through a hole of the breadth of a forty-second part of an ineh, the shadows of hairs, threads, ping, straws, kec: sippear considerably longer than they would be if the light passed by them in straiglit lines. For example, a hair whose breadth was the 980 th part of an ineli, being theld in the light, at about 12 feet distant from the hole, cast a shadow, which at the distance of four inches from the hair, was the 60th part of in incti broad, that is, abont four times the breadth of the hair.

- Let a beam of the sun's light be admitted through a hole a quarter of an incli broatf place a sheet of pasteboard, blacked on both sides, at'almost three feet from the hole ; in the middle of the paste board let there' be a hole 5 - 7 ths of an inch square for the light to pass through ; belind the paste board fasten the blade of a sharp kaife, so as to stop part of the light going through the hole. The knife and pasteboard are to be parallel, and both to be at right angles with the beam. Let a part of the ligbt which passes by the knife's edge, fall upon a white paper at about three feet distance, and there will be twostreans of light shooting out both ways into the shadow, somewhat file the tails of comets. Placing another knife with the édge very near, and parallel to the first ; if they be distant the 400 th part of an inch, the stream of light passing between them will le divided, paring in the middle, leaving a dark shadow in the interval; as the edges spproach, the shadow grows broader, and the streams narrower at the finer end, so that the light that is least bent goes, to the imner end of the stream, and passes ot the greatest distance from the edges. When this distance is about tie 800th part of an jich, the shadow begins first, the light which passes at less distance is more bent, and goes to that sido which is farthest from the direct line : at length, at the contact of the knives the whole light vanishes, leaving its place to the shadow.

From these, and many other experiments, it is inferred that the ruys of light are influenced by some power that turns them out of their direct course; and as that power does not bend the rays into the shadour of the bodies from which the infuence is supposed to proceed, but from the shidow, it bas been considered as is repulsive power that is strongest at the least distance.

When a ray of light falls upon any body, however transparent, the whole of it never passes through the body, bat some part is alway driven back or reflectel from it. Of that pirt of the ray that enters, another part is also reflectod from the second surfice, or that which is farthest from the luminous body. When this part arrives again at the
first surface, part of it is refectod hack from that surfice, and thas it continues to be reilected between the two surfaces, and to pass backwardsand forwards, within the substances of the mediums, till some part of it is totally lost. Beside this inconsiderable quantity howeser, which is lost in this manacr, the second surficie often refleets much mure than the first, insomuch that in certain poitions scarco any rays will pass through both sides of the miedium. No body is, thetefore, so trantyparent is to tramsinit all the rays which fall opon it, bor is any so well fitted for reflection as to reflect them all.

The angle which a ray of ligbt makes with the surface of any body on which it falls, is called the angle of incidence, and the angle which the rays make with the same surfuec, when reflected from it, is called the mingle of reflection. The two angles are always equal to each other: thus for instance, if a ray filling upon a mirror makes an angle of $45^{\circ}$, the angle of its reflection will amount to just the same number of degrees. To make this still plainer, suppose an unruffled pool, which is every way exposed to the rays of the sun, when the sun is exactly level with the borizon, there would be no angle of incidence at all, but its rays would pass just over the top of the water. Let the sun be elevited one degree, and the incident ray would form with the water an angle of one degree, proceeding from the eastern part of the heavens, and the reflecting ray would form an equal angle, directing itself toward the west. If the pole were in a place to which the son is vertical, the reflecting ray would, in that case, become the same with the incident ray, and be reflected back again towards the vertical point. This equality of the angle formed by the incident ray, with that which is formed by the reflecting ray, is a fundamental principle, which bolds good in all cases, and is of the utmost importance in optics.

Before the time of Newton it was universally believed that the rays were reflected by striking against the surface of bodies, as a ball rebounds upon striking against the ground, This opinion is, however, now rejected, by the learned. They conceive that if the rays of light were reflected by inpinging on the solid parts of bodies, their reflections from solid badies coold not be so regular as they ahe ; for, however polished the smootiest object may seen to our sight and, topeb, get it is in fact one continued assemblage of inequalities. Nor in polisting glaso with sand, putty, or tripoli, it is not to be imaginied that these sobstances cab; by grating and fretting the glass, bring all its least particles to an aecurate polist, so that all their surfices shall be truly plane, or truly sptierical, and look all the same way, or compose one even surface. The smaller the partieles are, the smaller will be the seratches by which they continually wear away the glass uutil it be polished; but be they ever so small, they can-wear away the glass no otbersise than ty grating and scratching, and breaking the protuberances, and therefore polish it no othervise than by bringing its roughness to a very fine grain, so that the seratches and frettings of the surfaces become too small to be visible. From such a sarface it cannot be supposed that rays will be reffected nith such oniformity as we usually observe ; on the contrary, it is highly probable that, if light were refected by inpinging on the sulid parts of glass, it would be scattered as much by the most polishicd, as by the roughest surface.

It is, therefore a problem, low glass, pulisticd by frotting substarees, ean reflect fighit in so regalar a manner, and this problem is scarce otherwise to be solved thin by sayiug that the retlection of a ray is not effected by the reflecting body, but bysome power of the body which is regalarly diffused all ovee its sarfice, and by whiel it nets upon the ray without imasdiate contact, so that it is reflocted before it arrives at the surfices Bodies shining with their own liglit, are mostly brighter than opaque bodies illaminated by them, for opaque bodies disperse the light falling opon them in all mamer of ways ; whence, supposing atf the tight to be reflocted, the quantity reccived by the eye froin them, compared with that recelved from the fuminous body, is only as the visible illuminated surlace of the opaque boody, to the sorface of an hemispliere whose radios is as the distance of the opaque body from she eye. Hence arises the amazing disproportion between the light of the fill mioon, and that of the sun, whien clevated to equal heights above the 'horizon, aind otherwise plieed in similar circumstances, which is perecived by the most inattentive observer, bot when calculated by the learned, has been found to be great almost beyond credibility.

The following extrict from Mr. Nebsotson will point dit an casy mettiot of comparing the light of our two priacipal laminarics :

* Whea the moon is visible in the day time, its light is so hearly equal to that of the lighter thin clouds, that it is with difficulty distinguished namongst them. Its light continnes the same duing the night, bot the absence of the san pertuitting the aperture of the pupil of the eye to dilate itself, it becbued more conspichous. It follows, therefore, that if every part of the sky were equally fumimous 'with the moon's disk, the light would be the same as if in the day time it were covered with the above-mentioned thin clouds. This day light is, consequently, in proportion to that of the moon, as the whicle surface of the hemispliere is to the surface of the moon, thint is; nearly as 90,000 to one.",
"Wben a ray passes out of any medium of $\pi$ different density, it is affected secording to the nature of the medium it cnte:s, and the direction in which it enters it. If it enter a denser medium its velocity is atwiys ucreased, ind, on thie contrity, if it onter into a rarer medium, its velocity is alsays diminisbed; but in neither of these ceses is it drawn from its rectilinear course, unlesy when if proceeds in tin oblique direction. If a ray passes obliquely from a rarer to a deuser medium, ite motion is not only accelerited, butfurned toward the perpendicutar ; if on the other sidd it poss from a denser to a rarcr mediam, its motion is not moly retarded, but drawn from the perpendicular. Either of these changes is called refraction. When the ray is refracted it alvays goes in a rectilinear cours, making 80 many sagles as it enters different mediums unless when the density of the riedium either gradually inercases, or girdually diminishes when it takes a curved direction. This is the case with our atmospliere, which increases in density as it approaches the earth."
"Tho following experiments are easily put io practice, and affond an agreeable cioeidation of the doetrine of refruction. Inke an empty bason, aud ut tho diameter of the botton fix marks at a small distance from each other; then take it into a dark room Yol. 1.
let in a ray of light, and whero this falls upon the floor place your bason, sq that fo marked diameter may point towards the window, and so that the beam may fall upon the mark most distant from the wiador. This done, fill the bason with water, and you, will observe that the beam, which before fell upon the most distant mark, will now, by the 'refractive power, be turned out of its strafgit course, and witl fill tiro or thiree, or more marks nearer the centre of the bason. Make the water in the bason muddy, but not 50 meeb. so as to destroy its tansparency, which you may easily do by droppitry thercin a few drops of milk; then fill the room with dust, and the beam of light will be. very visible both in its passage through the air and through the water, and you witl observe very distinctly three beams, that of incidence, which, in coming through the bole, falls obliquely upon the yater; that of reflection from the surface, making the angle of reflection exactly equal to the angle of iscidence; and that of refraction, which, from the surface where it was bent, moves in a straight fine to the bottom of the bason. Alt things remaining the same, place a small piece of looking-glass at the bottom of the bason, where the refracted beam falls, and it will thereby be reflected back again through the witer; and in passing out of the water into the air, will be again refracted or turned out of its course."
"Another experiment, though very common, gives a clear idea of the power of refraction ; place a picee of moncy at the bottom of a bason, and walk back therefrom - till you cannot see the piece of money, then let sume water be poured in, and it instantly becomes visible. The eyc has not changed its place, but the ray of light has taken a new direction in passing from the water into the eye, and strikes your eyc as if it came. from the picce of money".
"An object situated in the horizon appears above its true place, on account of the refraction of the rays, which proceed from it in their passage through the atwo-plere of the earth. Whether an object be beyond or within the linits of the atmosplece, the ef fect produced is the some, because the rays which proceed from the object continually enter denser parts of the atmosplere, and are refracted towards the centre of the atmosphere, which is the centre of the ecarth, and'thus describe a curve bending downwards ; they cannot, therefore, enter the eye which is placed on the surface of the earth unless they enter the atmosphere at some point above the object, which must, in censequence, appear higher than its proper place. Hehce it is that the sun, moon, and stars appear above the horizon when they are just below it, and higher than they ought to be when they are above it; likewise distant hills, trees, \&c, seem to be higher than they really are. Further, the lower these objects are in the horizon, the greater is the obliquity with which the rays enter the atmosphere, or pass from the rarer into the denser parts of it, and therefore they appear to be more clevated by refraction: upon which account the lower parts of them are apparently more elevated than the upper. This makes their upper and under parts seem nearer than they are, as is cvident from the san and moo3, which appear of an oval shape when they are in the horizon, their horizontal diameter appearing the same length they would do if their rays suffered no refrection, while their vertical ones are shortened thereby,"

Light we have hitherto considered ng eonsisting of mivs pelfectly simithr in hature, and subject to the same laws : that this is not, however, the cise, bas been ably deworrstrated by Sir Isanc Newtom. We shall first present our reader with a general view of fils theory of tight and cotours, as given by a fate ingentous pliflosophical lecturer, nind then offer a slight specimen of the experiments by which be established this opinion. The limits of our work will not permit us to do more, nor do we inagine that more will be required, when it be considered with what universal approbation his theory tas been received by the whole body of the learned. Before we transcribe this sumimary of the doctrines of Newton, it'is, Lowever, necessary to remark that when a ray of lighit is, by passing through ghiss, or any other medium, more refracted than another ray, it is said to be more refrangible; refrangibility meaning nothing enore than a capacity of being refracted.
${ }^{4}$ Sir Isadnc Nevton's theory of light and colours is striking and beautiful in itself, and deduced from elear and decisive experiments, and may be almost said to demonstrate clearly, First, That lights which differ in colour, ditfer also in degrees of refrangibility. Second, That the Bygt of the sut, notwithstanding its uniform appearance, consists of rays differently refrangible. Tlird, That those rays which are more refrangible than others are also more reflexible. Pourth, That as the rays of light differ ins degroes of refrangibility and reflexibility, so they do nlio in their disposition to exhibit this or that particular colour; and that colours are not qualifications of tight derived from refractions or reflections of natural bodies, as was generally believed, but original and connate properties, which are differest in different rays, some rays being disposed to exhibit a red colour, and no other; some agreeb, and no other, and so of the rest of the prismatic colours. (Those coloors which are seen in the rainbow, or are made to appear when light is transmitted through a prism, are denominated prismatic colours.) Fifth, The lights of the sun consist of violet making, indigo making, blue making, greeu making, yellow making, orange making, and red making rays; and all of these are different in their degrees of refrangibility and reflexibility, for the rays which produce red colours are the least refrangible, and those that make the voilet the most; and the rest are more or less refrangible as they approach eitber of these extremes, in the order already mentioned: that is, orange least reffangible next to red, yellow next to orange, and so on, so that to the same degree of refrangibility there ever belongs the same colour, and to the same colour, the same degree of refrangibility. Sixth, Every homogenial ray considered apart is refracted according to one and the same rule, so that its sine of incidenco is to its sine of refraction' in a given ratio, that is, every different coloured ray has a different ratio belonging to it. Seventh, The species of colour, and the degree of refrangibility and reflexibility proper to any particular sort of rays, is not mutable by reflection or refraction from our natural bodies, tibr by any other cause that has yet been observed. When any one kind of colour has been separated from those, of other kinds, it has obstinately retained its colour, notwithistanding all endeavours to bring about a change.. Eighth, Yet seeming transactions of any colours may be maide when theie is any mixture of different sorts of rays, for in such mixtures the component

## METEOROLOGY

colours appear not, but by their mutunlly nllaying each other constitate an intermediate colour. Ninth, There are, therefore, two difierent sorts of colour, the one original and simple, the other compounded of these: and all the colours of the universe are either the colours of homogenial simple light, or compounded of these mixed together in certain proportions. The colours of simple light are, iss we observed before, violet, indigo blue, green, ycllow, orange, and ied, together with an indefinite variety of lutermediate gradations. The colours of compounded light, are indifferently compounded of these simple rays, mixed ij various proportions : thus a mixture of yellow making. and blue making rays, exhibit a green colour, and a mixthre of red and yellow makes an orange; and in any colour the sume in specie with the primary ones may be prodaced by the composition of the two colours nest adjacent, in the series of colours generated by the prism, whercof the one is next mbst refrangible, and the other nest least refrangible. But this is not the case with those whlch are situated at too great'a distance ; orange and indigo do not produce the intermediate green, nor scarlet and green the intermediate yellow. Tenth, The most surprising and wonderful composition of light is that of whiteness ; there is no one sort of rays which alone exhilsit the colour, it is ever * compounded, and to its composition all the aforesaid colours are requisite. Eleventh, As whiteness is produced by a copions rellection of rays of all sorts of colours, when there is a due proportion in the mixtare, so, on the contrary, blackness is produced by a suffocation and absorption of the incident light, which being stopped and suppressed in the black body, is not reflected outward, but reflected and refracted within the body till it be cotirely last,"
"The first experiment of Newton for the purpose of investigating the refrangibility of light is thus deseribed by that eminent philosopher: "In a very dark chamber, at ia round hole about one-third of an inch broad made in the slutter of a window, I placed a glass prism, whereby the beans of the sun's light, which come in at the thole, might be refracted upwards, towards the opposite wall of the chamber, and there form a coloured amage of the sun. The axis of the prism, that is a line passing through the middle of thie prism from one end of it to the other gad, parallef to the cdge of the refracting angles was perpondicular to the incident rays. About this axis I-tarned the prism slowly, and saw the refracted light on the wall, or coloured image of the sun, first to descend and then to ascend. Between the descent and asceint, when the image seemed to he stan tionary, I stopped the prism, and fixed. it it that pusture. Then I tet the refracted light fall perpendicularly upon a sheet of white paper, placed at the rpposite wall of the , chamber, and observed the figure and dimensions of the solar inage formed on the paper by that light. The image was oblong and not onal, but terminated by two rectilinear and parallel sides, and two semi-circular ente."

Sir Isaac then proceeds tordescribe mibutely the distance of the imago from the prism, and the arrangement of colours perceived in it, which is exactly the ssume, which takes place in the bow. From the observations which be made on the result of this experia seent, he deduces the priacipal articles of his theory. But not cqutented with proceedl ing thus far, be repeated the experiment, and diversified if with a great variuty of eif-
cumstances, proceeding in every step with the most exact caution, that he might not miss his way in the pursoit of trath, nor be in danger of deceiving otiers.
The analory which has been discovered between the colours exhitited by the prism, and tbose observed in the bow, natorally leads us to make some enquiries concerning that astonishing and beastiful phenomenon. The rainbow is visible only when the spectator hus his bick to the sun, and his face to a cloud from which the ninh is descending It is also fiequently accompanied by an outer bow, which is called the secondary bow. The colours of the primary bow, are vivid, and sueceed each other in the order of the prismatic colours. The colours of the secondary bow are fainter, and succeed cach other in a reverse order. It has been alrendy stajed that light is not to be considered as simple, but consisting of rays that are more gr less refrangible, ${ }^{\text {a }}$, $n$, the difference of colour urises from the difference of the refrangibility of rays. When, thercfore, a ray of light from the sun enters a drop of rain, it becomes refracted by passing into a difficent medium, and is decomposed into its proper colours. When it has arrived at the opposite side of the drop it is reflected, ms bing the angle of the reflection exactly equal to the angle of incidence. On leaving the drop the ray is again refracted, and hecomes by that means more decomposed. Every ray that comes from the drnp to our cye, has thus been twice decomposed by refraction, and once reflected. Every drop is therefore capeble of displaying all the prismatic colvurs, because the ray which entered it is twice decomposed into all its original colours. . These colour-maling rays are seattered in different directions, according as they are more or less refracted. To a spectator, therefore, who is placed in a certain direction, the drop appears red; to another, who viers it from a different station, it is orange, \&e.; butt from such as are situated beyond a certuin limit, all these beautifal colours entirely vanish. The secondary raiabow is formod by rays which ofter having been once refracted on entering the drop, strike against a lower part of it, and the angle of their reflection being equal to the angle of their incideuce, must necessarily be reflected to the upper part of the drop: here these rays are again rellected, and after having undergone a second refraction, reach the eye of the is. 0 : tator. The colours of the secondary bow are fainter than those of the first, becamse, by reason of the transparency of the drop, a large portion of rays are transmitted throngh its second surface whenever they strike againet it, so that but a small partion of rays reach gar eye after one reflection, and a still smaller portion after two reflections. The colours of the secondary ruinbow aro in an inverted oroier, because that the lower the part of the drop is against which the ray strikes when first reflected, the bighier must the part of the drop be agaiust which it strikes, when it is reflected the second time ; so that as the most refracted colour must, in one instance, appear the highest, it must in the other uppear the lowest.
This may be illustrated by experiments ; for if the rays of light fall on the surface of a glass spheré filled with witer, they will be refracted to the other side, and there exhibit a coloured spot of refracted light ; from this part the rays will he rellected to another part of the lower' surfice, and there be refracted a second time into the air, and dilated into all the different coloured rays, so that if a person's cye were placed andor $\cdot$, Yot 1.

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such a globe, he trould observe all the different colours appear in the globe. Let it bo zuspended at such a height that it receives the light in the upper part of it, it, will thou refract'it from the lower into all its different coloured rays, forming thercof a circle of different coloured light on the floor resembling tho rainbon. Let any one place himself in such a position thit the rays of light of different colours may successively fall upon the eye, he will then see all the colours in the giobe which before formed the variegated arch on the floor. This is a case exactly similar to the rainbow; for if thts globe of water was placed in the heavens, it is evident that the coloured image would be seen through it in the same manner as in this experiment. To illustrate the nuture of the second bow, the san beain must be let fall on the lower part of the globe, any one may then sno plainly the coloured spot behind to which it is refracted.

Every one raust have observed certain lumingus circles which ure somectimes seen to surzound the'sun, moon, planets, and fixed stars. They are termed halos or coronas. - Sometimes these circles are white, and sometimes.coloured like the rainbow : sometimes one only is visible, and sometime several concentric coronss make their appearance at the same time. Those which have been seen about Syrias and Jupiter were never more' than three, four, or five degrees in diameter ; but those which surround the sun or moon, have sometimes extended to 30,40 , or even 90 degrees. Their c̈maneter sometimes varies during the time of observation, and the breadth both of the coloured and white circles are very different, viz. of two, four, or soven degrecs. The colours of these coronas are more dilate than those of the rainbow ; and are in a different order according to their size. In those which Newton observed in 1699 , they were in the following order, reckoaing from the inslde. In the innermost were biue, wlite, and red ; in the middle were purple, blue, green, yellow, and pale red; in the outermost, pale blue, and pale red. Mr. Huygens observed red next the sun, and a pale bluo line cut across. Sometames they are red on the laside, and white un the outside. M. Werdiet observed one that was yellow on the ioside, and white on the outside. In France oue was observed in 1683, the middle of which was white: after which followed a border of red, next to it was blue, 'then green, and the outerwost circle was a bright red. These coronas are very frequently to be seen, especially in America, HoHand, and Russia, but they are difificult to be obsorvad, unless the eye be so situated that not the body of the sun, but ouly the neighbouring parts of the heavens ean be seen. Coronas may be produced by placing a lighted candte in the midst of steam in cold weather. Also if a glass window be breathed upon, and the flame of a candle be placed some feet from it, while the spectator is also at the distance of some feet from another part of the windor, the flame will be surrounded with a coloured halo. Also, if a candle be placed behind a gliss receiver, when air is admilted to a certain degrce of density, the vapour with which it is loaded will make a coloured halo round the flame.

A very considerable number of theories have been invented to account for the formation of halos. Des Cartes observed that the halo nezer appears when it rains ; from which he concludes that this phenomenon is accounted for, by the refrection, of ligh.t in the round particles of ice which are then lloating in the atmosphere, Gassendi supposes
that the halo is the same with the rainbow, and that all the difference there is botween them arises from their different situations with respect to the observer. Dechales embraces a nearly similar opinion, atid attributes the paleness of the colours of caronas to the smallness of the drops by which they are formed. Mr. Huygens has recourse to globules of soft soow, rounded by the agitation of the air, and thawed on their outsides by the heat of the sun. M. Marriotte accounts for small coronas by the transmission of light through aqueous vapour, and for those which are of two order of colours, by half thaved pieces of snow, and Sor the larger coronas, by equi-angular prisms of light. Sir Isaic Newton does not appear to thave paid much atteution to the subject of halos, but seems to have considered, the larger and less variable appearançes of this kind as produced accordieg to the common laws of refraction, but that the less and more varied appearances depend upon the same causes with the colours of their plates.

Perhelia, or mock suns, have been seen in different parts of the world, and have not failed to engage the attentign of mankind. They are apparently of the same size with the sun, though not always of the same brightness, nor even of the same shape, and whea a number appear at once there is some difference in both these respects among them. Externally they are tinged with colours like the rainbow, and many have a long fiery tail opposite to the sun, but paler towards the extromities. They sre generally attended with coronas, either coloured or white. A very large white circle parallel to the horizon generally passes through the parhelion; and if it were entire, would pass through the centre of the sun. Sometimes there are ares of smaller circles concentric to this, touching those coloured circles which, surround the sum. They also are tinged with the colours of the rainbow. Seven of these perbelia were observed at one time by Hevelius, at Sedan. They are sometimes visible for fons hours together, and are said, in igerth Araerica, to continue for whole' days. It is even asserted by Mr Wales that, at Hudson's Bay, the sun never rises without some of theso to attend him.

Pliflosophers have taboured with grent nttention to account for these plienomena, but have not hitherto invented any hypothesis that, affords general satisfinction. When a theory is discovered which is sa serviceable as that of Newton in solving a variety of striking phenomena, it is natural to endeavour to profit by it to the utmost, or to use it as a clue tó guide us as far as possible in, the mysteries of nature. We now feel desirous to be aequainted with the causes of thit endless variety of shades and of colours, which render the objects that every where surrounds us, at the same time distioguiohable and pleasing to the eye. Things overlooked ty the rest of mankind are often the most fertile in suggesting bints to those who are labituated to reflection. Thus Sur lsaac, to pursue his researches farther, blow a large babble from a strong mixture of soap and water, and set, himself attentively to consider the different change of colour it underwent, from its enlargement to its dissolution. He generally perceived that the thimer the plate of water was which composed the sides of the bubble, the more it reflected the violet coloured ray; and that in proportion as the sides of the bubble were more thick and dense, the more they 'reflected the red : he. therefore wits induced to believe, that the colours of all bodies proceeded from the thickness and density of the little trans-
parent plates of which they are composed. As it was not easy to measure thic thickness of the bubble which displayed any one prismatic colour, bo placed a glass lens, whose convexity was very small, upoa a plain glass, as it is evident that these usuld only touch at one particalar point, and, therefore, at all other places lectween the adjacent surfaces, a thin plate of air was interposed, whose thickness increased in a certain retio, according to the distance from the place of contact.

He pressed thase glasses slowly togother, by which means the colours very soon emergod, and uppeared distinct to a considerable distance; ,oext, to the pellucid central spet made by the cqatict of the glassos, succeeded blite, green, white, yellow and red. The blue was very fitte in quabtity, nor could ho discern any violet in it ; but the yellow and red weie very copioiis, exteading aboat as far as the white, and four or five times as fir is the bluc. The next circuit immodiately surrounding these consisted, of vialet, Blue, frcen, jellow, and red; all theae were very copious unless the green, which was very little in quantity, and seomed fuinter than the bther colours. The third circle of colours was purpte, blae, green, yellow, anc red ; in this the purple was more reddiah than the violet in the former circuit, and the green was more conspicuous, being as bright and copious as any of the othei colours, except the yellow ; the red was somewhat faded. The fourth circle consiated of green and rel ; the green was copious and lively, inclining on the one side to blue, and the other to ycllow, but there was neither violet, blue, nor yellow ; and the red was imperfoct and dirty. Each outer circuit was more obscure than those within, like the circular waves upon a diaturbed sheet of water, till they at last ended in perfect whiteness.

As the colours were thas found to vary nccording to the different distances of the ghass plates from each other, Sir Isauc judged that they procceded from the different thickness of the plates of uir, intercepted between the glasses; from whence; he conEluded that the colours of nall natural bodies depended on their component particles."

When the glases were held between the eye and the window, the centre was, perfectly transparent ; this spot, therefore, when viesed by reflected light, appeared black, because it transmitted all the rays ; and for the same repson it appeared white, when vioued by transmitted light. In comparing tho rings produced by transmitted light, with those produced by reflected light, fie white was found opposed to the black, the red to the blue, the yellow to the violet, and the green to a colour Composed of red and violet : in other words, the parts of the glass that, when looked at, were white, appeared black of tooking through the glass; and on the contrury, those which appearcd black in the first instance, appeared white in the second, and so of the other colours. When, thercfure, the thickness of the particles of a body is such, that one sort of light, or one sort of colour is reflected, another light, or other colour will be transmitted ; and thercfore the body will appear of the first cofour.

A great proportion of the fainter coloured rays arc stopped in their passoge through the atmosphere, and are thence reflectod upoo other bodies, while the red and orange rays are transmitted to greater distances. This circumstances explains the blon shadows of bodies, the blue colour of the sky, ant thie red colour of the clouds, when the sun is
noar the horizon. At certain times, when the sky is clear and serene, the shadows east from opaque bodies have been observed to be tinged with blue and with green. This circumatance results from the minute particles of the atmosplere reflecting the most refrangible rays, the blue and violet, for instance, which occasions a predominance of these colours. The blue colour of the sixy is accounted for on the same principles ; manely, the copious reflection of the blue rays by the atmosphere, which produces the effect of an arch of that colour, all around us. This is occasionally diversified by the vapour's greater density which reflect the stronger rays.

The coloured clouds in particular, which eppear towards the morning and the evening when the sun is in, or near the harizon, are to be attributed to the same cause. The rays of light traversing an immense extenl of the atmosphece, the fainter rays are detached by the repeated reflections of the atmospheric particles; and the stronger rays, as the red, the orange, \&ce, are permitted to proceed and reach the clouls fiom wlience they are reflected. Agrecable to this theory the sum's light is sometimes so deeply tinctured with the red, that objeets illominated with it frequently appear of a bright orange, or even red. It is otiservable that the clouds do not, in coamuon, assume their brighter dies, till sone time affer the sun be set, and that they pass from yellow to a floming gold colour ; and thence, by degrees, to red, which becomes deeper aud deeper, till at length the disappearance of the sun leaves them of a leaden tue by the reflection of the blue light from the ails. A similar change of coloar is observed on the snony tops of the Alps ; and the same may be seen, though less strongly, on the eastern und western fronts of wbite buildings. What makes the same colours more rich and copious in the clonds is semi-traasparency, joined with the obliquity of their situation.

The least paris of all bodies, though seenmingty voit of transparency when viewed in the gross, will be found, if taken separately, to be in some measure transparent; and the opacity arises from the roultitude of reflection caused by their internal parts. There are between the parts of opaque or coloured boulies, a number of spaces, filled with mediums of different density fiom that of the body; us water between the tinging corpuscles with which any borly is impregnated; air between the aqueous globutes that constitute clouds and mists, \&e. These spases cannot be traversed hy light without refracting or reflecting it in various ways, by which it is prevented from passing on in a straight line, which it would do if the parts nére continuous, without any such interstices between them.

Besides opaque and transparent bodies, there are others which possess the property of appearing taninons in the dark: thece are called plosphori, and were formerly supposed to be very few in number. The ingenious Mr. Wilson having however, lavepted a closet in which he could obtain a degree of dark fur exceeding patural darkness, with Which we are aequainted, has discovered that atmost every boily has a phospithoric quality. Phodirs retain this property only for a certain time aiter they are biken out of the light; so that it is evident they shine by emitting roys which they lad imbibed when exposed to the day tight. -

We have described thus largely the nature, effects, and the properties of light, be$\because$ Vul. 1 .
cause of tho important biencfits of uthich it is the souree. To light we are indebtel for the knowledge of the beaty of nature, which it would be impossible to discover by any other means thao by sight. Not only the existence of light, but the peealiar circunstances in which it exists, and the laws by whict it is governed, display the benevolence of the Creator. The minuteness of its particles prevent us from suffering any if effects from the velocity of its thotion; the hiffoction it experiences when approaching opaque bodies causes thean to be more nbundantly enlightned by its rays; to reffection we are indebted to the viskility of the creation: to reffection, for a greater portion of its influctice, and a longer duraton of the day than we should otherwise enjoy; lastly to the different refrimgititity of the solar rays we owe the amazing variety of colours which beautify and distinguish the ofjecesctiat surroond us.

We must begiu our enquiry into the nuture of tieat, the second great agent in producing the pheaomena of the atmosplere, by explaining the meaning we would affix to the terms beat and fire. Dy fire we mean that cause; whatever it is, by which heat ist produced; and by hent we mean not mercly the sensation which is fett by any antmat that approaches a hot body, but tee operation of fire by which that sensation is produced.

The opinious of the learned, as to the nature of fire, are, by Mr. Nicholson, reduced to two, that of Boyle, and that of Boerhiarve. According to the opinion of Boyle hea: is produced by a vibrating motion of the parts of bodies among each other, whose greater or lesser titenseness occasions the increase or diminution of the temperature : according to Boerharve, fire is a subtle fluid that easily pervades the pores of all bodies, cansing them to be expanded by means of elasticity, or otherwise. The phenomena of heat, says Mr. Nichotson, may be accounted for by either of them, provided certain suppositions be uttuwed to each of thean respectively, but the want of proof, of the truth of such suppositions, renders it very difficult, if thot impossible, to decide whether peat (fire) consists merely in motion, or in some peculiar matter. The word quantity applied to heat vill, therefore, denote either motion or matter, and may be used indifferently without determining which. The chief advantage which the opinion that heat is caused by mere vibration possesses, is its great simplicity. It is highly probable that all heated boilies hive an intestine motion or vibration of their parts ; and it is certain that percussion, friction, and other methods of agtating the minute parts of bodies will likewise increase their temperature. Why then is it demanded should we multiply causes by supposing the existence of an unknown fluid, when the mere vibration of parts, which is known to obtnin, may be applied to explain the ptrenomenu?

To this it has been replied, that the vibration of partsis an effect, for matter will not begin to move of itself; and if it is an effect, we must suppose a cause for it; which, tiough wo shiould not call it a fluid, would be equally unknown, and inexplicable with that whose existence is asserted by those who maintain that fire is a floid. Dr. Crawford asserts that heat is occasioned by a certain fluid, and not by motion, alone, as some eminent writers have imggined: because, First, Those who bave, adopted the bypothesis of motion, could never prove the existence of the motion for which they eontented; and though this should be grauted, the plenomena could not be explained ky it.
secoud If heat depoated upaa motion, it would iastantly pass tlirough an elastic body; but wo ell know that aeat passes through bodies slowly like a floid, Third, If beat depended upron vibration, it ought to be communicated from a given vibration, in proporrion to the quantity of matter, which is faund not to hold true in fact. On the other land, there afe numberless argoments in favour of the opinion that heat proceeds from elrmentary fire. First, Mr. Locke liath observed, that when we perceive a number of qualities always existing together, we gather from thence that there is really some substance which produces these,qualities. Second, The hypothesis of eleacntary fre is simple, and agrecable to the phenoroena. Third, From some experiments mado by Sir Isaac Newton, it appears that hodics acquire heat end cold in vacus, until they bocome of the same temperaturu with the atmoyphere, so that beit (fire) exists in the absence of all other matter, and is therefine a substance by itself.

The opinion that fire is an clement by itself is, however, attended with difficultirs. If fire be supposed a fuid it is impossible to assign any limits to its extent, it must, therefore, pervade every-part of nature, and constitute aa absolute plenum, contrary to the fundumental priaciple of the received systom of natural philosophy. That it must be omnipresent is evident, because there is no place where bodies cannot be heated ; but If this be admitted, why are not all bodies of equal temperature, excepting only the difference arising from specific densities, which render some capable of containing a greater quantity than others? Why doth unt the heat of the tomid zone dliffuse itsolf equally all over the giobe, and reduce the earth to a common temperature? This might require a great length of time, bat wo do not perceive the least advance towards it. Supposing this objoction to be removed, it will bo by no means easy to tell what becomes of the beat, which is communicated at different seazons of the year.

In summer the air, the carth, and the,water are beated to a certaip degrec, and on the sun's'declining southward the air first loses its beat, whither does it go? It does not ascend into the higher regions of the atmosphere, for these are constantly founit colder than the parts below. It does not descend into the earth and water, for these give out the quantity of heat they bave absorbed. It does not go laterally to the soathern regions, tor these are constantly very hot, and ought to impart their heat to those further north, unt to receive it from them. Hov comes it then that the atomosphere soemis perpetually to reecive heat, without being satiated, or if the beat camnot be found going off ether upwards, downwards, or sideways, how are we to acconnt for its disnppearance?

This dinieutty, however, seems to be catirely removed if we consider heat not as occasioned by the mere presence of elementary fire, but as the result of a particular mode of action of that fluid. This motion is not to be considered us a quality inherent in fre, for then would heat be diffused equally through all parts of the universe. We learn, from the experience of every day, that heat is principally distributed by the sum, and that bodies are heated in proportion as his rays fall more or less directly upon them, or continue acting upon the wor a longer or shorter time.

The manner in which the phenomena of heat may be solved, and its nature under-

## METEOROLOGY.

stond, will appear from the following propositions, extricted from a late réspectabl publication, to which we are indebted for many of the best hints this chapter contains.

1. It is in all cases observed, that when light proceeds in a considerable quantity from a point diverging as the radii of a circie from its centre, there a considerable dogree of heat is found to exist, if an opaque body, baving no great reflective power, is brought near that point.
2. This action of light, therefore, may be necounted the ultimate cause of theat, without liaving recourse to any further suppiosition, because nothing else beside this action is evident to our senses.
3. If the point from which the rays are emitted is placed in a transparent medium, such as air or water, that medium, without the presence of an opaque body, will not be heated.
4. Another camse of hrat, therefore, is the resistance of the parts of that body on which the light fills, to the action mentioned in proposition 1. Where this resistance is weak, as in the cases just mentioned, the lieat is cither nothing, or very little.
5. If a body capable of reflecting light very copiously, is brought near the lucid point, it will not be beated.
6. A peaetration of the light, therefore, into the substance of the bedy, and likewise a considernble degree of resistance, on the part of that body, to the action of the light, are the requisites to produce heat.
7. Those bodies ought to conceise the greatest degrees of heat into whose substance the light can best penetrate, i. E. which have the least reflective power, and which most strongly resist its netion; which is evidently the case with black and solid subatances. ,
8. By heat all bodies are expanded in their dimensious every way, and that in proportion to their bulk, and the quantity of heat communicated to them.
9. This expansion takes place not ouly by an addition of sensible heat, but likesise of that which is latent. Of this last we have a remarkable instance in the case of snow mixed with spirit of nitre. The spirit of nitre contains a certain quantity of latent heat, which cannot be separated from it without effecting a chagnge in the spirit itself; so that If deprived of this beat, it would be wo longer spirit of nifre. Besides thif, it contains a quantity of sensible heat, of a great part of csthich it may be deprived, and yet retain its characteristic properties as nitrous acid. When it is poured upon snow the latter is immediately melted by the action of the latent heat in the acid. The snow caunot be melted or converted into water without imbibing a quantity of latent heat, which it reseives immediately from the acid that melts it. But the acid cannot part with the heat without decomposition ; to prevent which, its sensible heat occupies the plece of that which bas entered the snow and liquified it. The mivture then becomes exceedingly eold, and the heat forces into it from all the bodies in the neighbourhood; so that by the time it has recovered that quantity of sensible heat which it has lont, or arrived at the temperature of the atmosphere around it, it will contain a considerabile larger quantity of heat than it originally did, and is therefore obseryed to be expanded in bulk. Ano.
ther instance of this expansive power of heat is the ease of steam, which always oceupies a much larger space than the substanee from which it was produced; and this, whether its temperature be greater or less than the surrounding atunosphere.
10. The difference between latent and sensible lieat, then as far as we can conceive is, that the expansive power of the former is direeted only against the particles of which the borlg is composed ; but that of the latter is directed also against other bodies, Neither doth there seem to be any difference at all between them farther than in quantity. If water, for instance, hath but, a small quantity of heat, its parts are brought near each other, it contracts in bulk, and feels cold. Still, however, some part of the heat is detained among the aqueous particles, which provents the flaid from congealing into a solid mass. But by a continuation of the coptrneting power of the cold, the particles of water are at last brought so near, each other that the internal latent heut is foreed out. By this dischargo a quantity of air is also produced, the wator is congealed, and the ice oecupies a greater space than the water did ; bot then it is full of air bubbles, which are evidently the cause of its expansion, The heat then becomes sensible, or, as it were, lies on the outside of the matter ; and consequently it is easier dissipated into the air, or communicated to other bodies. Another way in which the latent heat may be extricated is by a constant addition of sensible heat. In this case the body is first raised into vapour, which for some time carries off the redundant quantity of heat. But as the quantity of this heat is continually increased, the texture of the vapour itself is at last totally destroyed. It becomes too much expanded to contain the heat, which is, therefore, violently thrown out on all sides into the atmosphere, and the borly is said to burn or be on fire.
11. Hence it follows that those bodics, which liave the least share of latent beat appear to have the greatest quantity of sensible heat; but this is only an appoaraace, for the great quantity they seem to contain is owing, really to their inability to contain it. Thus, if we can suppose a substance capable of transmitting heat through it as fast as it received it ; if such a substance was ses over a fire it would be as hot as the fire itself, and yet the moment it was taken off, it would be perferily cool, on account of its incapacity to detain the beat among the particles of which it was composed.
12. The beat, therefore, in all bodies coasist in a certain violent netion of the elementary fire within them tending from a centre to a circumference, and thus making an effort to separate the particles of the body from each other, end thereby to chango its forto or mode of existence. When this change is eflected, bodies are said to be dissipated in vapour, calcined, vitrified, or burnt according to their different natures.
13. Intlammable bodies are such as are easily raised into vapours, that is the firc easily penetrates theif parts, and combines with them in such quantities that, beenming exceedingly light, they are carried up hy the atmosplere. Every succeeding addition of lieat to the body increases also the quantity of latent heat in the vapour, till at lavt being unable to resist its action, the heat breaks out allat onec, the vapour is converwed into flame, and is totally decomposed.
14. Unintlammable bodies are those which lave their parts more firnly connected, Vol, 1.
$Q$.
or-etherwise disposed in such a manner that the particies of heat cannot casily combino with them, or raise them inta vapour.
15. Heet, therefore, being only a certain mode of action of elementary fire, it follows that the capacity of the body for containing it, is only a certain constitution of the body jtself, or the disposition of its particles, which can allow the clementary fire contaiad in it to exert its expansive power upon them without being disslpated on other bodies Those substances which allow the expansive power of the first 'to operate on their owa particles are said to coatain a great deal of hent, bot thoge which propel it away from themselves upon other bodies, though they feel very hot, yet, philosophically speaking, they contain very little heat.
16. What is called the quantity of lieat, contained in any substance, if we could speak with the strictest propricty, is only the apparent farce of its action, either upon the parts of the body itself, or upon other bodies in its neighbourhood. The expansive force of this elementary fire contained in any body on the part of that body, is the quantity of lateat heat contained in it, and the expansive force of the fire excrted upon Sther bodies which torch or come near it, is the quantity of sensible heat it contains.
1.17. If what we, eall heat consist only in a certain action of that fluid called elementary fire, namely, its expansion or acting from a centre to a circumference, it follows, that if the same fluid act in a manner dieectly opposite to the former, or press upon the pírticles of a body as from a circunference to a centre, it will then produce effects directly opposite to those of heat, i. e. it will then be absolute cold, and produce ell the effects, already attrituited to cold.
17. If heat and cold then are only tivo different modifications of the same fluid, it follows that if a hot body and a cold one are suddenly brought near each other, the heat of the oue ought to draw before it a part, of the cold contained in the other, i. e, the two portions of elementary fire acking in two opposite ways ought, in some "mea-; sure, to operate upon one another, as any two different bodies would when driven against each other. When a hot and a cold bedy, therefore, are brought near each other, that part of the cold body farthost from the hot one, ought to become colder than before, and that part of the hot body farthest from the cold one, ought to become hotter than before.
18. For the same reason, the greatest degree of cold in any body ought to be no obstacle, or at least very litte, to its conceiving heat when put in a proper situation. Cold air, cold facl, \&cc, ought to become as intpnsely heated, and nearly as soon, as that which is hotter.

The two last propositions are of great importance. When the first of them is thorougfly established, it will confirm, beyond a doubt, that cold is a positive, as well as heat, and that each bave a separate and distinct power, of which the action of its antagonist is the only proper limit, i. e, that heat can only limit the power of cold, and vice versa. De Luc's olservations also, mentioned by Dr Cleghorn, affords a pretty strong proof of it ; for if the lower parts of the atmosphere ${ }_{\mathrm{e}}$ are cooled by the passage of the sun's reys at some distance above and it lath been already shewn that they do
not attract the lieat from the lower parts ; it frllows that they must expel part of the cold from the upper regions.

The Gtier proposition, when fully established, will prove that heat and cold are really convertitlo into one another; which indeed seems not improbable, as we see that fires will burn with the greatest fierceness during the time of integse frosts, when the coldest air is adasitted to them, and even in thuse dismal regions of Siberia, when the intense cold of the atomosphere is sufficient to congeal quicksilver, it cannot bo doubted that fires will burn as well as in thjs country ; which coutd not lappen if heat was a fluid, por se, and capable of boing cirried off, or absolutely dinninished in quantity, either in any part of the atmospliere itself, or in, such terrestrial bodies as are used for fucl.

Defore we attempt to ascertain the nature pf the electric fluif, it is necessary to explain some terins made use of by writors on elfetricity.

The foundation of all that is known on thits subject is the difference hetween electric bodies, and such as are not electrie: The former may generally be distinguished by their attracting and repelling light substances, which the otherr cannot be made to do. In whatever way an electrie body is made to discover the power of which it is possessed, it is said to be excited. Condactors are bodies which, though they cannot be excited, can yet, in certain circumstances, convey the electric power from one body to another. Electries are also called non-conductors, becanse they have the power of stopping the communication from one hody to another. When a condueting substance is placed apon an electric, so that any power communjcated to it cannot pass, it is said to be insulated. No body is, however, a perfect conductor, or a perfect electric, but partakes in some measure of the nature of both. If the effects of electricity arc commanicated to any body, it is said to be clectrified; if they are inberent in the body itself, it is said to be excifed. Electricity- is of two kinds, the one called positive, the other' neqative. The most remarkable difference we can perceive betwces the positive and negative electricity is, that they attract each other, though strongly repulsive of themselves, that is, two bodies positively electrified, or negatively electrified, repel each other : but one body positively, electrified will attract another body that is negatively electrified. These two electricities are 'sometimes' called the vitreous and' resinous, as well as the positive and negative electricity.'

The list of substances, by which electric phenomena may be produced, is so very extensive, that it may be justly doubted whether all terrestrial matters, minerals and char'coal only excepted, may not be included in the number. Most, however, of those substances, which exhibit the strongest marks of electricity, are enumerated in the following catalogue :

Eleetric substances. Quality of electricity. Solstances with which the eliectric is rotbed W

| The back of a cat | Positive | Every sobstance hitherto tried |
| :---: | :---: | :---: |
| Smooth glass | Positivo | Every other substrace except the bac |
| Rough glass | Positive | Dry oiled silk, sulphur, or metals |
|  | Neg. | Woollen cloth, quills, wood, paper, sealing sax, |

69

| Tourmalin | Positive | Amber, or air blown upon it * |
| :---: | :---: | :---: |
|  | Neg. |  |
| Hare skin | Positive | Metals, silk, londstone, leather, hand, paper, bakicdwood |
|  | Neg. | Other fine furs |
| Black silt | Positive | Sealing-waz |
|  | Neg. | Hare's, weasel's, and ferret's skins, loadstone, brass, silver, iron, band |
| White silk | Positive | Black silk, metals, black cloth |
|  | Neg. | Paper, hand, hare's, weasel's skin |
| Sealing-wax | Positive | Metals ' |
|  | Neg. | Hare's, weasel's, and ferret's skin, hand, leather, woollen clotb, paper |
| Baked wood |  |  |
|  | Neg. | Flannel. |

Electric substances may bo arranged in four classes, according to the various powers they occasioually exhibit.

1. Those which exhibit a stroog and permanent attractive power, of which the most remarkable is silk.
e. For exlibiting the electric phenomena in a very vigorous, though not durable manner, glass is preferable to all other bodies.
2. Those which exhibit electric appearances for a great length of time, and which cominunicate to conducting bodies the greatest degree of power. Many of these are ealled negative electrics, of which the most remarkable are amber, gualac, rosin, sulphur, \&ce.
3. Those which readily exhibit electric phenomena by heating and cooling of which the most distinguished is tourmalin.

Though silk was discovered to be an electric substance, as carly as 1799, it did not attract much attention till 1759, when Mr. Symmer presented the royal society with as account of certain experiments performed with silk stockings. He had been accustumed to wear two pair of silk stockings; a black didd a white. When theee were put on together no signs of electricity appeared; but in pulling off the hlack ones from the white, he heard a crackling noise, and in the dark, perceived sparks of fire betreen them. To prodsce this and the following appearances in great perfection, it was only necessary to draw his hand several times backward and forward over his leg with the stockings upon it.

When his stockings were separated, and held nt a distance from each other, both of them appeared to be highly cxcited ; the white stocking positively, the black negatively. While they were kept at a distance from each other, both of them appeared inflated to sueb a degree, that they exhibited the entire shape of the, leg. When two black, or two white stockings were held in one hand, they would repel one another with censiderable force, making an angle of 30 degrees. When a white and black stocking were

## METEOROLOGY.

presented to each other, they were mutually attracted, and, if permitted, would rush rogether with surprising violence. As they appronched, the intlation gradually subsided, and the attraction of foreign objects diminished, but their attraction of one another increased; when they netually miet, they became flat, and joined elose tngether like as imany folds of silk. When the experiasent was made with two white stockings in one Land, and two black ones in the other, they were thrown into a strange agitation, owing to the nttraction between those of different coiours, and the repulsion between those of the satne colour.

When these amazing discoveries bad been made with relation to the electricity of silk, the curiosity of several learnod men was epelted, and they resolved to vary their experiments, in order to ascertain more exietly how far this power extended, and what cireumstances were must favourable to the display of its phenomena, Mr. Symmer prosecuted this enquiry with considerable ardour in England, and Cigna, at Turin. They discovered that the nature of electricity depended, in a considerable degree, on the colour and texture of the silk.

Before we inquire particularly into the phenomena exhibited by excited glass, it will be necessary to deseribe, as briefly as possible, an electric machine. The principal parts ofthis are the electric, the moving engine, the rubber, and the prime conductor. Tto electric geaerally used is either a globe or a cylinder of smooth glass. The most converient size for a globe is from nine to twelve inches diameter. It is made with one neck, which is cemented to a strong brass cap, in order to adapt it to a propor frame. Cylinders are made with two necks, they are used to the greatest advantage without any axis; and their common size is from four inches diameter, and eight inches long, to iwelve inehes diameter, and two feet long, which is, perhaps, as large as the workmen can'coaveniently make them. To give motion to the electric, a wheel is usually fixed en one side of the frame of the machine, which is turned by a wigch, and has a grove rovad its circumference. Upon the trass cap of the neek of the glass globe, or one of the necks of the eylinder, a puiley is fixed, whose diameter is about the third or fourth pert of the diameter of the wheel ; then a string or strap is put over the wheel and the priley ; and, by these means, when the winch is turned, the globe or eylinder, makes siree or four revolutions for one revolution of the wheel. The rubber consists of a cushion of red basil skin, stuffed with hair or flapnel, and fastened to a piece of wood well rutnded at the edges. To this is glued a piece of Persian black silk, which nearly goes over one half of the cylinder. The prime conductor is nothing more than an insulated conducting substance, furnished with one or more points at one end, in order to collect the eleetricity immediatcly from the electric. When the conductor is of a moderate size it is generally made of brass, but when it is very large, then, on account of the price of the materials, it is made of pasteboard, and covered with gilt paper. It is generally made cylindrical; but let the form be what it will, it should be made perfectly free from points or sharp edges. Besides the above-mentioned parts of an electric machine, it has a strong frame to support the electric, the rubber, and the whech. The givime conductor is supported by stands, with pillars of gless or baked wood.

Vol. 1

## METEOROLOGY.

Tho promote the accumblation of electricity, certnin coated electrict are used, which are calted jars, or Leyden phials. They are coated on the inside with tin-foil, to the height of aliout taree inches below the cyliadrical part of the glass; and have a wire, mith a round brass knob at its extremity, which passes through the middle of a piece of wood, that is used as a stopper to the bottle. Its lower end is usually coanceted uitis the inside conting, by means of a piece of chain of sleader wire.
t. When a uumber of coated jars are placed in such ap order that they may be all charged at the some time, and discharged in an iastant, they composo an electrical battery. The whole power of electricity, scosmulated in them, may be at once exerted upon the sulstance exposed to the shock, and thus produce surprising effeets.

When the cylinder of a machine which has very, considerable powers, is whiried in contact with the fubber, without bringing any conducting body near the eylinder, or insulating the rubber, a dark stream of fire seemingly issues from the place of contact, and involves the cylinder in a blue flame, mixed with bright sparks, the whule making a very perceptible whizzing and snapping noise. If the finger is brought near the cylinder, the fire will leave it and strike the finger. Apply the prime conductor, and the light will in a great measure vanish, and be perceptible only upon the points presented by it to the cylinder ; but if your finger be now brought near the conductor, you will perceive it struck by a very smart spark. This spark, when the clectricity is not very strong, appears like a straight line of fire ; but if the machine acts very powerfully, it will put oa the appearanes of zigzag lightning, throwing out other sparks at the corners, and striking with such force as to give considerable pain. If, instead of the hand, or any, part of the human body, the knob of a conted phial be held near the conductor, a vast number of sparks will appear between them, first with a loud snapping noise, but gradually diminisaing, until at last it ceases, and pencils of blue flame, intermixed with small sparks, will be thrown out by the phial ; and if the latter be still kept near the conductor, it will in a little time discharge itself, with a sudden flash and crack, aftor which, 'f the phial has not been broke by the discharge, the sparks from the conductor will begin as before, and the same pbenomena be repeated as long as the cylinder is turned, or till the phial breaks. On applying the battery, though the accumulated force of electricity be much greater than in a single phial, the signs of it are much less apparent ; and sparks will pass between the conductor and knob, leading to the battery, by reason of the great evaporation from the latter into the air. But here, if one of the jars discharge itself, all the rest are likewise discharged the same moment, and some of, them generally broken. A thread, or other light body, suspended near the conductor, will be attracted to a considerable distance, and the force of attraction will be greater or less according to the power of the machine. The electricity will be positive, if the rubber be not insulated, and negative if it be so: and by Mr. Nairne's consrivance of laving a conductor connected with the insulated rubber, and another with the cylinder, both kinds of electricity may be had with equal case. Al these phenomena are the more remarkable according to the power of the machine.

Sulphar, gumlac, amber, rosib, baked wood, and other substances of the same class,
are remarkable, not only for the durability of their electric virtue, but for their being ex sited by heat without any friction. This last property was discovered by Mr. Wỉche, who distinguishes it by the name of spontaneous electricity. He meited sulphar in an earthen vessel, which he placed upon conductors, then letting them cool, he poured out the sulphur, and found it strongly electric, but it was not so when it sfood to cool upon electric substances. Ite then melted sulpliur in glass vessels, whereby, they both acquired a strong electricity, whether placed upon clectrics or not; but a stronger in thio former case than in the latter; they acquired a stronger virtue still if the glass vessel was coated with metal. In these cases the glass was always positive, and the sulphur nggative. It was particularly remarkable that the sulphur acquired no electricity till it began to cool and contract, and was the strongest in the greatest state of contraction ; whereas the electricity of the glass was at the same time the weakest; and it was the strongest of all when the sulphur was shaken out before it began to contract, and acequired any negative electricity.
The tourmaline is a Find of silicious earth, found only in Ceylon, Drazil, and Tyrol. That of Ceylon is of a dark brown, or yellowish colour; that of Brazil is blue, green, red, or yeflow ; and that of Tyrol is by reflected light blackish, by refracted light yelTowish, or in thin picces green. The electrical phenomena which tourmaline exhibits in heating and cooling bave been very accurately described by Dr. Priestly. He made use of a very large tourmoline, the property of the late Dr. Heberdeen. The convet side of this stone generally becomes negative, and the other side positive in cooling When it was heated or cooled on an electric substance, the toarmaline and the other substance were generally found to be possessed of contrary elcetricities.

Various theories bave been formed by philosophers to account for the phenomeria of electricity, but none of these have gained so great celebrity as that which bears the name of Dr. Franklin. According to this theory, all the operations of electricity depend on a matter of a kind peculiar to itself, exfremely suabtile and clastic. Between the particles of this fluid there subsists a- very strong repulsion with regard to cach other, and as strong an attraction with regard to all other matter. The pores of all bodies are supposed to be full of this subtile fluid; aud when its oquilibrium is not disturbed, that is, when there is in any body neither more nor less than its natural share, or than that quantity which it is capable oi retaining by its own nttraction, the fluid does not manifest itself to our senses. The action of the rubber upon an electric disturbs this equilibrium, occasioning a deficiency of the fluid in one place, and a redundancy of it ia another. This equilibrium being forcibly disturbed, the mutual repulsion of the particles of the flaid is necessarily exeried to restare it. If tuo hadies be both of them overcharged, the electric atmospheres repel each other, and both the bodies recede from ooe another to places where the fluid is less dense. For as there is supposed to be a mutual attraction betwen all hodies and the electric fluid, such hodies as arc electrificd must go along witb their atmospheres. If both the bodies are exhausted of tificir matural share of this fluid, they are both attracted by the denser floid, existing eitlier in the nt,

## METEOROLOGY.

mospherc, cratiguoas to them, or in other neighbouring hodies; which occasions thern still to recede from one another, as if they were overcharged.

What goined the greatest reputation to Dr. Franklin's theory, is the easy solution it affords of all the phenomena of the Leyden phial. The fluid is supposed to move with the greateat ease in bodies which are conductors, but with the greateat difficuty in eleetnes ; insomuch that glass is absolutely impenetrable to it. It is, moreover, supposed that all electrics, and particularly ghos, on account of the csmalloess of their pores, do at all times contain an exceeding great and equal quantity of this fluid ; so that no tnore can be thrown into any anc part of any electric substances, except the same quantity go put at another, and the gain be axactly equat to the loss.

These things being previously supposed, the phenomena of eharging and discharging a plate of glass admit of an casy solation. In the usual manner of electrifying by a sinooth glass globe, all the elective matter is supplied by the rubber from all the bodies which communicate with it. If it be made to communicate with nothing but one of the eoatings of a plate of glass, while the conductor communicates with the other ; that side of the glass which communicates with the rubber, must necessarily be exhausted, in order to supply the conductor, which must convey the whole of it to the side with which it communicated. By this operation, therefore, the electric fluid becomes ulnost entirely exhausted on one side of the plate, while it is as mucb accumulated on the other ; and the discharge is made by the electric fluid rushing, as soon as opportunity is given it by means of proper conductors, from the side which was overloaded to that which is exhausted.

Agreeably to our proposed plan, we must here remind the reader that there are those who object against this theory, and consider most of the arguments in its defence as taking sometling for granted which is the object of dispute. We are not, however, able to go the length of thio controversy, as it would require more room than it is consistent tith our design to allow.

One of the most remarkable effects of clectricity is the, shock. This is given by dilcharging the Leyden phial, and was first discovered by accident, by Mr. Cunacus, is Holland. Observing that electrified bodies, whee exposed to the common atmosphere, sonn lost their electricity, he imagined that if they were terminated onall sides by original electriss, they night be cepatie of receiving a stronger power, and retaining it for a longer time. Glass being the moat ranvenient electric for this purpose, and water the most conyenient non-electric, they 5 sst: made this experiment with glass botties filled with water, No discovery was, howeyer, made, till Mr. Cunacus happening to hold hia glass vessel in one hand, and endeavouring to disengage it from the conductor with the other, was surprised with a sudden shock in his arons and breast.

The aews of this discovery produce3 very different effects on different philosophers, ss some, who had received a single shock, declared that no consideration should induce them to venture on another: others were resolved to brave the danger, and not suffer it to deterthem from further discoveries, and one of them, in the true spirit of philono-
' phical eathusiasm, wished to die by the electric shock, that his death might furnish an article for the memoir of the academy of science-nt Paris.

Dr, Watson, with some other ingenious gentlecmen, made several experiments, soon after the discovery of the Leyden phial, to ascertain the velocity of the electric fluid. They were not able to discover this with exactness, bot found that if two persons held the wire by which it was conducted, they both fett the shock at the same instaut, though several miles distant from each other.

Certain German electricians have uaed several glohes at a time, and have, by this means, excited such a prodigions force, that, acconding to their own account, blood could be drawn from the finger by means of the electric spark, the skin would harst, and a wound appear as if made with a caustic.

Mr. P. Gordon, a Scots benedictine monk, and professor of philosophy at Erfurd, ivereased the electric sparks to such a degree, that they were felt from a man's head to his feet. so that he could not take them withont falling dowu with giddiness, and small birds were killed by them. This was effected by conveying the electricity with iron wires to the distance of 200 ells foom the place of excitation.

It is scarcely possiblo to compare the phenomena of electricity with those which are displayed by the loadstone, without suspecting that they are produced by causes which are either prrfectly the same, or nearly similar in their kind. If either of these suppostitizos should be prored to be consistent with truth, it may be reasonably expected that such a discovery would give us some important information respecting the electric fluid. The principal phenomena of the loadstone are the following :

1. A magnet, whether natural or artificial, attraets iron, and all substances which contain it in its metallic state. The semi-metal called nickel, and perhaps some others, are attracted by the magnet, thutigh freed from iron as much as possible. The ores of lead, tin, and copper, zinc, bismuth, and cobalt, but especially their ores ; sand, amber, and the asties of animal or vegetabie bodies ; the ruby, the chrysalite, and tourmalio, but especially the eaverald and garnet, are subject to the influence of magnetism. The opot is attracted but weally, and the diagnond, amethyst, topaz, and chaleedony, together with the ssmi-metals antimuny and unsenic, are not attracted at all. How small a quantity of iron will give a substance this property is evident from the following experiment related by Mr. Cavallo. "Having chosm a picee of Turkey stone, which weigh.ed above an dunce, 1 examined it by a very sensible magretic needte, but did not find that it was affected in the least. A piece of stel was then weighed with a pair of scales,

- which would tarn with the tweatieth part of a grain, and one end of it drawn over the stone in varions directions. After this operation, fle steel was agatin weighed, aad found to havo lost no perceptible part of its weight ; yet the Torkey stone, which had acquired only this very small quantity of steel, now affected the magnetic needle very sensibly."

2. If a magnet be suspended by a thread, nicely placed on a pivot, or sot to fio at in a bason of water, it will turn one, and constantly the same side, nearly towards the north pole of the carti, the ollier, of course, turning towards the seuth Hence these parts Yos. ?

C the magnet havo been called its poles, taking the designation of north and south from those parts of the world towards which they turn. This property is called the polarity of the magnet, and when it is in the act of turning itnelf into this position, it is said in traverse. A plane drawa perpeedicular to the horizon through both poles of the magnet, atter it has turned itself, is cated the magortic meridian ; and the angle it makes with the meridian of the places is calfed the declination of the magnetic needle. This is what is called the variation of the compess, and hes occasiuned so much dispute both among navigators and philoxophers. It diffors considerably in different parts of our giobe, and is observed to have a progressive motion tovards the west.
3. Wien the north or the south poies of two maguets are placed near to each other, they repel; but a north and south poie attract çach other.
4. A magaet placed in such a manner ae to he eatircly at liberty, inclines one of its poles to the horizon, and, of course, elevates the other above it. This property is called the inclination or dipping of the magnet, and is most conspicuous in artificial naagnets or needles, which may bo accurately balanced before the magretic virtue is imparted to (them.
5. By proper management any magnet may be made to commonicate its virtue to a piece of steel or iron, which virtue it witt retain for a longer or shorter time, according to circumstances,
That there is an affnity between magnetism and electricity, 'appears in some degree evident from the following circuastances :

1. Electricity is of two kinds, positive and negative, each of which repels its own kind, and attracts the opposite. In magetisat the north and south poles do the same ; each being repulsive of its osn kind of magnetism, and attracting the opposite.
2. In electricity, whenever a body, in its natural state, is brought near an electrified one, it becomes itself electrified and possessed of the opposite electricity, after which an attraction takes place. In like manner, when a piece of iron or steel is brought within the influence of a magnet, it becomes itself possessed of a magnetism contrary to that which the magnet possesses, and is of course attracted.
3. One sort of electricity cannot be produced without the other, neither is it passible to produce one kind of magnetism without the other also.
4. The electric power may be retained by certsin substances, as amber, glass, \&c. but easily pervades otier substances, which are therefore called conductors. Magnetism has a similar conductor in sof iron, for, by means of it, the virtue may be extended farther than can be done without it ; at the same time that the iron itself loses all magnetic power the moment it is separated from the magnet. Hammered iron, east iron, and steel, perform a part analagous to that of electrics ; for the virtue does not easily pervade them, but is retained, and may be communicated by them to unmagnetic pieces, in like manner as the electric virtue may bo communicated to bodies by means of an exsited electric.
5. The clectric virtue exerts itself most powerfully on points which are found to carry

## METEOROLOGY

it off, er receive it in vast quantities. In like manner a magnee will hold a piece of tron more powerfally by a corner, or blunt point, than by a flat surface. On sharp points, indeed, the magnet has but little hold, by reason of the deficiency of surface.
6. As it is possible to superindoce the negative and posikive electricities upon one another ; so in magnetism it is possible to do the same. The differences between eleetricity and magnetism are not less remarkable than the instances in which they agree, The magnetic power affects none of our senses, and most perceptibly at least attracts only iron ; while electricity attracts and repels bodies of every kind indiscriminately. The electric virtue resides ons the surface, but that of the maguet pervades the whole substanse. A magnet loses nothing of its power by commanicating its virtue to other bodies, but electricity always does ; and, lastly, the maguetic virtue is perwanent ; whereas that of electricity, without the greatest carcy is exceedingly perishabie, and capable of being dissipated.

To decide this question concerning the identity of electricity with maguetism, recourso was had to the great machine in Teylor's museum at Haerlem. Needles were made out of watch springs, of three, and even six inches in length, and likewise steel bars, nine inches long, from a quarter to half an inch in breadth, and about the twelfih part of an inch in thickness. When any one of these bars or needles was placed horizontally in the magnetic meridian, whatever way the shock entered it, the end of the bar that stood toward the north acquired the north polarity, or the power of turning toward the north, when freely suspended, and the opposite end acquired the south. If the bar, before it received the shack, had some polarity, and was placed in its poles contrary to the usual direction, then its natural polarity was always, diminished, and often reversed, so that the extremity of it, which, in receiving the shock, looked towards the north, became the north pole, \&c. When the bar or needle was struck, standing perpendicularly, its lowest end became the north pole, in any case, even when the bar had some magnetism before, and was placed with the south pole downwards. All other circumstances being alike, the bars seemed to acqnire an equal degree of magnetic power, whether they were struck whilst standing horizontally in the magnetic mecidian, or perpendicular to the horizon, When a bar or needle was placed in the magnetic equator, whicb ever way the shock entered it, it never gave it any magnetism : but if the shock was given through its width, then the needle aequired a considerable degree of magnetism, and the end of it which iaid towards the west became the north pole, and the other end the south pole. If 5 needle or bar, already magnetic, or a real magnet, were struck in any direction, its power was always diminished. When the shock was so strong, in proportion to the size of the meedle, as to render it hot, then the needle generally acquired no magaetism at all, er very iittle.

By the same machine experiments were made to determine the identity of the electric fluid with fire. As not only combustible sabstances have been fired, but wire melted, metals calcined, and even the calces revitrified by means of electricity, many had been induced to believe that the eleotric fluid and fire act upon bodies in a similar manaes.

Dr. Van Marum caused wires of different metals to be drawn tlirough the same hole, of one-thirtieth part of an inch in diameter, and observed how many inches of each could be melted by the explosion of his battery, taking care, io all these experiments, to charge to the same degree. The results were as follows: of lead be melted 120 inches; of tin 120 inches ; of iron 5 inches ; of gold 3 童 inches; of silver, gold, and copper, not quite a quarter of an inch. These several lengths of wire of the same diameter, melted by equal explosions, indicate, according to our suthor, the degree in which each metal is fusible by the electrical discharge, and if these be compured with the fusibility of the same metals by fire, a very considerable difference will be obscrved. According to the experiments of the academicians of Dijon, to melt tin required a heat of $179^{\circ}$ of Reuunt's thermometers; lead $230^{\circ}$; silver $430^{\circ}$; gold $363^{\circ}$; copper $650^{\circ}$; iron $690^{\circ}$. Thus tiu and lead appear to be-equally fusible by electricity, but not by fire ; and iron, which by fire is less fusible than gold, is much more so by the electric explosion. From these, and other experiments, Dr. Van Marum concludes, that in melting metals, the electrical flaid acts upon them in a manner very different from the action of fire, and that the supposed analogy between these two powerful agents cannot be proved either from the fusion of metals, or of the comtustible substances.
Before we dismiss the subject of electricity, we shall present the reader with a brief: sumimary of the opinions of tiro men of considerable eminence in the literary world. The ingenioos writer in the Encyclopedia Britanaica, to whose observations we are in2 debed for a great part of the materiats of this chapter, dellvers liss sentiments ncarly in the following words: " Electricity is derived into the earth and atmosphere from the sun. The vast quantity of light which continually comes from the sun must, of neccssity, the greater part of it at least, be absorded by tie earth. It is impossible to remain there, ns there is a continual succession of new qualities coming from the sun. It does not, however, appear in its natural state of fire or light, unless when it receives a new motion similar to what it had when procecding from the sun, The solar light never butins but when it is either diverging from a point, or converging towards one, and passes at the same time tiroogt a resisting medium. In situitar circuinstauces, the eitecric fuid is found to burn. It is admitted ibat we can never produce electric fire without, at the same time, producing a violent shoek execedingly different 'from the burning of a conmon fire. The reason assigned for this is, that, we cannot produce a divergence of the: electric fluid without, at the same time, giving it such a direction that is impetus becomes perceptible.*

The following is given by Dr. Gregory, as a recapitulation of what Mr. Brisson considers as fundamental pribciples, confirmed, be says, by his own experiments, seconded by those of other philosopliers.
" The electric. fluid is the same in essence with that of light and beat, but combined with a silbstance which affects the organs of scent,"
"When bodies are electritiva by glass, they firnish tufs or peneils of tight; but if electrified by sulphur or resinious substances, they, only prodece points or sparks of
light; bodies prosented to those electrified by glass, produce only luminous points, while those which are presented to bodies which are electrified by sulphur, produec beautiful pencils or tufts of light."
"To electrify bodies by communication, it is neccssary to insulate them; the substances the most proper for this purpose are those which electrily the best by friction."
" Glass, though it electrifies very well by friction, electrifies also by communication, even without any preliminary preparation, yet it is very proper to insulate."
"Electrical phenomena are not produced entirely from the bodics upon which the electrifying machine acts; the adjacent bodies or substances contribute towards their production."
" The energy of the electric virtue is augmented, in condactors, more by increase of surface than by an nugmentation of the mass."
" Electrified bodies adhere one to another, so that they cannot be separated without a considerable effort, as was exemplified in the case of two silk stockings of various colours."
"Electricity accelerates the evaporation of liquors, and the perspiration of animals."
"The pencils or tafts of light, which are seen at the extremities or angles of electrified bodies, are always composed of divergent rays when they pass in the air ; but if a won-electric or condncting body is presented to them, they lose a great deal of their divergency; their rays sometimes become even convergent, in order that they may approach towards that body which is more permeable than the air ; and if they are made to pass into a vacuum, they will assume the form of a large branch of light nearly cyMindrical, or in the form of a spindle."
" The spark which shines between two bodies is capable of setting combustible matters on fire,"
"The similarity between electricity and lightning, is not merely supposed, but known, as alinost every experiment has been performed by lightning which can be performed by the electric fluid. It is in consequence of this discovery, that long rods of iron have been set up to protect buildings from the danger, of strokes of lightuing."

Having emiployed so much of our time in investigating the nature of the three great agents of the formation of meteors, light, heat, and the electric fluid, it now becomes necessacy to trace their combined operations, and describe the phenomena they produce in the atmosphere. By the atmosphere is underatood that whole mass of fluid which surrounds the earth a considerable distance. When distioguished from the grosser vapours it is denominated air.

Air, thinugh in most cases imperceptible eitber to the sight or to the touch, may be easily proved to be matter, by the following experiments :

Throw a small piece of cork into a cistern of water, and cover it with an empty glass tumbler, licld af the tine in un upright position, with its bottom upwards. The cork atill continues to float on the surface of the water in the inside of the glass, and it will most distinctly show whereabouts that surfice is. It will thus be scen that the water within the glass has its suffice considerably lower than that of the surrounding water,

Vol. I.
T,
and however deep we immergo the plass, we shall find that the water will never rise in the inside of it so asto fill it. There is, thercfore, something already within the glass, which prevents the water from getting into it, manifesting in this manner the most distinguishing property of matter, that of lindering other matter from occupying the same place at the sume time. Taie a smooth cylindrical tube shiut at one end, and fit a plug or cork to its open end, so as to slide along in it, kut so tightly as to prevent all passage by its sides; and if the plug be soaked in giease, we sball find that no force whatever can push it to the bottoni of the tube. Thiere is, therefore, something rithin the tube which prevents, by its impenetrability, the entry of the plug, and therefore possesses this characteristic of matter.
If we endeavour to move a large fan with rapidity, a very sensible motion is perceived, a very sensible forec must be exerted, and 4 very sensiblo wiad is produced, which will agitate the neighbouring bodies. It is, therefore, justly concluded, that this motion is possible only in censequence of haviog driven some obstructing sulistance out of the way, and that this impenetrable, resisting, moveable, impelling substance is matter.

Not only is air material, but a species of matter that has a certain degree of weight. Hence it is that the air always accompanies this globe in its orbit, surrounding it to a eertain distance, under the name of the atmosphere. It is also the gravity of the air shat supports the clouds and vapours which are continually obsorved. To this causo it is also to be ascribed that balloons and soap babbles rise and float in the air, as a prece of cork rises in water, and floats on its surface. Vessels may be exhausted of the air they contained, and then weighed, when they will be found to have lost a portion of their weight equivalent to about an ounce and a-fifth avoirdupois, for every cubic foot of air they contained.

The tendency of our atmosphere towards the centre of the earth is called its gravity, and its operition on the bodies which are exposed to its influence, pressure. Ast the air is a fluid, it exerts this pressure not downwards only, tut in every direction. It is owing to the pressure of the atmosphere, that two surfaces, which accurately fit each other, adhere together with considernble force. 'A large lens or spoculum, ground on ats tool till it becomes very smooth, requires more than any man's strength to separate it directly from the tool. If the surface is only, a square inch, it will require 15 pounds to separare them perpendicularly, though a very moderate force will make them shde along each other. Put this cohesion is not observed, unless the surfacce are wetted or smeared with oil or grease; otherwise the air gots between them, and they separite without any trouble. That this adhesion is owing to the atmospheric pressure, is eviđent from the case with which the plates are soparated from cach other in an exhausted receiver. To the same causo we must ascribe the very strong adhesion of snails, limspets, periwinkles, and other univalve shelfs to the rocks. The animal forms the rim of its shell so as to fit the shape of the rock to which it intends to cling. It then fills its bibell, if not already filled by its own body, with water. In this condition it is evident that we must act with a force equal to 15 pounds for every square inch of touching surface before we can dutach it. But if we expose a snail, adbeing to a stone in the ex-
hausted recelver of an air pump, we shall see it fall of with its own weight. It is owing to the same cause that a full cask will not run by the cock, unless a hole be opened in some other part of the cask. In like manner a tea-pot must have a small bole io its lid to ensure its pouring out the tea.

Another important effect to be ascribed to the gravity of the atmosphere is the rise of water in pumps and syphons, though ascribed, by moat philosophers before Gailico, to a fancied abhorrence of nature to a vacuum, Galileo reasons as follows: The heavy air rests on the water in the cistern, and presses it with its weight. It docs the same with the water in the pipo, and therefore both are on a level: but if the piston, after being in contact with the surface of the water, be drawn up, there is no longer any pressure on the surface of the water within the pipe ; for the air now rests on the piston only; and thus occasions a difficulty in drawing it up. The water in the pipe, therefore, is in the same eituation as if more water were poured into the cistern, that is, as much as would exert the same pressure on its surface as the air does. In this case we are certain that the water will be pressed into the pipe, and will poise up tho water slready in it, and follow it, till it is equally high within and without. As the rise of the water was the effect of the pressure of the atmosphere, he asserted that it would be raised and supported only to a certain height. Let, said he, a very long pipe, shut at one end, be filled with water, and let it be erected perpendicularly, with the close end uppermost, and a stopper at the other end, and then bave its lower orifice immersed in a vessel of water, the water will subside in the pipe, upon removing the stopper, till the remaining was balanced by the pressure of the external air. This experiment was tried, not many years after his death, with water, wine, oil, and several other fluids, but applied to the most useful purpose by the great Toricelli, who, by making use of mercury, became, in fact, the inventor of the barometer.

The doctrine of the gravity and pressure of the atmosphere being thus proved, in the most satisfactory manner, we may draw from it a number of legitimate consequences. In the first place, we are furnished with an exact measure of the pressure of the atmosphere, which is preciscly equal tof the weightg of the column of water, wine, mercury, \&c. it will support. Now it is observed that water is supported at the heigbt of nearly 32 fect: the weight of this column is exactly 2,000 pounds avoirdupois on every square foot of base, or about 14 pounds ob every square inch. A nearly similar conclusion may be drawn from the column of mercury, which is more than 29 inches high, when balanced by the pressure of the air. The globe must, therefore, sustain a pressure equal to the whole weight of a body of mercury of this height, or of a body of water to the height of se feet, and all bodies on the surface of the earth must sustain a part of this in proportion to their surfaçes.

A middle sized man must, therefore, sustain a weight of nir amounting to several thousand pounds. This would be absolutely incredible, were it not for the following coasiderations: First, This pressure is equal on all sides, and effects alike the wholo surface of the body. Second, There is a pressure of air within the body which serves to counterbalance the pressure of the air from without. The air is the element in which
wre hitve always lived, and therefore feel no more inconvenience from it thai fishes are perience from the still greater pressure of the water.

In a few years after the death of Galileo, philosophers became familiar with the weight of the air, and considering it as the vehicle of clouds and vapours, they noted with cure the connection between the weather and the pressure of tha tir, and found that no increase of pressure, was attended with fair weather, and a diminution of it, with rain and wist. Hence the barometer came to be considered not only as a measure of the weight of the air, hut also as indicating, by its variations, chamges of weather.
in In the next place, we may conclude that the pressure of che air will be different in different places, according to their elevation above the surface of the ocean; for if air be a lieavy fluid, it must press in sume proportion to, its perpendicular height. Hence we may derive a method of measuring the heigit of mountains. Having ascertained, with great precision, the elevation corresponding to a falt of one-tenth of an inch of mercury, which is nearly 90 feet, we have ouly to observe the tength of the mercurial column at the top and bottom of the mountain, and to allow 90 feel for every tenth of an inch. This method has been practised with great success, though it requires a knowledge of many other qualities, which we shall now procecd to explain.

That air is if fluid no one will deny, who bas in the least degree considered the phenomena of winds, or contemplated the ease with which we perform every motion, notwithstanding the pressure of the atmosphere on every side. All fluids are elastic and compressible, but the air possesses these qualities more than any other fluid does, which fall under our cognizance. The compressibility of the air may bo easily evinced by our squeezing i bladder that has been filled with it, or more learnedly, by the various experiments performed by the condenser. These bring into view another, and the most interesting property of air, its elasticity. For when we have squcezed tho air in the bladder, Sce, into less room, we find that the force with which we compressed it is necessary to keep it in this hulk, and that if we cease to press it together, it will swell out and regain its natural dimensions. This distinguishes it essentially from such a body as a mass of flour, salt, or such like, which remain in the compressed state to which we reduce them. A ball discharged from a pop-gun derives all its force from the pressure of the air during its expansion from its compressed state.

Various experiments have been miade by the jearned to discover the utmost possible compressibility of air, which have succeeded so far as to exbibit air in a state a thousand times denser than that in which it commonly exists. Hence it appeans that air is cssentially dificerent from wiater, as it can be compressed to so great a degree, and yet retuin fits nature. The limit of the expubsibility of the air is a?so unknown, the utmost exertions of the air pump not being able to produce a perfect vacuum.

Puilosophers have disrovered that the-atmospliere is composed of a considerable variety of elastic flalls, which, though they are usally comprehended ueder the denonnnation of air, differ minny of thein essentially from each other. An elastio tluid, when corisidered as distinet from the atmothere in gencral, is called, liy Freneh chemits, a gas. . We shall here collect, fiom Dr. Gregory's Economy di Nature, a brief account
of the urost important of these, aud the use which they serve in producing the phenotiena of nature.

Those of which we shall here treat are oxygen gas, azotic gas, carbonic gas, hydrogen, nitreous gas, and nepatic gas.

The first of these isas originally termed dephlogisticated air, a name given to it by Dr. Priestiy, frum supposing it free from phlogiston or inflammable matter; "when it was found essential to animal life, rit obtsined the name of pure or vital air ; and when it was found to contribute essential', a ignition, and the other phenomena of fire, it was terned empyreal air ; but the Prench chemists having discovered that it is the substance which imparts the acid character to all the mineral and vegetable acids, have distinguished it by the cance of oxygen gas.

Oxygen, or the base of oxygen gas, is naturally or artificially coinbined with a great variety of substances. From some of these it may be detached by the simple application of heat, since it has a remarkable attraction for the matter of fire, with which, when it unites, it becomes' expanded, and assumes the form of gas, or air.

The substances from which it may be most easily extracted, by means of heat, ape red Iead, catcined aiercury, nitre, and mankarese.

The properties or functions of this flutd are some of the most important is natare; nor, exeept caloric or heat, is there any natural ngent more universal or more active.

1. It is essential to combustion ; nor do we know of any process by which flame can be supported without a supply of oxygen gas, or empyreal air.
2. In certain proportions it is absolutely necessary to sustain animal life ; so that the whole animal creation may be said to depend upon this fluid for their existence.
3. It is what gives the acid character to ull mineral and vegetable salts, the bases of which are found to be entirely insipid till combined with oxygen.
4. The calcination of metals is altogether effected by thoir union with oxygen. Thus, for most of the mineral pigments, ant a very numerous class of miedicines, we are indebied to this useful element.
F 5. It forms a constituent part of that necessary fluid, water, which consists of 85 parts of oxygen, and 15 of hydrogen, or the basis of inflammable air.

Oxygen gas, or air, is more elastic than common air ; it exceeds it also in specific gravity, for the proportion between pure and common air is as 160 to 152 .

If the limits of this work permitted, or if the researches of philosophers had furnished us with sufficient materials, it would be a most pleasing speculation to trace the wisdom of providence in the very ample means which he has provided for supplying us with this necessary fluid. It is evident that immense quantities of it are, by the various processes of combustion, destroyed, .or, to speak more philosophically, condensed, and by its union with inflammable matter, formed into water. This water is again raised into the atritosphere in the form of vapour ; it falls in dew or rain upan the leaves of plants, and the:e, by the genial actioa of the solar rays, a new decomposition aguin takes place, and every branch, every leaf, every blade of grass, is oecopied in the beneficial function of VoL_I

## 76

## MIDTEOROLOGY.

Qegata impregaating the atmpophere wifl) thlt gatutary faid. The quantities ton, which are absorded by the calces of metals, must bo immense ; but by the various processes for the amelting and reituction-of there motals, the ix: gry is again set free, and a fresh supply is produced. Even thie air which is iojures by reppiration, is doubtess agaip, by a variety of modes, the greater parz concedfed from our view, parified, and rentered onec more fit for use, since fixed in air, in a discngiged stute, is, cocuparitively speaking but a rare substance in nature, and since there is reason, to suppose that many of the carbonic bodies may be recruited nleo by its decomposition. Ignonance of pature is proverbially the sole source of atheism ; and who gan contemplate this astonialing revoJution, this cirenlation of leenefits, and nat spyito at the extreme folly of the man who can suppose thesc appointments estallished without intelligence or design?

The azolic gas li catled, by Lavolsier, motete, and, by Dr. Priestly, flogiticated sirIt is aiways found to remuin after 4 quantity of common air has undorgone, the resping tion of animals, the combustion of bodies; or putrefiction ; because, in alt these cases the pure air is absorded or coudcheed. Azotic gas is equally invisible with common air, and sometting more elastic, Various sulstances are productive of this nir; and Mr . Fourcroy has discovered that the air bladders of fashes, and particularly of the carpe: are full of it ; and that it may be collected by breaking them under glass vessels inverted in water. The air, however, which is contained in the bladdors of marine plaits, is found to te considerably purer than atmospliedic air. In speaking of the properties of this fluid, it is proper to remark,

1. That azotic gas affords no sign of acidity, not being capable of turning the blue colours of vegetable rel.
2. It does uot precinitate lime dissolved in water; for if a small quantity of lime water is put into a tube filled with this gas, it will remain clear and limpid; there will be neither lime precipitated, nor chalk formed, which evinees that it is radieally diferent from fixed or cartunio achd alf.
3. Another property of this gas is that of surdenly extinguishing substances on fire, and killing animals whigh are plunged iato it. This may bo proved by introducing an animal, or a burning candle, into a vessel full of tifis gas ; the animal will be suddenly, suffocated, and the candle instantly extinguished.
4. Azotic gas is rendered respirable by vegetables, which in certain circomstances. furnish vital air. This property is prolably owing to their retaining the bydrogen of the water which they absorb, while they part with the oxygen. There is no doubt that azotic gas is really a constituent priaciple of the atmoxphere ; for if seventy-tiree parts of it are mixed with twenty $\rightarrow$ even of purs air, an air will be produced resembling that of the atmosplicre, and respirablo as that is.

Carbonic or fixed air has for its basis tie matter of coal, or, more properiy charcoal.
It may be produced tiy the fermentation of liquors, and the respiration of animals, by the burning of coaliy matter, by the action of acids on calcerious eartus, and by the appplication of heat only from Lime, chalk, and magnesia.

- Th broweries there is always a stratum of fiked air oh the sufface of the fermenting liquor, reaching as hugh as the edge of the vats; And it is owing to the production and efasticity of fixed air, that fermenting liquors, when put into close vensels, aro offea known to hurst them with great violence.
This gas thas beea kown to minors by the mane of ciouk damp. 70 catted from is fatal suffocating effects; and its properties may bo enumerated in fow words. First; It extinguishes flame. Second, It is fital to enimad life. Third, it is heavior than common eir. Fourth, From its acid cluracter it resists putrefiction. Fifib, It renders alkaties, 8 c, mild, Sixth, Water, unter the common picssore of the atmosphore, and at a " low temperature, abiorbs somewhat mose than its bulk of this gas, and in that state constitates a weate acid, rather agrecible to the taste, wherce fixed air is a constituent frinciple in most mineral waters ; indeed the water of springs and rivers is soldom free fomi it. Seventb, It is atso a constitient principle of alt fermented liguork.
t'To that floid, which we term inflummble aic, the Trench chemists have given the name of hydrogen gas, because its basis is the peculiar constituent part of water ; bus What this basia may bic in its nature, whether simple or compound, is at present unknown, lecause it cannot bo separated from the heat or caloric which gives it the acriat form, without fixing it in another substance.
Let water pass drop by drop through the barrel of a gun, whill it remaing rod hot amidnt burning conls; let a crooked tube, placed at the end of this jron, and bent so that it may te passed into a glass vessel fill of upter, inverted in the ppecumatic apparatus. There will then pass into the glass vessel an acriform fluid, which is inflammable air or hydrogen gas:

Thits gas, as wetl as fixed air, wes long known to miners before it was noted thy phiflosophers ; and abtong the colliens, and other workmen of that class, it obtainod the name of the fire damp. It is, however, seldom found pure in mines or coal works, hut is generally combined with sutpburcous matter, or whyt is called hepatic gas, or with carbonic neid nir ; and this admixtore-varies its specific gravity, and in general readers it somes thing heavier than pure inflammable air. The fire damp geacrally forms a whiksh cloud in the upper part of the mine, and appears in sometbing of a globular form; from its levity it wilt not mir with die atmospberic air, unléss some ogitation tikes place, and It is disposed to lodge in any little cavity in the superior part or roof of the mine. When it appears in this form, the miniers generally sot fire to it with a candle, lying at the same time flat on their faces to escape the violence of tha shock. It will not, hawover, talia fire, untess in contact with atmospheric atr, for the obvious reason, that a mixture of oxygen gas is necessary to its inflammation. The danger arises entirely from its inflammalility on the approach of any iguited body, for when the fire damp consists of pure intlammable air, the exptosion is like that of gun powder; but when it it is nuixed with carlonic acid, it burns with a lambent thme; The easiest and safest method, therefore, of clearing the mine from this formidable fluid, is by leading a long pipe through the shaft of the mine to the ash pit of a furnace, whence the inflammable vapour will be constanty attracted to feed the fire.

## 78

## METEOROLOGY.

It is on necount of its lightness that hydrogen gas has beon most frequently employed in filling balloons.

Nitrous air is as invisible and transparent as common air; in its smell it resembles nitrous acid. Though this kind of air extinguishes flame, it may, by certain processes, be brought to such a state, that a candle will burn in it with an enlargod flame, and it then becomes what Dr. Priestly calls dephlogisticated nitrous air. Its supporting flame in this isstance evidently depends on the large quankity of oxygen which enters into its composition.

If all the different species of air, this seems, the most noxious to animal life. Iosects, which can bear azotic and ioflammable air, will die immodiately opon their being immersed in this. Even fishes will not live in water impregnated with it.

Hepatic gas is composed of sulphur and hydrogen in certain proportions. It is very soluble in water, which it converts into a state perfectly resembling that of sulphureous mincral waters. The smell of this air is very unpleasant, and its vapour bas a vory disagrecable effect upon many metallic substances, particularly silver, lear. copper, \&e. destroying their colour, and rendering them almost black. It is extremely pernicious in respiration.

In one hundred parts of atmospheric air there are contained about seventy-two parts of azotic gas to twenty-seven of oxygen, besides one part of earbonic acid gas or fixed air, which is generally found united with them; or, to speak in round numbers, in order to be better understood, we may say that the air of our atmosphere contains rather better than one-foarth of pure or respirable air, and that the remaininy three-fourths. are-unfit for respiration, and equally unfit for combustion, since the same tluid which supports flame is found equaily to contribute to the support of animal life.

Extraordinary as this mixture of fluid ln the atmosphere may appear, it is esaential to our health, and even our existence, and demonstrates no less the wisdom and goodness of providence, than all the, other beneficial appointments. This pure vital: air, says Brison, so wholesome, so necessary in a moderate quantity, like spirituons liquors, or salutary medicines, must be used with precaution, and would be fatal in the exeess. If we were indeed to breathe pure 'or bxygen air, without any mixture or alloy, we should infallibly perish by the unnatural and fatal accumulation of heat in our bodies ; if, again, the whole atmosphere was composed only of vital air, combustion would not proeeed in that gradual and moderate manner which is necessary to the purposes of life and society ; and oven iron, and the metals themgelves, would blaze with a rapidity which would carry destruction through the whole expanse of nature.

The air of our atmosphere is, bowever, not so simple a substance as to be formed only of two ingredients. Besindes the small portion of carbonic gas or fixed air which it contains, equal to one-hundredth part, it is also well. kiown that a large portion of water is usdally lield in the ntmosphere, sometimes in a state of perfect solution, oriontirely invisible, and sometimes visiblo in the form of mists and clouds. The atmosphere in also the general recipient of all those substances which are subject to evaporation, and which preserve their aeriform state under ite ordinary heat and parssure.

In cohsequence of the air being tius domposed of patticles differing in their nature, several important cffects are produced, wlich increase the difficulty of meteorologion researches.

1. The degrees of heat and cold are found to vary with the different elevations of the atmosplicre alowe the level of the ocean. In general it may bo remarked, that the cold we experience is more intense is proportion to the height to which we bave aicended, The tops of mountains are covered with snow, while on their sides, and in all the surfounding coutriry, thature apficare dresed in ther gay liveries of summer, of autumn, or of spring: $\mathrm{On}_{\mathrm{u}}$ the ciatrary, doring the night season, it is frequently colder at the surface than it is at some stuall elevation above it. It is, liowever, to le observed, that the shir geoms to be divided filg various strata, which differ from each other in their degtees of warmth, withuut reganding the exact proportion in which they differ in density, so that in travelling up a mountain, of ascending with an air balloon, we triay pass through warmer up to coldor regions, or vice versa.
1.2. As the air is composed of hetcrogencous particlos, it must bo more or less salubribus, according as the mixture of these particlos is more or less congenial with the hor . onin constitution. Mr. Fontnina, however, ofserves that nature is root 80 parthil as ve * communly believe. Sho has not ouly, suyz be, given us on air almost equally good every where at every titne, but has allowed us à cortain Intitede, of a power of living, and belng th health in qualities of air that dlifer to a certain dogrec. By this I don't mean to deny the exítence of noxious air in some particular places ; but only say, that in gefitrat the air is gond overy where, and that'the sanall differchess are hot to be fented'so mifi as spme people woold make us belicve. Nor do I mean to speak bere of some vagours, and other bodies, which are riccidentally joined to the common air in particular placos, but do not change its nature and intrinsical property. Thise vapours aro to be considered in the same manner as we should consider so bany particles of arseme swiaming in the atmosphere. In shis case it is the arsenic, and not the degererated air, that would kell the faimals that venture $10^{2}$ breathe it.
2. As air is a solvent of ail fluids, all vapours, and perhaps of many solid bodies, it is thighty improbable that the ditterens compounds should have the same elasticity, of even the sande law of claticity; and it' is well koown that air loadod with water, or uther volatile bodics, is much more expansible by heat than pure air ; nay, it would appear that certain determinate changes both of density and temperature, cause air to let go the vapours which it bolds in solation.
The beterogeneous natore of the airi, and the differencelbetween the increase of its gravity and that of its chasticity, bave opposed some formidable obstacles both to the calculating the height of mountains, and the uscertaining the limits to which the atmobphere oxtends. Puilosophers have therefore had recourne to another method for dea termining the alditude of the atmosphere, viz. by calculation of the height from which the Hght of the sun is icfracted, solas to beconte xitible to us before he himself is scem in - Tho heiveps. By this method it was determined, that at the height of 45 milex, the nt$\because$ mobplicere hid no power of refraction ${ }^{2}$ and conseqcotly, beyond that distance, was ar Fol. I.

## METEOROLOGY.

mero vacuum, or the next thing to it, and not to te regarded. This theory soon becamovery geacrally reccived, and the height of the atmosphere was spoken of as familiarly as the beight of a mountain, and reckoned to be as well ascertained, if not more so, thaa the beight of most mountrins are. Very great objoctions, bowever, which have dever yet been removed, arise from the appearance of some meteors, like large gitibes of fire, not unfrequently to he scen it vast herghte above the corth. A very remarkable one of this kind was observel by Mr. Halley, in the month of Narch, 1719 , wnose altitude he computed ta bave been between 69 and is Tinglish miles and a half; its. diameter 8500 yards, or upwards of a mile and a half, and its velocity about- 350 miles in a minute. Others, apparently of the satic kind, but whose altitude and velocity were still greater, have been observed: tóat very, remarkable one, August 18,1789 . whose dissance from the carth could not be less than 90 miles. Several of theso meteors have beon followed by explosions, and hissing noises have been heard as they passed. Dr. Halloy acknowledged that ho was unable to roconcile these circumstances with the received theory of the height of the atmorphere: as in the regions in which they nave, the sin nught to be several hundred thousand times more rare than what we breathe, and the next thing to a perfect yacuum. It appears, therefore, reasonable to conclude, that what is called the density of the air, does not altogetber keep pace with its gravity, and consequently, that the absalute height of the atmosplecre is not yet determined. The beginning and ending of tevilight shew that the beight at which the atmosphere begins to refract the $/$ sun's rays is about 44 or 45 milcs. But this may not improbably be only the height to which the aqueous mpouts are carriod: for it cannot be thipught any uureasoanble supposition that twilight is refracted only by means of the aqueous vapour contained in the atmosphere; and that where this ceases, it is still can pable of supporting the electric fire.
It is not unrensonable to suppose the visilie universe occupied by air, which by its gravitation, will necumulate itself round every bedy in a proportion depending on their quantities of matter, the larger hodies attracting more of it than the smalice onest, and thus forming an atmosphere about each; and appearances warrant the suppiosition. Jupiter, Mars, Saturo and Venus, are evidently surrounded by atmospberes. The constitution of these ntmospheres may differ exceedingly from other causes. If tho planct has nothing on its surface that can be dissolved by the air, or volatilicod by beat, the atmospbere would be clear and transparent, as is said to bo the case with that of the mpon.
As air is a fluid, so it performs motions of different kinils, of which we shall chiefly consider two.
The first of theso is an internal vibration of its particles, or undulation, by which any extonded portinn of nir is distributed into alternate parcels of condensed and rareficd air, which aro continnally changing their condition without changing their places. By Bis chaoge the condensation which is produced in one part of the nit, in gradually transferred along the mines of nir to the greatost distancos in all directions. It is found to be by this mean that distant bodies produce in tus the sensation of sound. When we drop
stinnll pebble into water we seo it produce a series of circular waves, which go along ho surfaco of smooth water to a great distance, becoming more and more gentle as thoy recede from the centre ; and the middle, whero the agitation was first produced, remains perfecty smooth, and the smoothness extends continually, that is, each warc brought to a level remains at rest. Now thesc waves are produced and propagated hy the depression and elevation made at the centre. The elevation tends to diffise itself; and the force with which each particle of tinc water is actuated, is a force acting directly up and down, and is proportional to the elevation and depression of the. particle. This pressure of water operates precisely in, tho same way as the condensation and rarefaction of the air, and therefore will scrve, to give some jist conception of the propagation of sound.
When the air performs its other motion, it is said to blow, and changes its common deomination for that of wind. To comprebend the phenomiena of wind, the reader must ecollect that air is a beavy, clastic, and compressible fluid. Its weight bears some proportion to its density, so that wheo the particles of air are distant 'from each other, it is ficavy, when near cach other, light If the particles of air are farther remoto from each other than those of common air, it is said to be rarcfied; if they are brought ncarer to gech other, it is condensed. In the former case it is lighiter, and in the latter case heafier than the common air. When fluids of unequal specific quantitics are mixed together, the beavior always descend, and the lighter ascend. Were quiclsilver, water, gnd oil, thrown into the same vessel together, the quieksilver would uniformly occupy fo bottom, the whater the middle, and the oif the top. Were water to be thrown into a ssol of oil, it would immediately descend, because it is heavier than oil. Exactly the he thing takes place io the atmosphere. Were a quantity of air, for instance, to be Uenly condensed, at a distance from the surface of the carth, being now hoavior than Ffore, it would descend till it came to nir of its own density ; or were a quantity of air Whe surface'suddenly rarefied, being now lighter than the surrounding air, it would minmediately ascend. If a bladder, fatif filled with air, be exposed to the beat of a fire, the air withio will soon expand, and distend the bladder; if it be now removed to a cold place, it will soon become flaccid as before. This shews that beat rarefies, and that cold condenses, air.
When, therefore, the sun acts very intensely upon any part of our globe, that part of atmosphere which is ncarest the sarfice of the earth is heated, and becomes lighter a the fest of the air, it rises to an elcvation equal to its rarity, and the cold heavy air fushes in from all sides to supply its place. A current of air is now put in motion, and ve courso will be directed from that quarter where it receives the strongest impulse, to that where it experiences the weakest resistance.
Such is the general theory of the wind, the causes of its assuming so many different dircetions will be discused in the next eliapter, when we liave described the obstacles it hos to encounter.
It is extrenely difficule to ascertain tho velocity of the wind. The best method seems so ln by menaring the space passed over by the shadow of a gloud; but this is extremely
fallacious. For as the cloud must resist the current of air that drives it along, and consequently re-act upon it, it must relard the progress of the current, and is not, thicrefore, a just measure of its velocity. To this it must be added, that wo have not sufficient reason to assert that the velocity of a current, at the height of the cloud, is the sanie with the velocity of the current below. A table hins, however, been constructed by Mr. John Smeaton, a celebrated engineer, which being the result of many observations in the erection of wind-mills, we shall here insert, for the information of the reader.


Feet ner ticend. Names.

1,47
4,900 Light airs
6,87 Brecze
7,33
$\begin{array}{ll}14,67 \\ & 0, \\ 20 & \text { Brink gale }\end{array}$
29,34
36,67
44,01
51,34
58,68
6€,01
73,35
88,02
117,36
146,70
Fresh gale
Strong gale
Hard gale
Storm

Hurrienne, turning up trees, overtural Hurrienne, turaing
buildings,
Sce.
"These dreadful convulsions of nature (says Gfegory, speaking of bivricaincs), Dr. Perkins supposes to be cnused by some oceasional obstruction in the usual had natural progress of the equatorial winds. The reason he assigos for this conjecture is, the morco than usunl calm which commonly precedes thegm. In the natuml courge of tho tride winds, the nir rises up in the line, and passes off towards -the poles, and in the nig contracted degrees of the ligher latitudes, takes the coursco of the west trade-winde; thit could their ascent be provented through the whole circle of the zohe, there nof be no more west winds in those latitudes than in any other. Very violent rains, im cold, howerer, tend to check the ascent of air out of this circle, muther causing it to do scend. Great clouds of vapour generate cold and wet, while rain beats down the air ; and as these prevent thie rising of the air out of the line, so they hluder its uisual progress from the tropics on both sides; hrnee the calms which usually precede hurricanes. Calms, in thesc tropical regions, are caused by the ascent of thio air into the higher part of the atmospbere instead of its remnining near the line: the accumulation of air above then becomes heavier, by the cold which it meets in thiose regiotis, and d?
scends into the more nurified regions belor. These heary gales, therefore, will continue to descend till the upper regions are entirely exonerited."

In Mr, Beckford's history of Jamaica, there is a very detviled and striling account of the dreadful burricane which desolated the isfands in the year 1780, but it is too long for insertion as an extract, and in an abridged state the description would lose its force.
"It is in the rainy season, says Mr. Adams, principally in the month of August, that they are assaulted by hurrieance, which destroy at a stroke the labours of many years, and prostrate the most exalted hopes of the planter, and that, often, when lie thinks himself out of the reach of fortune. It is a sudden and violent storm of wind, rain, thunder, and lightning, attended with a furions swelling of the seas, and sometimes with an earthquake ; in shors, with every circumstance which the elements cau assemble, that is terrible and destructive. First, they see, as a prelude to the ensuing havoc, whole fields of sugar canes whisled into the air, and seattered over the face of the country. The strongest trees of the forest are torn up by the roots, and driven about iike stubble; their wind-mills are swept away in a moment; their works, the fixtures, the ponderous enppor-boilers, and stills of several hundred weight, are wrenched from the ground and

- battered to pieces ; their houses are no protection; their roofs are torn off at one blast, whilst the rain, which in an hour rises fise feet, rushes in upon them with irresistible violence."

Among the terrific phenomena exhibited in the atmosphere may be numbered whirlwinds and waterspouts, which we have thuś classed together, because they are considered by Dr. Franklin as the same, only one takes place at sea, the other on land. A waterspput is thus described by Mr. Joseph Harris, who had an opportamity of observing one May 21st, 1739 , about $9^{\circ}$ eastlon. from Cape Tlorida. "When first we saw the spoit, says he, it was whole and entire, and much of the shape and proportion of a speaking trumpet; the small end being downwards, and reaching to the sea, and the big end terminated in a black thiek cloud. The spout itself was very black, and the more so the higher up. It seemed to be exactly perpendicular to the horizon, and its sides perfectly smooth without the least ruggedness. Where it fell the spray of the sea rose to a considerable height, which made somewhat the appearance of a great smoke. From the first time we saw it, it continued wbole about a minute, and till it wis quite dissipated, about three miautes. It began to waste from below, and so grulually up, while the upper part remainef entire, without any vistble alteration, tilf at last it ended in the black cloud above ; upon which there socued to fill a heavy ruin in that neighbourhood. There was but littlo wind, and the sky elsewhere was pretty serene."

Whirlwinds are of several kinds. Sosme have a slow motion, and are injurious only by their vortex; while others seem to do mischief as well by their progressive, as by their whirling motion. 'Of this kind are those called typhons, which freqnently follow the course of fivers. Of the destructive effects of these we bave an instance in what hap-

- pencd at Charlestown, in South Carolina, on the first of June, 170). It was first observed about noon, on land, upwards of 50 miles west by north of Charlestown, and destroyed several houses, \&s. as it passed along in many places making wido avenues. Vol. I.
through the woods ; from whence every tree and shrub was form 1 p , and great branches of trees were driven about in the column as it passiod aloug. It direeted its course to Asbley river, down which it came with surprising velocity; in its appearance resembling a column of smoke or vapour, whose motion was very ircgular and tumultuous. Its motmentum wis so great, that Ashley river was ploughed to the botiom, and the chanaed laid bure. As it came down this river it mude a constant noise like thunder, its diameter being compnted at 300 fathoms. It was met at Whide Point by another of the same kind, that came down Cooper's river, but with inferior streagth; however, on their meeting together, the agitation of the air was mush greater; while the clouds, which were driving in all directions to that place, seetned to be precipituted, and whirled round with incredible velocity. It then fell upon the shipping in the rond, entircly dentroying some, and damaging others. It was scarcely three minutes in passing two leagues, ind doing damage to the amount of 90,0092 and had not its direction been altered by; that gust which came down Cooper's river, it unast have totally destroyed Charlestown, as nothing could resist its fory.

Dr. Franklin, in proceeding to explain his conceptions, begs to be allowed two or. three positions as a foundation for his hypothesis.

1. That the lower region of the air is often more leated, and so more rarificd than the upper, and by consequence lighter.
2. That heated air may be very moist, and yet the moisture so equally diffused and rarified, as not to be visible till colder air mikes with it; at which time it condenses and becomes visible. Thus our breath, athough invisible in summer, becomes visible in winter. These circumstances being granted, be pre-supposes a tract of land or sge, about 60 miles in extent, neither sheltered from the sun, nor refreshed by the wind, during a summer's day, or perhaps for several days, without intermission, till it becomes violently heated, together with the lower regions of the air in contact with it; so that the later becomes specifically lighter than the superincumbent higher regions of the atmosphere, wherein the clouds usually float be supposes ato that the afr surrounding this tract has not been $s 0$ much heated during those days, and therefore remains heavier. The consequence of this, he conceives, would be, that the heated lighter air would ascend, and the heavier desceud, and as this rising cannot operate throughout the whole tract at once, because that world leave too extensise a vacuum, the rising will begin precisely in that column that happens to be lightest or more rarefied; and the warmair will flow horizontally from all parts of this colum, where the several columns meeting, and joining to rise, a whirl is naturally formed, in the ssune mamer is a whirl is formed in a tub of water, by the descending tluid receding from all sides of the tub towards the bole in the centre.

And as the several currents arrive at this central rising column with a cousiderable degree of horizontal motion, they cannot suddenly change it to a vertical motion; therefore, as they gradually, in appromeling the whirl, decline from right to curvo. or cireular Iines, so having joined the whirl, they ascend by a spiral motion: in the same manner, as the water descends spirally through the hole in the tub above-mentioned. Laktly,

As the lower air nearest the surface is more rarified by the heat of the sun, it is more impressed lyy the current of the surrounding cold and heavy air. which is to assume its place, and consequently its motion towards the whinl is swiftest, and so the force of the lower part of the whirl strongest, and the centrifugal torct of its partieles greares. Hence the vacsum which incloses the axis of the whirl should be greatest ncar thet earth or sea, and diminish gradually as it approaches the region of thio cluuds, till it ends in a point.

Thiscircle is of various diameters, sometimes very lirge. If the vacuum passes over water, the water may rise in a boriy, or colomn therein, to the height of 33 feet. The whirl of air may be as invisible as the air ftself, though reaching in reality from the water to the region of cool air, in which our low summer thunder clouds commonly float; but it will soon become vishle at its extrenities. The agitufion of the water under the whirling of the circle, and the swelling and vising of the water in the commencoment of the vacuum, render it visible below. It is perceived above by the warm air brought up to the cooler region, where its moisture begins to be coadensed by the cold into a thick vapour, and is then first discovered at the highest part, which being now cooled, con-

- denses what rises behind it, and this latter acts in the same mammer on the succeeding body; where, by tho coutact of the vapours, tho cold operates faster in a right,line downwards than the vapours themselves can climb in a spiral line upwards; they climb, however, aind, as by contintial addition, they grow denser, and, by consequence, increase their centritugat force, and being risen atiove the coacentriting currents that compoes the whirl, they fly off and form a cloud. It seerus easy to conceive how, by this successive coudensation from above, the spout appears to drop or descend from the cloud, although the materinls of whicir it is composed are all the while ascending. The condensation of the moi-ture contained in so great a guantity of warm dir as many bo supposed to rise, in a phort time, in this prodigiously rapid ishirl, is perhaps sufficient to form a great extent of cloud, and the friction of the whirling air on the sides of the column may detach great quantities of its water, disperse them into drops, and carry them up in the spiral whirl, mixed with the air. The heavier drops may, indeed, fly off, and fall in a shower about the spout; but much of it will be broken into vapour, and yet remain visitid. As the whirt weaticus, the tube may appareatly separate ing the middle; the columin of water subsiding and the superior condensed part drawing up to the clond. The tube or whirl of air may nevertheless remain eatire, the middle only becoming invisible, as not contaming any vivible matter.

This bypothesis has, however, mot with some opposition, certain philosophers having attributed all the phenomena to elecrricity, and Dr. Liadsay, in purticular, having warmily conterided that water-spouts do not ascend; but descend from the clouds.

Evaporation, whetier natural or ar uficial, is to be considered as rhe effect of heat ; but there is nevertheless an importent difiference between this process as carried on by nature, or cffected by art. Vapour his been explainêd, by the greatest plilosophers, as a compound of rater and fire. It is a well known law, which takes place in ull fluids, that $\&$ body which is heasier than a Aluid will sink in it, and that which is lighter will cive
to its surface. As water, therefore, is heavier than air, it must, when left to itself, descend in it, but when compounded with a quantity of fire which is more than sufficient to counterbalance the weight of the water, it then becomes lighter than that region of the ntmosphere which surrounds it, consequently ascends till it enters another region ns light or lighter than itself. Every particle of vapour which is thus formed, is a drop of water formed in a hollow splere, and filled with a certain portion of fire or beated air, so that it ascends on just the same principle as an air balloon. Artificial evaporation cannot take place without a considerable degree of heat, but naturnl evaporation is performed in almost any degree of cold with which we are acquainted.

Various are the changes that water undergees after being reduced to the state of vapour. The first of these is its assuming the form of smoke or fog, when mixed with the common atmosphere; which smoke, when examined by a microscope, appears to be composed of a vast number of sphericles of water, hollow, and filled with a fluid specifically lighter than air, by which means they ascend in it. As long as the aqueous vapour retains this visible form, it retains also its lumidity, and will again become a liquid, or wet whatever comes in its way; and this the more readily, while it retains any sensible degree of heat. As the vapour cools in the atmosphere it gradually assumes * an gerial state, mixing itself with the air so as to be no longer distinguisbable from it. In this state the air itself does not by any means appear to become more moist, but continually drier the more water it receives. This, however paradosical it may seem, is a certain fact; for in summer, though we are assured that evaporation goes on very rapidly from the surface both of sea and land, yet the air, so far frou being moist, is much drier than at any other time; and yet we know that the whole quantity evaporated is somehow or other received by the atmosphere. Here, thercfore, we are called on by the voicge of uature to acknowledge the bencficence and wisdom of our Creator; for had he not regulated the natural evaporation by a lak seemingly inexplicable, we should never enjoy the brightness of a summer's day.

After the water has attained this uerial state, our enquiries concerning it must, in a great measurc, stop. We know not whether it has the form of small hollow sphericles, or really becomes part of the atmosphere itself, and assumes the form of what we calt depilogisticated air.

Clouds are formed from the aqueous vapours which before were so closely anited with the atmosphere as to be invisible. The general cause of the formation of clouds is a separation of the latent heat from the water whereof the vapour is composed: but that cold alone cannot, in all cases, cause the condensation of the atmospherical vapours, the screnity of the ntmosphere, in the most severe parts, abundantly proves, Since electricity has been admitted to be a very powerful agent in all the great operations of nature, it has been assigned as the cause of the formation of all clouds, whether of thunder, rain, hail, or snow. Whether this opinion be well'founded, may adrnit of some doubt; but that clouds contain large quantities of electrical fluid, is proved by many experiments. We have on record different accounts of dreadful effects produced by the electricity of clouds, but the following story will suffice to enable the reader to

## METEOROLOGY.

form some conception of their irresistible force: It is related by . Nr. Brydonc, in his tour through Malta. On the 29th of October, 1757, about thrce quauters of in bour after midnight, there was seen to the south-west of the city of Malta, a great black cloud, which, as it approached, changed its colour, till at last it became like a flame of fire, mixed with black smoke. A dreadful noise was heard on its approsch, which alarmed the whole city. It passed over the port, and camo first on an English ship, which in an instant was tern in pleces, and nothing left but the hulk; part of the inasts, sails, and cordage, were carried to a considerable distance along with the cloud. The small boats sild feltuecus that fell in its way, were all broken in pleces and sunk. The noise in creased and became more frightfol. .A centinel, terrified at its approach, ran into lis hox, hut- Both he and it were llfed up and carried into the sca, wbere he perished. It then traversed a considerable part of the city, and laid in ruins almost every thing that stond in its way. Several houses were laid level with the ground, and it did not leavo one steeplo in its passige. The bells of one of thom, sogether with the spires, were carried to a considerible distanee; the roofs of the churches demolished and beat down, \&c. It went off at the north-east point of the city, and demolishing the light-house, is Said to have mounted up into the air with a frightifl noise, and passed over the sea tó Sicily, where it tore up some trees, and did other damage ; but nothing considemble, as its fury had been niostly spent at Malta. The number of killed and wounded amounted to near 200 ; and the loss of shipping, ke. was very considerable.
The tietght of clouds is not uscalty great; those which are most highly electrified being often not above seven or eight hundred yards above the ground ; but the generality of eloads are suspended at thic height of a nilc, or a litule more, above the earth. The motions of the clouds, though sometimes directed by the wind, are not always so; especially when thunder is about to ensue. In this case they scem to move very slowly, and ofton to bo absolutely stationary for surne time. The reason of this, most probably, is, that they are impelled by two opposite streams of air, nearly of equal strength, by which tieans their velocity is "greatly retarded. In some cases the motions of the clouds evidently depend on their electricity, jindependent of any current of air whatever. Thius, in a calm warm day, we often sec fimill clouds meeting each other in opposite directions, and setting out from such sbort distances, that we cannot suppose any opposite winds to be the cause, These clouds, when they meet, instead of forming a larger one, become much less, and sometimes vonish altogether, a circumstance undoubtedly owing to the discharge of opposite clectricities into cach oftien. The, shapes of the clouds are, likewise, owing to their electricity; for in thote beasons in which great commetions have been excited in the atmospherical electricity, we shall perceive the clouds assunning strange and whimsical shapes, which vary almost every moment. This, as well as the meeting of smafl elouds in the air, and vanishing upon contact, is an almost infallible sign of thander. Dew is a dense woist vapour, found on the earth in spring and summer mornings, is form of a ruisling rain, being collected there chiefly while the sun is below the borizon.

- Whether it is formed from the vapours ascending from the earth during the night time, Vol. I.


## METEOROLOGY:

or from the doscent of sunk as have been already raisod during the day; is a dispute not yet thoroughly decided.
30. Littles satisfaction can be obtained in attempting to discover the production of raip... 14 It is universally agreed that rain is produced by the water previously absorbed by the sun into the atmosphere ; bot very great difficulties occur when we begin to explaia why the water, once so closely united with the atmosphere, begins to separate from it. We cannot ascribe this separation to cold, since rain often takes place in very warm weather; and though we should suppose the condensation owing to the superior cold of the higher regions, get there is a romarkable fact than will not allow us to have recotirsn to this supposition. It is certain the drops of water increase in size as they descend. The production of min is now generally raferred to electricity, but how electricity oper rates in this case, is not very satisfactorily explained. Rain is produced by a moderate electricity ; bail and snow, by one more violent; and thunder, by the most violent of all.
(The author of the article rain, in the Encyclopedia Britanuica, supposes generally a difference between the electricity of the carth, and that of the atmosphere. "As," says he, "the artion of the solar light continues to bring down the electric matter, and the earth continues to discharge an equal quantity of it into the atmosphere, some part of the atmosphere must at last be overloaded with it, and attempt to throw it back into the earth. This attempt will be vain, until a vent be found for the electricity at some othor place; iand as soon as this happens, the olectrified atmosphere begins to throw off its superfluous electricity, and the earth to reccive it. As the atmosphere itself is a bad conductor, and the more so the drier it is, the electric matter attacks the small aqueous particles that are detained is it by means of the latent beat. These being unable to bear the impetus of the fluid, throw out their latent heat, which casily escapes, and thus make n kind of vacuum in the electrlfied part of the atmosphere. The consequences of this are, that the aqueous particles being driven together in large quantities, at last becomo visible, and the sky is covered with clouds; at the same time a wind blows against theseclouds, and, if there is no resistance in the atmosphere, will drive then away. But if the atmnsphere, all round the cloads, is exceedingly eloctrified, and the earth is in no condition to receive the superfuous fluid, excepting in that place which is directly under the cloud, then the whole electricity of the atmospbere, for a vast way round, will tend to that part only, and tho cloud will be electrified to an extreme degreep A wind will now blow against the gloud from all quarters, more and more of the vapout will be extricated from the air by the electric matter, and the cloud will become darkers and thicker, at the same time that it is in a manner stationary, as being acted upon by opposite winds, though its size is enlarged with great rapidity, by the continual supply of vapour brought up by the winds. The vapours which were formerly suspended invisibly by the intent hent, are now suspended visibly by the electric fluid, which will not let thom fall to the earth until it is in a condition to receive the electric matter descending with the rain. It is easy to see, however, that thus every thiug is prepared for a

[^1]violent stornin of thander and lightiting, as well as raini a The sưffuce of the carth becomes electrified from the atmosplere; but when this has continued for/some timee; a zonc of earth, considerably below the suiface, aequires an electricity opposite to that of the elouds and attrosphicre ; of consequence, the electricity, ou being violently pressed on all sides, will at last burst out towards that zone where the resistance is teast. The vapours now having lost that which supported them, will fall down in, rain, if there-if not a sufficient 'quantity of elcetrieal matter to keep them in the same state in which thiey were before: but if this happens to be the case, the eloud will instantly be charged agaio, while little or no rain " will fall ; and fenice, very violent thunder storms, take place without any rain at all, of such as is ruite incousiderable in quantity. When the electriety is less violent, the ruirr will deseend in vast quaritity especinlly after every flash of lighrning; and great quainitities of clectric matter will thus be convejed to the earth, insounuch that sometinies the drops have been observed to shine as if they were on fire, which has given occasion to the report of fiery rain having fallen on certain occasions. If the quantity of electrio matter is smaller, so that the rain can coblvey it all gradually to the ground, thicere will be rain 'without any thùnder; and the greater the quantity of electricity, the more violent will be the rain."
We-siall now attempt to trace the effects which are produced by the agency of cold. Here it will be necestary, in the first place, to recollect that heat exists in two very different modes, in one of whicir it is latent, in the other perceived. We cannot discover, even with the assistance of the thermometer, the exact quantity of heat which e tody contains, but only that which it enits. If heat flow from any part of our body, to any, substance actually in contact with it, the sensation of cold is excited, and we call the substarice cold ; bot if it flow from any substance into our bndy, the sensation of heat is exeited, and we call that substance hot, without regard to the absolute quantity of lieat contained in either case.
Of all knowi substinces, the atnosphere either absorbs or throws out heat with the greatest facility; in one or other of the ways it always acts upon the surface of the earth, and such bodies as are placed on ar near it, for these, properly speaking, have no temperature of their owin, but are entirely regulated by that of the atmosphere.
When the air bas been for some time absorbing the heat from terrestrial bodies, \& frost must be tie undoubted consequence, for the same reason that water freezes in a vessel put in a freezing mixture ; and were this absorption to continue for a length of time, the wbolo earth woold be converted into a frozen mass. There are, however, certain powers in nature by whicli this effect is always prevented; and the most violent frost we can imagine most always, as it were, defeat its own parpose, and end in a thaw: To uniderstand this subject, we must observe that the water, after having been raised Ioto vapour, combines so effectually with the air as to lose both humidity and visiblitys. In this case the air and water are said to be in a state of union.
When ssch an union takes place either in winter or in summer, we observe the atmospliefe also inclined to absorb beat, and consequently to frost/. Thus, in clear and settled, weather, even in summer, though the day be excessively hot, by reason of the
long continued sun-strine, yet the mornings and evenings are remarkably cold, and sometimes even disagreeably so. The air being, thercfore, always ready in the time of frost, or in clear weather, to absorb beat from every subsance which comes into contact with it, it follows that it mast also ahsorb part of that which belongs to the vapours contained in it. Though vapour is capable of becoming much colder than water without being frozen, yet it must, by a continued absorption, at last part with its latent beat, i. e. that which constitutes its vapour ; and without whicb, it is'no longer vapour, bat water or ice. No sooner, therefore, does the frost arrive at a certain pitch, than the vapours every where dispersed through the air give out their latertc heat ; the atmosphere then becomes clooded; the fiost either totally goes off, or becomes milder by renson of the great guantity of heat discharged into the air; and the vappors descend in raip, bail; or snow, according to the particular disposition of the atmosphere at the time. Even in tiee polar regions, where it may be thought that the frost must increase beyond measure, there are also natural means to prevent its running to extremes. The principal cause here, is the misture of a great quantity of vapours from the more temperate regions with the air in those dreary climates.

It is well known that aqueous vapours always fly from a warm to a cold place; fot this rensoc, the repours raised by the sun in the more temperate regions of the earth. must continualiy trnvel northward and southward in great quantities. Thus they furnish materjals for those jimmense quaptities of snow and ice that are to be found in th.o neigbtourhood of the poles, and which we chanot imagine the weak infuence of the sua in those parts capabie of raising - It is impossible that a quantity of vapour can be mixed with frosty air, without communicating a great deal of heat to is, and there are often thaws of considerable duration even in those climates where, from the littie influence of the sun, we should suppose the frosts woold be perpetual. We may now accoumt, with some probability, fos the uncertain duration of frosts. In this country they are seldom of a long coatinuance; becalise the vapours raised from the sea, with which our isiand is surrounded, perpetaally mix with the air over the island, and proveut a long durntion of the frost. For the same mason frosts are never of so long duration in the maritine places on the continent, as the inland ones. There in ' nothing, however, more uncertain than the motion of the vapours with which the air is continually filled, and therefore it is impossible to progrosticate the duration of the frost, with any degree of certainty. In general we may be certain, that if a quantity of vapour is accuzulated in any place, no intense frost can subsist in that place sor any length of time; and by whatever causes the vapours are driven from place to place, by the same causes the frosts are regulated throughout the world,
Hoar frost is a cold moist wapour, which is drawn up a little way into the nir, and in the nigbt falls again upon the earlt, where it is congealed into icy crystals of various Ggures. In other words, hoar frost is, only dew frozen.

Hail is supposed by Dr. Franklin, to be formed in the higher regions of, air, where the cold is intense, and where the electrio matter is very copious. In these circuan stances, a great number of particles of water are brought near together, where they are
frozen, and in their descent collect other particles; iso that the density of the substanee of the hailstone grows less and less from the centre, this bemg formed first in the lighor regions, and the surface being collecteit in the lower. Agrecably to this, it is observed, that on high mountains, hail-stones, as well is drops of rain, are very small, there being but a smatl space through which they can fall.

Snow differs froin hail and hoar frost, in being, as it were, crystalized, which they are not. This appears, on examining a flake of snow by a magnifying glass, when the wholo: will appear to be composed of tine shining darts, diverging like rays from a centre. As the fatees fall down torough the atmosphere, they are continually joined by more of the radiated darts, and thus increased in bylk like the drops of ruin or hailstones.

Dr. Grew, in a discourse on the bature af snow, observes, that many parts thereot are of a regular figure, for the moat part stars of six points, and are as porfect and trarispreat ice as any we see on a pond. Upon each of these points ure other collatera? points, set at the same angles as the main points themselves; among which there are di vers other irregular, which are chielly broken points, and fragments of thie reguular ones. Others also, by various winds, seemed to have been thawed and frozen again into irregular clusters; so that it seetus as if the whole body of snow were a mass of icicles irregilarly fyuroch. That is, a cloud of vapour being gathered into drops, the said drops forthwith descend; upon which descent, meeting the freezing air as they pass through a colder region, each drop is immediately frozen into an iciele, shonting itself forth into secrul points ; but these stil continding their descent, and meeting with some intertuitting gales of warmer air, or in their continual waftage to and fro, toucling upon each other, some of them are a litte thawed, blanted, and again frozen into clusters, or entangled so as to fall down in what we call fakes. The lightness of snow, shthougb it is firm ice, is owing to the excess of its surface, it comparison to the matter contained under it, as gold itself may be extended in surface till it will ride upon the least breath of air. The whiteness of snow is owing to the small particles into which it is divided; for ice, when pounded, will become équally as, whito. We are not to consider snow riewty ats a cultoas and beautfut plicnomenon. Thic Great Dispenser of universat bounty hath 20 ordered it that it is eminently subservient, as well as all the works of ereation, to his bevevolent desigus. Were we to jutige from appearances only, we inight imagine that, so fir-from bing useful to the carth, the cold hamidity of snow would be detrimental to vegetation: but the experience of all ages asserts the contrary. Snow fruc tifies the carth, and guirds the corn, or other vegetables, from the intenser cold of the air, and cancecially from the cold piercing winds.

That there is so grat a resemblance between lightning and those phenomena whica * are displayed by defited efectrics, as to indicate that they proceed from a similar canse, a fluid every where diffused throaghout the regions of space, tins been nlready proved; it remains, towever, to apply this theory to the various appearances which the lightning asunacs, and the various effeets it is known to prodace. In a screne sky the ligtitning in this country, of least alnost always, hath a kind of indistinct appearnoce, without sny determiaste form, like the sudden illumination'occasioped ty firing' a quantigy of fopso
gumpowder; but when accompanied with thunder it is woll isfined, rand bath very oftin szigzag forin. Somelines it makes only one aingle tihe the leiter V, sometimes is liath several branches, and sometimes it appears like the areh of a circle. But the unost formidable and dentructive form that lightning is ever kanown to assume is that of balls of fire. The motion of these is very often perceptible to the eye; but wherever they fall much mischief is occasioned by their burstiog, which they do with a sudrlen explosion like that of firearms. The next th this in its destructive effects is the rigrag kind, for that elich appears like indistinet flashes is seldom or never known to do lurt. The colour of the lightning also indicates, in some meavare, its powen to do nischief; the palest and brightest flashes being most destructive; sych as are red, or of a darker colour, commonly doing less damagc.
The differom forms of the flashes are exemplifici in thase of ciectric sparks. Whicre the quantity of ulectricity is sinall, and consequently incapable of striking at ung considerable distance, the spark appears straight, without any curvature or angalar appearance: but where the electricity is very strong and of consequence capable of striking an object at $\pi$. pretty considerablo distance, ithssumes a erooked or kigzag form. This is always the case with Mr Naira's very powerful machinés; sparks may be taken from them at the distance of 90 inches, and these put on the angular zigzag foram of lightning. The reason of this appearance, both in these sparks, and in tho lightning is, that the more fluid electric matter hath to pass through the denser and loss fluid atimosphere isith groat rapidity, and, in fact, this is the way in which all the more fluid substances pass through those that are less so, at Jrast when their yelocity becoines considerable.

The zigzag form of lightning is very dangerous, becausc it must overcopie a very viotent resistance of the atmosphere, and wherever that resistance is in tho, smallest degree lessened, there it will undoubtedly strike, and at a very considerable distance too. . The most destructive kind of lightning, hovever, as ve have already observed, is that which assumes the form of balk. These are prorfuced by an excecding great power of eloctricity, gradually accumulated till the resistance if the atmospliere is no longer able to confine it. In geacral the lightring breaks out from the electrified cloud by means of the approach of some conducting substance, but the fire-balls seem to be formed, not because there is any substance at hand to attract the electric matter from the cloud, bat because the electricity is accumulated in such quantity that the cloud itself can no longer contain it.
7hunder is the noise occasioned by the explosion of lightning echoed back from the irregularities on the surface of the earth, in like manner as the noise of a caunon is echoed, and ar pirticular circumstances forms a rolling lengthened sound. The ratting in the noise of thunder, which makes it seem as if it passed through arches, or as if varioutly broken, is probably owing to the sound being excited among clouds langing over one another, and the agitated air passing irregularly between them.

Other phenomena of electricity are denominated fire-balls, and may be distinguished into three kinds.

1. The large fire-balls, which are sometimea called fiery meteors, and fild superstitiousey
persons with great anxicty and alarm. The first of these of which we bave apy acedrate account, was obterved by Dr. IJallog; and some other philosmphers, at different places, fo the gear 1719. The most renarkable of these on record, appeazed on the 18th of August, 1783 , witout 9 oclock in the evening. It was to the northward of Shetiand, and took a southenly aliveetion for an immense space, being observed as far as the southern provinces of France, and one account says that it was seea at Rome also. During its csurse it appears frequiently to bive changed its shape, sometimes' appearing in the form of one ball, sometinies of two or more, sometimes with a train, sotisetimes withoat one. It passed over Edinburgh nearly in the zenith, and had then the appearance of a well defined round body, extremely luminoun, and of a greenish colour ; the light which it diffused on the ground giving likewisg a greenish cast to objects. After passing the zenith, it whas ettenited ty it train of considerable length, which continually angmented, and at last otliterated the head entirely; so that it looked like a wodgo flying with the abtuse end foremost. The motion was not apparently swift, by reason of its great height, though, in reality, it most havelmoved with great rapidity, on account of the vast space it travelted over in il short time.. In other places its appearance was very diffrecut At Greeasrich, we are told, that two bright balls, parallel to ench other, led the uray, the diameter of which appeared to be about two feet, and were followed by an explosion of eipht others, not elliptical, seetning gradually to mutilate, for the last was omith. Betireet eich twa bails a luminous serrated body extraded, and at last a blaze issoed, which termitated in a point. Minute particles dilated from the athole. The balls were tinted first by a pure bright light, then followed a tender yellow, mixed with azore red, green, se. which, with a coalition of holder tints, and reflection from the other balls, give the most brautiful rotandity and variation of colours that the human eye could be charmed with. The sadden iltamination of the atmosptiere, and the form anid singulai transition of this bright luminary, tended much to make it awful: nevertheless the anazing vivid appearance of the different balts, and other rich connective parts not very easy to delincate, gave an effect equal to the rainbow in the full zenith of its giory. Various hypotheses have been invented to aceoant for these phenomena, but thieir formatinn is now generally numbered among the effects of electricity. This is argued from thicir prodigious velocity, which is not less than 190 miles in a minute ; vaniuus electrical appeorances which are known to attend them ; from their connection with the aurora borealis ; and from the northerly direction in which they proceed.
Fe. Filling or shonting stars. These are found to move in all directions contrary to what has been observed in the large fie-balls we have been deseribing. Dr. Bleyden, who publistied an ingenious diasertation on these suhjects, in 78 th volume of the Pbilosophical Pransmetions, after mentioning the vitference of the direction in which tha fallmig otans move from that of the fire-balls, says, thint is, "porhaps, because they come fartherwithin the verge of our atmosphere, and are thereloy exposed to the action of extraneous cauces. That the smailer soit of meteors, such as shooting stars, are really lower dhwn ing the atunosphere, is rendered yery probable by their suifter apparent mption : pertaps it is tilis sery circimistance that orcasions them to be smaller, the electne
fluld being more divided in more resisting air. Hy these masses of electric matfer which, inore where there is scarce any resistance, so generally affeet the direction of the magoetie meridian, the ideas vrich liave been entertained of some analogy beticeen these two obscure powers of nature, 'scem not altogether without foumdation. If the feregulig coajectires be just, disinct refions are altolted to the ciectrical phenomena if our atmosphere. Here below we have thunder and fightaing frow the unequal disthbution of the fluid among the clouds; in the loltier rejfons, whither tho clouds never reach, we have the various gradations of falling stars ; till beyond the limits of our corfuscular atmosphere, the llaid is pat into motion ia sufficient masses to hold a determined course, and exbibit the, different appearanees of what we call fire-balls , and, prougbty, at a stili greater elevation above the'earth, the electricity accumulates in a lighter 4hif less condeased form, to produce the wooderfal diversilied streams and coruscations of the aurora borcalis."
2. Fire-balls of nuother kind are smaller and nearer the sufface of the earth, being samelimes ebserved to burst out of thander elouds, and at other times to appear in perfectly serene weather, and prodace the most avful effects. One of these is meationed by some authors as falling in a serene cvening on the island of Jamairs, exploding as soon as it touched the surface of the ground, and making a considemble hole in it. Anotier is mentioned by Dr. Priestly, as rolling along the surface of the sea, then rising and striking the top-mast of a man of war, exploding and daunging the ship. We likeyise hear of an electric cloud at Java; whence, withont any thunder-storm, there issucd a vast number of fire-balls, which did sncredible mischief. This last phenomenon is conhidered as pointing out to us the true origin of balls of this kind, viz. an excessive artumulation of clectricity in one part, or a violent tendency to circulate, when at the s,the time the place where this motion begins is at so great a distance, or meeto with wher obstacles of such a naturo, that it cannot casily get thither. Urged on, however, by the violent pressure from behind, it is foreed to leave its pluce; but being oqually unable to disptace the great quantity of che same fuid, which has no inclination to more the sume way with itself, it is collected into halls, which run hither and thither, according as they meet with conductors capable of leading thiem into some part of the circle;. Ignes fatui are a kind of dancing fires whirls are sometimes obseryed in mines and oiber moist and danip places, Thoy are supposed to procced from the infammablo nir, and to be set on fire by electric sparks.

The last meteor-we shall treat of is the aurorn harealis, or northern twilight, which is now so frequeatly observed, especially in the winter teason, 49 to need no particular description. In tha dorthern regions of the canth it appears cioro pieturesque, ana fielps consideratly to eheen the darkness of their long winter nights. In the Shetland isles the merry dancers, as the aurora is there called, are the constent nttendants of almost every clear evening. They commonly appear at twilight near the horizon, of a dun cotoun approaching to yellow, sometinies conthung in that state for several hours withous any senable motion ; after which they break out into streame of stronger light, spreading moto colasans, and abtering slowly into ten thousand ditierent shapes, varying their con

## MEREOROEOGY.

lours from all the tints of yellow to the ebseurest russct. They often cover the whole homsphere, and then make the most brillinut appearance. Tleir motions at thise times are inost anazingly quick; and they, astouish the spectator with the rapid change of their form. They break out in places where none were ever seen before, skimming briskly along the heavens; are suddenly extinguisied, and leave behind them a uniform duaky tract. This again is brilliantly illuminated in the same munner, and as suddenly lett a duil blank, In certain nights they assume the appearance of vast coluanis, on one side of the deepest yellow, on the other declining avay till it becomes yndistinguished from the sky. They have generally a strong tremulous motion from end to end, which continues till the whole vanishes. In a word, we who only see the extremities of these northern phenomena, have but a faint idda of their splendor and their motions.

These splendid and anful appearanaes are not confined to the northern regions, but appear, with some diversity of circumstances, in countries approaching the antarctic pole. They are thus described by Mr. Forster, in his account of his voyage with Captain Cook, on Feb. 17, 1773, as they were in lat. $58^{\circ}$ south. "A beautiful phenomeson, says the, was observed duftug the preceding night, which appeared again this and the fotlowing nights. It consisted of long columns of a clear white light, shooting up from the borizon to the eastward, almost to the zenith, and gradually spreading on the whole southern part of the sky. These columns are sometimes bent sideways at their upper extremities ; and though in most respects similar to the northem lights of our hemisphere, yet differed from them in being niways of a whitish colour, whereas purs asesume various tints, especially those of a fiery and purple hue. The aky was gencrally clear when they appeared, and the air sharp and cold, the thermometer standing at the freezing point."

The aurora borealis wns known to the antients, who distinguished it by several pames, according to the different forms and colours it assumed. It was, however, very rare till 1716, since which time it has appeared so frequently as to fall under every cose, notice. Its height has not been exactly ascertained, some supposing it to be 800 miles or more, above the surface of the earth, while others conceive it to be even less elevated than the falling stars, Like most other meteors, it is supposed to have an clectricat origin, being formed, according to some philosophers, by, a vast quantity of electric-flaid accumulated at the poles, endeavouring to supply the deficiency of the same fluid in the tropical regions.
-Throughout the whole of this chapter we have done little more than recite the ohservations and opinions of ingenious men, being fearful, where there is so much scope for dispute, to advance any opinion of our own. It is, however, pleasant to recollect how great a progress has been made, of late years, in the iavestigation of these subjects. This would seem to encourage the hope that in some future period so much additional light will be obtaihed from the joint labours of experimental philosophers, that we may be able to speak with certainty of many meteorological phenomena, concerning which wo can do little more' than, collect isolated facts, and exbibit ingenigus, but uncertain hypotheses.

Yol, I.
B. b


 Hood, and subsequent catastroplies.

THE globe we inliabit may be distinguished into two pracepal component partsy land and water. To which of these the greater snare of the contents of this wonld is to be referred, we have too little aerumintance with the conatitotion of the carth- tothe able to decide; it is, however, certain that thic ocean possesses a much greater extent of surface than can by any menns be assigned to the shore. The vatious wnys fon which these two componcnt parts of the carth nave set Hmits to each other's domin union, bave given oceasion for several definitioss which it will be necessary here to enutherate.
A continent is a large portion of the land, the several regions of which are not sepinrated froin each other by the sea. An island is a tract of land every where surroceded by the water, A peciinsula is almost surrounded by the isea, but is joinod either to a contivent, of to some other peninsula, by a narrow neck of land, which is'denominated an isthmus. The utmost verge of the lanid which is beat upon by the ocean or sea, is ustally stiled the shore. A promontory, cape, or headland, is a point of land extending a considerable way into the the sea. These are the most remarkable divisions of the lanid.
An octan is a great budy of water separating coutinents from one another. A sea is a smaller body of water confiued by the land, whd separating a continent from islands or peniinsulas, or islands or peninsulas from each other. Bays and gulpha are parts of the sea alinost surrounded by the lind. Seas, bays, and gulphs are frequently conrfounded with each other; but if thry were accurately distinguished, the term a bay would be given only to such parts of the water as are mure surrounded by land than seas are, and less so than gulphs. A strait is a narrow passago out of one sea to another. Lakes are waters on every side surrounded by land. The sea is a gencral denominattion for all parts of the globe which are covered with water
Oceans may be compared to continents; seas, gulphs, bays to peninsulas; and laken to islands. Shores are a sort of disputed property, partly to be claimed by the water, and partly by the land.
"The surface of the earth," says the count de Buffon, " is not, like that of Jupiter, dis vided into eternal binds or belts, parallel to the equator. It, on the contrary, is diwided from one pole to the other into two belts of the earth, and two of sea. The firat and principal belt is the antient continent, the grenter lengtt- of which is a line commencing

## GROLOGY.

at the most eastern point of the north of Tartary, and extending from thence tn the Cape of Good Hope. . This line is about 3600 leagues in length, and is never interrupted but by the Caspian, and the Red Sea, the breadth of which is inconsiderable, and. ought not to be ragarded, and especially when the whole surface of the globe is divided into only four parts. This line may be considered as the middle of the antient continent; for in measuring the surface on cach side of it, I find that on the left there are $9,471,092$ 3 square leagues ; and on the right there are $9,469,687$, which is an equality so surprisiug as to render it extremely probable that this line, which is the longest, at the same time really divides the contents of the antient continent. The old coatineat then, consists of $4,910,780$ square leagues, which is a fifth part of the surface of the globe, and myy be regarded as a large Belt of carth, with an inelination to the equator of about 30 degrees."

- " The new continent is mnother belt of earth, the greater length of whicb mey be taken from the mouth of the river La Plata to the lake of the Assiniboils. This line is only interrupted by the gulph of Mexico, which miay be considered as a Mediterranean sea, is about e,s00 leagues in length, and divides the new continent nearly into two equal parts, that on the left containing $1,069,288$ leagues square, and that on the right $1,070,926$. It is the middle of the belt of land called the new continent, and is likewise finclined to the equator about $30^{\circ}$, but in an opposite direction ; for that of the old continent extends from the north-east to thie south-west; but that of the neiv continent fromi north-west to south-east. The superficial contents of the old and new cortinents are about $7,080,993$ square leagues, which is not near a third part of the surface of the globe, which contains $25,000,000$ square leagues."
${ }^{11}$ Of these lines, which divide both the continents into tiwo equal parts, it may be remarked, that they both terminate at the same degrees of north and south latitude; and that the two continents make mutual projections, exactly opposite to each other, viz. those on the African coast, from the Canary isles to Guinea; and those of Amerita, from Guiana to the mouth of the Rio Jabeiro."
However we may wish to be acquainted with the interior of the earth, We have, as the French nataralist observes, only penetrated its rind. The greatest caverns, the deepest mines, descend not above thie sopth part of its diameter. Out judgment is, therefore, confined to the upper stratim, or more 'superficial part. We kriow; indeed, that bulk for bulk, the carth is four timed liearier than the sun: we likewise know the proportion 'its weight bears to that of the other planets. But still this estimation is only relative.' We have no standard. Of the real weight of the materials we are so ighorant, that the internal part of the globe may be either a void space, or may be componed of matter a thousand times heavier than gold. Neither is there any method of making farther discoveries on this subject, it is even with difficulty that rational conjocture's oari be formed.
The several bedt or layers of different matter whereof the eanh is composed, are denominated strata. The upper stratum of the globe is inostly composed of animal and vegetable inatter. The different atrata that compose the earth are not arinnged accordf
ing to their-specific gravities: for bede of heavy matter aro/frequently placed above those that are lighter, and solid roeks are often supported by beds of cartls, clay, or sand. Wivery stratom is, necording to Ruffon, agenerally placed in an hlarizontal position, and is of noarly equal thielaess through its whole extent.

To ettomerato the different species of ininerals that are found above or under the stirfice of the enrthi is not thei design of the present chapter; there is, lowever, one lind of fosills too remarkable to bei passed over in silenec, natuely, the fósils which are discovered in apundance in almost every region that has been yet explored. The shells of Turonne are a striking example. They are thas described by the histotine of the Royal Academy of Paris. It Peatumer's late observations on the subject are astonishing. Ifo discovered a mass, below ground, of $t 50.680,000$ cubic fathoms of shells, cither whole or in fragwents, without the least mixture of stone, earth, sand, or other forcign matter. Hefore this remarkable instunce, folsil shells never appeared in such enormons qifantities, nor without bieing mixod with other bodies. This prodigious mass lays in Tureune, more than six leagues from the sea. It is of great service to the peasants of that province; they use the shells for marle in fertilizing their lands, which would otherwise be pierfectly barren. What the peasants dig out of the earth, to the depth of eight or nine feet, cousists only of friguents of shells; but these fragments are easily recognized to be those of real shells, for they still retain their original channels or furrows, and have only lost their lustre and polish, as most shells do after having remained long under groand. The simallest fragmenis ire only dust; but we know them to be the dust of shells, because they consist of the very samo matter with the larger fragments and she entire shells, which ure sometimes found. The species both of the large fraguents, and of the entire shells, are casily distinguishable. Some of theso species belong to the eoast of Poitoi, and others of them to foreign shores. This mass, likewise, fornisher corals and other productions of the sea. Falun is the name by which this matter is distinguished in that province; and it is found wherever the ground is dug, through an extent of about nive lengues square. The peasants never dig deeper than $q 0$ fect, because, says-REaumer, they imagine 'the expenco of labour would oxceed the valoe of the commodity. They might, bowever, dig deeper. But our calculation of $130,680,000$ cubic fathoms proceods upon the supposition of only 18 feet deep, and 2,800 fathoms to the league. Every article, therofore, is undervalued, and this mass of shells must greatly exceed the above calculation; if the quantity be only doubled, this wonderful phenomenon will he greatly augmented."

The fossil shells that are diseovered in different countrics consist not only of those which are found in the neighbouring coasts, but of such as inhabit the most distant parts of the ocean, and even of several that have never been met with in any other state.

Not only is tho land more elovated than the sea, but different parts of it are higher than others. Hence arises the distinction of bills and mountains, valleys and plaits, though these terms are used relatively, and bave not any precise reforence to the elevation of the land above the surface of the water. Wherever we most with any extent of country which is level, and not much inclined to the horizong we call it-a, plain, it A val.
ley is a part of the land which is more depresed than the adjacent country. Those parts of the earth which are more elevaled thati the adjacent cointry, are detiominnted Fills, or mountains.
"In common languige," says Kirwan, "mountains are distinguished from hills only hy annexing to thom the flea of superior lieight, not assigning to etthor the exact height thit stiould entitle it to its particular donomination." Goozolists have aimed at grenter precision : Pini and Mitterpacter call any carthly elovation a mountain whose declivity makes with the Lorizon an angle of at teast $13^{\circ}$, and whose perpendiculiar beigot is not less than 1-sth of the dectivity. Werner calls a mountata ligh when its perpencicular height exeeds 6,000 feet; ziddle-sizod, when its hicight reaches from 3,000 to 6,000 feot, and loir, when its height is beneath $3,002 \mathrm{fect}$. Betwixt the tropics, the boundarics of regetation are fixed at the lieight of about 19,000 fect; in the tempcrate climates, at from 5 to 8,000 ; and wifhip thic polar circle, still lower. The perpondiculir height of the loftiest mountains that have yet been measured, does not much oxceed 3,000 fathom above the level of the sca. This difference of elevation, when compared with the dinmeter of the glohe, is but as a fathom to a league, or a foot $10^{\circ} 2,200$ feet, and upon a globe of $2 \frac{1}{2}$ feet, woutd not make the 16 th part of a French lipe.

Mr. Buffon wits one of thiose phifosophers who wished to see as little as possible of the Creator in his works, yet, when speaking of the inequalities on the surfacc of the globe, he makes the folfowing observations: "Though the inequalities upon the surface of tho earth may be considered as a defornity in its figure, they aro absolutely necessary to velgetition and animal life. To be convineed of this we need only coustder what wouli be the condition of the globe were its surface perfectly smooth and regalar. Instead, of those beautiful hils, which furnizh abundance of water for supporting the verdure of the carth, instead of those richly garnished fields, where plants and animals find tan easy aind comfortable subisistence, a dreary ocean would cover the whole globe, and the carth, deprived of all its valuable qualities, yould be an olscure abandoned planet, suited only for the labitation of fishes. "
Mif Kirwan, a philosopher of a vorg contrary character, remarks, with great apparent sativfaction, the nomerois ndvantages derived from mountains. "Among," says bic, "the vaious inanimate objects which nature has so profosely scattered round us, there are noue which, at first sight, convey so avful an impression of the power of its grent Au'thor, as those stupenilous masses we call mountains ; none in which reflection discovers more convincing proofs of wisdom and beneficence, than in their diversificd heights and arrangoment, exactly suited to the varietics of their gcographic position, and the gencral aconomy of the globe: Without thrm the earth would be little more than a sandy dcsert, anid the atmosphere a pestilential receptacle of nolsome exhalations; by conducting the electric fluid, and the principle of heat, they contribute to the production of rain, which fertilizes the former, and purifies the latter. Their clevation enables us to extrnet metallic, combustite, saline, and other substances, whose nie is indispenaitle,
yet alieh, in flat sifuations, from tioc impossibility of drawing off the water, we conld, tot obtain. Among the stony substinces they prasent us, many are applied to buiding, and various arts, many are the harbingers of metallio or other valuable substances, and many others, both stony and metallic, exist, whose uses, throagh the unpardonable neglect of former ages, are as yet uaknown; mankiad unnceouatably forgetting that the principal oecupation originatly assigned to thein was to cultivate, that is, to labour oti, and extract every possible advantage from the earth and the substances it contains. The height of those mounbint that raise their lofty summits on the eastern parts; is proportioned to the course which their mighty rivers must hold in the extensive empires of Hindoostan and China, and fited to pruduce ths refresting blasts necessary to moderate the ardour of those sultry elimates; whercias in flie more western tracts, the same reasons not exirtiad the elcrations are far less considerable. In the southern parts of Europe, the accumulated and exalted masses of the Alps, Appenimes, and Pyrenees, dif? pense the same blessings as in the north-cast part of Asia ; and on the other hand, in Africa and Arabia, immense sandy plains occur, whese theated sorface produces those alternations of atmospheric currents that occesion itho moonsoons, and tho varietics of season, requisite for the tropicil refions."

It has been suggested by sii Isanc Newton, that a mountain of an hemispherical figure, three miles high, and six broad, would not, by its attraction, draw the plomib lind two minutes out of the perpendicalar. An attempt to ascertain thifs, by experiment, wis made is the year 1738, when the French acadecmicians, whio were sent to Pery to measure a degree under the equator, attempsed to discover the attrictive power of a mountain in the province of Quito. Thiir circumstances wore, bowever, unfavourable to the solution of such a difficult problom. His Britannic majosty, therefore, determined to enable the Royal Society to undertake the execution of this delicate and important experiment. It was conducted by the astronomer royal. The mountrin Selielinllien, situated nearly in the centre of Scotland, was pitched upon as the most proper for the purposo of any that could be founid in this illand. The observations were made by talking the meridian zenith distances of different fixed stars by merns of in zechith secter of ten feet radius, first on the south, and afterwards on the north side of the hill, the greatest length of which extended in an east and west difrection. From these experiments, which were attended with success, the following inferences have been drawn :

1. "It appeirs that the mountain Scbehnlliei exerts a sensible attraction-; therefore, from the rules of philosophizing. we arc to conclude that every mountain, and indeed every particle of the earth is cindued with the same quality, in proportion to the quantity of matter."
Q. "The law of the variation of tiis force, in the inverse ratio of the squares of the distances, as land down by Sir Lsaac Newton, is also confrmed by this oxperiment. Fir If the force of atrection of the bill bad been ooly to that of the earth, tis the matter in the hill to that of the cartb, and had not beep greatly increased by tho near appreach to the centre, the attraction thereof must have been wholly insensible. But now ty
obly auplosing the mean dersity of the carth to be double to that of the hiff, whith seems very probablo from other considerations, the attraction of the bill will be reconshled with the general law of tho variation of attraction."
2. We may now, therefore, be allowed to admit this law, and to acknowledge that the mean density of the carth is at least double to that of its surface Hence, also, the whole quantity of matter in the earth will be, at least, as great again as if it had all been composed of matter of the same deasity with that of the surface, or will be aoout four or five times as beavy as ir it were all composed of water."
Mountains dre divided into priniry and secondary. The secondary mountains are still farther distinguished fato original and derivative. The class of secondary, and perhaps also that of primery, may be sxbdivided into inert and ignivomous; into volcanic and pseudo volatific. The volcanic hive indeed hitherto been referred to the secondary mountaniss; ©ut as several of the Andes are said to be volcanic, and as the materials of volcanic mountains live been found in some primary mountains, ik is highly probuble that primary motutais may also sonvetimes be the seat of voleanos. "The thost extensive ranges of "mountains, ssys . Mr. Kirwan," conimonly consist of three chains, of which the internal are generally primary, and the external secondary; the internal is generally narrow, and often slarp ; the external broider, and more extensive. Some mountains diverge from a high extensive platform ; others shoot like branches from some comsiderable trunk; others cross each other in various directions, and some few stand -single. Many motintains are stecp on one side, and gently inclined to the plains on the other. The stecphess, Mr. Kirwan thinks, often arises from the rupture of the strata, often from their decomposition, being more exposed to rain, and impetuous predominant vinds, on oneside that on the other. The gentle inclination oftea proceeds from the unequil extenston of thies strata, the lower being the most extensive, and the higlier gindually narrower, often also from the failure and depression of the lower strath,"
Nothing could be more easy, if all sountrics were diligently explored, than to determind the direction in which the principal ranges oi mountains extend; yet, in the preseit state of geograpticat knowledge, this' sabject has given oceasion to al considerable contrariety of opinions. Buffon supposes the lighest-mountains to be placed within the tropice, and that they are gradually lower as they approached the poles. M. Bonche places the most elevated points of the great chain of mountains under the equatoriak line.
-The ingenious writer of tie article mountain, in the Encyclopedia Britannica, affirms, With some hesitation, that the most elevated land on our globe is situated withont the tropics, in the northern and southern hemispheres "* By examining, says he, the course of the great rivers, we find that they are in general discharged into three great reservoins, the one under the line, the other two towards the poles." This, however, lie does tiot mear to lay down as a thing universally true, but allows that, besides the two elevated belts, the whole zurface of the earth is covered with innumerable mountains, either "detached frow one another, or' in a continueil chitin.

In treating of mountains we shall, to aroid confusion on the one silfe, and a too th-
dious distinction on the other, range them in tbree clasees, the primative, the secondary, and the velcanic, of each of which we shall treat in order.

The characteristics of primary mountains are thus enumerated by Mr, Kirwan :

1. "The absence of all organic remains (i. e., fossil shells and other petrcfactions) from the interior part- of their masse and tine composition of the stanes and rocks of which they consist. Soch-remains are indeed found, but very rarely, deposited in the veins and cavitios of these rocks, as if accidentally deposited through rits, aftenwards choaked up, and often in their summits",
2. "They commonly form the highest ridges in auy chain, and the most extensivo, but frequently also, when intermixed with sceondary mountains, tho heighit does not oxeed two or three biundied feet."
3. "They never cover secondary mountains, bat are often covered by them. Nor do they lean on the secondary, but the secondary often lean upon them, cover their flanks, and invest them ; but they often cover ench other."
2.4. "They are sometimes stratified, but more frequently in huge blocks ; their strata novnr alterate with secondary strata. Some of them consist, for the greater part at least, of one species of stone or agregatc. Some consist of various spocies, alternating with, passing ioto, or mixed with each other."
"Those mountains," says the writer of the before-mentioned article, "which form a chain, and which are covered with snow, may be considered as primative or antediluvian. Thay are like majestic bulwarks scattered on the surface of the globe, and greatly exceed the other mountains in beight. In general their elevation is very sudden, ard their ascent very steep and difficult. Their shape is that of a pyramid crowned with sharp and prominent rocks, on which no verduro is to be seen, but which are dry, naked, and, as it were, stripped of their soil, which has been washed away by the rains, and which prescht an awfol and borrible aspect, zufficient to impress the coldest imagination with horror. These primitive mountains, which astopish the cye, and wbere winter only reigns, are condemned by nature to perpetual sterility. At the foot of them we frequently find patis less steep and winding than when we ascend to e greater heighit"
"They every where present thondering cascades, frightfiul precipices, and deep valleys. The depressions of excavations correspond with the quantity of water, the motion of which is accelerated in is fall, and which sometimes produces a total sinking or an inclination of the mountain. The wrecks to be found at the foot of most peaks shew how mueh they have suffered from the hand of time. Nothing meets thie eye but enormous rocks, beaped in confusion upon ose another, which prevent the approach of tho buman race. On the summits of these mountains, or high eminencos, which are coly a series of peaks frequently detached from one another, the prominent rocks are covered with eternal snow and ice, and surrounded with foating clouds, that are dispersed intn dew. In a word, the rugged cliffs oppose an inaccessible rampart to the intrepidity of man, and nature extibits a picture of disorder and decay."

Mountains of the first order form vast solttudes and hoorid deserts, where the habitalions of wen are not to be seen, and their footsteps are seldom to be traced. By their
grandeur,' theur alevation, the variety of their positions, tho subilime and auful cxhibition of tho woaders they contain, they elevate the mind, and fre the imagination of the phierver. Thet these majestic eminences have other advantages which doserve our attentiog. They form the common retreat of a multitude of wild beasts, which are subservicut to our use : there the bear, the lynx, the crmithe, the martin, the fox, toke up their abode, and thither the eagle and the vulture resert in safcty. Mcuntains, likewise, afford sulsistence to rein-deer, buffaloes, fallow-deer, roc-dcer, athd chamois; and they are visited by binls of passages which, under the dircetion of instinet, fellgw the shortest road to the place of their destiuation. They produce medicinal plonts, which scarcoly ever grow clseuhers. They are also sometimes covered with doop firests, which, by the great height of their trees, announce their antiquity. The most precious stones, both for brilliancy and hardness, acguire thetr forms and colours in the fissures of the rocks ; the internal rents of mountains are fillef, and in a manner cemented by different metallie sobstanecs,/while the grottos are furnished with numerous congelations, shining ergstals, and substances of an extraordinary nature and figure.
The distinctive chameter of secondary mountains is the presence of organie remaims, either in their natural or petrified state ; or, at least, of their impressions below the surface, either entering into, and forming a part of the stony masses of which these incuintains consist, or imbeddeit in them, or lying botweca their strati, or under thein ; there may be some, howrever, as those which evidently derive their origin from the disintegration of primitive mountains, in which no organic remains may be found. The secondary, even when otherwise independent, always rest on, and cover primary ones ; but very commpaly, also, they fean on their sides, or jovest them, bot they fre never covered with primary. The stnta of secondary mountains are so much the more irregular or inclined as they approach nearer to primary mountains. Sccondary mountains or strata are not, in the opinion of Mr. Kirwan, all of equal antiquity. Some are derivative, being formed subsequently to the production of organic substances, and originating from disintegration. The principal character by which derivative mountains are distinguished, consists in their exhibiting, vegetable substances or petrifictions, or, at least, their impressions, or land shells, as those of snails, or fluviatile shells, with cither none, or scarcely any marine remains, though some of diluvian origin may exhibit these also.
Secondary mountains are cither formed of one species of stone, or of strata of different species, one covering or alternating with the other: the former Mr. Kirwan calls - unigenous, the latter polygenous: these are usually stratified, the former are not. In some diffornt species are jumbled togother, these our author calls faraginous; they aro by some called tertiary, as resulting from the ruins of other meantains premiscuously wheaped together. The strata of socondary mountains frequently correspond with each other in number, species, and thickness, in different mountains, not very far distant from each other.
The third class of mountains, of which we proposed to treat, are those which are referred to voleanic origin. . These am cither detached or surrcundod with groups of Dittle hills, the soil of which is heoped up in disorder, and the crust gravelly, and con-- Vol. I.
fusedly arranged togetler. They have a wide mouth, in the ahape of in funnel, towards the summit, and are composed of, or surrounded with, heaps of calcined and half sitrified bodies. They are sipposed by some to have been formed of different strata, raised up and discliarged fato the air, upon the occasion of the irruption by subterranean fire, When very high mountains of "this kind are covered with sea shells, their sutanits are considered as bavigg formed a part of the botton of the ocean. Mr. Kirsan, however, considers the number of volcanic mountains as unch smaller than has beeni generally supposed, and that even those, which are undoubtedly of dhis deseription, seldom consist eatirely of volcanic cjections.
"The bowels," says Buffon, " of those hitrivg 'mountains called volcanos, contain sulphtur, bitumen, and other inflimmable inaterinls, the effects of which are more violent than those of thunder, or of gun-powder, and they bave in all ages aatonished mankind, and desolated the carth. A volcano is an immense cannoin, with ab aperture often of more than half a teague circuinference. Froin this vast mouth are projected torrents of smoke and of flames, rivers of bitumen, of salplur, and of melted metals, clouds of ashes and stones, and sometimes it cjects, to the distatice of several leagues, rocks so enormous, that they could not be moved by any cotibiantion of human powers. The conflagration is so drcadful, and the quantities of burning, calcined, melted, and vitrifigd substances thrown out by the mountains are 80 great, that I whole towas and forests have been buried, to the thickness of a huidred or two liundred feet, and sometimes form lills and mountains, which arc only portions of these matters beaped upy and compueted into one mass. The action of the fire, and the force of the explosionsiares so ; violent that they produce by re-action, suecussions which shake the earth, agitate the sca, overturn mountains, destroy towns and bivildings of the most solid materials."

These effects, though natural, have been regarded as prodigies; ; and though mig often behoid, in miniature, effeets similar to those of voleanos; yet grandeur, from whatever scource it proceeds, has such an astomirbing inflaence upon the imagination, that it is not surprising they should have been, considered by some authors as vouts to a ceptral fire, and by the vulgar as mouths of bell. Aetpnistiment produces fear, aud fear is the source of superstition. All these phenomena, however, are only the effects of fire and of smoke. In the bowels of mountains the fo are veins of sulphar, bitumen, and other inflammable substances, together with vast quantities of pyrites, which foment when exposed to the air, or to moisture, and produce explosions proportioned to the quantity of inflammble matter. This is the trine idea of a voleano, and it is easy for the na-turalist to imitate the operation of these suliterranean fires. A mixture of sulphur, of filings of iroh, 4nd of water, barief at a considerabte depth below the ground, will exhibit, in miniature, all the appearances of a volcano: this mixtare soon fermerits to a degree of inflammation, throws of the earti and stones that eover it, and produces explosions every way similar to thiose of burning mountains.

This method of accounting for the origin of voleanos is very, generally received by The learned. It is, howeier, acknowiedged by Dr. Gregory, that it labours suncer one very considerable difficulty, "It seems," says hie," sfter all, difficult to congeive that sueh
extemive and futcose fires should be maiolaized without the access of considerabie quatities of air ; that substance may, therefore, be possibly supplied by a commonieation with some extensive caverns, which may themselves receive it by openings at the distanco of many wiles from the erater of the volcano. It dues not seem improbable that the colcanos, which now burn, may bave a communication with the cavities and craters of extinguished voleanos, and thence derive a supply of air sufficient to accoubt for the inflommation of large beds of pyrites and bituminous matters.
7M. Buffoin supposes that the seat of volcamic fires is stuated but a little way below the bed of the mountains; but it appears more probable, that it is in general many miles below the surface of thie earth, for the quantity of matter, discharged from Etna alone, is supposed, on a moderate calculation, to exceed twenty times the original bulk of the mountain, 5 , and therefore could not bave been derived from its contents alone, but alsd fromi the deeper recesses of the earth.
niAs the eruptions of voleanos are frequently attended with earthquakes, and as those countries, which are most exposed to one of these calamities, are frequently visited by the other, it seems proper in this place to treat of earthquakes. In doing this, we shall bazard no opinion of our own, but having collected the seatiments of several learned menen, leave the réader to pursue the subject further at his leisure, and embrace that bypothesis which, after a diligent examination, he may be inclined to approve. The most remiarkable circumstances attending earthquakes are here enumerated

1. Where there are any volcanos or burning mountains, earthquakes may reasonably be expected more frequently than in other countries.
2. If the volcano has been for a long time quiet, a violent earthquake is to be foared, and vice veria. But to this there are many exceptions.
74.9. Farthquakes are generally preceded by long droughts, but they do not alyays come on as soon as the drought ceases.
3. They are also preceded by electrical appearances in the air; such as the aurora borealis, falling stars, \&cc. but this does not hold universally.
A15. A short time before the shock, the seas swell up, and make a great noise, fountains are troubled, and send forth muddy water; and the beasts seem frighted, as if sensible of an approaching calamity:
-x.6. The air at the time of the shock is' generally calm and serenc; but afterwads becomes obscure and cloudy.

- 7 The shock comes on with a rumbling noise, something like that of carriages; sometimes al rashing soise like wind, and sometimes explosions like the firing of cannon, are heard. Sometimes the ground heaves perpendicularly upwards, and sometimes rolls from side to side. Sometimes the shock begins with a perpendicular lieave, after which the other kind of motion commences, A single shock is of but very short duration, the longest acarcely Lasting a minute, but they frequently succeed each other, at 'short interTvals, forta considerable length of time.
asai 8: Daring the shoek chnems are made in the earth: from which, somelimes flames, 4 bui oftener great quantities of water, are discharged. Flames rud ampke are- also
emitted from places of the earith where no chasins can be percoived. Sorictimes these chastms are but-sunilf; but in violent earthquakes they arc frequently so large, that wholo cities siak into them at once.

9. The water of the ocean is affected even moro than the dry land. The sea swells to a prodigious height; much more than we could suppose it raised by the mere elevation of the bottom by the shock. Sometimes it is divided to a considerable depth; and great quantities of air, flames, and smoke, are discharged from it . The like irregular agitations happen to the waters of ponds, lakes, and even rivers.
10. The shock is felt at sea as veli as on land. Ships are affected by a sudden strokey as if they had rua aground, of struck upon rocks
11. The effects of eurthquakes are not confined to any particulne district or country, but often oxtend to very distant regions, though no carthquake hath yet been known extensive enough to affect the whole globe at one time. In those places also whon the shook is not felt on dry land, the irregular agitation of the waters is felt very remarkably.

Eirthquakes are distinguished by fluffou into two kinds: "The one," says lis, " are occasioned by thic action of subterrancous fires, and by the explosion of volcanos, and are only felt at small distances, previous to, or during the time of nruptions.?
"When the inflammable mator in the howels of the carth brgias to ferment and to burn, the fire makes an effort to escape in every directions: and if it find no natural vents, it forcos a passage, by elevating and throwing off the carth ahove it In this manner voleanos commence, and their efforts continue in proportion to the quantity of inflammable matter they contain. When the quintity of inflammable matter is inconsiderable, it prodaces only an earthquake, and exhibits no mark of a volcano'; the air generated by subterrancan fire may also escape through smail fissures; and in this case likewise, it will be attended with a succussion of the earth. Ilut when the quanfity of inflamed matter is great, and when it is confned on all sides by solid and compact bodies, an eartiquake and a volcano ate tho necessary consequences.
" But all these comuntions constitute oaly the linst species of earthquakes, watch are not fett but in thie nefghhourhood of the places where thisy happen. A violent cruption of Etis, for example, will sliake all the island of Sicily; hut it will nevor extond to the distance of three or four bundral leagues.: When Vesuvius bursts opea a new mouth, it oxcites as carthquako in Naplos, and in the ieighhourhood of the wolcano; but these earthquakes never shake the Alps; nor do they extend to France or other countries disfant from Vesiuvias. Thus earthquakes produced by volcanos are limited to a smail * space ; they are nothing but the effects of the reaction of the fire, and they shake the earth in the same manner us the explosion of a powier magazine occasions an agitation to the distince of several leagars."

But tiere is another species, which are very different in thicir effocts, and perhaps also in their cause. These earthquakes are felt at great distances, and shake a long tract of ground, without the intervention cither of a new voleano, or of eruptions in those that aurcady exist. There are instances of carthquakes that hawe boei felt at the same time in Britain, io France, in Germany, and in Hungary. These oarthquakes always extend
inore in length than in breadth. They shake a zone, or belt of earth , with more of less violence in different places : and thoy are generally accompanied with a hollow noise, like that of a heavy carriage rolling with, rapidity.

As to the causes of this species of earthquake, it must be remarked, that the explorion of all inflammuble sibstances, like that of gumporvder, generates a vast quantity of air ; that this air is highly rarelied by the beat ; and that its effects, from the compression it recelves by being confined in, the bowels of the earth, must be exceedingly violent. Let is suppose, that at the depth of 100 or 200 fathoms, there are a vast collection of pyrites and sulphureous bodies, and thap they are inflamed by the fermentation produced by the admitsfoin of the arater into thom, ox by other causes. What must be the effect? In the firgt place, these substancei are not placed in horizontal beds like the antient stiatis ; they are lodged on the cootrary, in the perpendicular fissures, in sulterraecous caverns, and other plinces to which the water has access. When inflanied they generate a vast quantity of air, the spring of which, by being compressed in a small space, like that of a cavern, will not stiake the earth inimediately above, but will search for passages in order to expand and make its escapen. Caverns, and the channels of subtertancous .fivalets and spring, ate the only nataral pasages for the rarefied air. Into these, thereFore, it will rush with impetuosity, and produce in fliem a forious wind, the noise of thieth will be heirat on the surface ; and it will be attended with vibrations or suecossionk of the ground, This subterraheous wind produced by fire, will extend the whole length of tie carenns or clannels, and ofcasion a shaking, more or less violent, in proporfion to \%ts distance from the heat, and to the width or narrowness of the cenals. But this motion muat necestarily run fo a longitudinal direction ; and the shaking must of - coirse be felt over a long belt of ground.
p.4.Dr: Gregory accounts for earthquakes in a somewliat different mamber. "The sudden explosions," says he, "which take place from volcanos, probably depend on the access nof a quanfity of witer, which enters through spome fissure communienting with the sea, or which is derived from other sources in the earth:"
" If this mass of water is sofficiently great, it will extinguish the volcano ; if not, it will be coniverted into steam, the expalsive foree of which far exceeds that of gutpowder. Thie clastic fuid thus formed, either findo vent at the mouth of the volcano, or if the superincembent veight should be too great, it vill force a passage betreen the strata of the earth, mid occasion that undutatory, but sometiunes violent motioc, which is called an earliquake. Prom various facts, denonstrative of the cohesion and elasticity of bodies, wo are natranted in conclading that the diffirent-strata of which the earth is composed will adberc together, athr that a more free passage will be afforded to any intervening body betreen the strata than directly through them. If the confined fire sets directly under a province or town it will beive the carti) perpeudichlarly upwards, and the shocks wifi. oe thore sudden and violent. If it acts at a distance, it will raiso - that trnet obliquely, and the motion will be more oblique, undulatory, and tremolous.".
1.0ther phltoropheis have had recourse to electricity, particularly Stukely, Reccivia, . and Priently.

Ver, I.
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Dt. Stukley publishod a paper soon after the earthquakes which affected England in 1749 and 1750, wherein, after Laving assigned his rcasons for rejecting the opintons which liad been entertained on the subject, he seeks to establish a new hypor thesis.
(4) The weather had been uncommonly warm for five or six months before the earthquake at London, se that the earth must have been in a state peculiarly ready for an electrieal shock: - All vegetables had been ancommoniy forward, and electricity is known to quicken vegetation. The aurora borealis had been frequent about that time ; and just before the erthiquake, tud been twice repeated in such colours as had never been seen before. It had also removed southerig, so that the Italians, and those among whom earthquakes were frequent, actually foretold the earthquake. The year had been remarkable for fire balls, lightning and coruscations ; and these have been rightly judg. ed to be of an electrical nature."

In thest eircumstances of the earth and air, nothing. he says, is wanting to produce an earthquake, but the touch of some non-electric body, which must necessarily be lad from without the regon of the atmosphere. Hence be infers, that if a nonelectric cloud discharge itsolf upoa any part of the earth, in that highly electrical state, an earthquake must necessarily ensues As the discharge from an excited tube produces a commotion in the human body, so the discharge of electric matter from the compass of many miles of solid earth must needs be an earthquake ; and the snap from the contact the horrid uniooth noise attending it.

A similar hypothesis was advanced by Signor Baccaria, without knowing any thing of Dr. Stukely's discoveries. Bot this learned Italian imagined the electric matter, which occasioned earthquakes, to be lodged deep in the bowels of the carth, agreeably to his. hypothesis conceruing lightning. He supposed that the clectric matter is continually, darting from the clouds in one place at the same time that it is disclarged from the earth at another; and consequently that the elouds serve as conductors to convey the electric fluid from those places of the earth which are overloaded with it, to those which are: exbausted.

This theory being admitted, there will, bethinks, be little difficulty in attributing earthquakes to the same cause. For if the equilibrium of the electric matter be by any means lost in the bowels of the carth, so that the best method of restoring it shall be by the fluid bursting into the air, and traversingiseveral miles of the atmiosphere, to come at the place where it wanted ; it may easily be imagined that violent concussions will bee given to the earth by the sudden passage of so powerfut an agent. This, in his opinion, was confirued by the flashes of light, exactly resembling lightuing, which have been frequeatly seen to rish from the top of mount Vesuvius, at the time that ashes and other, light matters have been carried out of it into the air, and dispersed auiformiy aver a large tract of country. And it is well knowu that volcanos have a pear connection with earthquakies. A rumbling noise like thunder; and flashes of light rising from the ground, have beea generally observed to attend earthquakes. And lightning itself bas been thown to be attended with small shakings of the earth. So also ignes fatui in mines
he looked upon as an argument 'that the electric fluid was sometimes collected in the bowels of the earth.

Dr. Priestiy, in his history of electricity, observes upon these theories, that a mona probable hypothesis may perhaps be formed out of both of them. "Suppose," says he, "the electric matter to be some way or other accumulated, in one part of the surface of the earth, and on account of the dryness of the season, not easily to diffuse itself; it taly, as S. Beccaria supposes, foree its way into the higher regions of the air, forming clouds, in its passage, out of the vapours which float in the atmosphere, and occasion a sudden shower, which may furtien promote the passage of the fluid. The whele surface, thus onloaded, will reccive a concussion, like that of any other conducting substance on parting with, or receiving a quantity of the electric flaid. The rushing noise will likewise swecp over the whole extent of the country. And upon this supposition also, the fluid, in its discharge from the country, will naturally follow the course of rivers, and also take the advantage of any eminences to fucilitate fts ascent into the thigher regions of the air,"

The origin of istands is a subject which has been the occasion of much dispute. Some hive supposed them as old as the creation, others are of opinion that the islands were formed at the deluge, others think that there have been new islands formed by the casting up of vast lieaps of eatth, cloy, miud, sand, \&c. ; others thin's that they have been separated from the continent by violent storms, inundations, earthquakes, \&ce.
Whether the first or second of these opinions be well grounded we shall soon have vocosion to examine; and that they have been formed in each of the last-mentioned ways we have abundant reason to conclade. Another way, however, in which islands are frequently formed in the South Sea, is by the work of the coraline insects.

Having now considered the hatural divisions of the earth, we pass on to expmine those of the water. Water was universally considered as a simple elementary substance till the chiemists of the prosent age proved, by experiments, that it is in reality a compounded body. Its principles have been escertained both by composition and decomposition ; and 100 parts of water are found to consist of 85 parts of vital, and 15 of inflammable air.

As, however, nothing can be more contrary to the first suggestion of the senses than this discovery of modern chemists, it will be necessary to describe the experiments by * which it was made. Mr, John Warltire, lecturer in matural philosophy, had long entertained an opinion thit the question whether heat be a heavy body might be determined by barning inflammablo nit mixed with atmospherical air. For some time he was deterred from trying the experiment, from an apprehension that the consequences of passing the electrical spark through so combustible a mixture, might be attended with darger ; but at length being excouraged by Dr. Priestly, he prepared an apparatus for the purpose. He got a copper ball, weighing 19 ounces, and sufficient to contain three wine pints, with a screw stopper adapted to it, so that no air could eacape. When he filled this boll with inflammable and common air, and made the electric spark to pars
through it, a loss of weight was observed, upon ten nverage, of about two grains. When the same experiment, was made in a close glass vessel, the inside of the glass, though elean and dry before the operation, became immediately wot with dew, and was lined with asnoty substance. When Mr. Warltire saw the substance, he ssid to Dr Prikyty, that it confirued an opinion he had long entertained, that common air depogits jte moistine when it is phlogisticated. After this experiment had beca repeated by Dr. Priesty, and Mr. Warltire, in compaay, thcy bext fired a mixture of vital and inflammable air, but the only effects wifich they obgerved were, that the light was much mopre ititense, and the heat much greater. Ms. Cavendish, who repeated these experiments with a vesses whioh beld 94,000 graing, found no sooty sukotance, , yot the inside of the glass becaine dewy. That be miglit examino the buture of the dew, he burned 500,000 'grais uncuspres of inflammahle air with $2 \frac{1}{2}$ times that quastity of cowimon air, ond the burned nie ivas in made to pass througir a glass, cyinder, which had no taste or sniell, which left no sebtwo siblo sediment when evaporated to dryness.

These experiments give rise to many othors which were performed ingroater variety? and to bettor purpose, in proportion as the -linowledge of the different acrial fluido increased, tilt at length the composition of water was thoroughty proved, and received the concurrent approbation of thic Iearned.

This very useful and necessary fluid presents itself to our notice in three distinet forms, namely, in its liquid state, in the state of vapour, and, lastly, in a frozen state. Water, when pure, and in its fluid state, is transparent, colourless, and withoot amell. It adheres to mott bodies which come in contact with it, it pervades porous substances, and dissolves gutumy and saline-matters, and extingaislies fire. Water, when fuld, is not in its rosot simple state, for its fluidity, depends on a cortain quantity of the matter of heat which enters tinto combination with it, ahd insfauating treef between the purticles of the water, renders them capable of movigg io all directions. We are sopplied with water either from the atmosphere, whenee it deseends in the form of rain, bail, of snow, or from the earth, which it sends forth in springs and rirviets.
In the beginning of the eighteenth century, the philosophical world was agitated by a debate concerning the origin of those waters whicb are necessary to the supply of rivers, \&ce. One party contended strongly for the existence of a large mass of water within the bowels of the carth, which supplied not only the rivers, but the ocean itsolf; at the bead of theso we may place the ingenious, but finciffo, Burnet. The French pliforophers, on the contrary, asserted thiat the waters of the ocean were conveycd, by subferraticous passages, to the fand, and brinis filtrated in their passage, returned again to the sea ly the course of jbe rivers; but this opinion has been rejected, as contrary to the known laws of bydrostuitics. A third hypothesis is that of Mariotte, a dillgent obeerver of nature, According to Kim , the rin water which falls upon the hills and tmountains, penetrating the surface, ,meets with clay or rocks contiguous to each other; along which it runs, without being able to paretrate them, till, being got to the bottom of the mountain, of to a considerable distatice from the top, it breaks out of the ground
and forms springs. This opinion was very generally adopted, fill it was preved, by experiment, that the quantity of water mised in vepour was considerably greater than that which falls in raia us snows.
2. That which is now considered ns the true origin of springs, remnined undiscovered till Dr. Halloy, in making lis celcstial observitions on the top of the mountains of St. Helena, ahont 800 yards from the fevel of the see, found that the quantity of vapour which fell tbere, even when the sky wis clear, was so great, that it very much impeded his olservations, by covering lifs glasees with water every half quarter of in loour; and upon that ho attgupted to determine, by experiment, the quantity of wnpour exhalod from the surface of the sen, as far as it arises from the heat, in order to try whether that might be a sufficient supply for the water coptinually"discbarged by fountains. The process of the experiment was as follows: He took a vessel of water, salted to the same degree with that of sea water, in which he placed a thermometer; and by means of a pan of coals, brought the water to the same degree of beat, which is ohsorved to be that of air in our hottest summer ; this done, he fixd the vessel of water with the thermometer in it, to one end of a pair of scalcs, and exactly counterpeised it with weights on the other: then at the end of two heurs, he found, by the alteration made in the weight of the vesgel, that about a sixticth part of an inch of the deptls of the water was gone off in vapour: and thercfore, in twelvo hours, one tenth of an inch woald havo gone off. Now this accurate ebserver allows the Mediterraneen Sca to be forty degrecs long, and feur broad (the broader parts compensnting for the narrower, so that its whole surface is 160 square degrecs); which, according to, the experiment, must yield at least $5,280,000,000$ tons of water; in which accrunt no regard is had to the wind and the agitation of the surfuce of the sen, both which undoulitedly promote the evaporation.

It repmained now to compare this quantity of water with that which is daily conveyed into the same sea by the rivers. The only way to do which, was to compare them with some known river; and accordingly ho thkes his computation from the river Thames ; and, to avoid all objections, makcs allowances, propably greater than what were nbsolutely necessary.

The Mediterrnagn receives the following considemhle rivers: the Therus, the Rhone, the Tybor, the Po, tho Damue, the Niester, *ho Borysthencs, the Tanais, and the Nile. Each of these he supposes to bring down ten times as much water as the Thanes, whereby he allows for smaller rivers which fall into the same sea. The Thames then, he finds by mensuration, to dischargn about $20,300, n 00$ tons of water in a day. If, thercfore, eich of the above rivers yielf ten times as much water as the Thames, it will follow that all of tuem together yield but 1897 millionsof tons in a day, which is but little more than oac-third of what is proved to be raised in vapour out of the Mediterranean in the same time. We have, therefore, from hence, a source abundantly sufficient for the supply of fountains.

Noir, having found that the vapour extiated from the sea is a sufficient supply for the fountains lie proceeds, in the next place, to emnsider the manner in which they are

Vol I.
raised, and how they are condeased into water again, and conveycd to the sourees of eprings.

In order to this be cousiders, that if an atom was expanded into a shell or bubble, so as to be ten times as big in diameter as when it was water, that atom would becoase specifically lighter than nir, and therefore woald rise so long as the warmith, which first separated it from the surface, shonld continue to distend it to the same degree ; and, consequently, that vapours may be raised from the surface of the sea in that manner, till they arrive at a certain beight in the atmospliere, at which they will find air of an equal specific gravity with themselves. Hence they will float till, being condensed by cold, they become specifically heavier than air, and fall down in dew; or being driven by the wiuds against the sides of mountains, (tuany of which far surpass the beight to which vapours of themselves ascend) are compelled by the stream of air to mount up with it to the top of thens : where, being condensed into wnter, they puesently presipitate, and, gleeting down by the crannies of the stones, part of thein enter into the carerus of the hills, which being once filled, all the overplas of water that cones thither runs over at the lowest place, and breaking out by the sides of the hills forim single springs. Many of these ruming down by the vulleys between the ridges of the hills, and coming to unite form litile rivers or brooks; many of these agaia meeting in one common valley, ayd gaining the plain ground, being grown less rapid, becoue a river; and many of these being united in one common channel, make such streams as the thine and the Danube, which latter, he observes, one would hardly think to be a collection of watei condensed out of vapours, unless we convider the vast tract of land that river drains, and that it is the sum of all those spirings which break out on the sonth side of the Carpathian mountains, and on the north side, the immense ridge of the $A l p s$, which is one continued chain of mountains from Switzerland to the Black Sea.

Thus one part of the vapours is blown on the land, and retarned by the rivers into the sea, whence it came. Annther part falls into the sea befure it reaches the land; and this is the reason why the rivers, do uot return so auch wuter into the Mediterraneas as is raised in vapour. A third part falls on the lumbank, where it utlurds nourishment to plants : yet it does not rest there, but is again exhaled in vapour by the action of the sun, and is either carried ky the winds to the sea, to fall in rain or dew there, of else to the arountains, to become the sources of springs.

However, it is not to be supposed that all fountains are owing to one and the same cause ; but that some proceed from rain und melted snow, which subsiding through the surface of the earth, makes its way into certuin caviries, and thence issues out in the form of sptings ; because the waters of Several are found to increase and diminish, in proportion to the rain which falls. That others, again, especially such as are salt, and spring near the sea-shore, owe their origin to sea water percolated through the earth; and some to both these causes : thongh, without doubt, most of them, and especially suich as spring near the tops of high morntains, receive their waters from vapours, as beSve explained.

There are some spripgs which extibitit a very carious plenomenon, okind of tide ar ioteraission, by which the water, at certain periveds, a pupears to rise to a consideroble beight, and grafually to subsile. These are called intcrmiting springs. It was long imagined that these fountains were replenisticd by some comrectiou with the sca; that the water was freshened by its progress tbrough sand and earth; and thit their rising and falling depmaled upon the tide. It was, howener, found that the periods of the water rising and falling in these springs, did not correspond, in point of time, with tho tudes of the sdjacent seas, and that the periods were different in differeat springs, coatrary to the regular rising and falling of tides in the ocean.
The phenoinenon has been very satiffittorily explained, upon a simple and obvious principle, that of the syption. A syphon is a bent tube, one brauch of which is stecter than the otber. In ordee to make use of this instrunent, it is necessary to place the extremity of the short branch in a vessel that is filled with water, or any other fluid. If the air then is drawn by suction out of the syphon at the extremity of the long branch, it will begin to dow, and will not cease while the stort branch remains inmersed in tho Auid. It is easy to see that the pressure of the air upon the surface of the fluid in the vessel, is the cause of its discharge through the syphon.
: To account, therefore, for the intermitting springs, we beve only to suppose, that a cavity or receptacle is formed in the bowels of the hill or môontoin, where the spring is situated, ahich gradually fills with water like other reservoirs ; by the interposition of some stratuin of stone or rock, the tute or cavity of which conveys the water from this receptacle to the spring or mouth whicre it issues, is bent in the form of a syphon, tha bent of which is comsiderably tigher than the bottom of the reservoir. Wherever, therefore, the reservoir or receptacle is filled as high as the bent of the tube, the water wit rike to,its level, and begin to flow into thm spring, which will continue till the receptacle is exhansted. Whife this proerss is going on, the water in the springs will rise; and as soon as the receptucle is exhausted, the, water, being drawn off by a stream or rivulet, will appear to tall in the well of the spring, and will continue to fall till the reeeptacle is uggia supplied to the height of the svotion or tube when the process of filling wilt be agguin renewed.
There are other springs which are of a higkter temperature than the atmosphere of the country in which they are found. The most probable bypothesis concerning them is, that the same causes operate to prodace them which produce voleanos; but the subject has not yet been sufficiently investigated to enable us to spenk with certainty.
With any persen, who has carefolly abserved the course of rivers, and traced them to their sources, there cin be little doubt that they are formed by the confluence of springs, or of the little streams or rivalets that issue from them; with, perbaps, the exception of those which proceed from tikes, where the reservoir is ready formed, and gencrally by the same means. Thw, well-informed, though too speculative ptilosopher, the Cowrt de Buffon, bas made a considerable number of observations upon rivers, some of which we shall present to the readen us nearly as possible in his own words.
"We may day it down as a fact, that in genent, the rivers and mediterranean wa ters of Europe. Asia, and Africa, run, or stretch more from east to west than from north to south. Hhis is a natural eonsequence of the parallel direction of the different chains of mountains. Besides the whole continent of Europo and of Asia is broader from east to west than from noth to south ; for the direction of mountains may be considered in two points of view; in a long and narrow continent like that of South America, which ountaips only one priseipal chain of monntaias, extending from south to north, the rivers not lieing restrained by any parallel chaln, must ron in channels perpendicular to the range of these mountains, that is, cither from cast to west or from west to east; and this in fact is the direction of all the great rivers in America. But though, both in the old and in the new continents, the great, rivers run in the same direction, this effect is produe ?d by different causes. The rivers in the old continent run, from east to west, because they are confined by many parallel ridges of momtains that ruo from west to east ; but those of America observe the same direction, because there is ouly one chain of mountains stretching from north to south. The rivers generally occupy the middlle of the valleys, or the lowest ground between two opposite bills ; if tho two hills have nearly an equal declivity, the river runs nearly in the middle between then, whether the intermediate valley be broad or narrow. If, on the epntraty, the dectivity of one of the bills be greater than that of the other, the river will not occupy the middle of the valley, but approach to the steepest hill, in proportion to the superiority of its declivity. In this case the middle of the valley is not the lowest ground betweea the hills, but lies muck nearer the steepest of them ; and consequently the river must occupy this space. In process of time, however, the declivity of the steepest hills is diminished by the rains, the melting of snow, \$ce. The steeper any hill is, it loses grenter quantitics of earth, sand, and gravel, by the operation of raips, and these substances we carried down into the plain with a proportionably greater rapidity, anil, of course, force the river to change its channel, or, in other words, to retire into a lower part of the valles. To this it may be added, that as all rivers occasionally swell, and overflow their banks, they carry off mud and sand, which they deposit in different parts of the valley; and us sand and gravel are often accumulatedt in channels themselves, these circumstances make the sater overflow, and alter the direction of their course. Nothinge accordingly, is more common than to find in valloys many old chanuels in wifich rivers have formerly run, especially when they are rapid, sabject to inuth dations, and carry down great quantities of sand and mud.

In ptains and extensive valleys, watered by large rivers, the channcls of the rivers are commonly the lowest parts : but the surface of the water in the river is somenhat higher thau the atljncent ground. When, therefore, a siver begins to overflow, it soon covers a coasiderable part of the plain ; but the banks remain longest uncovered by the water. This elevation of the ground on the banks of rivers, is occasioned by mud and sand being deposited in the time of inundations. The water doring great swells is always exceedingly foul and muddy, when it begins to overflow, it runs slow'ly oyer the banks, and,
by depositing the midd and sand, it graduatly parlfing is it advances into the plafi? thus all the mud and substances that are not carried down by the corrent, are deposited upon the banks, and gradually clevate them above the reat of the plain.

In the interior parts of countries, and at great distancev from the sea, the course of rivers is struight; ind the frequency of their ivindings increases proportionably as they approuch to their termination. Buffon was informed by M. Fabuy, who performed niany journoys in the western parts of Nurth America, that travellers, and even the savages, form pretty accurate computations of their distance frum the sea, by observing the courses of the rivers. If a river rive straight 15 or 20 leagues, they know themselves to be a great way from the coast; but where the sinuosities are frequent, they coneludethat the isa is not very distant.

The surface of rivers, taken from bank to bank, is not level; but the middle of the streati is either ligher or lower, according to circumstances, than the water of the sides. When a river suddenly swells its rapidity increases; and, if itatcourse bo straight, the middle of the stream where the current is greatest, rises and forms a sensible convexity: On the other liand, near the mopths, though the current be very rapid, the ,water near the sides is commonly more elevated than that of the middle ; the river, in this situetion," has a concavo form, the lowest point of which is the middle of the stream. This aliways happons as far as the iaflaence of the tidon is perceptible, which in large rivers extends sonietimes to 100 or 200 ledgues from the sea.
It is likewise a fact well known, that the streams of rivers continue their motion a considerable why through tho waters of the sea. In this case, the water of the river has
tive opposite motions. The middle, or current, precipitates itself towards the sea ; but the setion of the tille prodrices a counter current, of regorging, which elevates the water oin tho sides, whitle that in the middtle descends ; and as all the rater must be carried down by thie current, that oar the siden descends towands the mifdle of the stream, with if quicliness proportioned to the elevation it receives from the regorging of the tide.

When a great swelf of the river if about to happen, the watermen perceive a particular motion, which they call a moving at the bottom, that is, when the water at the bottom nioves with an unusual velocity, which, according to them, always indicates the approach of a sudden swell. The motion and weight of the superior waters, though not - Yet arrived, fail not to act upon the waters of the inferior parts of the river, and to com-- municnto motion to tbem : for a river, in some respecte, may be compared to a tabe, ant its clianhat to a long canal, in which every motion must be communicated from one end of it to the other. Now, independent of the motion of the soperior waters, their weight afone may increase the celerity of the river, and, perbsps, make it move quickest at the bottom, for it is well known that, when several boats are all at once pushed into a river, they incrasise the motion of the water below, and retard that of the superior water. The celerity of rumning waters is not in exact proportion to the declivity of their chatuels. A river with i uniform declivity, double to that of another, ought nut, it would uppear, to run with more than double celerity : but its celerity is much mioré quick, being sometimes triple, sometinges quadruple, \&c. The celerity depends moro Vos, 1 .
orl the quantity of water, and on the weight of the superior waters, than upon the degree of descent.
it The manner in which inuindations are produced merits particular attention. Whien * river awells, fits celerity uniforuly increases, till it begins to overflow the banks frow that moment its rapidity is checked, which is the reason why inundations always cuntimue several days; for, though the quantity of water should be diminished after the commencement of the inundation, it would, notwithstandinge continue to overflow, because this circumstance depeuds more on the celerity than the quantity of water. If it were otherwise, rivers would often overflow their banks for an hour or two, and then retire to their channels, which never does happen. An inundation, on the contrary, a'ways lasts some days, supposing the rains have ceased, and less water run into the: fiver; betause the overflowing of waters diminishes their celerity; and, consequently although the same quantity of water arrives not in the same time as formerly, the effect is the same as if a large quantity had been brought down. It may, likewiec, here be rer marked, that if a high wifid blows contrary to the current of the river, the inundation will be incrensed by this occasional cause, which diminishes the celerity of the water; but if the wind blows in the direction of the current, the inundation will be less, and retire more quickly.
Inundations are generally greatest in the superior parts of rivers, because the velocity of a river uniformly inereases till it ompties itself in the ocean.

Upon the surface of the earth there are elevated countries that seem to be points of partition markerl out by nature for the diatribution of the waters. In Europe is one of these. Mount Saint Gothard, and its environs. Another point is this country situated betwecn the provinces of Belozena and Wologla, in Moscovy, from which many rivers \&esccad, some ioto the White Sea, some into the Black, and some into the Caspiansen In Asia there are several points of partition, as the country of the Mogul Tartars, some of whose rivers rua into the sea of Nova Zembla, others loto the gulph of Linschoten, othors, into the sen of Corea, and others into that of China ; and the losser. Thibit, the rivers, of which run into the Chinese sca, into the gulph of Bengal, the gulph of Cambay, and the luke Aral. The Provinco of Quito, in Argerica, discharges its rivers into the South and North seas and into the gulph of Mexico.
Th There are in the old continent about 450 rivers, which directly fall into the ocean, or into the Mediterranean and Black Seas. Dot in the new continent, Buffon numbers only 145 that fall immedintely into the sea. He takes no rivers into this account that are not equal to the Sommo in Picardy.
Most countries that are furnished with large rivers, are subject to periodical inundations ; and those rivers which have lang courses oycrfow with the greatest.
Thinugh the declivity of rivers does ingeneral diminish gradually till they arrive at the occon, yet in some places their declivity is more sudden, and forms what is called * cataract, which is nothing else than an unusually rapid fall of the water. Several of these we shall pave occasion to describe in the progress of this work.
" Kates," is says the distinguished natumilisto whosc observations, wo havo been now re"
eifing, " differ from mediterranean seas; the former detive no water from the ocean; on the contrary, when they communicate with seas, they are constrntly discharging watet into tliem. Thus the Bleek ses, which some philosophets lave regerded as a loranelh of the Mediterranean, and of coarse an appendage to the oceabi, is only a lake ; becouse in place of receiving any supplies from the Mediterratean, its wators run with rapidity through the Bospherous, in the lake called the see of Marmora, and from thence tirough the ittruits of the Dardianelles into the Grecian sea"

- Lakes are of three kinds, those which neitber receive nor discharge rivers ; those which both receive and dischargc; ; and otiers which only receive rivers. The Caspian, lake Arial, and the Dead sech, are of the last kind. There is, however, not one of these species in Europe of saing consideration, and very few in the world. Those lakes which noither reccive, inor: give rise to ang river are more numerous. They are a kind of swahips which collect the min wnter; or they may origninate from subterraneous waters, which issuc in low grounds, from which there is no fall to carry them off. Those rivers that dverflow may aleo leave stagnatige waters upon the land, which remain a considerable time, and ate cecroited by subsequient inundations. But the most numerous, and most fertensive takes-are those which both receive and give rise to fivers. Such is the lake of Geneva, like Ladoga, lake Onega, and mauy others."
4 Alll lakes ahat give tiso to tivers, and all those which occur in the course of rivers, or which border upon and divelarge tivece watora into rivers are not salt. Almost all those, on the controry, which recolve rivers, and give rise to none, are salt-
WWith regard to thiso which neither receivo nor dischargo rivers, they are either salt or frouth according to their origin. Those in the neigbourhood of the sea are commonly salt, and those at a distance from it are fresh; becouse the former have originated froms inumatations of the sea, and the latter from fresh fountains.
We are now ted to consider that vast body of witer which surroundo the globe of earth, and is called thie sea or the ocean. It surface, according to the mest accurate calceulatiotis, is to that of the land as three to one, too that, supposing ibe superficies of thie wholo globe to be 170981,018 square miles, the ocean extends over 128,235,759, To ascertain its depth is impossible, as is bas never bcen sounded to a greater depth than a mille and 66 feet Two obscrvations mey, howereh, be hero mentioned.

1. That thie sed grows gradually decper is it leaves the shore, ithough the numerous rocko and islands that are to be met with prove that this rule is not uniformily true.
2. Along the coasts, "whero tie depth of the sea is well known, it has always becri found proportioned to that of the stiore.
WI have made if my goneral observation, says the eelabrated navigator Dampier; "that Where the land if fonced with steep rocks and eliffe ngainst the soa, there the sea is very deep and seldom affords anichor ground ; and on the other side, where the land falls ampy with the declivity into the sea (although the land be oxtraondinarily high within,) yot there are commonly good soundings, and consequently anchoring; and as the visitile declivity of the land appears nearer at the edge of the water, whether pretty steep. of: mere sloping so wa commonly find our anchior ground to be more of less deeporateep;
therefore wo comé nearer the shore, or anchor farther off, ns we see most eonvepient ; for there is no coast in the world that I know, or have hoard of, whore the land is of a contipual height without somie small valleys or declivities which lio intermixed with the high land."
" They are the subsiding of valleys or low lands that mnko denis in the shore iand ereeks, small bays, and harbours, or little cones, \&ec. which afford good anchoring, the surface of the earth being there lodged deep under water. Thus sre find many good harbouts on such coasts, where the land bounds the sea with stecp cilits, by reason of tho-declivities or suhsidings of the land between these eliffs : but when the doclension from the hills or cliffs is not within land between hill and hill, but as on the coast of Chili and Pero, the declivity is towards the Imain sia, or into it, the coast boing perpendicularior very steop, froin the neighbouring hills, as in thoso countrics from the Andes that run along the shoro, therd is a doep sea, and few / or no harbours or crecke"l anert *-If the same reasoning thay be applied at every distance from the shore, we must conclade that tho greatest depthlof the sea does not excoed six miles, as that is the grentest 'perpendicular height of any known moustains, Mr. Kirwan, however, thinks vory differently on the subject, and believes the different seas and oceans to contain, at leasfe, ferty oight-times more water than they wrere supposed to do. . M. de la Place, ssys be, calcolating their average depth, not from a few vague and partial soundings, for lifch they liave ever been (the polar regions having been never sounded, particularly the antarctic, ) but from a strict applicition of the theory of tides, to the height to which they are krown to riso in the main ocean, demonstrates that a depth reaching only half a league, or even two br three leaguos, is incompatible with the Newtomina theory, tlere is no depth under four leagues can reconcile it itith the phenomena:

The bottom of the sea, as far as it has been explored, belars a grcat resemblance to the surface of the dry land, belng, like it, fall of plaing, roeks, caverns, and mountains, 'some of whitch are abrupt, and almost perpondicultir, white others rise with a gigentle der elivity, and sometimes tower above the water and form islands. Neither do the materials which compose the bottom of the sea differ from throsel which compose the basis of the dry land. If we dig to a considerabler depth, in any part of the eartb, we uniformly meet with rock ; the seme thing holds in the sea. The strata too are of tio-spede kinds, and dipposed in the samie manner. Over these natoral and original istrativ a bed bas generally been formed of different materials, in different places. It corsints, frefuently of moddy tartarcous substaneos, firmly ceniented together, sometimes of shells or corals reduced to powder, and near the mouths of rivers it is generally compesed of fine sand or gravel. Tho bottom of the sca, likewise, Yesembles the land in mapther particular; many fresh springs, and evon rivers, rise out of it, which, displacing the salt water, render the lower parts of the sca, wherever they abound, guite fresh, An tostance of this kind becurs near Goa, and another in the Moditerrinpan sea. Whether the sea was originally created salt, or has derived its saltness from collections of saline knatter situated at its bottom, or from saline partielop brought into it by rivers, has boen the subject of inuch disputc. Philosophers have embraced each of the e different opin
nions, and supported them by plausible arguments ; but as no accurate observations on the degree of the isaliness of the ocean in particular latitides were made till the last ectary, it does not seem at present possible to ascertain what was the state of the sea at any considerable distance of time, nor, consequently, whether its lsaltness increases, decreases, or is stationary. It has been, however, observed, that the, saltneas of the ovean inereases with its depth, and is greater in warm than in cold clinates.

- It is a fact well tinoirn, thougli contrary to the opinion of the antients, that the sea in the polar regions is much ençumbered with ice. Souse have, however, supposed that all this is really produced in fresh water, and brought down by the rivers, so that wherever it is met with it may be considered as an indication of land. This is even used as an arganient by Baffori, ds a proof of the existance of a vast soothern continent; but since all attempts to discover that contincrit have beet unavailing, it has been less generally regarded. 'It is now well known that greal great quantities of ice are formed at a distance from land. Sea ice is of two kinds, field ice, which extends along the shore, and is only two nr three foet fhick, and mountain ice, which abounds in the middle of the ocean.
w. The sea has three linds of motion, 1. The first is that undulation which is occasioned by the wind. This motion is entirely confined to the surface; the bottom, even during tho most violent storus, remains perfectly ealm. Mr. Boyle has remarked, from the testimiony of several divers, that the sea is affected by the winds only to the depth of six feet. It would follow from this, that the height of the waves above the surface does not exceed six feet, and that this holds in the Mediterranean, at least, we are informed by the Compte Marsigli, theugh he also sometimes observed them, during a most violent tempest, rise two fect highier.

2. The second Kind of motion is that continual tendency which the whole water in the sea has towards the west. It is greater near the equator thau about the poles ; and, indeed, cannot be said to take place at all in the northern hemisphere beyond the tropic. It begins on the west side of America, where it is moderate; hence that part of the ocean has been called Pacific. As the waters advance westward, their motion is accelerated, so that after having traversed the globo, they strike with force on the castern ahore of America. Being stopped by that continent, they turn northward, and run with considerable impetuosity into the gulph of . Mexico ; from thence they proceed aloug the coast of North America, till they come to the south side of the great bank of Newfoundland, when they turn off, and run through the Western Isles. This current is called the

- Gulph Stream It was first accurately described by Dr. Franklin, who remarked also, that the water in it having heen originally heated in the torrid zone, cools so gradually in its passage northward, that even the latitude might be found in any part of the stream by means of a thermowieter. This motion of the sea westward has never been explained: it seems to have some connection with the trade winds, and the diurnal revolution of the earth.

3. The third, and most remarkabie tmotion of the sea is the tide, which is a regular wwell of the ocean once in+12 hours, owing, as Newton has demonstrated, to the attraction of the zoon. To comprehend the laws by which it is governed, will require ouv

utmost attention, we shall, therefore, first register the principat phnomeris of tidegt, sind then lay down a nomber of positions respocing the causes by whech they are produced.
4. It is observed, that on the shores of the ocean, and in bays, creeks, and hatbourn, which communicate freely with the ocean, the waters rise above the mean height twice a day, and as often sinke trelow it, forming what is called a flood wad an ebb, fa high and a low water. Tho whole interval between high and low water is called in tide; the whator is said to flow and to ebb, and the rising is called tho flood tide, and the falling thie ebb tide.
5. It is observed that this rise and fall of the waters is variable in quantify. At Ply. mouth, for instance, it is sometimes 21 fecte between the greatost and least depth of the water it one day, and sonietimes only ie fiet. Thiese different hoights of tides are observed to succeed each othor in in regalar 'serics, dianinistbing from the greatest to the least, and then increasing from the least to the greatest. The greatest is called a spriug tide, and the least is called a neap tide.
6. This series is completed in about is days. Mere careful observation shiows that two series ire completed in the exact time of a lunationt. For the spring tide in any place is observed to happet fueciscly at a certain interval sof time (generally iting (and three days) after new and full moon, and the neap tide id certain interval after the balf moon.
7. It is observed that high water happens at new and foll noon, when the Imboth hos a certain determined position, with respect to the meridian of the place of obscrvation, preceding or following the moon's southing a certain interval of tipe, which is constint with respect to that place, but very different in different places.
8. The time of high water in any place uppears to be regulated by the moon; foct the interval between the time of high water, nnd thie moon's southing, lnever changes abovo three quarters of an hoar, whereas the intervai between the time of bigh water and noon changes six hours in the course of at fortnight.
9. The interval between two succeeding higs waters is variabled It is least of all be' "tiveen new and full moon, and greatest when the moon is in ber quadeatures. As two bigh waters happen every day, we may call thie doútle of their interval tide day, as wo call the diuirnal revolution of the moon a lumar day.. The tide, about nev and fult mono is about 24 h . 97 ; about the time of the moon's quadrature it is 25 h .27 .
10. The tides, in similar circunstances, are greatest when the moon is at hier smallest distance from the earth; or in her perigee, and, gradually diminishing, are smallest wher she is in her apogee.
11. The same remark is made with respect to the sun's distance, and the greatest tides are observed during the winter months of Barope.
12. The tides in any part of the ocean inerchse as the moon, by changing ber declination, approaches the zenith of that place.
13. The tides that happen while the inoon is above the horizon, are greater than the Lides of the same day when the moon is below the horizon.

## GEOLOGS:

Squb-aro the reguler phenomena of the tides. They are important to all commercial inations, and chave, therufore, been much attended to. It is of the tides, in all probability, that the Biblo'speaks, when God it said to set bounds to the ree, and to say, "Tius far shail it go, and no farther." Let us, however, with all deference to the great Goveiner of the universe, iuquire as far as wo may into the means he employs for the inscomplishaient of this end, and for- that purposo let ps attend to the following obsershtions.
1.f' 1. The influcncol of atterction extends not only to every large body in the creation, but to every particlo of which such body is composed, operating on each in direct proportion to the waguitude of the attracting bodies, and in an inverse proportion to their distances. Thoso particles of our globe plich are on that side next to any celestial Hody, muss, therefore, be more attracted by any colestial body than the centre of the eartb, and the centre of the earth than that side of it which is turned from the celestial body. The effects of this difference of reaction will be more sensibly discovered in water than on land, because its particles less tenacionsly adhere together. That part then of the ocean which is turned towirats the celestial body, will be more powerfolly attracted than the centre of the earth, and therefore deawn opward from it towari the attracting , selestial body; that part of the ocean which is turned from the colestial luminary is less
iattracted by it than the centre of the earth, it is, thercfore, left belind, and consequently appears to be raised above it in a direction opposite to that of the attracting body; both these effects having beep produced, the water rughes from the other two sides of The globe, in order ta raise the ocean on the sides turned towards, and turned from the celestial bodyw beyond the natural equilibrium which obtains in fluids. This accounts for thie first phenomenon.
g.: Let as now suppose the attracting body to be distant from the centre of the cartin 100 semidiameters of our globe. Its distance from the nearest part of our globe would theo be to its distance from the most distant part of the earth as 99 to 101. The difference of the attraction exerted oh the nearest sarface of the earth from that exerted on the centre of the carth, would be to the whole influence cxcrted on the nearest surface as one to 99 , while the difference of attraction exerted on the further side from that exerted on the centre of the globe, swould be to the whole influcnce exerted on the farther side only as one to 101. This proves, that the waters must be more ruised on the nearer than on the further side of the globe, and accounts for the tenth phenomenon.

- fani 3. Of the celestial bodies, tuso only have any very considerable influence on oar globe, the sup and the mopn. The former of these is, in almost every instance, post sessed of the greatest infuence, but in respect to the tides his power is exceeded by that of the mooneri. To shew the reason for this, let it be supposed that the distance of the sun be 1000 semidiameters of the carth, and that of the moon 100 , the difference then of their ipfluences on the different sides of the carth will be in the folloning proportion :

Solar influence on the earth's nearest side 999, on the farthest, IO0 1 ; difference as I 60,1000 . Lunar influnnce on the nearer side of the carth 99 , on its farthest side 101; differences as o to 100. The difference then of the lunar influence on the opposite, sides
of the globe is ten times greater than that of the influence of the sun, consequently it is the most powerful agent in the regulation of tides.

Thesonumbers have been assumed only for the sake of argument, and their difference is considerably less than the difference between the distances of the sun and moon.
4. When the daily motion of the moon in her orbit is alded to the diurnal rotation of the earth, the length of the tides is ascertained, as that is the time which elapses from her being on the meridian of any place to her retura to the same again. This is, of course, afficted by the irregularities in the moon's motion, and explains the sixth phenomenon.
5. When the moon is in the zenith of any place, ber influence on the tides is more strongly felt than when she is on any other part of the meridian. This is so evident as to need no proof, and affords a solution of the ninth phenomenon.
6. The lunar influence on tides is also increased shy hen being at her least distance from the earth, for preciscly 'the same reason as has been already assigned why her influence on the ocean exceeds that of the sun. Apply this to the seventh and cight phenomena.
7. When the moon is in conjunction with the sun the tides are lighest, because the influences of the two most powerfol luminaries are then exerted in the, same direction. A nearly similar effect is produced when the sun and moon are in opposition to each other, because in that case they attract the ocean on each side from the centre of the eartb,
8. The high water does not take place immediately on the new and full muon, because that the motion of any fluid will continue and increase for a certain time after is has received its impolse.
9. Lastly, the projections of opposite shores will oppose many impedimonts to the speedy propagation of the motion of the sea producod by the lunar influence, and make the time of high water yarious at different places.

Combine these observations together, and they will cast some light on the second, fourth, and eighth phenomena'of tides.

In the former chapter, we made a few observations on the origin of winds, and the temperature of ellmates, subjects between which there is a close connoction; it was not, however, possible at that stnge of the work to caury our researches so far as we might wish; since we had not then considered those inequalities of the carth's surface, by which the differences of wind and temperature, which obtain in the various regions of our globe, are materially affected. We have now a proper place to resume our inquiries, and pursue them with greater advantage. Thoogh there is a considorable difference in every, part of the world between the temperature of the atmesphere in summer and in winter; though in the same season the temperature of almost every, day, and even overy hoor, differs from that which precedes and follows it ; though the beat varies; continually in the most irregular and seemingly capricious manner, still there is a mean tean perature in crery climate, which the atenosphere has always a tendency to observe, and which it neither exceeds nor comes short of, beyond a certain number of degrees. Mr. Mayer dicovered that this mean temperature diminished in a certeia regulan piroportioa
to the latitude : and on this principle Mr. Kirwan constructed a table which shews the mean anit temperature of eyery degree of latitude firon tio equator to the poles. It applies oily to the temperature of the atmosphere of the ocean. It whs calculated for that part of the Atlantic ccean which lies between the soth degree of north lr itude, anit the 4 th of south latitude, and extends westward to within a fere leagues of Aiserice, and for all that part of the Pacific ocean reaching from latituds \&5 norli, to latitude $40^{\circ}$ souti, and frow the goth to the 978th degreo of longitare cust from London, This part of the ocean Mr Kirwan calls the standard, the reat being subfect to various anomitigh. Mr. Kirwan also calculated the meap monthly temperature on the principle that it bears some fixer relation to the altitude of the sun, and partly from this calcula (fom, and partly from the abservation of yoyagers, he constructed a table, which shews the mean temperatore of every part of the standard ocean, duritg every month in the year.
From this tahle it appears that Janpary is the coldest month in every latitude, and that July is the waruest month in al latitudes above $48^{\circ}$, and below $61^{\circ}$. In lower latitudes August, and in higher latitudes June is generally warmest. In lower hatitudes than $33^{\circ}$, the lemperature of the taree last montioned is nearly the same. The difference beireen the liotfeit and coldest monthis increases in proportion to the distance from the equator. Every hatitable latifude enjoys a mean heat of about $60^{\circ}$; for at least two quonthis, this beat secms necessary for the produetioi of corn.
Witbin tea degrees of tho pole the temperature differs very litele, neither do they differ much within $10^{\circ}$ of the equator; the temperature of the different years differ very Hite near the equator, but they differ ubire and more as we approach the polos.
The temprrature of the earth, it the lovel of the sea, is the same with that of the standard ocean ; this temperature gradpally dimmishes as we ascend ubove the fevel. till, af a certain height, we arrive it the region of perpetuit congclation. This region varies in height inccording to the lotitude of the place ; it is highest at the eqnator, and descends gradualiy nearer the earth as we approseh the potes, It varies aiso with the season, tehig tighest in summer, and lowest in winter. If lieat depended on the sun's rays alone, it would disappear in the polar regions during the winter, when the sun ceases to rise, which is by no means the case. The reason of this is, that the sun's rays Leat the earth consideratbly during the summer; this heat it retains, and gives out slowly during winter, and thus moderates the violence of cold; and the summer returns before the earth has time to be cooled dowa beyond a certain degree. This is also the reason. that the eoldest weather does not take place at the winter solstice, but some time after,

- when the temperature of the earth is lowent ; and that the greatest heat takes place also some considerable time after the summer solstice; because then the temperature of the earth is highest. For pure air is net heated by the solar rays which pass through it, but-aequires slowiy the temperature of the earth, with which it is in contact.

Since the atrichpherg is beated by contact with the superficies of the earth, its tempernture must depend on the capacity of that superficies for receiving and transmitting heat. Now this capacity differs very much in land and water. Land, especially when dry,
vol. 1.

## 126

## GEOLSGZ

receives beat with great readiness, but transmits it through ita oisn subtance yery slowly: Water, on the contrary, receives heat sionly, on account of its cratuparency, but what it does receive is very quickly transfiused tirougt the whole miass.
The sea atmosphere prescrves a more uniforna temperature than the lasd stmesphere, The cause of this is evidenit In sunmier the surfice of the sea is constantly cuolod by evaporation, and in winter, whenever tho surfict is cocled, it descenids to the bottom by its increased gravity, and its place is supplied by warmer yater. This process goes on continually, and the winter is oven before the aymosphere has beea atbe to cool the water boyond a certain degree, As the sea is never beated so highly as the land, the meant summer temperature at sea may be considerid, all over the worlo, as lower than on land. During wioter, when the power of the ran's rays in a great meabure ceases, the sea gives out heat to the air much more feadily thian the earth; the mean winter tem. perature, tierefore, at sea is higher than os land ; and in cold countries the difference is so great, that it more than counterbaiances the differecice which takel place in sumbmer ; so that in high latitudes the temperatore in summer oughit to be greater at seal than on land: Accordingly, fiom lat: $70^{\circ}$ to $35^{\circ}$, to find the temperature of a place, the standard temperature for the same latitude ought, according to Mr. Kirwar, to be depressed $\frac{5}{3}$ of a degree for ciery 50 miles distance ; for the colh which takes plice in winter always increases in proportion to the distance from the standard. At a less distanee than 50 miles the temperatures of land and sea are so blended together by sea and lind winds, that there is litile difference in the annual mean. In lover latitudes than so', the rays of the swn, even in winter, retain considerable power; the surface of the earth is never cooled very low, consequently the difference between tho annal temperaturen of the sea and land becomes less.
As we approach nearer to the equator, the power of the solar rays in wioter increases,? so that the mean winter temperature of the lanid atnosphere approaches neaver and nearer to that of the sea, till at last at the equator it equala it. After we pass latikude $30^{\circ}$ therefore, the mean annual land temperature gradually exceeds that of the sca, till at the equator it exceeds it a degree for every 50 iniles distinces
To these general rales there are, however; certain exceptions, which wo shall proceed to mention. That part of the Pacific ocean wlioh lies between north latitude $s 2^{n}$ and $66{ }^{\circ}$, is no broader at its northem extrewify than 49 miles, and at its southern ex. tremity, than 1500 miles ; it is reasonable to suppose, therefore, that its temperature will be coasiderably inflaenced by the surrounding land, which' consists of ranges ot mountuins, covered a great part of the yeir with snow ; aod there are, besides, a great many high, and, consequendly, cold islands scattered throughi it. For these reasons Mr. Kirwan concludes, that its temperature is, at least, four or five degrees below tho standard.
Thi southern heanispliere, beyond the 40 th degree of latitude, is considerably colder than the nortberc. This arises from the suin's continuing several daye longet in tho summer thail fie docs in the winter sligss.

Simall seas surrounded hy lahd, At Tenit in temperate and cold climater, are getieralty Wariner in summer, and colder in winter, than the standard ocean, because they are a good deal inffuenced by the temperature of the land.

The castera paris of North America mire much colder than thie opposite coasts of Furpog, and falr shork of the standard by about 10 or 12 degrecs. The causes of this remarkate dinturence are many. The highest pairt of North Ameriea lies between the 40 th and 50 th degree of aorth latitgde, and the louth and 110 th of longitude west from Eoblah'; for there thio greatest rivers originate. The very height, therefore, makes this spot colder than it othervile woufd be, It is covered with inmense forests, and abounds with firge swemps ant morasses, whtct render it incapable of receiving any great degree of licnt; so that the rigolir of winter is murh leer tempered thy the heat of the corth than in the old continent: To the east lie a number of very large lakes; and fartier nortit, Itudson's Bay; about 30 mites from which there is a range of tuautalns, $u$ bich prevents it from receiving any heat from that quarter. This bay is bounded on the east by the mountainous country of Labrador, and by a numiber of islands. Hence the coldness of the north-west winds, and the lowness of the temperatare. But as the cultivated parts of North America are now much warmer than formerly, there is reaion to believe that the cimate will become milder when the country is better cultivated, thinigh, perhaps, it wif never equal the temperature of the old continent.
Tslands are warner than cohtinents in the same degree of latitude; and counties tying to the nindward of extensive zoountaing or forests, than those which lay to the lee: warc. Stones or sand lave a less capacity for heat than earth has, which is always solaumfat motht, they heat or colof, thercforc, more rapidly, anid to a greater degree. Hence arise the violgnt heat of Arabia and Africa, and the intense cold of Teria del Fuego, Living vegetables after their temperature very slowly, but their evaporation is great; and if they te tall and ciole as in forests, they exclode the sun's rays from the earth, and shelter tho whiter snow from the wind and the sum. Wobdy countries are, therefore, much colder, thin thoje which are cultivated.

In those parts of the Atlantic and Pacific oceatis which lie near the equator, there is a regular wind during the whole year, called the trade wind, On the nerth side of the equator it blows from north-east, varying frequently a point' ar two towneds the north or east ; and on the south side of it, from the south-east; changing-sometimes in the same mamer towants the sotuth or eath.
, These are supposed chieffy to orighate in three causes.

1. The diarnal motion of the equatorial parts of the earth is censiderabily nuore rapid thai that at is polar reglons; and tlerefore the atmasphiere of the former regions misst necessarily be carried round more rapidly than that of the latter. If a duantity of ain could be suddenly brought from higher latitudes to the equatoh, it woold hot, it is yuk serted, be at once made partaker of this rapid motion, bat the cuninences of the eartle would strike against it, and it would become an east whid, If this tiecds explanativen, lot it be considered that as, the carth turns round from webt to cult, au body not tarsing
with equal velocity to that of the carth woald scem to pass (like the sun) from cast to west
2. The action of the sun rarefies this sir, especielly the atomphere of those ceuntries to wlich he is sometimes vertical, this rarcfied air asconds, aud its place is supplied by cold air rusting in from the north or south. This taket a wetterly direction, becume the air in there more rarcfied than it is tormards the catt, and therefore less able to resist it impulso.
3. Since the attraction of the sum and woon preduces so remarkable nin effect upon the ocean, wí cannot but suppose an equally great effect if prodaced on the atrinosphere. It is, therefore, probable, that there ane tides of air which follow the diumal motion of the moon from cast to west, and thus contribato to give tho trade winds a westerly direction.

The space included betreca the second and fith degrees of north latiturle is the internal limits of these winds. There the wiuds cannot be snid to blow cither from the north or from the south ; calus aro frequent zod violent storins. This is the parallel of the greatest heat, which is, for reasons before ssaigued, north of the equator:

In several parts of the Indian ocean the wind Ulows six moneths in one dircction, and six months its opposite. Thicse half ycally winds nro calted monsoons. They are variations of the trade winds, and are produced by tio rarefiction of the atmesphere of certaio countries which are heated in summer above thio tomperature of the ocemm, To the same eauses are to be ascribed tho land and sca breezes. The earth being lieated in the day is abore the temperature of the neighbouring oconn, its atmospliere becomes rasefied in proporion, ascends, and has its phace fillod by cool breczes from the wator. As the night approaches, the cooler and denser air from the hills falls down mpon the plains, asd pressing upon the air of the sea, eauses the land brecze.

Thus for we seera to tave been supported by pretty cvident reasoning; but what remaing on this head is attended wibh some considerable difficulties, we, therefore, think it safest to present the reader with a feve extracs from a respectable pablication, without defring to advance any decision of four own.
4. The rarefeed air which ascends between the second and fifth degress of porth, Tatitode, has been shicwa to be the unirersal cause of the trade winds. As this aif ascends it mus become gradually colder, and consequently beavier ; it would, therefore, descend agaie if it were not buoyed up by the constant asceot of new rarefied air. It must, therefore, spread itself to the north and south, and gradually mix in its passage, sith the lower air ; and the greater part of it probably, does not reach beyond the Sothdegree, which is the external limit of the trade wind. Thus there is a constant circulation of the atmosphere in the torrid zone ; it ascends near the equater, diffuses itself towards tho north and soutb, descends gradually as it approaches the snth Jogree, and returning agoin towards the equater, performs the same cirecit. It bas been the epinion of the greatest part of those who have considerod this subject, that the whole of Who rarefied air which ascends aear the equator advences towa:ds the poles, and de-
scends therd But if this were the case, A constant wind would blow from both poley towards the equator, the trade winds would extend over the whole earth : for otherwise the ascent of air to the torrid zone would very soan cease. A little reflection inust convince us it cannat be true that rarefied air differs nothing from the common air exce't in containing a greater quantity of teat. As it ascendes it gratually foses this superfuous heat. What then should linder it from descending and mixing with the atroosplere below? That there is a constant current of superior air, however, powards the poles, cannot be doubsed; but it consits principally of lyydrogen gas. We shall immediately attempt to ussign the reason why its accumulation at the pole is not always attended with a north wind."
"If the attraction of the moon, and the diumal motion of the sum have any effect upon the atmosphere, and that they bave some effect can bardly be dispoted, there must be a real motion of the air nestward within the limits of the trade winds. When this boily of air reaches America, its further passage westward is stopped by the mountains, which extend from one extremity of that continent to the other. From the momentum of this air, when it frikes against the sides of these mountains, and from is elustieity it must acquire from them a considerable velocity in a direction contrary to the first, and would therefore return eastward again if this were not prevented by the trade winds, It must, therefore, rash forward in that direction where it meets with the least resistance ; that is, fowards the north and south. As air is nearly a perfectly elastic body, when it strikes aguinst the sides of tha American mountains, its velocity will not bo perceptibly diministiod, though its direction bo changed." Contiuning, therefore, to move with the velocity of the equator, when it arrives at the temperate zones it will assume the appergance of a north-east, or south-east wind. To this is to be ascribed the frequency of the southwrest winds over tho Atlantic ocean, and western parts of Europe. Whether these winds are equally frequent in the northeru Pacific ocean we have not been able to ascertain, bat it is probable that the mountains of Asia produce the same effect as those of America?

Our author then, with great ingenaity and diffidence, advances an opinion that part of the atmosphere is, at the poles, decomposed and converted into water. Heving endeavoured to support this hypothesis by several very plausible arguments, and suggested several limpiries which might have tendency to decide the trath nfter which he is pursuing, he proceeds. "If these conjectures have any foundation in nature, there are two sources of soath-nest winds; the first has its origin in the trade winds, the second, which he inclines to consider is the most important, in the precipitation of the atmosphere near the poles. When they originato from the first-cause, they will blow in countries farther south for some time before they are fott in those which are farther north ; bat the contrary will take place when they are owing to the second cause."
" There are also two sources of north-east winds; the first is an accumulation of air at the pole, the second, *i precipitation of the atmosplicre in the tornd $20 n e$."
"Currens of air from the poles naturally, as has been observed, assume a north-cast - direction as they advance southward, because their diarnal motion becomes less than

Vol. I.
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that of thic earth. Various circumstanees, however, may change their diVection, and cause then to become north, or even north-west winds. The sonth-west winds thernselves may often prove sufficient for this ; and violent rains, or great heat, by lessening or rarefying the air in any country, will produce the same effect in countries to thic westward when north winds happen to be blowinge"
"In North America the north-west winds become gradually more frequent as we advance northwards. The east coast of this continent, where the olservations were made from which this conclnsion was drawn, is alone cultivated, the rest of the country is covered with wood. Now cultivated countries are well known to be warmer than those which are uncultivated; tho earth in the latter is shaded from the sum, nnd never beated by his rays. The air, therefore, in the interior puts of Amerien must be constantly colde: than near the sea-coast. This differeace will bo hardly perceptible in the southern parts, because there the influence of the sun is very powerful; but it wilf becorne gradually greater as we advance northwards, because the influence of the sun dimininhes and the continent becomes broader. Hence north-west winds ought to become more frequent upon the east coast as we arfance northvard; and they witl probably cease to blow so often as soon as the whole continent of North America becomes cultivated."
"Thus have wo attompted to explain the causes which produce tho more genoral* winds which prevail in the torrid and temperate zones. The east and west wiods, when they are not partial, and confined to a very smaill portion of the atanosplere, seem to be nothing else but currents of air brought from the north and south, by the causes already mentioned prevented from proceeding farther by contrary eurronts. If these curreuts have come from the north, they will ossume the appearance of eist winds; bocause their diurnal motion will be less than that of the more southern latitudes over which they, are forced to remain stationary. The southern currents will become west winds for a contrary reason. This will furnish us with a reason for tho cootness of cast winds compared with west winds."
"Besides these more general winds, there nre others which extend onls over a small part of the earth. Thiese originate from many different causes. The atmosphere is composed of three different kinds of air, owsgen, azote, and carbonie aetd; to which may be added water. Great quantitics of thole ingredients are continually chunging their acrial form, and combining with various substances, or they are separating from other bodies, assuming the form of air, and mixing with the atmospliere. Partial voids, therefore, and partial accumulations, must be contincally taking place in different parts of the atmosphere, which will occasion winds varying in direction, violence, and continuance, according to thie suddemess and the quantity of air destroyed or produced. Beside these, there aro many oflier ingredients constantly mixing with the atmosphere, and many partial ciuses of condensation and rarcfaction in particular places. To these, and other causes, probably litherto unknown, are to bo ascribed all those winds that blow in any plece beside the general ones already explained , and which, 25 they depend upon causes, hitherto, at least, reckoned contingent, will probably for-ever pre vent uniformity and regularity io the winds. All these causes, however, may, and pro.

BEHy will \e discovered: the eireumstances in which they will take place, and the of fects which they will produce, may be known; and whenover this is the case, the winds of ang place may, in some measure, be reduced to calculation."

It now only remains to inquire whether the globe we inhabit be created or eternal, whether it was orginally a chios, or has existed from the beginning in a state resembling the present. These questions are of the utmost importince, as they respect the first principles of natural and revealed religion. To decide them it is necessary to review the different theories of the earth which have been generally received, either by believers or unhelievers.

The first who formed this amusemen? of garth-making into system, was the celcbrated Thomas Buruet, a man of polite karning, and rapid imagimation. His sacred theory, as ho callt it, describing the chunges which the earth thas undergone, or shall bereafter undergo, is well known for the warnith with which it is imagined, and the weakness with which it is reasoned, for the elegance of its stile, and the meanness of its philosophy. "The earth," says he, "before the deluge, was very differently formed from what it is at present ; if was at first a flufid mass, a chaos composed of various substances, difforing both in density and figure; those which were most heavy sink to the centre, and formed In the middle of our globe a hard solid body; those of a lighter nature remained next . and the waters, which are lighter still, swam upon its surface, and covered the carth on every side. The air, and all those fluids which were lighter than water, floated upon this also; and in the same manner cucompassed the globe; so that between the sur rounding body of waters, and the circumaribient air, there was formed a eoat of oil, and other unetuous substances, lighter than water. However, as the air was still extremely impure, and must have carried up with it many of those earthy particles with which it once was intimately blended, it soon began to defecate and to depose those particles on the oily substances alroady mentioned, which soon uniting, the carth and oil formed that crust, which soon becftre an babitable surface, giving life to vegetation, and divelling to animals. However, this did not long continue in the same state, for, after a time it begun to crack and open in fissures; a circumstance which always suce coeds "when the sun exhales the moisture from rich or marahy situations."
"The crimes of mankind had for sotac time been preparing to draw down the wrath of 'hearen; and they at length induced the Deity to defer repairing those breaches of nature. Thus the chasms of the earth every day became wider, and, at tength they penetrated to the great abyss of waters, and the whole carth in a manner fell in. Then ensued a total disorder in the uniform benuty of tho first creation, the terrene surface of the globe boing broken down : as it sunk the waters gushed oat in its place, the deluge became universal ; all mankind, except eight persons, were destroyed, and their posterity condemned to toil upon the ruins of desolated nature".
"The ligher parts of its broken surfice now became the tops of mountains; mounthins were the first that appeared; the plains sonn ofter camo forward, nod, at length the wholethobe was delivered from the waters, except the places in the lowest situations; .co that the oceas and the scas are still a part of the uncient abyss that have not had a
 doms und combinents are larger masees of its broken substance; and all the inequalitics that are to be found on the surlice of the prescht carth, whe oning to tic accicental confusion into which both carth and waters were tien thrown."
The next theorist whis Woodward, who, ia llisessay towards natural history of tha carth, which tras only tcesigeतd to preceitea gteater wort, hat condetivoured to give a
 such an undertaking than any of his predcossors, being oue of the most nasiduous nintoralists of his rive. His litte book; thercfore, contsiiss mingy important ficts relativo to natural history, allhough his systen mayo be fieak and groundlem. He begins by assenting thint all terrene substances are disposed ia Reds of varivus nutures, lying horizontally one over the other, sonicwhat like the coate of air onion ; that they fire replete with stiells, and other productions of the sea; these slectls being found in the deepest cavitics, and on tho tops of the lighict mountains.

Having taken it for granted that all the layers of earth are found in the ordee of their specific gravity, the lightest-at the top, and the heaviet -aost the centre, he consequantly
 posed were once in an actual stite of dissolution. This unverenil dissolution he talke to bave happeried at the time of the flood. He supposes that at that time a body of water, which was then in the centre of the carth, uniting with that which was found on the surfice, so far separated the terrene parth as to mix all togetier in one fluid annss, the contents of which aftermurds sinking, accorning to their respective gravities, pmduced the present appearance of tho earth. Mr. Whiston suppoges the carth to have been originally a comet, and lie considers the history of the creation, as given is in scripture, to have its commencement just when it was, by the hand of the Creator, miore rtgularly placed as a planet in our solar systep. Before that time the sumploses it to have been a globe without beauty or propportion ; is world in disonder; subject to all thio vicissitudes which comets endure; some of which have been found, at diftorent times, a thousand times hoter than melted iron ; at others a thousand timea colder thin ice. These alternations of bieat and cold, continually meltiog and freczing the surface of tho carth, he supposes to bave produced, to a certiin depth, a chaos contircly resembllig that described by the poets, surnounding the solid contents of the earth, which still centtianed unchanged in tho midat, miking a great hurning globe of muro than two thonsund leagues in diameter. This surrounding chios, however, was far from being zolid; ho resembies it to a dense, though floin ntmopplere, composed of strbstances mingled, agitated, and siocked against each other, and in this disorder ho describes the earth to Lave been fust on the eve of the creation.

Hut upon its orbits being then changed, when it whs more regularly whecled round the xum, every thing took its proper plice ; every part of the surrounding floid then fell into a cituntion, in propintion as it wie light or heave - Tho middle or ccotral pant which alrays remuined unchanged, still contiouicd so, retaining a part of that heat which it received in its primeval approaches towards, the sun ; which heat he calculates, mans. mosphere, which served to sustnin tho lighter; as in descending they could not entirely be separated from many watery parts, with which they were intimately mixed, they dreer down a part nlso with them, und theso could not mount again after the surface of the earth was consetidated: they, therefore, surnounded the heavy and central globe. Thas the catire body of the earth is composed internally of this great buruing globe ; next which is placed a heavy terreae substance that encompasses it, roumd which also is circumfused a body of water. On this body of water the crust of the earth on which we inhalit is placod, so that according to dim, of "a number of coats or shells; one within tho other, all of different denfitics. The If dy of the earth boing thus formed, the air, which is dhe lighteit substauce of all, surroundud its surface, and the beams of the sun darting through, produced thit light which, we are tols, first olveyed the Creator's command.

Tho whole aeconomy of the creation being thus adjusted, it only remamed to eccount for the rising and depressions on tho surface of the earth, with the other sceming irregutirtics of its preseni appearance. The hitts and valteys are considered by tim as -formed hy their pressing the intornal tlaid, which sustains the outward sheil of the earth; with greiter or less weight those parts of the earth which are heaviest, sink into the subjacent taits more deeply, and becanc valleys: thoso that are Iightest rise higher upon the carth's surface, and are called mountnins.

Whiston has found the water of the deluge io the tail of a comes, IIc calculates, with great secming precision, tho year, the month, and the day of the week on which this comet (whieh fins paid the earth rome visits since, though at a kinder distance) involved our Globo in its fail. The tail ho supposed to bo a vapourous fluid substance, oxhaled from the body of the comet, by the extremo heat of the sun, and increasing in proportion as it approaclied that great lumigary. It was in this that our globo mas involved at the time of the deluge; and as the carth still acted by its natural attraction, it drew to itself all tho matery vapours that were in the cornets tail ; and the internal waters being at the same time let loose, in a very short space the tops of the highest mountains were laid under the deep.

After 50 many theorics of tho earth, which hed beco published, applauded, answered, and forgotten, M. Buffon ventored to add one more to the number. He begins lis system by making a distinction between the tirst part of it and the last; the one being founded only on conjecture, the other depending entircly upon actual obscrvation. The latter part of this theory may, therefore, be true, though the former should be found erroncous.
"The planels," says he, "and the earth among the number, might have boen formerty (he offers this only as conjecture,) a part of the body of the sum, and adbercat to its sabrance. In this situation, a comet falling in upon that great body might have given it suel a alapck, nud so mhaken the whole frame, that some of its particles might have been driven off like streaming sparkles from red hot iron ; and each of these streams of - Vol I.
fire, amall as they were in comparisom of the sun, might thave been largo endigh to nave made an earth as great, may, many thmes greater than ours. So that in this manner the planets, together with the globe we inhabit, might have been driven off form the sun by an impulsive force; in this manner they would continue to recedo from it for ever, were they not drawn back by its superior power of attraction; and thus by the combination of two metions, they are wheeled round in circles""
" Being in this manner detached at a distance from the looly of the sun, the planets, from being at first glabes of liquid fire, became cool. The earth also having been impelled obliquely forward, received a rotary motion upon its axis at the very instant of its formation, and its motion being greater it the equator, the parts there actiug against the force of gravity, they must have swollen out, and given the earth an oblite, or flatted figare."
"As to its internal substance, our glube baving once belonged to the sum, it continues to be an uniform mass of melted matter, very probably vitrified in its primeval fusion. But its surface is very diferently composed. Having been in the begianing heated to a degree equal to, if not greater, than what comets arc found to sustain, like them, it had an atmosphere of vapours floating round is surfice. These vaporirs, formed, according to their different densities, the eirth, tho water, and the air ; the heavier parts falling first, and the lighter remaining still suspended."

Thus far our philosopher is, at least, as much a systen maker as. Whiton or Durnet, and, indeed, he lights his way, with great perseverance and ingenulty, through a thousand objections that naturally ariso. Having at last got upou the carth, ho supposen himself on firmer ground, and goes forward with greater security. Turning his attention to the present appearance of things upon this globe, ho pronounces from the view that the whole was at first under water. This water he supploses to have been the higher part of its former evaporation, which, whilo the earthy particles sunk downvards by their matural gravity, floated on the"surface, and covered it for a considerable space of time.
"The surface of the earth," says lie, "mant fave been in the begioning much less solid than it is at present, and consequently the same causes, which at this day produce very slight changes, must then, upon so complying a substatice, have had very considerable effects. We bave no reason to doubt but that it was then covered with the waters of the sea ; and that those waters were above the tops of the bighest taountains, since even in such elevated situations we find shells, aud other marine productions, in great abundauce. It appears also, that the sea continued for a considerable tinie on the face of the earth; for as these layers of shells zre found sn very frequent, at such great depths, and in such prodigious quantities, it seems impossiblo for such numbers to have heen supported all ative at the same time, so that thiry must have been brougtt there by successive depositions. There shells also are found in the bodies of the bardest rocks, where they could not have been deposited all at once at the time of the deluge, or at any such instant revolution; since that would be to suppose that gll the roeks in which
thicy aro fouki were at that instant in a state of diesolution, which would be absurd to assert. The sea, therefore, deposited them wherever they are now to be foand, and that by slow and successive degrees."
"It will appoar also, that the sea covered the whole carth, from the appearance of its Jayers, which lying regularly ome ahove the other, seom all to resemble the sediment formed at different times by the ocean. Hence, by tho frregular forec of its waves, and its currena draining its bottoyn into sand banks, mountains must have been gradually formed within this aniversal covering of waters; and these successively raising their beads above its sarfice, must, in time, have formed the lighest ridges of mountains upon land, together with continents, islands * and low grounds, all in their turns. This opinion will receive additional weight by considering that in those purts of the earth. where the power of the ocoan is greatest, the inequalities on the surface of the earth are highest ; for the ocean's power is greatest at the equator, where, in fact, the mountains are higher than nay other part of the world. The sea, thercfore, has produced the principal changes in our earth ; rivers, volcanos, earthquakks, storms, and rain, having innde our stigit altcatfons, and onty ewels as hive affected the globe to a very inconsiderable depth"

A new theory of the earth las been published by Dr. Hatton, which has been applauded, and answered, but has not yet subsisted long enough to be forgotten. He professes to consider the terrestrial system as a fabric crected in wisdom, to obtain a purpose worthy of the power that is apparent in the prodoction of it. A solid body of land could not bave answered the purpose of a habitable world, for a soil is necessary for the growth of plants ; hut a soil is only materials collected from the destruction of the solid land. Thicrefore the surface of this land, inhabited by man, is made by vature to decay, in dissolving from the lard and compact state in which it is found below the soil ; and this soil is necossarily mashyd awray by the continual circulation of the water running from the summits of the mountaing. .Thus he supposes that the land must at last ba entirely destroyed; a misfortume unavoidable from the very constitution of the globe as an liabitable world.
It remains, therefore, to be considerel." whether there be, in the constitution of this world, a reproduttive operation by which a ruined constitution may be again repaired, and a duration and stability procured to the machine considered as capable of sustaining plants and apimals.

- From a view of the present construction and operations of nature, he concludes not only that all the masses of marble or lime-stone are composed of the calcareous matter of marine bodies, but that all the strata of the earth have had their origin at the bottom of the sea, by the colfection of sand and graval, of shiths, of coratines, and crustaccous bodies, and of carths and clays variously mixed, or separated and accumulated. "The general account of cur reasoning"" zays he, " is this, that nine-tenths, perhaps, or ufinetynine hunduedth parts of this earth, so far as wo sce, have been formed by natural operitiolis of the globe in collecting loose materials, and depositing them at the boltom of the eca, consolidating those collections in various degrees, and cither elevating these conso-
lifated mastes abovo the lorel on which they were formed, or lowering the level of the sca."

The agent which be employs in consolidating the strata, in giving thiem stubility, in preparing them for the purpose of the living world, and, lastly, in elevating them from their low situation is matter actuated by extreme lieat, and expanded with amazing force. For the proof of this assertion wre are to look to the mine, and atk the miner whence the metal has come into lis vein. Not from the carth, or aik abovo ; not from the strata which the vein traverses. There is but one place from which these minerals may have come ; and that is the bowels of the earth; the dace of power and expansivas ; the place from whence must have proceeded that intesse lieat , by which loose materials have been consolidated into rocks, as well as that enormous force by which regular strata have been broken and diaplaced. Metals are, therefore, to be considered as the vapours of tho mineral regions condensed occationally in the bowels of the earth.
"We have now been supposing," says Dr. Hutton, " that the beginning of our present earth had been laid in the bottom of the ocean tt the completion of tie former land; but this wath only for the saly of didinetness. The just view is this, that when thic former land of this globe had been complete, so as to begin to waste, and be impaired by the en. croachiment of the sea, the present land began to appear above the surface of the octan. In this manner we suppose a due proportion of land and water to be always preserved upon the surfice of the globe for the purpose of a habitable world, such as we possess."
" We thus allow time and opportunity-for the translation of animals and plants to oectupy the earth. But if the earth on which ,re lire began to appear on the ocean at the time when the lath hegan to le resolved, it could not be fiem the materials of the continent immediately preceding this which we examine, that the present cartif * have been constructed ; for the bottou of the ocean must bave becn filled with matgifils before land could be made to appear above its suvice. Let us suppose that the contioent which is to succeed our present kand is at prosent beginning to appear above the water in the middle of the Paciic ocean ; it must be evident that the materials of this great body, which is formed, and ready to be brought forth, mast bave been collected from the destruction of an carth that docs not"ppw appear. Comsequently, in this true statement of the case, there is necessarily required the dostruction of an animal and ycgetable earth prior to the former land ; and the materials of that earth which is first in our account, must have been collected at the bottom of the ocean, and begun to be concocted for the production of the present earth, when the land immediately preceding the preseat had arrived at its full perfection. This, however, alters nothing with regard to the mature of those operations of the globe; the system is still the same. It only protracts the indefinite space of time in its existence, while if gives us a view of aoother ditinct period of the living world, that is to say, the world we inhabit is composed of the materials, not of that which was the iimmediate predecessor of the present, hut of the earth which, in ascending from the present, we consider as the third, and which had preceded the lind that was above the surffice of the sen, while our present land wns yet bencath the water of the ocean. Here are three distinct successive periods of existenco
mol ench of, shem is, in oar"mensuremetut of time, a thing of indefinite duration, We have ilow got to the end of our reasoning ; we have no data farther to couclude immediately from that which actually is ; hut we have got enough. If the succession of worlds in established in the system of nature, it is in vain to look for any thing higher in the origin of the earth. The result, therefore, of our present inquiry is, that we find no vesitige of a begining, no prospect of an end."

- Ench of these theories is liable to important objections. Those of Barnett and Woodward are formded on a position that has been contrary to fact, namely, that the various substances which are found in the carth are arranged in the order of specific grasity. Whiston ought first to have gfven the theory of his comet, and Buffon that of the sun, before they lad proceoded ko account for the formation of the globe we inhabit ; but though this deficiency should bo overlooked, other difficulties would remain. If the whole suriaco of the earth consisted of chaos of molted minerals, we cannot reasonably think it would have appeared othervise when conl, than the lavas of burning mountains. Though it stould bo granted to Bulfon, that water can dievolve every terrestrial substance whon sitritied by a heat 10,000 times greater than that of our hottest furnaces, as that of the sua must ncecasarily bo; and though the water sloould let fall its sediment Fin what quantities and forms we think proper to imagine, it is, in the opiaion of able judges, fimpossible any of it could be thrown two or three miles above the surface of the water, in order to form those mountains which are to be met with in different parts of the world. If the waters retired into vast caverns, according to another of M. Buffon's suppositions, they must have remained for ever in these caverns, from whence they could not hare returned to affect those wonderful changes he ascribes to them.
".The theory of De. Hutton," says am ingenious writer in the Encyclopedia Britannica, " is of a different mature from the rest ; and as it has been supposed directiy to militate agrinst revelation, merits is very particular consideration. The expresiion, however, with which he concludes his dissertation, that we can find no vestige of a beginning, no prospect of in end, might be supposed to Pelate only to the deficiency of our understanding or mode of inquiry, had he throughout the whole course of his work given a single bint of any tunterials from which jhe world was originally formed. In this he differs most essentialiy from the otlier theorists whom we havo mentioned; for all of them suppose a chas to lave been originally created from whence all the variety of substances we see at present have been formed. Dut as the Doctor makes no mention of any thing prior to a world nearly similar to what we sec just now, we must necesgarily conclude that its eternity is a part of his creed. Now that the world has not been eternal, may be proved from what he himself allows."
"Whenever we percrive a succession, we know that there must of necessity have been a beginnin: : but, according to our author, there lias been a succession of worlds by a kiad of uncouth, generation, similar to what would happen to the human race, if a man was $t$, descend immediately from his grandmother. Proceeding in this way, therefure, we most at last arrive ot one great grandmother of carths ; and of this one a theory
was no less necessary than of hier suceessors. This tifory moild thave beenf the more difficult, as his great eloment, cockle-sbells and ogsters, wrould then hare been abeent ; and the materials from whence they were afterwards to bo produced mutt bave beea sought for."
" Another argument, which evidently sherrs int only that the morld is not eternal, but that some olter porrer besides its owa interfered with it originally, may be taken from the exitienge of animals and vegetalles; fatio of whith our author allows to lave had a place throughout all his worlds. Wo sce, at prescitt, thate animits proceed from nnimals, and vegetables from vegetables ; but the time must have been, when an animal was produced without a parent, and a vegctable Nithout a secti. At thii time the world pust have been influenced by a power very different- from nny it possesses at present; For no such pawer is now to be found in any part of the globie."
" Lastly, the quantity of shells, great as it is, can by no uncans bo recouciled with an eternal soccession of urorlds, or even with thrce: for, according to biim, we must have thrce in order to hare timo hatitable ones ; viz one lying at the bottom of the sea, another wearing avesy, another beginning to emerge Nou he infers thence, that only a fourth part of our land is composed of calcarcous matter, derived from marine animals. But if one of the worlds has continued for a time indefinite, and consequently another beea. at the liottom of the sen, for an equal length of time, it must, instead of having a fourth part of its soil composed of calcarcous matter at the time of its emergence, have been entirely couposed of it, at least if wa can credit what is said concerning thie nature of these animals. Mr. Whitehurst informs is, thint "it is not uncormmon to take aivay a bet of shell-fith several futhoms in thiekness; nnt though the places where they are fished for appear to be entirely exbnusted, yet in the cisuing year there stiall be is muny found in all these places as before." Such an immenso increase nust, in a time itdefinite, especially if repented for an indefninto number of times, have reduced thio whole terraqueous globe to an heap of cockle-stolls, or ohicr substances of that kind" "

Our author is equally unfortunate in"the very first step of tin argument, where he says that the soil is only the materials collected from the destruction of thie solid land. He owns digt all lis carths produced vegetableg; but these nimet havelad a toil wheteoin to grow hefore the first world hand time to be destroyed. We ure, therefore, here in the same dilemma with regard to the soil that wo were before with regard to the vegethbles; and as we are obliged to awn tho interference of a Divine power to produce the first vegetable, so must we also have recourse to the smine power for the production of the soil on which it grew. All these considerations ought to have led the Doctor to a conclusion very dificrent to that which he has drawn, and have showed him that the beginning of the wrorld was occasioned by a power which cannot *possibly be investigated, becume it lies without the bounds of natero itself, and far beyond the reach of our ficultios.
Amoog the opponents of $\mathrm{D}_{\mathrm{r}}$. Hutton, mone have a juster chini to our attentions than Mr. Kirwan, whoso remarka are the result of thio mivst difigent inquiry, anefefford un-

> GEOLOGY.
wubted etidence of extraordinary abilities. With some of tis observations on the Screation, the doluge, and thic subsequcht coavulsions, which have happened to the globe, we,pball conclude the present chapter.

He begins by asserting that the superficica of our globe, "at least to a certain depth, must have eriginatly been in a soft or diquid state. This he infers from the shape it at Kesent extibits, which is that of a spheriod, compressod at the poles. This chacotic Guit being in a liquid stato, must have heen beated at least to 38 , and possibly much Aligher. It also contained tho eight generic earths, all the metallic and somi-metallic substances now known, the various simple saline substances, and the whole tribe of intaurmables, solid and liguid, which are of a simple nature, variously distributed, form oas the whole a more complex menstrugu than ify that has sinco exited, and, consequently, with properties very differont from any with which wo bavo becen struce acquainted. Hench elementary fire, on tho principle of heat, must have been cooval with the crenttion of matter, and the gearral properties of gravitation ; and olectric altrnction may be supposed of equal date, In a fluid constituted like the chaotic, it is evident, from the faws of electric atrraction, that the rarious solids diflused through it must scon bave conteseet in rarions proportions, acecraing to the tans of this sttrmetion, tudt tho proxiavity of tho imgredients ; and cryatallized into differcnt groups which descended to, and were deposited on the solid kernel of the globe.

By the crystallizution of such immenso quantitics of strong masses as took placo at this periol, an inconceivably great dogree of heat must have been generated; the immediato effect of which must have beea un ewormous and universal evaporation, sweeping over the surface of the heated fluit, according to the inequalities of it diffusion, and of the causes that produced it in various tracts. Flame thus burst out of tho doep, aud 4nany volcanic eruptions took place, chiclly in the soutbern hemisphere, which were attendel with important consequences ; tho first of which muat be the diffusion of a considerable licat through the whole nfiss of the chaotic fluid, by which means the oxy gen and mephaitic air dispersed through it, musb have boen extricatel, and thas graduatty formed tho atmosplicre. This was folloned by thic production of fixed air, and the precipitation and crystallization of tho calcarcous carths and other earths which wero sometimes mixed sith it. The immgnto masses concreted and deposited on the intefior kerncl of the errth formed the primitive mountains, while in tho wide intervals of distant mountaing, ofer the first cryetallized masses had been đeposited, the solid particles of the chantic flaid, but too distant from each other's aphere of attraction to contcrete iato crystals, were gradunlly and uniformly doposited, and thes formed plains.

The next important event necersary to fit the globe for the reception of land animats was the diminution and the recess of the chaotic tluid, in whose bosoms tho mountains Were formed, and the consequent disclosure of the dry fand. This was the ennsequence of the preceding volcanos ; by these the bed of the occan was scooped, thost probably, in the southern hemisplere. But no transposition of the solids deposited from the chantic flend could lower into level, uuless the inferior lierael of the globe could receive

[^2]rifts occasioned by the antecedent fires; at first rapidly, but afterwards mo e aloirly, ja proportion as the perpendicular height of the tlaid was diminished, and thus-the eanerged continent, consisting of mountains and plains, was gradually laid bare and dried, and by drying consolidated.

The tracts at first uncovered were those whose ficight over the present sear amoints to 8000 or 9000 feet, comprehending the more elerated parts of Siberia, Tartary, Thibo and China.

The level of the antient ocean being lowered to the beight of 8,500 or $9,000 \mathrm{fce}$, then, and not before, it began to bo pcopied with fish. This is inferred from the fact that fossil shells are never found embodiod in any ugountain at a greater lieight than that which has now been mentioned.

After this elevated tract of the globe had been uncovered, there is no reason to suppose it long remained divested of vegetables, or unpeopled by animals, being in every respect fitted to receive them. The severe degree of cold which at present distresses these countries daring the winter months, is solcly owing to their distances from and elevation over the natural seas, circumstaners that did not exist at that period. The greater part of the particles of solid matter contained in the chaotic loid being deposed before the creation of fish, the various materinls of secondary mountains must have boen furnished either by the destruction of such of the primary as existed in the sea, bot either from want of solidity, or the smallaess of their mass, were too fectice to resist its impetaosity when urged by storms, and being by continued friction, retaced to atoms, were diffised through, or hurried along by the agitation of the waters, or crumbled to pieces by earthquakes, and curiously dispersed through tho ocean; or theso materials were ejected in immense heated masses, by sub-marine volcunos into the bosom of the waves, to be by them farther decomposed.

The various solids thus diffused at different periods of time through the vast body of the ocean, must liave been gradually precipitated aud deposited on such solid masses as resisted thio progressive motion impressed upon the precipitating masses by that tomultuous element ; here they applied to and rested in the low lateral surfaces of many of the most considerable primary mountains as were before destroyed, entombing the shellfish that adhered to, or rested upon these fritguents, and arresting, by their initial softness, the various sunk woods, and such other vegetables or mnimal substances as chanced to be mixed with these precipitating masses, of were subsequently borne upon thein. Trees naturally assumed the situation that least resisted the curreats that conveyed them, and hence the uniformity that has been observed very frequently in their position. There depositions, when doring their descent they obtained a certain degree of density, must have proved fatal to the various species of fish which were involved in them, and bence the origin of the more solid piscine remains at present found in them ; the softer parts being destroyed by putrefaction in this munner, but after long intersals of time the succeeding strata appear to have been formed, but they did not-obtain their present solidity until after the retreat of the sen, and through the operation of varions cogses.

Mr.Kirwan then proceeds to examine the Mosaie account of the creation, which he
paraphrases at some length. We cannot give his remarks entire, but will "exhibit them in such a condensed form that we hope the general import of them may bo well underatood. "In the beginning, God created the heaven and the earth, that is to say, the

- first event in the bistory of this globe was its creation, and that of all the planets then known. And the earth was without form and void, that is to say, that the carth was fartly in a chaotic state, and partly foll of empty cavities. And darkness was on the face of the deep, consequently light did not at first exist. The deep, or abyss, properly denotes an immense degth of water, but here it signifies, as Nudi and Estius observe, the mixed or chaotic mass of earth and water. David, whose knowlodge was derived from Moses, and who probably possessed a less abridged copy of Genesis than we do, expressly kells us that the earth was covered with water : tho abyss, like a garment, was its covering. Hence wesee that the water was from the beginning in a liquid state, and not in that of ice, as I have mentioned, and consequently elementary fire, or the principle of beat, existed from the beginning. And the spirit of God (or rather a spirit of God) moved on the face of the waters ; here spirt denotes an invisible clastic fluid, viz the great evaporation that took place soon after the creation, as soon as the solids -began to crystallize, as I have shewn. Of God, is a well-known Hebrew idiom, denoting great ; moved, or rather hovered orer the waters. David here mentions a fact which he undoubtedly took from Moses, though omitted in our present copies of Genesis, and this part is ceseatial to our theory, namely, that the waters stood above the mountains. Therefore the mountains were formed in the "bosom of the waters, as I have stated. Nay, ho uses an expression that most probably hath hitherto been ill understood, that God fixed the earth on its basis, from which it shall not bo moved for ever. This appear's to me to denote the deposition of the solid kernel of the globe, from whence they sliould never be removed, nor indeed have they over since."
"The production of light stands ntrt in the order of events recorded by Moses, as it does in our theory, and most probably denotes the flatnes of volcanic cruptions ; the Hebrew certainly bears this signification. The period of, its existence Moses called day, evidently from its resemblance to trge days, which pould have exited only at a subsequent period, namely, after the sun bad gained its luminous powers."
"And God said let there be a firmament in the midst of the waters, and let it dividethe water from the waters. Here Moses indicates the production of the atmospliere, the word which in our translation is rendered firmament, most properly signifies ex pause, or an expanded or dilated substance ; than which a more proper name could not surely be chosen for the armospliere. And God said, let the waters under the heavens be gathered together in one place, and let the dry land appear, and it was so. This is the fifth event which Moses places to tho same orver of saccession that mere phitosophical considerations assign to it. The word appear is remarkuble, as it seems to denote that the disclosure pf the earth was successive, and had not from the beginging fully and trampletely taken place."

1. "The event immediately subsequent I omit as not relating io geology, and shall only "mention the creation of fish, a fect of great importance in the theory of the earth ; this VoL, I

Moses, as well as phiflosophy, tells us happened after the separation of the waters from the dry land and prinitive mountains. He also relates that the creation of land aniJaals was subsequent to that of fish ; a fact which geological obscrvations also indicate, for the remains are always found near the surfuce of the earth, whereas those of fish are found at the greatest depths. This order of succession is not only allowed by Buffon( but made one of the principal pillars of his syytem."

Here then we have seven or eight geological facts, relatad by Moses on the one par, and on the other, deduced solely from the mont exact and best verified geological observations, and yet agreeing perfectly with each other, not only in substance, but in the order of their succession, On whichever of these we bestow our confidence, its agreement with the othet demonstrates the truth of that other: But if we bestow our confidence on aeither, then the agreement must be accounted for. If we atternpt this, we shall find the improbability that both accounts are false ; comequently onc tuust be true, and, then, so must also the other.

That such on event as the universal deluge bas actually taken place, Mr. Kirwan attempts to prove by the three following arguments:

1. "It is well known that shells were found in' a mountain, in Peru, at the height. of 14,990 feet. It is already shewn that no mountains higher than 8,500 feet were formedsince the creation of fish, or, in other words, that fish did not exist untit the original ocean had subsided to the height of 8,500 feet above its present level. Therefore the shells found at more elevated stations were left thero by a subsequent inundation. Now, an inundation Hfat reached such heighis could not be partiat, but must have extended over the whole globe."
2. "The bones of elephants and of rhinoceri, and even the entire carcase of a rifinoceros have been found in the lower parts of Siberia. As these animals could not live in so cold a country, they must have been brought ehither by an inundation froin warmer and very "distant 'elimates, betaixt which and Siberia, mountains above 9,000 feet hight intervene. It may be replied that Siberia, as we have already sbewn, was not ofigitally as cold as it is at present ; which is true, for probably its original heat was the same ns that of many islands in the same latitudes at*ihls day, but still it was $t 00$ cold for elephants and rhinoceri, and, betireen the climates which they might bive then inhatited and the places they are now found in, too many mountains to suppose them brought thither by any other means but a goneral inundation. Besides, Siberia must havo attained its present temperature at the time these animals were transported, else they must all have long ago putrified."
3. "Shells, known to belong to shores under climates very distant from each other, are in some places found mixdi promiscoously with each other ; one sort of them, therefore, must have been transported by an inundation; the promiscuous mixture can be accounted for on no other supposition."

To prove the possibility of the deluge, he nas recourse to th catculation of. M1. de la Place, respecting the great depth of the ocean, which we have noticed in a former part of this chapter.

$\int_{10}$The possibility and reality of the deluge being thus established, he next endeavours to trace its origiu, progress, and still permanent consequences. That it originated in, and proceeded from the great southern ocean below the equator, and thenco rushed an the northern hemisphere, lie takes to bu a natural inference from tho following facta :

1. "The southera ocean is the greatest collection of waters on the face of the sobe."
Fg. "In the northern latitudes, beyond $45^{\circ}$ and $50^{\circ}$, we find the "animal spoils of the southern countrics, and the marine exuvio of the southern seas, but in the southern lathades we find no remains of animals, everctables, or shelts belongling to the northern seas, but those only that belong to the neighbouring seas."
2. "The traces of a violent shock or impression from the south, are as yet perceptivle in many countrics."
3. "The very shapie of the continents, which are all sharpened towards tho soutb, where washed by the southern ocean, indicate that so forcible an impression was inade ou them as nothing bat the mountains could resist, as the Cape of Good Hope, Capz Comorin, the southern extremity of New Holland, and that of Patagonia."

- This unparalieled 'revolution, Moses informs us, was introduced by a continual rain for forty days. by this the surfice of the earth must have been loosened to a considerable depth ; its effects may even have been in many instances destructive ; this, in August 1740 , several eminetices trere swept away, nay, the whole mountain of Lidabeare, in the province of Wermeland, in Sweden, was rent asunder by a heavy fall of rain for ouly one night. This loosening and opening of the earth was, in many places where the marine inundation stagnated, an useful operation to the soil subsequently to be formed, as byothese means shells, and other marive exuvios, were introduced into it, and which rendered it mare fertile. By this rain also, the suit water was diluted, and its pernicious effects, both to salt and fresh wator fish, in great measuro prevented. The destruction of animals served the same purposes, and might, in many instances, be necessary to fertilizo a soil prodaced by the decomposition of primary mountains ; from the animals thas destroyed, the phosphoric acid found in many ores may have originited.

Bat the completion of this catastrophe was undoubtedly effected, as Moses also states, by the invasion of the waters of the great abyss, most probably, that immense tract of ocean stretching from the Philippine islands, or rather from the Indian continent on the one side, to Terra Firma on the other, and thence to the southern polo; and again, from Buenos Ayres to New Holland, and thence to the pole.

Beside the desolation which was immediately occavioned by the deluge, Mi Kirwan thinks there were certain subsequent catastrophes of which it was the cause, particularly thio fotal separation of Asia from America, the coarctation of the Battic, the separation of the Caspian from tive Miack sen, and the junction of this with the Mediterranean, and of the Mediterranean whis the osean ; and, lastly, the separation of Ireland from Britaid, and of Britain from the continent. Of cach of these we shall treat more largely
in the succeeding book. Whether Kirwan has not, in some instances, allowed his imagination too extensive a range, and advanced conjectures instead of recording facts, we feel ourselves incompetent to decide ; but when the argaments are weighed by which he supports his positions, he will appear to be much superior to all former geologists, and have a just claim to the most diligent attention.


## GHAPTER $V$ : <br>  metats.

WHEN we consider for how longoa period mankiud have attached a very considerable value to certain of the fossiic productions of the carth, we naturallysuppose that, their progression in mincralogical knowledge has cortainly arrived very nearly at periection. The fict has, however, been quite the reverse. In the earliest times of which we have any account in history, minkind seem to have been of the same turn of thinking as the less calightenod nations of our own age. Satisfiod with such information as casual experience throw in their way, they regarded the occupation of consulting nature by oxperiment is a childish, trifling, and useless amusement, and neglected forming any - thiory whatsoever concerning its operations ; but in succeeding times, the gencralizing spirit of Aristotelic metaphysics extending itself to natural plilosophy, soon suggested the notion of one common matter beiog the substratum of all vegetable, animal, and mineral substances, discriminated ouly by particular forms, which in the two former were beld to be substantial, and in the latter purely accidental. From this, that ungrounded opinion of the transmutation of metals into cach other naturally arose; and to this notion, and some others equally false, the progress of mineralogy, and every branch of ehenistry is undoubtedly owing. To accomplish their favourite purpose, experiments were multiplieal withaut end, and by menns of these the arts of dying pottery; glassmaking, and metallurgy, were insersibly improved. The two last named arts necessarily requirod some knowledge of the chemicab properties of stones and earths. Accordingly wo find that all those that were usefol in the former were called vitrifiable; those that were capnble of burning to lime, calcareous ; and those on which fire could produce neither effect, apyrous. For a fong time these three divisions were thought to comprehend all species of carths and atoncs. The same narrow spirit of referring every thing to what was already known, induced mineralogists to class all metallic substances under some of the species antiently known, denominating all those which discovered any singular properties, wild, rapacious, and arsenical compounds. However, at last happily for science, a few distinguished characters appeared, who, rejecting all hypothetical delusions, determined not only to submit to no other guide brit actual experinent, but also to follow it wherever it led them. Of this truly philosoptio band, Mr. Margraaf of Berlin ted the van, followed by a few others, particularly in Sweden. Disciverias fow maltiplied apace in ahe hands of a Brandt, Swab, Cronsted, Gahn, arnd particularly Mr. Scheole, ,until at last Mr:* Bergman of Upsal, by the solidity oi hit jodgment, the ingeruity and accuracy of bis methods, and the multiplicity of experiments, brought minera.

- Iogy almost to that dogree of perfection at which we at present behold it.

Yol, I
0 o

Minerals, strictly speaking denote ouly, such subatinces as are found in eaines, such as metals, semi-metals, sulphur, and salt; but ia a more extensive sense they denote all fossils that do not belong either to the yogetable or animal kingloms, and conn sequently stones and earths; all of which are comprehended under the denomination of the mineral kingdom. The mineral kingdon is, therefore, usually divided into four' parts or classes, viz. 1. Earth, and stones; \&. Salts; 3. Infemmable subssauces ; 4. Mineral substances. - By earths are commonly understood tasteless, inodorous, dey, brittle, uniaflammable substances, whose specific gravity, compared with that of water, is ant more, than five to one, which have not the mgallic splendour, are scarcely solubtr in water, and give no tinge to borax when moked, with, it. Stones differ fiom earihs waly in lardaess and its consequences, and thercfore are included ander the same generignt dame, Any earthy subtance, whose integral particles naturally cohere with sufficicht force to resist the pquer of gravity, while one part of them only is supported, and cannot be separated by mere scraping with the nail, is called a stone; when they may be separated by the nait, but not by an inferior force, they may be called indarnted cearths, fut this boing the limit, substances that thus cohere are also frequently denomipated from either extreme, being, sometimes called earths, and sopretimes stones, Siaple. earths are those which possess permanent distinct characters, are incapable of being furen ther analyzed, or chapged, one into another by any means bitherto knoun. All stones and earths consist of these cither singly or mixed, or chemically united with each other it various proportions together with saline, inflammable, and metallie substances; for in the earth they are seldom foand pure.

Of these simple earths cight are now discovered, the calcareous, or carlh of lime, the argillaceous, or earth of clay, the siliceous, or earth of gint, the barytes, or pondenite earth, the magoesian, or muriatic carth, the strontian, the jargonic and adamantine earths.

Beside these, certain have been discovered, or supposed to be discoveries, but as wR wish to admit into this brief abstract of mineralogy but those whose existence have been eloarly ascernained, we shall only record their discovery in mother part of this worlss Tho calcarcous, ponderous, magnosian , and argillaceous sarths bcing combinable with alf acids, may be called absorbent earths, in contrafintinction; to the siliceous, which ynites only to the sparry acid, Again, one of the generat characters of argilinceons carth is the extreme subtility and fineness of its integrant parts, which render it smooth to the touch, and slowly separable from wator when diffused through it, also a certain viscidity and ductility which proceed from its pawer of retaining water, and of these propertics magnesia partakes also, though in a-less degre. Siliccous earths, on, the contrary, are clisracterised by rougfiness, hardness, sharpness to the touch, and a total. want of ficxibility and adaerepce to each other when minutely divided, and a ready sephration from water; of these propertics calcareous, ponderous, earths participate, though is a less degree.
Calcareous earth, when perfectly pure, constitutes lime, its specific gravity is pearls: thrsetimes that of water, it has a bot burning taste, acts powerfflly on nninal sube .

## MINERALOGY.

glinces, and when' in lamps, lients with a moderate quantity of water. In the termpermtore of $60^{\circ}$ it requires six hundred and eighty times its weight of water to dissolve it ; is taste is ther pingent, urioous, yet swectish. It is infusible by itself in a beat that would melt iron, but if mixed with argilluceous or siliceous earths, it will melt in a more indoderatd heat.

* Caleareons earth," says Dr. Gregory, "is sometimes found in the form of powdere but miore frequently in that of a concrete substance called chalk, which' differs with respect to thie fineness of its particles, and firmness of texture,"

1. Tr Ohalk consists of catcareods eavel or lime, united with carbonic acid, and an udioil of the same priaciples also constitutes limeitone and marble. These substances odly aiffol from common chalk in their degree of purity, or in the manner of their ag? gregution, admitting of more or less polish. The different coloured veins in marble are produced by the admixture of other-substances (most commonly iron,) unequally distributted tlirough the finass, ${ }^{\text {n }}$.
N. WStrati of marie aho contain calcareous earth, more or lets blended with a consin derable proportion of clay and sand,"
-. 5. 4 Culcarcous earth is often found projecting into the interstices and crevices of rocks in a crystalized state, ahd is then called calcarcous spar. It is more or less transpartit, and shivers into flat fragments of a rhomboidal figure. Of these calcarcoos spars there are many varieties ${ }^{\text {P! }}$
2. "Citcarcous eartirappears in thic form of anhinal and vegetable substances, petrified into stone by being exposed to petrifying waters."
3. "The shelts of crustriceous animats, from the coarsest to the pearl which lines the shelf of the oyster, dre all made up of this cateareous carth. United with a small quan. tity of animal gluten, it gives origin to the shells of all crustaceous animals, to egcs-shells, and to those marine bodies, which, from their hardness and vegetable appearance, are called stong plants, suck as all the species of cork, \&c."
4. " If vitriolic acid is poured on chalk, the carbonic acid is expelled, while the vitriotle unites with the cateareoos earth, and constitutes gypsum, or plaister of Paris, This exists io considerable quantities in nature, and is divided into several species. To soine of these are referred alabaster, Muscovy glass, and selenite."
5. W Calcareobs earth is also found saturated with muriatic acid in sea-water, and in sate-pits."
6. "Calcareoas earth, united with the fluoric acid, forms the fasible spar or fluor," which is commonly known by the name of Derbyshire spar."
7. "Calcareous earth is found saturated with a particular-2cid, perhags of the metallic kind, it forms the Tungstein of the Swedes."

T0. ${ }^{\prime \prime}$ Calcarcous eartil is also found united with thireo of the metats, irom, copper, anid lead'; and forms by such union mountain blue, Armenian stone, turquoise, malat chites, stullystein, and several other varivties"
Me. Whiteturst explatns, in the following manner, the formation of sparry and statactitical productions. "When water, impregnated with the sparry acid, procecds
sfouly tlirough different htrath of earths and minerals, it becomes cliarged with a varicty of these subithices 'in' solfation; and as it exiudes grailunily on the surfage of caverns and fissures, the aqucotis particles evoporite, nod the sparry matter crystalizes in various forms, incloding in its own substance the heterogeneous matters with which it is chargod. If the quantity of water thus impregnated, which exudes through the pores of the carth or stone, is not more than will casily evaporate in the prtlinary heat of the atmosphere, a sparry crust is formed. If the quantity of wateri exuded excoeds the quantity cyaporated, stalactites are produced in one instance, and tubes in another. If a drop of water laings from the roof, almost dropping the aqueous particles evaporate from the surfice soorier than from its interior partsin $-\hat{A}$ cryatalization, therefore, takes place on the-surface, while the centre remains floid: the water thus detaiugd is conti-n. nually inctiosing, and the tube gradually extends, downwards. By this process, tubes are frequently formed of two feot in length, and one-tenth of an inch in diameter. The appeararce of caverns, ornamented with these splendid productions, exceeds that of the most laboured works of art: transparent columns, adorned with the most beautiful and vivid colours, disposed sometimes in the form of a honcy-comb, sometimes in a pores irregolar arrangement; mirrors, reflecting the images of ohjects, tinged with a lighs shade of the miost delicate colours, ravish the eve of the beholder. Whe pillars, appear, of various forms and sizes ; sometimes arranged like a regular colonnade, and sometimes disposed with all the delightful irregularity of nature. The stalactites hang like icicles from the lofty roofs of these stupendous caverns, and are reffected back by the polislied. and glittering floors."
The many instances in which marine remains have been found in marl, marble, limestonc, and others of this genus, have inclined some geologists, as, Buffon, and, of tate, Dr. Hutton, to exclude calcarcous earth from the number of the primeyals, asserting the masses of it we at present behold to proceed from shell-fish. "But, in addition," says Mr. Kirwan, " to the unfounded supposition that shell-fish, or any, apimals, possess the power of prodgeing any simple earth, these philosopliers should have cousidered, that before the existeuce of any fish the stony masses that ioclose the bason of the ocean must have existed, and among these there is none in which calcareous euth is not found."
Argillaceous earth does not exceed the specific gravity of water in a greater proportion than that of two to one. It is exceedingly diffusible, but is not, without great difo ficulty, dissolved in water. The strongest will pot render it caustic, nor mels it. unlesy it be mixed with calcareous earth. It is one of those substances which abound mosh in nature. There are immense struta of clays, and they make a jart of every rich soil. The idea commonly entertained of clay, is that of a natoral substunce, the purest kinds of which ore firm, and have a sort of fitness or unctuosity, and which by being rubber by the finger, receive a polith When dry they imbibe moisture, to thaf when ppplied to the tongue, it adberes to them. From their attraction for water. thoy are always found moist in a natural 'state.' If thore water' be added, they form a ductile pasts, which, when thoroughly burnt and dried, becomes hard, stony, and iopenefrable to wes
ter. On the regolan contraction whith elity untergeos frem the application of diflement deggtees of heat, depends the ponstruction of a thermometer for measuring intense degrens of lient, invented-lyhate- Mhedgovoind Clay uilted with the vitriolic ucid, forins that well known shid useful sulistance alum.
The urgillaceno fquetis ate fefarred to tlic following beads :
 fore tlibught to dcriote a very fine species of calcarecos earth, till Mr. Screbien has lately shewn that the elirth to whteli this hame is given, is is very uncommon species of argilla. It 'is generally found in/shall" cakes of thic bordness of chalk, and, likd that, it marks white. Wheti examined with a microscope, it is found to consist of small trasparent orystalsiscelair clay, aryilh apyra, the koolin of the Chinese. This is very refractory, and is inth skat difficolty brought into purfect fasion. After it has been submitted to thenetion of liear, it is of ivsolid texture, and is to bard as to strike fire with steel. Comimorr pipe-cluy belongs to this division, and differs from poreclain clay only io being iteor pirre, whictr prevents its barning to a good colour:
3. Lhfiliminga, or stune tulrow, when dry, feets as slippery as soag, but is liot whiolly ditfosible in water. When mixed with water, it falls in jieces so as to assume the eppearance of curds. In the fire it melts into a frothy slag. In tha hass it breaks into irregular scaly pieces. This is the foller's earth used in the dressing of cothis. To this apecies also belongs the terra lemnia; this is of a brownish colour and shining texture, and falls to pieces in water with a crackling noise. To this-species belongs the Turkish carth, so called from its receiving the impression of the Grand Seignior's seal.
4. Bole is a fine and dense clay of various colours, containing a large quantity of iron. It is not easily softened in water when indurated, as the porcelaia and comwon clays but either falls to pieces in the form of fine grains, or repels the whater, and oailnot be made ductile, In the fire it groys black, and is then attractod by the londstone: The soft boles are of various colours, ns red, yellow, green, grey, ind blueish grey. The red kind is that usod in medicine, under the name of Armenian bole;' an indurnted kind of which affords the material for red pencils. An indurated bole is frequently found in coal-pits, between tho serms of coal, and is called conl-slate. It is met with frequeptly in pieces like nuts, of various sizes; which, when broken, exhibit inpressions of plants. Another species of bole is by the Swedes called horublende.
5. Zeolite, is in general of a crystaltine form, composed of imperfect pyramids, turned towards a common centre. The tapis lazall belongs to the zeolites.
46. Tripoli, is an earth consisting of very fine particles, and is known by its quality of mobing or wearing hard bodies, which gives them a polish. Another variety of this is called rotten-stone.
7. Common or brick clay is found of varions colours, as red, pule red, grey, and blue. It ecquires a red colour, more or less deep, in the fire, aod melts pretty easily into a greenish glass. It consists ofoa mixture of pure clay, siliccous and martial (or iron) eartha containing also a small quantity of vitriolic acid.

- Vol. 1.

8. Argilaceous fossil stones, to which the denomination of subistil properly belongs. The most remarkable stones compretiended under this division, are the bluishoparple schistus, or common robf slate ; the pyritactous schistis; the bituminous schistus ; the argillaceous grit, which is also called sand-stone, and freesstone; the killas; the'flagstone, and the toad-stone--Siliceous earthis are chiefly distinguished by their prirdness, by which they strike fire with steel, and their property of farming good glass with alkali. They miny be divided into, 1. Gems, or precious stones ; \&. Quartz; 3. Flints ; Abrakpers; 5. Feldt-spars.
9. Gers. 1. The diamond is the hardest of all bodiesm Its apecific gravity is to that of water nearly as seveh to two, benco it refracts the rays of, light very powerfolly ; but it possesses this power even in a mueli greate? degree than might be aupposed finnu its density, and bense proceeds its singular brilliancy. The diatnond, properly so called, is colourless ; but it also retains this name when it is slightly tinged either with red or yellow, it is, therefore, not the colour of the stone, bot its hardness and Justre, which obtain it the denomination of a diamond.
\&. The ruby has been confounded with the diamond, ou account of its, hardnessiand Instre, but some late experiments shew that it is essentially different.
10. The sapphire is transparent, and of a blue colour, and is said to be next to the diamond in hiardness. They are sometines of a milky appearance. dopar shel ghal. .t. $^{*}$
11. The topaz is chiefly of different shades of yellow, but is sometimes greenish. Wh. Wheh of a sea-green colour it is called aqua-marine; when more green, the beryl; when yeld Towish grees, the clirysolite.
12. Emerald, the clief colour of which is green, is the isoftest of the precious stones, and when heated, is pliosphorescent like the fluors.
13. The jacinth is of a fine reddish yellow, colour, and sometimes brown, they are formed in prisins, pointed at both ends.
14. The amethyst is a gem of a violet colour, of great brilliancy, and as hand as the best kinds of rubies and sapphires, from which it only differs in its colour. When it approaches to the purple, or rose colour, it is tiore esteemed than when it inclines to the blue.
15. The garnet, when transparent, /f and of, a fine colour, is reckoned amiong the gems; but it varies more than any, both with respect to its form and colour, some being of a deep and dark red, somie yellow and purple, and some brown, blackish, and quite opaque.
16. The tourmalin has lately been brought much into notice by its remarkable pro perty of becoming electrical, in consequence of the simple application of heat The oriental tourmalins are found in the island of Ceylon : are of a dark brown yellow. From Brazil they are, for the most part green ; but there are also somel red, blue, and yellow. From Tyrol they are obtained of so dark a green as to appear opaque.
17. The opat is as most besitifut stone, from the changeable appearance of its coDours by refraction and reflection. There are two kinds; one of which, the opal of Nennius, appicars olive coloured by reffection, and then appears to be opaque; but whens

Held agaiast the light, it is found to be transparent, and of a deep red coloar. The white opal of a glass-like complexion, throws out green, yellow, purple, and bluish rays; but it is of a reddish, or rather flame-colour, when held against the light.
TIL Quants has less transparency and hardness than the precious stones. The fractare of quartsose itone is vitreous, or like glars, and they strike fire with stect. No very remarkable stones belong to this genus. The warieties are fat quarts, which is very glossy: it is either coloarless, or is tinged with white, blue, or violet. Dry quartz. transparent, white, or pale green. Sparry quartz, pale yellow, or pale blue. Crystalized quartz is either opaque or transparent: the transparent and dark-brown kind, is called saioky topaz; the yellow, blue, green, and red, false gens; and the colourless, rock orystals ; when milky, milk erystah, and pebbles, Quartz is also found combined with iron and copper; with the former it constitutes a black calx, with the latter a red calx. in ins -
Itill. Firsisare more aniformly solid, and not so much cracked in the raxss, as quartz; and wre more pellucid than jasper. The several varicties of flints have obtained more diatinet names, from the variety of their colours, than from any real difference in their substance; but these are still proper to be retained, as the only names by which jesrellers and others are used to distinguish them.
-1. Jade, lapis nephritieus:s This stone feels unctuous to the touch, but is so hard as to strike fire with steel, and is also seini-pellucid,
4.2. The cat's eye is a very scarce, stone. It is opaque, and refects green and yollow rays, in a manner somewhat similer to the eye of the animal from which its name is derived, It is found in Siberia.
3. The hydrophanes, or oeulus mundi. The character which distinguishes this from all other stones is its property of becoming transparent in consequence of being immersed in water. This happens from its imbibing that fluid, as it becomes again opaque by being dried.
Ai i. 4 . Moon-stone, or rainbow-stone, réflects light of pearl and carnation colours, its fracture is soliated, and its colour pale blue, and milky,
5. Chalcedony, or white agate. This stone is usually cut with a convex surface, and receives a good polish. Its degree of hardness is intermediate, between that of the onyz and true agnte. It is semi-transparent, and its colour is usually very similar to that of anilk diluted with water.
6. The onyx is the hardest of fints, its usual colour is that of the human nails, it is either marked with white lines only, or with black and white together. Heat deprives it of colour, and, if suddenly applied, craeks it,
2. 7. The carnelion derives its name from its resemblance to the colour of fiesh. It is either quite red, or of different shades of red, with brown and ycllow.
8. The sardonyx is a mixture of the chalcedony and carnelion, sometimes disposnd -in strata, and sometimes confusedly blepded and mixed together. Its colours are, therefore, a mixture of white and red, sometimes in stripes, sometimes irregularly notched. an 9: Agate: This name is given to flints that are variegated with different colours pre-
miscuously blended together, and they are estecmed in progorlion to the mixiure and perfection of their colours.
10. Common fint, or pebble, is in reality of the sanie nature with agate, but wanting the beautiful and varions cellours of the sobntances that bear that namezs Clialk hind White lime-stone are ustully the matrices of flints, in ubich they are inibedded, iu the form of nodules, consisting of nuclel involved in a crast.
11. Chert is less hard and trinsparent than the common flint. It is not, in general, found in loose and single itregular nodules, but forms veins in troeks: Clierts are found of a fiest colour, white, pale yeltow, and greenish, and" seetin to ber of in intermediate, matore, between the flints and jaspers, Sand and gravel may wo considered as thinty matters, torn away from the rocks in whicy thet originally exiited, and nfterwarda wortn und smoothed by the attrition occasioned by the motion of water. Sand and gravel, however, consist of all the variety of stony mitters which existed in the masses fruin which they procecded, and are therefore found of many different solous and properties.
IV. The uame of Jaspers is given te all the opaque siliceous stopes, which in their texture resemble dried clay. The principal circuimstance, besides their eppeohance, which distinguishes them from the other silicenus order, is theik more easily melting in the fire. They in general contain much iron. They are very hard, and admit ad good polish; and they are variegated with different colours. They aro seldom tranged itw strate, but form considerable tmasses and veins in rocks. They are also found in small round masses. The principal species of jasper are the following sthe white, grey, yellow, red, brown, green, veined, spotted, flowered, and green with red points, or bloodt stone. Toys, and more especially cupis and saucers, are made of jasper. Many/antique sculptures are in stones of this nature.
$V$. The most common kiad of Fxidy-span is formed of rhombic lamine, and tias therefore obtained the name of rhombic quartz. It givcs fire with steel, whence it hins been called spatham scintillans. It is harder than the schisti, and is fusible. It is found in loose masses, two inches long, or mixed with sand, chay, $\& \mathrm{c}$, on bedded in granite. It is used in making china at Dresden. Its colours are white, red, brown, palel yellow, or greenish.

The Labrador-stone is generally clasked with the feltospors: It admits of a very fine polish, and when in that state, refiects a variety of beautiful colours. The stone itself is of different shades of groy.

V1. SHinL or cockis of different sbades of green ; and the various species of whet-stumes, are also commonly referred to the siliceous ordeny though the latter aro generally in some ineasure compound.

Baryten or ponderous carth is a substance, but thinly seattered : it nuch resembles dium, but its textare is striated, its specific gravity is more than four times greater than that of water. It was discovered in Sweden in 17\%\%, but liath not yet been found pure. It is found in two states, combined either with the carbonic er vitriolic acids:

1. When united with the former acid it resembles atum, bus is hard and striated, as

## MINERALOGY.

Nif complased of radiating fibres coming from a centre. It is sometimes of a greetish colour; sometimes fuigged, when it is called cristratum, from its resemblance to a cock's comby These prominences are found accreted to balls of the same substance.
8. 2. Ponderous earth is more frequently united with vitriolic acid. These stones are found of vartous appearances, pale yellow, bleckish, with coarse scales, or with fine spariding scales. They are cither transparent or opaque. The transparent ponderous spar is usually in the form of a six sided very flat prism, ending in a four sided pyramid; Sut like all other crystals, liabid to bo varied by the circumstances atteading their forma-

* tion. The opraque specimenis, called cawk by the miners, are of a white, grey; or fawa colour; frequently of no regular figure, "but often in the peculiar figure of a number of small convex lenses united together: These varieties are all remarkably heavy, in geferal exceading four times the weight of water, and by this the presence of barytes may commonly be discovered. These stones composed of vitriolic acid and barytes may be known by their sinelling like liver of sulphor when rubbed. From this property they are called lapis hepaticus, and leberstein (liver-stone) by the Germans.

Magnesia is a white, loose, and lighter earth, only known since the beginning of this century; it is geperally found combined with other heterogeneous substances, as other simple earths are. The stoues usually treated of under this head cousist of mugnesis anited with flint; but the latter usually predominates. Most of them are soapy to the touct, and so soft that they may be cut into various utensils. Of these the following are the most remarkable:
1/ Stentites, lipis orilla, or soap rock, is of various colours, but chieffy different shades of green. It does not become ductile in water, and is fused with difficulty.
2. Smertis, or French chalk, is found pretty plentifally in Cornwall. Its colour is either white, yellow, or red and white; some specimens have the appearance of Castile Isoup.
3. Serpentine stone is of different shades of green. The structure of this stone is fibrous, and it might therefore be confounded *with another cartby matter, called asbestos, if its fibres did not adbere so closely together, as to escape observation, when the stone is cut and polished. Of the serpentine stone are many varieties, and it is found spotted or streaked with a great diversity of colouts.
4. Micaceous earths, or talks, may be defined eartly or stony bodies, the texture and composition of which consist of their flexible particles, divisible into plates or leaves, having a shining surface. These plates, by being exposed to heat, separate into smaller ones, but their flexibility is much diminished. By a strong heat they curl or crumiple, but it is very difficult to reduce them to perfect fusion without addition. The plates of mica, when of the purest kind, are transparent, and there is one variety, the plates of which, from their near resemblance to glass, are called Muscovy glass. Miens, how-- ever, are often tinged with a variety of colours, or are tmore or less opaque. Sometimes they have a lustre resembling that of metallic substances.
15. The-asbestos, or amianthus, is a fossil agreeing with talk, in laving a regular structure, in being flexible, but differing in teing composed of fibres instead of plates. When - Vol. 1.
long expesed to air, it dissolves into a sort of downy matter, which has spme degree - of soughness, but the fibres of which cannot be inravelled. Cloth and pajer have been made of this substance, which resist the fire. Asbestos, however, though unessuitable ly common fires, bas submitted to the power of strong burning mirrors, and has undergone vitrification. The autients are said to have inanufactured cloths of this fossit, in shich they wrapt their dead when they burned thens, that the ashes might bo frestryedSeveral aioderns hive succeeded in thaking this cloth ; the chief contrivances which are necessary are to mix the mineral fibres with a large propertion of flax, and to use ofl freely; these matters are nfterwards consumed by exposing the choth to a red beat. Although the cloth of asbestos, wheo soiled, is restared to its whiteness by burning yet it loses some part of its weight, as has been ascertained by accurate experibuents The parieties of this curious genus of fossish, are mountain leatber or corksi mountaip fox, to which the name of amianthus is particularly applied ; common or unripe mbentos, and mountain wood. These substances all consist nearly of the same comfoncnit parts and differ chiefly in colour, solidity, or in the form and diroction of their fibres. Spuie specimens of the amianthus are so light as to float in water.
When the fibres are parallel, it is called mounkio leatier; when twisted, mountay cork.
3 About the year 1787, a minoral was bronght to Eilinburgh, by a dealer in fossilo from the ied mine of Strontian, in Argyleshire, where it is found imbedilec in the ore mixed-with several other substances. It is sometimes transparent and colouries, byt generally has a tinge of gellow or greep. Its specific gravity is more than three times greater than that of water. Its texture is generally fibrous; and sometimes it is found crystallized in slender prismatic columns of various lengths. It consists of carbouic acid cambined with a peculiar earth, to which Dr. Hope gave the name of stroftites It is also called Scottish earth. It is of a whitish colour, and has an acrid pungent tasten: When pounded in a tiortar, the ponder that-riaes is offensive to ihe nostrils and Jungs, It does not, bowever, appear to be possesed of any poisonous qualities. When atrontites is thrown into water, it attraces it with a hissiog noisc, much beat is produces, and it falls into powder much more rapidls than lime.

Jargonic earth is found in the jargon, a precious stone, imported from Ceylon. Is bas a strong resemblance to argillaceous earth. Is colour is white, and its specithe gravity four times that of water.
27. There is a stone found in China, and in the East Indies, near Bomhay, wheh, from its hardncss, has been called adamantine spar. It is composed of two parts : argillaceous earth, and one part of a peculiar earth which is called adamanta. It differa from siliceous earth in being fusible when mixed with potash or soda. It is three times beavier than water.

1. Beside these eight orders of earth, there are several compound stones, which are composed of two, three, or four different kinds of stony matter. Among these nre numbered breccies, porphyry, granite, and several varieties of marble. "We bave liere. a proper place to treat of volcapic productions, of which the following are most remarkable:
2. I. Lavis is of very various apprearance, ficcorfing to its composition, and its more or less perfect viltification. The materials of which lavas coasist, are the common subatances to be found every where in the earth, namely, tones, metallic ores, clay, sand, kee. ; and as therc in room for great variety in the combinations of these substances, the mielted uiasses formed by them must, in different circumitainces, be very various. Mr. Kirvan divides lavas into tifree kinds, tho celtular, the compact, and the vitreous. All Javas are môe or less magnetic, give fire with steel, are of a granular texture, and melt without the nuddition of other sabstances. The celfular levas are such as have undergone only the fint and lowest degrec of fosfon, being just softened and heated sufficieatly to expel the fixed air contained in the mattes from whici they are formed, which seems to be argillaceons slate; hence they abound in small cavities occasioned by the expansion of that air. The specific gravity of some lavas from these cavitios is so small, that they flout fer some time on whater. From this circumstance they have sometimes beea mistaken for pomice stone; but they differ from it, becaase their textore is never filamentous. The perfectly vitrified lavas must have been exposed to an immense heat, as they are with great difficuity fused without addition. The beds of lava are deepest and nafrowest near the crater, und broador and shallower as they advance, unfess some val ley intervenes. Pumicestones lie atw still greater distance; " and from these obscrvatious," says Mr. Kirwan, " extinguished volcisnos may be traced." The quantities of matter thrown out of volcanos at one eruption, are often so great, as to cover a space of country of many miffes, and to be many years in cooling.
3. I) Posrrce stone seems to be rather a volcanic ejection than a volcanic product. Its colouss are grey, white, and reddish brown, It is hard, rough, porouk, consists of stender fibres, parallel to each other, is very light, and with difficulty gives fire with stech. It seemis to have bech orifinally an asbestos, docouposed by the action of fire.
4. Babaimss is a stone of a dark grey colour, covered with a ferrugineous cruat, auil geaerally erystallized in opaque, triangular, or polyangular columns. When it is not of i regular formi, and breaks into large, thick, square pieces, it is called trapp.
IV Tritis Puzzotava, or Terras, is a volcanic production, of a grey, brown, yeilowish, or blackish cotour, loose, granglar, or dusty and rough, porous and spongy, resembligg elay thardened in the fire, and then redaced to a gross powder. Its most distinguisting property 15, that when nibixed yith about one-third of its weight of lime and water, it hardens very suddenly, and forms a eement which is more durable in water than any other.
*Hy the name of salts those mineral bodies are called which can be dissolved in water, and give it a taste, and which liave the power, at least when they are mixed with one hnother, to form new bodies, of a solid and angular shape, when the water in which they are dissolved is diminisfied fo a less quantity than is requisite to keep them in sofution. This quality is called crystallization.
Salis are cittier simple or compound. Simple salts are distinguished into alkalies and acids ; and from the union of an acid and an alkali, are produced compound salts, which - are also called neutril, because by this combination the charncteristic propertios both

## MINERALOGY:TI:

of the atiod and alkali, are lost, and a new body is formed, which is extremely inct, it tomparison with the two substances of which it is cempused. Seyeral of the carths, and some of the metals, are also capable of being united with acids, and the compound fornus a salt more or less perfect. They have, thercfore, been divided into six followiog ordera : 1. Acid salte; ; e. Alkalino mineral salts ; 9. Neutral salts ; 4. Earthy neutrel saits ; 5. Metalline neutral salto ; 6. Triple neutral salts,

- Acibs aro wery active substances, and when concentrated, are bighly corrosive. Thiey have so generala tendency to unito with other substances, that they are never obr? tained pure except by art. They are generally fluid, which scems, bowever, chiofly to be owing to their strong attraction for wates of "whieh few of them can be entirely deprived, and which they copisusly attract from the atmosphere. One of the marks by which the presence of uncombined acids may be ascertained, is their propettyeof changt ing to a red, the blue colour of infusion of violets, which alkelis change, to a green, The acids found in the mineral kinglom, are the carbonic acid or fixed air, the vitriolics the nitrous, the muriatic, the acid of spar, the acid of borax, the acid of phosphorus, and the the acid of amben. The carbonic acid has already been treated of under the head of gasses. The vitrinlic acid takes its name from vitriol or copperas, from which it was formerly extrected by distillation. In the new chemical nomenclature it is with mucli miore propricty called the acid of sulphur, as it is now found to be a combination of that inflammuble substance with oxygen. The nitrous acid is a fuid of considerable weight, but does not admit of so much concentration as the vitriolic Ir its most perfect form it is quite transparent and colourless, but in its ordisary state it is of an orange tasny colour; and when exposed to the sir it constantly emits orange-coloured fumes, which are noxious. The muriatic acid, in its ordinary state, is a yellovish-coloured fluid, and eqits fumes which do not give the air a red tinge like the nitrous acid, but produces an appearance of mist. These fumes are noxiops to the lungs, and smell like burring 300t. The sparry, or thoor acid, was discovered by Mr. Scheele, and takes its pame from the substance from which it is obtained, and which is commooly known in England ander the mame of Derbyshire egar. This acid, wheo pure, assumes the form of gas. Io this state it is heavier than atrmaspheric ưn, extinguisties flame, and destroys animal life; it has a penetrating smell, liko that of marine acid, but more powerful; and its causticity is such, that it almost instantly corrodes the skin. If borax is dissolved to saturation in boiling water, and the vitriolic acid added io such quantity as to be perceptibly in excess, a substance will rise to the surface of the water in the form of white scales, which is proved to be a peculiar acid. It unites with ponderots earth, magresis, lime, and altalis, and forms with these substances salioe compounds. The phesphoric acid abounds in the animal kingdom, and is not menfequent in the vegetable and-mineral. In this last it is found united with leud and foon, as well as with calcareous earth. The acid of amber is obtained from the sabatance of that antioe, hy the simple spplication of beat. It possemes the qualities of an acith ith a very small degree, and as oaly affects the blue vegetable colour very slighitly.
Alkalis are of three kinde 1. Minerat fired alkali, solls, or natiop, is, the salt which.
is found recorded in antient fistury under the name of कitre. It is said to be found tir Egypt in tolorably pure erystals, and also in Persis, where it appears in a fotm re: sembring that of boar frust. Eveh in Burope it is found in wall quantities in uinergh springs, and also on the surface of new walls, in the form of a damp and dewy efflorescence. In a comporind state it is found in abundance; it unakes half the weight of commoo salt, and is also occasionaliy found naturally combined with other acids. Alkulis a.ee either tuild or catistie; thic farter is thirir most simple state, as whem mild they are united with the earbonic acid, with-which they form a kind of nentral salt. Though the carbonic acid has less affinity with the gllailis than any other acid, yet it is difficult to separate it entirely : the usual method, of aecomplishing it is to dissolve the mild alkalk in water, to add to this solation some quick limie, and then to filtrate the liquor, and evaporate it "in closed vessels : the saline substance left after evaporation, is an alkali almost entirels deprived of, earbonic acid.

2. The vegetable fixed alkali, potast, or kiti, agrees in several circumstances with the former; it is acid when applied to the tongue ; requires as great a degree of heat to melt it ;-vod in a very strongheat flies off totally in vapour. It differs from the fossil alhuli in. baving $n$ much stronger attraction for water.
3. Thie volatile alkali or amtronia is seldom or never found in a siapple state. It is met with in niture only compounded with other bodies, in nitrous ammoniac, or in coul-f mon sal aimmoniae, which is sometimes found in the neighbourhood of voleanos, or coal-mines which have been burnt for a loug time. The volatile alkali of commeree is chiefly produced from biones. The neutral satls may be divided into several classes necording to the different acids and alkalis that are conitined in their formation. The vitriolic selts are glauber salt, and vitriblated tartar.

The former of these neusral salts is composed of the vitriplic acid, combined with theis minernal alkali; and the latter of the same acid with the vegetable alkali. They havel both a salline bitterniess The solation of glauber, salt forms into columnary crystals, which bave generally aix sides, four priacipal, and two which seem to be accidentul. Vitriolated tartar is distinguished from giauber salt by a less degree of fisibility. The vitriolic acid combined with the volatile alkali is called ammonizeal vitriol, of sulphat of mmmonia. When anumoviacal vitriol is yery pure it bas tbe form of veedles, which are foind to be flatted prisms of six sides. The whole figure of the ergstallization is hovever, subject to considerable varieties, as this salt is sometimes in the form of quadrangular prisms, and sometimes obtained in very thin plates.
The nitrous salta are common nitre, cubic nite, and nitrous ammoniac, Thes crystals of common nitre are more régular than those of any other salf, (heing priams of asix. siden) having very litte water in their composition, and therefore not liable to spontads neous evaporation. Common salt is a combination of the maintic acid and the minerale fixed alkali. This is thg most useful of all the saline boties; for though there are someg which reast putrefaction as well, yet there is none which is so fijendly, and agreeatle to. the human stomach. Earthy neutral salts are combinations of acids and earthsc severals of yubich bise been mentioned in the description of carths. Metalline nrutralisales ire: Vol. 1. B. 5
similar combinations of acidsland metile To these ane ireferred vitriol of copper, mu2 riatic copper, mairtial vitriol, conted iroir, vitriol of zinc, and several others. Tripte salts are, es the name iniplics, combinations of tiree ingredients. Such is vitriol of cops per with iron.
-The thind class of ninieral zabsfances are denomiakted inflammables, from the clange which takes place in their texture when exposed to the action of fire. In ordinaty tant guage, nu bodies are said to be mflarnmable but such as abirn ersily, or which, 3 th other words, aich copable of diseriguging the matter of heat from vital air ir the diloted state in which it'exists in the atmoplitre. In a mare strict sepse; however, the property of inflammability belongs to other boities, thoughe they possess it in a less emineat dogreep as to zinc, which, when made extremely hot, Luros with a dazzling white light; hind :s iron, which, when heated to a proper degree, burns in pure oxygenoas gas,

The following are the principal substances which are named inflammable, as possessing the property in a remarkable degree:
d. Hydrogen.
2. 1tepatic air, coinceraing both of withth we have already treated.
3. Plumbago, or black lead, is frequeatly confounded ivith mobybdenunt, the appearance of which is nearly the same, though the qualities are very different. Black? tead, when pure, is extrencly black, but when tresh eut, appears of a blulsh white, and shising fike lead. It is mieaceous, and mifoutely scaly, casily broken, unt of granulap and dall appearance when brokeo. Its maik on paper is muchidarker than that of thob bybilenum, which has a fine silvery appearance? by which mean they are easily distinhguished from one another, Beck lead is too soft to strike firo with stebl, it is insolubler in acids; but in a very strong fire, when exposed to the air at the saime time, ir is entirely volatile, leaving only a lifte iron and a small quantity of siliceous earthe It niay be decomposed by deflignation with'i nitre; but the common fluxes are not caprable of procuring its fusion: its specifio gravity is to athat of water as 770 to 11000 .
4. Minerat-taflow is a very peculiar sabstanceit It was found ion the coast of Putland, in the year 1736 , Its specific Iravity is to that of water as 770 to 1000 , It buras witha blue flame and a smell of grease, leaving a btack viscid matter, which is more difficult to consume. It is found in sume rocky parts of Persin, but seems mixed with pe-) troleuth. Dr. Herman, of Strasburgh, mications a spring, in the neighbourhood of that city, which contains a substance of thit nature diffused through it, whicti separates on ebullition, and may then be collected.' The origin of this substance is unkiown.
5. Ambergris. The structure of this substance is sometimes like inbebs wax; bitt sometimes it is graniulated, and appears opaqueg,or of a dark grey. Hixperiments proves that it resembtes acuber in its nature. When analyzed it is found to consist of phileguint a volatile acid partly fluid, oil, and a little coaly matter. It is most common in the Inh) dian seas, on the 6astern coast of Africo, Mathigascar, 8 cc , and is found either floating on the sea, or cast on the sed shore . In this substancé animal and vegetgble remains are sometimies found, as, for instince, parts of birds; seo.
6. Araber. This substance is dagiout of the earth, ided found on the sen-coajfir

According to the experiments of M. Bourdetin, it consists of an inflaminable substance waited with the acid of common salt, which seem to have given itits hardness, It is suphponed to be of vegetable origin, since it is suid to be found together with wood in the earth. Insects, fisb, and vegetables, are often found included in it, which tertify its liaving once beeo liquid. It is more transparent than most of the other bitumens, and is, doubtless, the substance which first gave rise to electrical experiments, on account of the power it possesses of latiracting little bits of straw of a coloured transparency $5 f$ whitu opaque is found brown, white, or blackish, when transparent colourless or yellow. Amber and ambergris much resemble each other, and are considered, among learned men, as belonging to the vegetable kingdom:
7. Rock oil. This aanie is given to several substances which are all of the same riature, but diftry in eonsistence. Naphta is an oily fluid, which, in its greatest degree of purity, is nearly colourless, is extremely volatile and subtile, and so light as to float even on ppirits of wine. It has a strong oppressive smell, and evaporates spontancously. Like otber oils, it burns wihh smoke. It is said to be gathered at the surface of certain wells in Persit, ard is rarely found in Europe. Petroleum, which is of a thicker consigjeace, and eiore weighty than naphta, is much more common. It is of a yellow or brown colour, hand is found in Switzerland, Sicily, Italy, und France. It issues from the crevices of rocks, ior is found floating on the surface of springs. The different kinds of petrolea, on ulistillation, yield naplita, while a coaly residuum remains in the retort. Barbadoes tar is of a thicker consisterice than petrofeum, and is also called minieral pitch ; it whas forinerly found near Babylon, and constituted, according to Vitruvius, when mixed with lime, the cement which was used in building the walls of that eity. It is it preseat foand in several parts of Europe and in America, where it drops or distils, gratually from rocks Asphaltum is a substance much resembling Barbadoes ter: it is alino-called Jews' pitch, and is thrown up in a liquid form from the bottom of the lake where Sodom and Gomorrah antiently stood. Frem the prodection of this substance this ivis called the Lake Asphaltes, from i Greek word denoting bitumen. The bituaren floating on the surface of the water is hardened by the heat of the son, and is in that state collected by the Arabs on the shore, where it is throw't. The eastern asphattuitu is seldom brought to Europe, but is used by the inlistitants as piteb.
1.6. Jet is a very compact bitumen, harder than asphalturn, always black, and susceptible of a good polish It is so light as to swim on water, becomes electrical whien rubted, and is calld thack amiber, Whien burned ft enits a bituminoas smell. Jet seems nearly callied to coal, and purticularly to that species which is called canal coal. From which, however, it is easily distingoistied-by its lightivess, its electhichl properties, and its being composed of filres parattel to each other, like thosel of wood. It seems, in fiet, to be wood, which has been long buried in the edrth, and plencfrated by mincrel-steiny so as to assume the iapperanince and solidity of coak.
7. Collig a substance of swlich there are many virietic, thie eauses of which liave not been ascertained, as all the linds affiord very nearly the same results by chemical Anitysis.a. Tlicie are genưrally cotitrued as vegetable productions.
10. Natise sulphin is found in diferent furms, via aither in aulid pieces of imteierminate figure, running ia xeins through rocks, or in smell lampa in gyptum and limsstones, in considernble quatities it Salfatara, and in the neightourhoud of soleanos, or crystalized in pale transpareat or semi-trausparent, octagonal or chombidal crystals, in the cavitizs of quarts and paticularly in the matrices of ores; or in the form of swall needles over hot springo or near volcanos. The sulphur of commerce is extrocted, by distillation, fiom the sutstance atrich has beeg so often mututioned ander the ratue of pyrites, in which state it is comblied with iron, and is no havd is tostrike fire with stecl. Pysites, in colour and apppeararice, resemble brass ; some pieces are culfsal ; but in general this mincral has no doterminate form.

Hetaltie subatances are vaiuable for their durability, their capncity of assuming and retaining all sorts of forma and inpresssions a the closencss of their tocturf which rethders them cajahie of polish; the :firm cohesion of their paiticlus, which fenders them bighly proper for utensils warre great strength in required to be combined with motorate bulk. Several of the metals are also highty usefiol as medicines. The first and must ubyious property of metals is their remarkable "right, in which they exceed ali other bodies By thir circumstance, they are distinguished from eartis; the lightest of muctals, which is tin, being seven times the qreight of water, whereas the heaviest earih is only between four and five times the weight of sater. Metalic sulistances are by far the most opaque of all bodios. The most epanue stone, divided fato thin plates, has note or less transparency, whercas pold is the only aetal wifch ardaits of being rednced tu such a degree of thlamess as to afford the sinittent perceptitic trantatision of tight. Mrfals are fusible by heat, and one of them (mercury) is well knowu to exint in a ghate of fusion in the ordiaary temperature of the atunosptiere. The particles of metnds live a remarkably strong attraction for each other, which is evinced by small portions of metal, when ia a state of fusion, linving a tendency 60 assuue a gfobular form. It is found that metals which, after having teeth fased, aro sulfered to coot graduatly, evince a terndency to nssume a regular figare, and to crystallizo in generat in an octagoinal form. Metals, in their splendid or reguline state, have a considerable attruetion for axygen, and are in this rebiect nearly allied to the-inflummable substances. Irou burns with a brigbt tlame when theated to a eertain degree, and immersed io vital air; and an mixture of tio and nitre produces a viofont deflagration, Zinc, when beated and acted on orly by common atmospheric air burns frith a bright and vivid tlame tike phosphoras. Metals united with oxygen luse their splendor, malleability, and texture, and are denoininated calees. According to the old chemical theory, the calx of a metal was deemed a simple substance, and was called the carth on basis of a arctal; and it was supposed that this eath, prited uith plitogiston constituted the meat in its perfect state. It is now, horever, very satisfactorily proved, that the motallic state is the more siuple, and that the eatr is a combination of the metal oxygen. Metals yhich are malleable are calted eatire metale; and those which are britule, semi-metals. Metals are also distingatiked into perfect and imperfect. The perfect are such an are not calcined by bei g beated io contact with eir, and are three in number, silver, gold, and plations,

## MINERALOGY

The other metals are calcined In those crrcutustances, and are called imperfect. Quicksilver holds a kind of middle place ; for, like the base mstals, it may be calcined, though notreadily, and like the noble ores, it may be reduced by heat alone. Bismuth, zinc, antimony, arscuic, cobalt, nickel, manganese, molybdena, and wolfram, are scarce at all malleable, and hence they are called semi-metals. Nevertheless zinc, and parified nickel, are more malleable than any of the other semi-metals.

Metals exit in astate of nature in four different forms:

1. They are found in a native state of purity, with all the metallic properties. Gold is always found in this state; silver, copper, mercury, bismuth, and arnenic often ; iron seldom ; and lead, zing, and regulus of antignony still more rarely.
2. Metals are found in the state of earth or calx, without the metallic aspect, and often resequbling octires.
3. The formmon state, however, in which metals are found is that of ores. In this state they are either combined with sulphur or with some metal, the most common of which is arsenic.
4. The last state in which metals are found, is that of a combination with saline substances, and almost alrays acids. The vitriolic acid is most frequently found combined *viti metals, viz zinc, leni, copper, and iron. The carbonic acid is also a common', mineralizer, and the arsenical and phosphoric acids have likewise been discovered in combination with-metals. Metallic substances are more commonly found in mountains than in plains, and almost always in such mountains as form continued chains. It is in the stratafied mountains that metals most abound, where the inclination of the strata, in consoquence of the convulsions of nature, brings a variety of substances into view, which ming otherwise bave been for ever concealed beneath the reach of human investigation. There are entire mountains which consist of iron ore, but in general the metallic part of a moantain is very inconsiderable if proportion to the whole. The ore sometimes runs parallel to the stony strita ; the other, which covers it, is called the roof. Sometimes, however, the metallic strata, which are always more irregular than the other strata of which the mountain is composed, intersect the bodies which surround them in a variety of directions. The metallic ores are accompanied with stony matters, which aeem to have been formed at the samo time. These stones are usually quartz and spar ; they are callod the rider or matrix of the metal, and must neither be confounded with the mineralizing sulustance which is intimately combined with the metal, nor with the general mass of stone, of which the mountain containing the metal is composed. It is observed that the vegetables which grow on metalliferous mountains are dry, the trees small, sinuous, and deformed, and the sands often exhihit metallic colours. Mineral metallic springs are usually found in the vicinity ; by the examination of which and of the sinds over which they flow, a tolerably accurate judgment may be formed of the metalfic contents of the netghbouring strati. From what is hitherto known of metals, there is every reason to believa that they are simple substances.

The of der in which metals, compared with each other, possess most eminently their Vol. 1.
principal properties, is the same in which they are here enumerated, beginning alwayr with that metal in which the property is most considerable.

1. Specifie gravity, or density, platina, gold, mercury, lead, silver, copper, iron, and tin.
2. Opacity. We cannot well compare metals with each other in this respeet, because it is so considerable in all that it seems complete. If, however, they differ in this respect, the same order will serve for opacity as for density.
3. Metallic lustre or brilliancy, The same observations which were made concerning . the last-mentioned property is applicable to this also. We mast, however, observe, that as by polish bodies are rendered brighter, ant that as whiteness contributes much to the reflection of light, the whitent and hardest metals, therefore, reflect best. Hence, according to Mr. Macquer, plation ought to be placed first, then iron, or rather steel, sifver, gold, copper, tin, lead. Their reflective powers will be found to be mor nenrly in the following order, than in that above mentioned from Mr. Macquer. Siker, quicksilver, tin, gold, copper, iron, lead.
4. Dactility. Gold, silver, copper, iron, tin, lead. The ductility of mercury, and that of plation, are not yet determined.
5. Hardness. Iron, platina, copper, silver, gold, tin, and lead.
6. Tenacity. By tenacity wa understand the force with which the integrant parts of metal resist their separation. This force appears to be in a compound ratio of their ductility and hardness. The comparitive fenacity of metals is measured by the weight which wires, of the same diameter, made of the several metats, can sustain without breaking. Gold is the most tenacious ; then iron, copper, silver, tin, lead. The tenacity of mercury is unknown ; that of platina is not yet determined, but is probably considerable.
7. Fusibility. Mercury, tin, lead, silver, gold, copper, iron; and, lantly, platine, which cannot be fused by the greatest fire of ourfornaces, but only by the solar focus, or by a fire excited by dephlogisticated air.
I. Gord is the beaviest of all the metals except platins, being botwcen mincteen and trenty times the weight of water. Whicn peffectly pure it is almost as sof as lead, and is neither elastic nor sonorous. For its fusion it requires rather moro heat than silver, and when in fusion has a bluish green colour, and its surface is always perfectly bright. The most intense heat cannot calcine it, and only contributes to render it more pure if it had any foulness. The powerful burniug mirrors are said to bave volatilized it, and it has been driven up in fumes, in the metallic state, by flame urged upon it by a stream of vital air. The electric fluid, however, when made to pass in considerable quantities through gold leaf, inclosed betweed two plates of glass, converts it into a calx, which tinges the glass of a purple colour. The tenacity of gold is so great, that a wirc, one-tenth of an inch in diameter, is capable of supporting 500 pounds. Its malleability and ductility exceed those of silver, and are so remarkable, that their. limits could never he ascertained with any considerable exactness. On gold lace the thicknces of the gold bis

Been computed to be less than the $135,000 t$ part of an finch, and the degree of extensibility has been carried atill farther. In ordinary gold leaf, which is made by hammering plates of gold between skins, or animal membranes, a grain is made to cover 56 square inches and a quarter. In this state its surfice is so great that it may be made to float in the air with the slightest agitation, and its thickness is not more than the 982,000th part of an inch.

Gold is produced by nature very plentifully. There is much of it in. Brazil, in the Spanish Enst and West Tudies, on the const of Africa, and in Upper Hungary, where tho mines have remained inexhausted for ten centuries. Peru and Mexico abound with gold in a variety of forms. It is met whh ing tho sands of rivers and mountains. Some rivers in France, as well as in this conntry, contain gold in their sand. It is also found in the fissyes of rocks, imbedded in lard stones. Pieces of gold of several ounces, and even pound weight, are sometimes found, but in general it is diffised in so small portions, and though so large a quantity of sand, that the trouble of extracting it is scarcely repatid by the gains. In all parts of the world, particularly in Europe, gold is most frequently found in strata of sand, in which it seems to have been deposited by water. Gold mines were onse wrought in Scotlond, and it appears upon record that 48,000 founds sterling of this gold was coined in the Scottish mint. It in now a general opinion among mineralogists, that there are scarcely any sands entircly free from gold, and which, by accurate esamination, cannot be made to afford more or less of that substance.
Considering that gold has no attraction for sulphur, and very little for arsenic which are the usual nificralizers of metallic bodies, it is not surprising that it should be usually found in a separate, and nearly pare state. The metallic bodies, with which it is alloyed in a state of bature, seldom constitute any considerable part of its weight ; they aro geocerally cither silven, copper, or iron. Gold, hawever, is sometimes mixed with martial pyriles, and is sometimes contaiged in an ore, which is a mixture of lead, silver, and iron, mineralized by sulphur. In these cases the presence of gold is not known by the appearance of the mineral, and can only be dtscovered by roasting, and subsequent fusion with suth aiatiers as are capable of vitrifying the earthy and martial substances. The addition of lead is alyo useful, which unites with the gold, and carries it to the bottom of the mass. The gold is easily obtained free from the lead by the process of cupellation.
II. Platisa. In the beginning of the year 1749, the first specles of this metal was trought into England finm Jamsica. It was said to have been originally brought from the Spanish West Iudies, and it is still almost exclosively found in the gold mines of Spanish America. It is brought over in the form of small smooth grains, irregularly figured with round edges, and is often mixed with ferrugineous sand, and grains of quariz or crystal. The grains of platima are whiter than iron, but less so thinn silver, and their flat form is probably oving to the prossure they undergo in the mills in which the gold is amalganated, th confirmation of this opinion, small particles of gold and mercury are usually found mixed with the graius of plating. In the state in which they . are brought over, they fall short of the weight of gold, but by purification, (which is per-

## MINERALOGY.

formed by wasiung them with the muriatie acid, and by exposing them for a long time to the beat of the most violent furnaces, which, however, are said to be insufficient to-melt themp) exceed it. The specific gravity of gold is about nineteen times that of watee whereas platina, which still contains so much iron, as to render it magnetical, is upwards of twenty-one times the weight of that fluid. It is extreasely difficult to free platina from the last portions of iron, but some minute particles, which bavo been fased by the focus of a burfing-glass, and so far purified as not to be attracted by the magnet, appear to exceed twenty-two times the weighic of water. Platina is, perlisps, the most perfect of all the metals. As it so considerably exceeds even gold in weight, it is, therefore, to be considered as tho most ponderous body in mature. It has several properties in common with that most useful of "metals, iron. In hardacss it approaches to that metal in the state of ateel; and in infusibility it exceeds it fven in the atate of soft iron ; it also considerably resembles iron in appearance, and if is the only metal, besides iron, which has tho property of welding.
III. Srevzn is the whitest of all metals, and is possessed of great brillimey; it is barder than gold; in weight it is exceeded by gold, platina, quicksilver and lead; its mudieability is so great, that a grain oi it, reduced to ordinary silver leaf, measmres about 31 square inches, ia which state it is not more than the 160,000 th port of an inch thick; which, however, is considerably more than one-third thicker than goid leaf. Its tenacity is so considerable, that it may be drawn into wire about half the thickaess of a fine luman hair ; and a wire of oue-tenth of an inch in diancter will support the weight of 270 pounds without breaking. It is very sonorous, but in hardness and olasticity it is not equal to copper. It hardens under the hammer, but very readily loses that hardness by heating. Silver, exposed to the beat of the most powerful burning lenses, is partly vitrified, and partly volatilized in fames, which are found, whea received on a plate of gold, to bo silver in the metallic state. It is likewise said to have been partly calcined by twenty successive exposures to the lieat of the porcelain furnace at Seves. This, however, may bo doubted, as sifver does not undergo any degree of calcination by exposure to heat, even with the addition of nitre. Silver melts in the first degree of white heat, and appears in the fire like the finest quicksilver. When it is hastily cooled, it exlibits a curious phenomenon, called vegetation; for we discover from differcut parts of its surface, ramifications and brauches like those of trees which sprout out with a stem. The reason of this appearance seems to be the irregular contraction which the silver undergoes in passing from the fluid to the solid state. The melted silver suffers the first commencement of congealation at its surface ; by these moans a crust is formed, which, by its sudden contraction, compresses the fluid silver within; thus a protuberanco is formed, which, congealing in its turn, contracts and presses the intermediate fluid through its crust into branches. The air alters silver very lititc, unless it contains sulphuroous vapours, which it often does from the putrefaction of animal substances, or the exhalations of drains, or of sulphureous miocral waters. This thetal, therefore, becomes somewhat tarnished by long continued exposure to the aimosphere, and in time becomes covered with a thin purple, or black coating, which, after a long.

Tries of years, has been observed to scale off from umages of silver exposed in charehes, nad was found on examination, to consist of silver united to sulphur. Silver is often foum in its native state, and may be known by its brilliancy and ductility. It is sometumen met with withio irregular masses, sometimes in the form of capillary threads or fibres, and sometimes in that of branehes, formed by octahedrons, inserted one into the otlier. It is also often dispersed in a quartzose gangue.

Native silver is sometimes found alloyed with gold, copper, iron, or regulus of antimony ; but native gold much wftner contains silver than uative silver does gold. Silver is not naturaliy found in the state of caix. The vitreous ore of silver is composed of that metal and sulphur. It is the richesi of the silver ores, and yields from seventy to eighty pounds of the metal in the handred wetight. If it is of a blackish grey colour, resembling lead ; some specimens are brown, greenish, yellow, \&ce. ; it may be cut with a hnife, and fs sotnetimes crystallized. It is exposed to a heat not sufficient to melt it the sulphurbis dissipated, and the virgin silver is obtatned in fibres. The red silver ore contains arsenic as well as supphar. It is a heavy shiaing substance, sometines transparent, sometimes opaque, but commonly crystallized. It is often of a deep red colour on the outside, but appears pater within. It atfords about half its weight of sitver. If at is exposed to a fire carcfully managed, and capable of iguiting it, the silver is reducech, and forms capillary fibres, similar to mative silver. Thero is a silver ore containing arsenic, cobalt, and iron, mineralized by sulphur. This ore sometimes yields half its weight of sifver ; it varies in its appearance, being sometimes of a grey and brilliant aspeet, but often of a dull aind thmitied colour, with efflorescencs of cobath. The goosedung ore belongs to this species. The grey ore of silver contains a large quantity of coppier. The black silver ore, called nigrillo by the Spaniards, seems to be a middle state" between rative silver and sonic of its ores, or those ores in a state of imperfoct decomposition. The comeous silver ore is a natural combination of silver and muriatic acid, with a small quantity of vitriolit acid. Silver is also found in considerable quantity in the ores of other mntals, particularly thoso of antimony, eine, lead, and copper.

IV, Mercury. The circumstance which most remarkably distinguishes mercury, or quieksilver, from the other metals, is its strong attraction for heat, 50 that it retains the state of fluidity at the ordinary temperaturt of the atmosphere, and at the temperature of $600^{2}$ of Tharenheit is converted into vapour ; fow of the other metals, therefore, melt at so low a point as that at which mercury boils and is volatilized. It was long taken for granted that there was something peculiar in mercury, which rendered it necessarily fluid; but the acadenicians of Petersburgh tiave proved that this is an erroncous idea, and shewn that mercory differs from other metals merely in the degree of beat nt which it passes from its solid to its fluid state. The congelation of mercury has been affected is a variety of instances by the belp of the nitrous acid and snow, or pounded ice, comemouly calted the freezing mixture, and the congellation is found to take place at the $39^{n}$ below 0 of Fabrenheit's thermometer. Mercury, in its solid form, 'is found to have conssiderableamilleability, but "this cannot be proved to its fullest extent, because the hammering of it produces very soon a degree of heat sufficient to melt it. Mercury being

- Vol I.


## MINERALOGY.

At metal in a state of fusion, always affects the form of globules when it is divided; arm whon it is confiued in a bottle, its surfice is convex, from the strong attraction of its particles for each other. If tho vessel, however, in which mercury is confinec is metallic, its surface appears concave, from the tendeacy which it has to unite itrelf to the sides of the vessel, which attraction overcomes that between its own particles. When mercury is submitted to that degree of heat at which it is volatilized, and is at the same time exposed to the action of atmospherical air, it is gradually converted into a calx of a red colour, tife hydrargyrus calcinatus of the London Piarmacopeia. A greater hicat; however, revives this metallic calx, and at the same timo the aital air is again extricated. Mercury is not zensibly acted on by exposure to air, bat b; loag coutinued agitation it becomes partly converted into a very fine Black poxvder. The mercury is not changed in this experiment, unless, perhaps, it should be found that it absorbs some part of the vital nir contained in the ressel in which it is confined. By a slight heat, f by trituratiou in a warm mortar, it may bo made to resume its usaal fluidity and brillifncy. Mercury is found in the earth, either in its native metallio state, or combined with sulphur, when it is called cinnabar. Running mercury is found in globules, or Jarger masses, in friable earths or stones, and most commonly in the clefts or cavities of its ores. It is more frequently, however, imbedded in calcareous earths or clays of different colours from which it may be separated, either by trituration or lotion, the smaller globules coalescing by mutual contact into larger; or by distillation. More mercury is found in the state of cinnabar than in its motallie form. This ore consints of mercury and sulphur combined together in different proportions. Cinnabar is sometimes found in the form of a brilliant red (porder, and is then called native vermilion; sometimes in an indurated state, and, though geaerally red, has beco sometimes observed of a yelowish or blackish cast ; it is mostly opaque, but some specimens are as transparent as a " ruby. Mercury is too volatile to admit of the sulpliur being separated from it by roasting; these substances are both so volatile that they wolld rise together. In order to separate mercury from its ore, it is nocessary to edd quick lime, or iron filings, unless some substances of a similar nature happen to be nuturally mixed with it ; tho mass is theo submitted to distillation, and the calcareous earth, or iron filings, by superior attraction, detains the sulphur while the mercury comts over in the state of vapour, and is condensed in the receiver. Different cinnabars yield from three parts to seven parts in eight of their weight of mercury. Mercury has sometimes been faund united with the muriatic acid, vitriolic acids, and with the ores of some other metals. It is thought to be not abundant in nature ; but this opinion may be partly owing to its volatility, which may prevent it from being discovered in many minerals that may contain it.
V. Coppen is a metal of a peculiar red colour, and when its surface is fresh and elean, it has a considerable degree of splendor. It is lard, dactile, and malleable to a considerable degree, and remarkably sonorous. It has a peculiar and unpleasant amell, particularly when rubbed. Its taste is styptic and nauscous. Its tenacity is such, that a copper wire, of one-tenth of an inch in diameter, is capable of zupporting a weight of about three hundred pounds, Its fracture exhibits the sppearance of small
grains. Its gravity is abont nine times that of water. Copper lias a great degrec of streugth and rigidity, approaching to that of iron. It is not inflammable like iron, and is therefore usod in guipporder works, instead of that metal. It does not admit, like Thoir of being welded, but this defect is compensated by its greater fusibility, by which it may be alsays formed into the desired shape. It roquires for its fasion about the same heat as gold and silver. When in tusion, for which it requires a strong white heat, it appears of a blaish green colour, which arises from a flame of that colour on its surface. By a very violest itat it boils, and is volatilized partly in the metallic state. Copper, in a luat far less than is sufficient to melt it, becomes calched at its surface. and exbibits various colours. In a greater heat than is sufficient to produce this effect, its surface is converted into thin scales, which may be easily scraped off. Copper is sometimes found native, baving the metallic splendor, the malleability, and all the properties of ordinary copper. It has sometimes the form of plates, sometimes that of fibres or banchies, and is sometimes crystallized. Copper, in its metallic state, is sometimes found deponited in ores of iron, in which case it must be considered as hivings been separated from nativo vitriol of copper, by the superior attraction of iron for the vitriolic acid. The native solutions of copper oftea deposit that metal, in a calcined - stale, in beds of catcareous carth. The turquoise stone is the footh of ath animal, penctrated with the bluo calx of copper. Copper is generally found, however, contained in ores. These aro frequently mincralized by sulphur. What aro improperly called the vitreous ore of copper are of this kind ; they are brown, red, and grey, and these coloun are frequeitly mixed with a grestish or violet tinge. These mett casity, are very ponderous, miny be scratched, or even cut with a knife, and' are very rich ifi metal, as an luudred poinds of then usually yields from eighty to ninety of copper. The azure copper ore differs from the former chiefly in containing a considerable quanity of irou The grey copper ores, which have not much splendor, consist of copper, sulphur, arsemic, and some iron. What are called copper pyrites contain in reality more iron than copper, hut yield enough of the latter metarto answer tho expense of working them : they are gencrally of a yellow and brilliant aspect. Copper is also, in some specimens, found united with slate, pit-coal, zinc, and antmony.
VI. Lzad, The appearance of this metal is well known. It is so soft as to cut whith a laife without much difficnity. It is neither sonorous nor elastic. It has very little tenacity, and therefore cannot be drawn into fine wire. It spreads easily under the haomer, but cannot be extended into very thin leaves like gold, silver, and tin. Its specfic gravity is ratier greater than that of sitver, being efeven times heavier than water, and it is exceeded in this respect by only three metals, gold,' platima, and mercury. Lead is very rarely found native. It is sometimes found in the form of a calx, called mative ceruse, or lead ochre, or in that of lend spar of various colours, and which are in general either rhomboidal or cubical. Lead combined with sulpher is called galenn, which is composed it general of lamiam, but are more lrilliant, and very brittle. A great variety of these ores have been discovered, which it will not be necessiry to enumerate. Lead, in sone instances, has been found combined with various acids ; the vitriolic, the
phosphoric, the carbonic, and the arsenical. The ores of lead very commonly contaitr silver, and sometimes antimony.
VII. Tis, when its surface is fresh, is bright, and with respect to whiteness holds es middte place between tead and silver. Tin is the lightest of all metals, being only aboout seven times heavier than water. It produces a crackling noise when it is bent, though it yields easily. It is very soft, and probably from this cause it is scarcely at all sonorous. It is considerably malleable, and may be reduced beneath the hammer into lamine,, thinner than the leaves of paper, (commonly known Dy the name of tiufoil) which. are of great use in several arts, particularly the foiling of looking-glasses. Its degrec of toughness is such, that a wire of tin of the teith of an inch in diameter, supports a weight of forty-nine pounds and a half without breatiag. Tin is the most fasible of metals. It is observed by miners, that though tin is the lightest of the metals, ifs ores are some of the heaviest. Tin is seldom or never found in the metallic or reg fine state. The ores are often crystallized, and of different colours. Those which are of a reddish colour generally contain a large proportion of iron. There also is a sulphureous tin ore of a brilliant colour, similar to that of zinc, or golden, like aurum musivom. The more transparent ores of tin often contain arsenic, and this is separated, almost eatirely, by repeated roastings.
VIII. Inon. The external appearance of this metal is weli known, and its hardness and elasticity are seen in the various ingtruments and utensils which are formed of it. It is the most sonorous of all the metals, except copper; but in specific gravity it is inferior to most of them, being only about soven titnes and a half the weight of water. Iron has a considerable smoll, especially when rubbed or heated. It likewise has a very perceptible styptic taste. Iron is very ductile, and may be drawn into wire as fine as a human liair; and it is so tenacious, that an iron wire of one-tenth of an frech diameter will support a weight of fifteen bundred pounds. .Iron is by far the most abundant in nature of all the metals. It is not only contained in almost every fossil, particularly in those which are coloured, but makes a part of vegetable and animal matter.

1X. ZrNc. This metal is in some degree malleable, and, therefore, holds a middle place between the semi-metals and metals, though it is usually referred to the former division. Its appearance is blue and brilliant, and when broken it is found to be crystallized in narrow plates. Zine is found in the following states : It is sometimes, though rarely, discovered native in flexible, greyish, and inflammable fibres. Zinc in its ore is generally in the form of a calx, when the ore contains no other metal but zinc it is never in any other form, but it is often mixed with other ores, which contain sulphur and arsenic, and these must be evaporated by roasting. The richest ores are compact and ponderous, and are called lapis calaminaris, or calamine ; they are found in the parish of Holywell, in Flintshire.

Antisosir. The substance which is commonly called by the name of sotimony, is a combinatien of that metal with sulphur. This mineral is of a blackish grey, in brittle plates or needles, of various magnitudes, joined together in different ferms. It is $s$ metimes mixed with other metals, particularly lead and iron, and is uery common
-is Hungary, and in some of the provinces of France. From this ore the regulus of ane timony is separated by fusion. The appearance of autimony is bright, approachung, when very fine, to that of silver. It is very britule, and is composed of oblong plates of 1 mians. Whea melted it forms a smooth mass like other metals, but upon breaking it, we tind the plated appearance on the inside. The plated appearance depends on the crystallization, which begins at the part that first congeals. The regulas of antimony, which is prepared for commercial purposes, is cast into flat and circular pieces, which pave a cryatallization on their sorface, in the form of the leaves of fern.
XL. Brswurit is extremely brittie, so that it may be easily separated, and even reduced to powder by the hammer. Whas broken it exhibits at the place of fracture large shining plates, disposed in a variety of direetions. It is considerably ponderous, and is of a yellowish white colour; when in thin plates it is in some degree sonoroun: Jismuth is giten found natire, It is also found united with arsenic, sulphur, fron, and sometimes in a calciform state. The sulphereous ore of bismuth is of a whitish grey, inclining to blue; it has the brilliancy and colour of lead ore or galena, and almost always exhibits square facets, but it is never found in fragments truly cubical.

Nif. Ausexic is often found native, in black heavy masses, but not very brilitiant. It has somatimes thie metallic lustre, and reflects the colours of the rainbow; in its fract ture if is more brilliant than nt its surface, and seems composed of a great number of small scales. Native arsenic is very easily known, when it has the metallic brilliancy and scaly texture. Arsenic, however, is more frequently found in the form of flowers, or miked with certain earths. Cobalt ores contain much arsenic, and that which is commonly sold is brought chiefly from the cobalt works in Saxony. The regulus of arsenic is of a bright yellowish white colour, very ponderous and friable, and subject to tarmish and tecome black on exposure to air. If beat is applied to the regulus in contact with air, it is volatilized before it melts, and is at the same time imperfectly calcined. This fumes are dangerous, and have a strong' and offensive smell resembling that of garlic.
XIII. Cobale has never been found native, that is in a metallic state, but is almost always calcined or united with arsenic, the arsenical acid, sulphur, iron, vitriolie acid; \&c. Minerals containing cobalt are frequently of a pink colour, which arises from the presence of arsenical acid, and its colour is destroyed by fire, in proportion as the acid is dissipated. The regulus of cobalt is of a whitish grey or steel colour, hard, brittle, of a dull close-grained fracture, and moderate specific gravity. It has about the same degree of fusibility us copper; does not easily become calcined; and its calx is of so deep a blue colour as to appear black.

XIV, Niekzl. This metal derives its name from the mineral in which it is contained. It is found united with salphur and arsenic, Is ores have a coppery red colour, are almost always covered with a greenish grey efllorescence, and have been mis taken for ores of copper. The regulus of nickel cannot be obtained pure, but is combined with portions of cobalt and iron. It is considerably attracted by the magnet, and has on thig account been collsidered by some as a modification of iron.

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## MINERALOGY.

XV. Manoanesz. This metal is almost almays found in the state of calces, whith vary much in colour and appearance; they are white, blue, yellow, red, dark green, and black, aecording as they are united with more or less oxygen, or costaminated with foreign substances. Tho darker coloured the ores, the more oxygen they may be supposed to contain, as any process which deprives them of this principle always reuders them paler. Manganese is also found crystallized in a varicty of forms. The regulus of manganese is very difficultly obtained. Its colour is a dusky white, Dut its nasses are irrogular and uneven from imperfect fusion. Its fractute is bright and ahining, but it soon tarnishes, and becomes blackish on exposure to air. When', pulverized it is always magnetic, though it has not this property in *he mass. If exposed to air, particularly in moist weather, it soon crumbles into a blackish brown powder, which is somershat hosvier than the regulus from which it was produred.
XVI. MoLybDexa. This is a mineral substance, which has till latelf been confounded with plambago, but is now found to be a combination of a particalar motallic substance with sulphur. It is of a blackish colour, and consists of shining lamine, which have a degrec of flexibility so as to be very difficultly reduced to powder.

XVIL. Tuxgsisis, or wolfram, is a particular metal, the ore of which has frequently been confoundod with that of tin. The specific gravity of this ore is to water as six to one; in its form of erystalization it resembles the garnet, and varies in colour, from a pearl white to a yellow and reddish ; it is found in several parts of Saxony and Bohemia. The mineral called wolfram, which is frequent io the mines of Corowal, is likewise an ore of this metal; in all these ores the metal is oxydated; and in some of them it appears to be oxygenated to the state of an acid, being combined with lime into a true tungstat of lime.

The seventeen metallic sabstances which have been here enumerated, were till lately considerated as comprehending the whole of this class of minerals, but from the researches of modern ebemists, four more have been added to the number, viz. Uranium, Titamium, Tcllurium, and Chronum. Uranium dias been discovered in a mineral called peckblende, which is foind in Saxony. Klapsoth examined this mineral in 1789, and found that it consisted chiefly of sulphur, combined with a new metal which be denominated tellarium. Uranium is of a dark grey colour; internally it is somewhat inclined to brown. Its malleability is unknown. Its hardoess is about six. It requires a stronger theat for fusion than manganese. Indeed Klapsoth only obtained it in very small conglatinated metallic grains, forming altogether a porous and spongy mass. Its specific gravity is six times that of water.

There is a mineral found in Mungary, which, from its external appearance, has been called red shorl; but Klapsotb, who examined it about the year 1795, discovered that it consisted chicfly of a peculiar metal, to which he gave the name of titnnium. Titanium is of a brownish red colour, and considerable lustre : it is britte ; its lardness is aine; its specific gravity is to that of wator as four to one. When exposed to astrong Seat in a clay crucible, it sutfered no alteration, excopt that its colour became browner;
fiut in a cosl cruciblo it lost its lustre and broke to freces. It is found naturally erys. tallized in right auglad quadrangular prisms, longitudinally furrowed, and about $\frac{1}{2}$ inch in lepgth.

In the mountains of Fatzbay, near Zalcthna in Transylvanin, there is a mine called Marriabilf, the ore of which is wrought for the gold that it contains. Mr. Muller, of Reichenstein, examined it in 1782, and suspected that it contained a new metal : and Bergman, to whom he lad sent some of the ore, was of the same opinion; but the quantity of the mineral which thess chemists had examined was too inconsiderable to enable them to decide with certainty. Klaprotb analized a larger quantity of it about the sear 1797, and found that one thousand parts of it consisted of 72 parts of iron, 2,5 of gold and 985,5 , of a new metal, to whom he has given the mame of tellurium.

Tellurien is of a white colour like tín, approaching somewhat to grey colour of lead. It is very lrittle and friable. Its fracture is laminated. Its specinic gravity is 6,116. It is as casly melted as lead. Whea suffered to cool quietly and gradually, it readily assumes a crystaflized surface.

Cliromun bas been lately discovered. A nety metal has lately been diseovered by Vauguelin, in the red lead ore of Siberia. It is grey, very hard, britte, and easily crysRallizes in small needles. He has given it the name of chronum because it posseases the prower of giving colour to other bodies in a remarkable degree.

CHAPTER VI.

Elconomy or vegetatios._Parts of Vegetables-Their dissomination, gmoth and decay.

ALL natural bodies have been classed by phitosophers under tiro grand divisions, unorganized and organized bodies. The fermer of these have been already considered; the latter: which includes what the old writers denominate the vegetable and annual kingdoms, will furnisha subject for this and the two succeeding chapters. Unorganized bodies consist of simple combinations of a vast variety of different Alementary primeiples. Organized bodies, on the contrary, consist of fow priaciples ; but in the proportions, combinations, and arrangement of these principles, they are infinitely varied ; and their structure is as complex as their materials are simple. Thus, in the mineral creation we may enumerate not fewer than 40 distinct elementary principles ; the vegetable creation, for the most part, consists only of three ; and the utmost to which it. can be extended, is about six or seven distinct species of mutter, which oceasionally enter into the composition of those variod beauties, that singularity of structure, that vast assemblage of organized bodies, so different in qualities and exterual appearance, which tho woods, tho fields, and the gardens present to our view ; so numerous that they have hitherto eladed the art of the most skilful botanists to methodize and arrange.

The constituent or elementary principles of vegetables, aro hydrogen, oxygen, and charcoal. These, as far as our obscrvations have hitherto extended, are common to all vegetables. There are some other substances, such as calcareous earth, iron, and arote, which are occasionully found in vegetables ; bat is they are not common to all plants, they cannot be considered as essential *to the constitution of vegetable matter.

A plant is defined to be an organized body, destitute of sense and spontancous motion, adhering to another body in such a manner as to draw from it its nourishment, and having a power of propagating itself by seeds? The parts of vegetables which naturalists are accustomed to consider as distinct in their nature and functions, are six, the stom or trunk, the root, the Ieaf, the flower, the fruit, and the seed.

1. The stem or trunk, which includes also the branches. It consists of three parts, the bark, the wood, and the pith. The bark is protected on the outside by a skin, which consists sometimes of numerous layers, and differs in thickness in different plants. This skin is composed of very minute bladders, interspersed with longitudinal woody fibres, as in the nettle, thistle, and the generality of herbs. It contains alsolongitudinal vessels, and is visibly porous in some plants, and particularly the cane. The true bark may be considered as a mass of pulp or cellular substance, in which are placed a number of vessels, as well as longitudinal fibres. The vessels of the bark are differently sifuated, and destined for various eres, in different plants. In the bark of the pine, for
instance, the inmost are lympleducts, exceedin-ty mimuto; those nearest the surface are gum or resihferous vesels, for the secretion of the turpentine, and these are so large as to be visible to the naked eye. The wood lays between the bark and the pith, and consistr of two parts, the cellalar and the woody. The woody pirts are no mnre than a mass of old dried fympteducts. Between the bark and the wood a new ring of these ducts is furmed every year, which gradually loses its sofuess as the cold season approaches, and tovards the middle of winter is condensed into a solid ring of wood. These annmal rings, which are víhble in most trees wlien cot transversely, serve as marks to determine their age. They seem to decrease in breadth, as the tree advances in age ; and as they are found to be very unequal in size throughout, their breadth probubly varies according as tho season, is fivousubie or otherwise. The pith is situnted in the centre of the stem, and in young plants it is very abundant. It is said by some authors to coasist of exactly tho same sitbstance as the cellalar substance of the bark ; and to be composed of small cells or bladders, generally of a circular figure, though in some plants, as the hornge and thistle, they are angular. In most plants the pith gradually dies array as they approach to matarity; and in old trees it is almost entirely obliterated.
2. The root which fixes the plant to the earth, and is the clicf source of its nourishinent, differs muth in different species of vegetables. All roots agree in being fibrous at their extremities, and it is by their fibres chiefly that they are fitted to draw nourishmeat. The root terruinates upwards in the stem or trunk, which sustains the other pasts of the vegetable. The internal structure of the root, or rather of its fibres, differs hot very materially in general from that of the stem. It consists of a cuticle, bark, wood, and commonly of a small portion of pith; though there are some roots which have no pith at all, while there are others which bave little or none at the extremities, but a considerable quantity near the top.
3. The leaves are organs ersential to the existence of plants. Trees perish when totally divested of them; and in general, when stript of any considerable proportion of their leaves, they do not ahoot vigorously. The leaves are formed by the expansion of the vessels of the stalk into a net-rook, which exhibits a beauliful appearance when the intermediate parenchymatous matter is consumed by putrefaction. Both surfaces of the leaf are covered with a membrane, which is a thin bark, continued from the scarfakion of the stalk.
4. The flower consists of four parts, the calyx, the corrolla, the stamina, and the pistillom. The calyx, or flower-cup, is almost always of a green colour, and is that which surrounds and supports all the ottier parts of the fluwer. The corrolla is of various colours, is variously shaped in different vegetables, and is that which constitutes the most conspicuous part of the flower. It sometimes consists of one continued substance, but more fequently of several portions, which are called petals. The stamina are supposed to be the male part of the flower. Lininaus defines them to be an entrail of the plant, designed for the preperation of the pollen. Each stamen consists of two parts ; the fillimentum or fire-tbread, which supports the anthere, and the anthera itself, which
contains wuthin it the pollen, and when come to maturity discharges it for the impregna: tion of the germen. From the supposed function of the stamina, they afford the chief foundation of the distribution of the vegetable system into classes. Such flowers as want this part are called female ; such as have it, but want the pistillum, male ; such se havo them both, hermaphrodite ; and such as have neither, neuter. The pistillum, or pointal, is supposed to be the femalo part of the flower; it is defined by Linnaxus to be an entrail of the plant, designed for the reception of the pollen. It consists of three parts, the germen, the style, and the stygma. The germen is the rudiment of the frot accompanying the flower, but not yet arrived at maturity. The stylo is the part which scrves to elevate the stygms of the pistillom, and is coygred with a moisture for the breaking of the pollen. The seed vessel is the germon grown, to maturity. Such are the constituent parts of the flower ; they are, however, infinitely varied, and serve both to diversify the face of nature, and to interest and delight the curiosity of min. One curious fact it is necessary to notice, before we dismiss this branch of our subject, and yhat is, that every flower is perfectly formed many months before it makes its appearance. Thus the flowers which appear in this year are not properly the productions of this year: the mezerean flowers in January, but the flowers were completely formed in the bud in the preceding autumn. If the coats of the tulip-root also are carefully separated about the . begianing of September, the flower, which is to appear in the folloring spring, will be found in a small cell, formed by the innermost coats.

The impreguation of the germen is performed in the following manner: the antherae, which at the first opening of the flower are whole, burst so0n after, and discharge the polten. Being dispersed about the tlower, part of the polten lodges on the surface of the stigma where it is detained by the moisture with which that part is covered. Each single grain or atom of the pollen bas been observed by the microscope to burst if this fluid, and is supposed to discharge something which iapregnates the germen below : what the substance is which is so discharged, and * whether it actually passes through the styla into the germen, seems yet undeternined, from the great difficulty of observing such minute parts and operations. In some vegetables the stamina move fowards the pistillum ; and a very evident motion of them is observed in the flowers of the common Lerberry, on touching them with the point of $\bullet$ a pin.
5. The fruit consists of nearly the same parts as are found in the stem ; of a skin or cuticle, which is a production or continuation of the skin of the bark; of an outer pulp, which is the same substance continued from the bark, only that its vesicles are larger and more succulent or juicy. Next the core there is commonly an inner pulp; and the core is no more than a hard woody membrane, which incloses the seed. It is to be observed, however, that the organization of fruit is very various ; in some the seeds are dispersed througls the parenchymatous or pulpy substance; in some, instead of a core we find a strong wood substance, inclosing the seed or kernel, which, from its great hardness is termed the stone; in some there are a number of seeds ; and is others, only a single seed, inclosed in a large mass of pulpy ufatter.
6. The seed is a desiduous part of a vegetable, containing the rudiment of a new one,

The essence of the sced consists in the corcilum or little heart, which is fastened to the lobes, and iavolved in them, and closely covered by its proper tunic. The corculum consits in the plamula, which is the vital speck of the fiture plant, extremely small in its dimensions, but increasing likg a bul to infinity. The rostellum, bowever, mest be included, which is the base of the plumula ; it descends and strikes root, and is the patt of the reed originally contiguous to the mother plant. It is commonly supposed, and with some reason, that the perfnet plant, or at least all the organization which is requisite to a perfect plant, exits in the seed, surrounded by a quantity of faximaccous matten Which serves to absorb moistare, and to furnish nourishment to tho coreculum till its parts are sufficiently unfolded to draw support from the soil. A kidney-bean or lupine, when it has been soaked for some time in .water, and begun to sirell, is easily separated iato its two lobes ; and between these is digplayed the iofant plont. The maked eye cam easily discern thie stem, and its comexion with the lobes. Through the lobes are diffosed ianumgrable vossels, which immediately communicate with the embryo plant. On the external surface of the seed are absorbent vessels, which metract the inoisture ; by this moisture a degree of fermentation is produced, and thus a juice is prepared by a natural process in every respect proper for the nourishiment of the plant in its' first efforts to extend its tender frame.

- So great are the prolific powers of the vegetable kingdom, that a single plant, if left to itself, would in a short time over-run the whole world. If the plant were only a single annual with two seeds, it would, in 20 years, produce more than a million of its own specien ; what numbers then must have been produced whose seeds ure so numerous as many of thoso with which we are acquainted. If nature had appointed no means for acatering these numerous seeds, but allowed them to fall down in the place where they grewf the young vegetables must of necessity have choaked one another as thicy grew up, and not a single plant could have arrived at perfection ; but so many ways are there appointed for the dissemination of plats, that we see they not only do not hinder each other's growth, buta single plant will in a short time spread through different countries. The most evident means for this parpose are,

1. The force of the air. That the efficacy of this may be the greater, nature has raised the sceds of vegetables upon stalks, so thet the wind has thus an opportunity of acting upon them with the greater advantage. The seed-capsules also open at the apex Iest the ripe seeds slould drop out without being widely dispersed by the wind. Others are furnished with wings, and pappous down, by which, after thes come to maturity, they are carried up into the air, and have been known to fly to the distance of 50 miles ; 138 genera are found to have winged seeds.
2. In some plants the seed vessels open with violence when the seeds are ripe, and thus throw them to a considerablo distanco, and we have an enumeration of 50 genera *hose seeds are thus dispersed.
3. Other seeds are fornisthed with hooks, by which, whea ripe, they adhere to the coats of animals, and are cirried by them to their lodging places. Linneus reckons so genera armed in this manoer.
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4. Many seeds are dispersed by means of birds and other animals, who pick up the berries, and aferward eject the seed uninjurrd. Thus the fox diseminates the privet and many other species of fruit. The plants found growing upon walls and houses, on the tops of high rocks, \&ce. are mostly bronght there by birds ; and it is universally,known that by manuring a field with new dong, innumerable Needs wilt syring up which did not exint there tefore: 109 sprecier are rectioned up thith may toc dizsetminted in this manner.
5. The growth of other seeds is promoted by animals in a different way; while some are eaten, others are scattered and trodden into the ground by them. Tho squirrelgoans the cones of the pine, and meny of the seeds fall out. Wintu the lexica cats off the bark, almost his only food, many of theig sectis are committed to the earth, or mixed in the morass with moss where he had retired. Tho "glandulario, when she hîdes up tier nuts, often forgots themt, and thoy strike root. The sume is observable of thit walnot; mice collect and bury great quantities of them, and being afterwards killed by different animals the nuts germinate.
6. We are astonished to find mosses, fungi, byssus, and mucor growing every whicre, but it is for wait of reflecting that their seeds are minute, that they are almost invisisle to the moled oye. They floth in the air like atoms, and are dropped evecy where, but grow only in those places whicre there was no vegetation before ; and lienee we find the same mosses in North America and in Europe.
7. Seeds are also dispersed by the ocean, and rivers. "In Lapland," says Linneus, "we sec the most evident proofs how far rivers contribute to deposit the sceds of plants. I have seen Alpine plante growing upon their shores frequently 36 miles distant from the Alps; for their seeds falling into the rivers, and being carried along by the stream, tuke root there. We may gather, likewise, from many circumstances, liow much the ses, contribates to this business. In Roslagia, the island of Grmsoca, Ocland, and the sliores of Scanis, there are many foreign and German plants, not yet naturalized in Sweden. The centauny is a German plant, whose seeds being carried by the wind into the sea, the waves landed this foreigner upon the" coasts of Sweden. I was astonislied to see the veronica maritima, a German plant, growing at Tornea, which lithierto had been found only in Grasoca ; the sea was the vehicle by, which this plant was atransported bitier from Germany; or possibly it was brought from Germany to Gressoca, and from thence to Tornea. Many bave imagined, but erroneously, that seed corrupts in water, and loses its principle of vegetation. Water at the bottom of the sea is seldom warm enough to destroy seeds; we have seen water cover the surfice of a field for a whole winter, whlo the seed which it contained remained unhert, unlcss at the begioning of spring the water was let down so low by drains, that the warmth of the sun-beams reached to the bottom. Thon the seads germinate, but presently become putrid ; so that for the rest of the year the earth remains naked and barren. Rain and dhowers carry seed into the cracks of the earth, strearos, and rivers, which last conveying them to a distacee from their native placen, plant thom in a foreign soil."
8. Lastly, some aeeds assist their projection 30 a distance in a very surpristag man-
rier Thitgrupina, as apecles of centaury, las its seeds covered with erect hofitha, tiv wheme nismancovit creeps end moves about in auchia manner that it is lyg no means tor bekeffin the hath, If you confine one oif them betreen the stocking and the foot, it:



 a foir doys find all the glumes empity, und thic oals repurnte from thom, for every ont fus an spinal'beird anurged to it, which is contracted it wet, and extended in dry menther. When the spiral is contracted it ithgs dhe oat along with it ; the minute bairn of the beird pountiof downeward, the "grain necessarily fullous them, but isloce the beard expandr agalu, the out does thot go buek to its former place, the roughiness of the beard the courrary way preventing its retum. If you thke tho scedir of fern, these being laid upon a paper, and vicwed with in uitmacope, will be seen to leap over any ob-
 so that a pervon igharant of this property roaid pronounce these seeds to be sh many mites or stmall iniects."

- The procose of matare in the regetation of plants is very accurately delivered hy Malprifi. "The egg orseed of theplant beinis excluded out of the ovary, called pod or Lusk, and requiring further fostering or broodiog is committed to the carth; which, baving recefved it into her fertile botom, not only does the office of incabation by her
 plies vithat the feet requires fuefits füthor gmath; us abounding every whiero with canals, wherein the dow and rain-watur, impregosted with fertile salt, glite like the chyte and Ifood in tbe arteries, Rec of ahimals. This tobisture meeting with a hew deposited seed, if strathed through the pores or plpes of the outer rivd of them, on the inside whereof lien one ormore, comtnouly tho thick seminat leaves, This seed-leaves censist of a great number of little bladdors. In these vecesels is received thie moisture of the earth strained through the aftid on seed, which makes a stight fermentation with the proper juice before contaited tharein. This fermented liquor is conveyed by the umbilical vessel to the trunk of the litile plant* and to the germ or bud which is contiguous thereto, upon ithied is verctation or incrense of the parts suceced. $=$ -

Sach is the procedure of nature in the vegeturion of plants ; which the illustrious author excenplifies in a grain of wheat, as follows: " The first day the grein is sown it grows a titte tinetid, anf the hosk gapes a linte in several places, and the body of the plant being contined by the umbilicat vessel to a conglobated leaf, (which is called the polp of flest of the sexit, and is whit coristitites the flover) swells, by which weins not ooly the germ or sprout which is to be the futire stem opens and waxes, but the roots begin to brinch out, whance the seed leaf, becorving loase, gapes The second, the secundine or buak, being Erroken itrough, the stem or top of the future straw, appears tin the outvide thicrouf-and grows uptrards ly degrees, in the mean time the secdleaf guiring: the routs, becomes turgid with its versels, and puts forth a white down ; - Yol 1
uht the loaf being puithd away, you boethoroots of thepthitt bare, the foture tuds, loaves, and rest of the stalk I ging hid. Between the roots, and the ascending stern, the trunk of the plant is knit by the navel knot to the flower-leaf, which is vory moist, though it still retalins its uhite colour and its maturat tiste. Thio third day the palp of the round leif becotnes turgid with tho jaino irlich it reccived from the earti fermienting with its orv. Thus the plant increasiag in bignoms, and its bud or stem becoming taller, from whitish curns greentah, the side routs also braak fortf greenish and pyrimital from thic gaping sheath, which adtieres cilicily to the pliat, ind the lowcr root grows loagei and hniry, with fibres banging all along on all the roobs, excent on their to,3, and these fibres are seen to wind about the saline particles of the soif, little lamps of earth, Se. like ivy, whence they prow curled. Above the roots there now brenk wot two other little ones. The fourth day, the stom mounting upwards, makes a right anghe with the seminal leaf, the last routs put forth more, and the other three grawing larger, are cloathed with more lisirs, which straitly embrace the lumps of earth; and where they moet with any vacuity, unite into a kind of net-work. From this time forvord the root pushes with more regutarity downwards, and the stalk apward, thw before. There is however, this great difference in their growth, that the stalk and branches find no resistance to their shooting up, whifte the roots ffind agrentade to thele shooting downwaris; by means of the solidity of the earth ; whence the brinches aifrances much fister and further in their growth than the roots ; and these often finding the resistance of a tough earth insurmountable, turn their course, and shoot aluost horizontally."
"The fruits or juices of vegctaties, says D. Betl, are of tivo tinds? Thic one is of the same nature in all the variety of vegetables: the other varies according to the different plants in which it exists. The former, which is called the common juice, when collected early in the spring, from an incivion inade in the birch or vine, ditfers little from commoa water. The latter which is named the proper juice, possesses various properties in various plants, and gives to cach its sedsiblo qualities. These two juices never mingle with each other in the trec, and the hatter is found in the vasa propria only."

It is not yet asceitalued whether the juices of plants are transinittod through vessals, or cellular substance. Each side of the question has had its advocgtes, who have supported thelr reppective opinions with protable arguments: but it is to be regreted that, on so interesting a subject, no conclusion can be formed from the actual dissection of vegetables. It, however, seems most probabie that all the fluids of plants are transmitted through vessels.

Plants, as weff as anlonits, says a respectuble antior, perrpife, and in both cases this function is esseutial to health. By the experiments of Dr. Hales, and M. Guettard, it appears that the perspirable matter of vegetables differs is no reipect from pure water, excepting thint it becomes rather soover putrid. The quantity perspired varies, according to the extent of the surface fiom which it is umitted, the temperature of the air, the time of the day, and the humidity of the atmosplicre. As the leaves form the \#reatest part of the surface, it is natural to suppose, that the quantify of thesc will very phaterially affect the quantity of the perspiration. Accordingly, the experiments of Dr Hales .
have ascertoined that the perspitation of vegetatles is inereasel or diminished, elienty. is proportion to the increase or diminution of their folligge. The degreo of heat in which the ploat was kept, according to the aspie author, varied the quantity of matter perspiri ; ; litis being greatec, in proportion to tho groater heat of the surrounding atmospherm The degree of light hise likewise consilentala fiffuence in this respect; for Mr. Philip Mille't experiments prove, that plants uniformily perapire most in the forenoon, thoulh the temperature of the nir, in which they are placed, ahould be unvaried, N. Gucttry likemise informs tis, that a plant, expused to tho rays of the sum, bies its
 heat under fhe shade. Yinally the perppiration of vegetables is increased in proportion as the Imosphere is dry, of, in other words, diminished in proportion as the atlimenterfetiomid.
"Sorde Sotanists, ubstrves Dr. Bell, have conceived, that plants, as well ns amimals, have a reguly circulation of their fluids. Others think this very imprabable. On hoth sides, recourse has been had to experiments; and frour these, conclusions perfifetly opposite havedeen deduced. Whien a ligature has been fixed round a tree, in such a manner that no juice coald be transmitted through the bark the treo has been found bn thicken above the ligature : bit betow it, to continue of the same circumference. Hence sotne tasic coricluded, that the sap asceads through the wood, and descends through the bark. Those who are of a contrary opinion have found, that in certain cases, the juice ascends through the bark only; for when a portiou of the wood bans been cat out, min the bark exictly rapliced, the gromth of the tree has tirell found to go on unchanged: bence it is said, that the juico is tranmitted equally through ail parts of vegetables. The experiments addueed on each aide of the question are juth, but the reasorfings on these, by each party, seem equally inconclutive. The malogy of animal nature appears to fivour the opinion, that the juico rises through tho wrood only, and descends only through the bark ; but thits analogy is not complete throughout. The arteries are not placed is the internal parts alone, nor the veins in the external, but they accompany each other through evcry part of their diatribution. In vegetables the sap rises from the rools, but tho proper juice descends towards them ; in the deccent of the juice, the wood acquires its growth, and atuarption is a constant aetion of the leaves. These observations reader it probable that there is a circulation of the fuices; and if there is, the vesuch whied peiform it, we may reasomitly befleve, accompany each other through every part of their course.
The experigents of Mr. Priestley have fufficicntly sliewn that vagetables have the power of correcting bad air; and Dr. Ingetiouz has proved that they have the faculty of produchng vital air only when acted on by the rays of light. If a vegetable is immeried in water, and the reys of the sun dircted on it, air-bubblor will lee observed to collect on the leaves, and at length rise to the surface of the water. The green matter which is to be ohserve! in water is: doubtless, a vegetable production. Water containing this green matter diways afforded vital air in a large quantity, but water, wbich bad it not, Fafforded nonge It is impossible, says Dr. Priettley, not to observe the ad-

## QECONOMY OR VEGETATION.

mirabie provision of nitive. To prevent or lessen the fatal effects of putrofiction, $s$ pecially in hot countries, whicre the rays of the sun are most direct, and the heat anos intense. Animal and vegetable substances, by simple putrefying swould negessarily taint great masses of air, and render it unfit for respiration, did nut the same sostances,
 stance, the seeds of which scem to execed throughout the attuasplere. By these means, instead of tive atsioppliere being corrupted, a large quaptity of the parest'air is conti-
 less offonsive nod uawbolesone thin they would otherwise be That froth inenen we observe on the surface of such waters, and whith is. apt to excite disgast, fergrally consists of tho purest vital air, supplied by equatic plants. When the sun of tib nig may be observed to issue from thicm. Evep when animal and vegetablo siff trefy in air, as they hive grocrally somi, moifture in them, various oty foctable productions, in the firn of mould, sce find a propur notrimont in thean, uila by converting a cousiderable part of the noxious eflluvia into their oyn substance, ungt it io its
 plontifuliy io the light of the sun, afford in tho shade air less pare than that of the at: mopphere. The arikiog effect of light on vegetables is a strong urgument in favour of the opivion, that the motion of the juices of vegetables is performed by vessels abich, like those of animals, possess irritability, und are excited to action by stimelatiog subatances. Plantshave a remarrabile senibibity to light, they anfold their flatere bo the sin, thay follow his course by turning on thair sternes; and are elased asisoon as he disappears. Vegetables phiced in rooms where they receive light in only one direction, duayy extend themselves that way, If thicy receive light in tho directions, they, direct their course towards the strangeit Trees growing in thick forest, where they only re.
 come mich taller and less gpreading than soch is stand single. This affection for light seems to explain the upright growth of vegetables, it carioas phenomenon, too conmon to be much aftended to. It has beca-ascertained, hy repeated experingents, that the green colour of plants is entirely owing to light; for plink reared in the dark are well thoim to be perfectly ibtite. The nourisinent of vegctalver, as it is so intimately connected with tion muportant science of agriculture, tias deservedly attracted corsiderable atteation. Ms. Boyie dried in as overi a quantity of carth proper for vegolation, and affer cirefully weighing it, planted la it the sted of a gourd, he watered it with pare nin-water, and it prodnced a plaat, nhicie weighed foutteen poumds, though the earti had sulficel to rensiblo diminutioc.
A willow-tree was plated by Van Helmont, in a pot, containing too pounds of carti. This was in general watered with distilled water, or sometimes vith nin-water, which appeared perfectly pirc. The vessel contrining the plant wat eovered in toch a manoer as totally to exclude the entrause of ail solid maters. se the end of five years uyon taking out the plant, he found it to have increated "in weight not leg than 119 pounds, though the earth bad lost only two ounces of its origimal weight. Theso experi-
monts wrould admit of some doubt, and must have remnined io a grent measure inexplicable, that for the experiments of Mr. Cavendish, and the facts related by Dr. Priestley. Wrich plice it beyond a doubt, that vegetables have a power of decomposing water, and co math s found to exist in their substance. All the proper juiecs of vegetables depend on theprganization, as is cvident from the operation of graftiog. From the materials of simpe water and uir, are produced those wonderfol diversities of peculiar juices and fruits, wich the vegetableworld affords: and the immense variety of tastes, smells, \&ce Wellya finc vegetable what a viriety is found! The hark is different in taste fiom the wotri, 2 preculiar juices have someching different from them both, und the pith of some plants ( ords a mater which could not have been expected from their exterior qua14ie root is offen different from the stem, and the fruit from both, in all theirs senfopualities. When we attempt to discover the component priaciples of the objects arolide us, and the sources from whenec they are supported, we aro last in the grtancy und diversity of the seetics presented to ut. We see animale nouristied hy vegetatict vegetables apparently by the remains of animals, and fossils composed of the relics of both these kingtoms, It seems certain, however, that vegerables preceded uni-
mats. A soed of moss lodging in a crevice of a bare rock is tlourtstied by the atmors phere, and the moisture affiorded by the rains and deiss It comes to perfection, and olieds its teeds in the mouldering remains of its own substance. Its oftspring do tho sume, till a crust of yegetable mould is formed suficienty thick for the support of grass and other wegetables of the stime growt th. Thio same pracess going forward, shirate, and lastly, the largest trees, may find a firm support out the once barren rock, and bravo the efforse of the tempert. There are certain compound substances, which are formed by the proces of vegetation, and may be obtained without the application of any greater beat than that of boiligg water, orthe action of any othor solvonts, than water and ordent spirit, These substanices may be refesed to the following heads: 1. Gumi, o Sugar. 9. Fat oils 4. Esential oils. 3. Balsums. 6. Camphor. 7. Resil. \& Pure fecula of vegetables, 9. Farina. 10. Vegetable colouring matterí.
I. Goms. Its characters, when in its purest state, are those of a substance inodorous, insipid, generally solid, of more or less transparcucy, with sometimes a slight tinge of colour, geatrally ycllow ; ensily soluble in water into a viscid liquor, called mucilage, in which stite it originally existed in the vegetuble; not acted on by spirit of wine or oils; not volatile in the heit of tolinit water, nor furible in any lient, but subject to the same clrages as other vegetable matter. Gum is very abundant in the vegetable kingdom: it is found in in greit number of roots; the young shouts, and young leaves contain it in large quantities, nad its preserice may be known by its viscous and adhesive quality, when these. parts ufe criblied hetween the figgers. Gum is usually obtained ly wounding the bark of prricular trees. It is obscrvable that saceharine fruits, when Psour imt unripe, are found to contuin gum and in acid; whence it seems not unfair to conclude, that saccharine matter is formed of thene materials, operated on by the process of vegetation.

Vol. 1.

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## 180

11．Sugar．The mixed and various properties of this substance liave rendered che－ mists very doubtful to what class of bodfes it ouglit to bo referred．By some it has been called inflammable，by others satine，and by others it has boen classed among gumen and mucilagibous matters．Sogar is solable，both in water and ardent spirit． more intlummable thain gum，and has not been proved to contain any salt ready except some fixed alkali．It is the only primeiple the presence of which emabil to take on the viscous fermentation．Saccharine matter is found in a great ny mlor of vegetables；fuch us the maple，the bireh，the red－hect，the parsmip，the grap 2 furina－ ceous grain，potatoes．Margraifi，indect，extractet it from most vogetables well kenoiru tint honey is icsaccharine matuer，collected，by the instinet of the af iufinite variety of ptants，but principailly ftom flowers．The arundu sacei sugar－ciane，contains this inatter，lioweverin larger gaantities，thet uffords it mg than any other plant．

111．Far onis are not cmitted from the surfice of（vegetables but are op faimed by pressure from thier emulsive sceds or kernefs．Thay foel smooth to the tonch are ge－ nerally，when recent，without sabll or tiste，and are insolable in water．They are not volatilized but by a heat considerably superior to that of boiling water，and do not take tire till suthicienty heated to be volatilized．When they are burned of tho witk of a lamp，small portions are suecelsively brought to its extremity，and being there polati－ iized，undergo inflammation．Most fatooils are fluid，and require a consiferabie din－ gree of cold to congeat them；others become sofidt by a very siightedegree of cold；mnd others aguin aro atmost illuyys solid：these latis ire called butters．Such are those of the cacao－nut，from which cliocolate is made，and ulso of the cocon－nut．Vegctahle wax is of the same nature，only more sold．

IV．Essextini，ons are remarknble for a strong aromatic smell，and are gufficiently solatile to rise with the hot of boiling water．They are in general soluble in spirits of wine，and their taste is very acrid．They are much mere inffammable than the fat oils Essentinl or volatile oifs exist in most fragrant vegetableg，ant in varigit plants are found in different parts，thus the oil of cionamon is found in tioe bark；of thalh，pep－ permint，and wormwood，in the leaves；of the Bse and lavender，is the tlomer；of nut－ tiegs，anise，thal fenmel，in the seeds．They we olitained either by expression，as from the pecl of oramges and temons，or by detillation wifh water．The periume，or principle of scent，in plants，to which Boerhave gave the name of sjritus recton seem in general to reside in the essential ifl，it composes an extremely smail purt of the weight of vegetahies as may be inferred fom the loss of firgrance phstained by ezsentit oifs， with little or no loss of weight．It does not seem improbable that the pertume，of prim－ ciple of 6 eent，in ptants，is is gas of a pecuifur nature．Its invinibility and volatity，the manner in，which it is expanded and dippersed in the itmoptierg，logetherwith certhin experiments made by 1r．Ingenhoury ，an the nuxious gas affarded by flowers，render this opirion very probable．

V．The proper vegetable Balats are ofty aromatic substinces，imperiectly fluid，ob－ u⿱土厶卩
extensive sease, to denote a variety of vegetable substances, which agrec in consinteace, though differing very widely in their nature and properties. This denomination, howser, is imore proporly confined to such resinous matters as possets a fragrant smell, amp more epecially contain acid, oforant, and conerete salts, which may be extracted hydd yection or sublimation; Buch as beuzoin, balsam of Tolu, and storax.
VI. Cwifforit is a peculiar vegetable substance, of a strong sucll and taste, which revriubl 5 essutial oils in some of its properties, and differs from them in others. It is antach in fre volatile than the eprential oils; with the most gentle heat it sublimes and

Camphor has been gbtained in small quantities from the roots of zed-
(aty, if is rascatiry, sage, anevuotiy, Aod other vegetulbles, by distillation. It is ob-. fat all theso plants afford a much larger quantity of camphor when the sap has been
permint
fod to pass to the conercte state loy several months drying Thyme and pepfrom a syecies of laurel which grows in China, Japan, and in the islands of Borneo, Sumatr, Ceylon, \& 8 c.
VII. Resins are dried juices of plants, of the nature of casential oils. Almost all

- the concrete juices, distinguised by the name of resins, are soluble in ardent spirit, and not is water, whereas gums are solublo in water, and not in spirit. They usually flow foum wournds made in the trmiks of trees, purposely to obtain them. They are inilammable, and hurn with much smoke. In closed vesels they do net rise wholly loy lieat, but we decouposed. Resins differ from batsams in their sumell, which is less agreeable, and eapecially im their contatuing no concrete acid sile
VIII. POUE EECULA of vEGETABELS. If whe süstance of a vegetable is reduced to a pulp by pounding, this pulp, by strong pressure, affords a turbid white or coloured floid, wheh, by staming, deposits a substunce, more or less fibrous or pulverblent, inccording to the nature of the-wegetable substgnce from whieh it was obtained. This is called the focitla of vegetabies and consists ulmost entircly of starch. Some parto of vegetables appoar to he aitogettice composed of this matter; such as the seeds of the grumineous and legetainous plaits, taborous roots, de.

1X. FanNa. Flour, or the pulverized substince of ferinactous seeds, thas a strong numlogy sith the gammy affd sacchatine kucilines. Farinaceote yoeds, it kept in a modorate temperature, and supplied with iniosture, are, by the inciprent ptocess of vee getation, coaverten, in a great ineanure, into saccharine mucilage, as happens in making malt. Wheat-lofur is the moit perlect firima with which we are acquainted. A great numher of vegetafte colouring matted, whichare of an extroctire of sunonaceous nature, are reatdily dissolved in water. The colouring principlef of many other substances refides inal purely rofinous mitien, intolublo in water, and in some instancesphached to malvers insoluble eve, in spint of wing; but they hre all acted on by alkulies, which convett them into a kind of soajss miscible with water. The principle colours of this - batire are the smmotro, at kinif of feenta, olstained by maceration of the seeds of the uracu putretied in water, and which dyes an orange yellow colour ; the thower ov karti-
imus or bastard saffion, which affords a very fine red; archil, which is a paste prepared with mosses, macerated in urine with lime, and which dyes red. The colour of indigo also resides ili- a resinous matter.

Having considered the structure and composition of vegetable substances, it beef nins necessary to direct our attention to certain spontancous changes which they bry erso, wheri deprived of the vital priaciple. These changes are called fermentation which, are three in number, and are termed, from their product, the vinous or spirif Ous, the aretous, and the putrid, the cireumstances universally negessary to ferment moisture, a certain degree of heat, and the contact of air. The three kinds of tien ate sometimes considered as different stagos of one procent; this, homes improper view of the subject, as each kind of fermentation is a peculiar pulc totally different from every other. Some bodies become acid without havz gone the spirituons fermentation, and others putrefy without shewing any dis ansume cillere that on the aretous state.
The conditions necessary for the production of the Visous, or spirituous fermenta. pation, ale,

1. A degree of fluidity slightly viscid.
2. The preseuce of sacelarine mucilage.
3. A proper temperature, which veries from forty-eight to eighty of Falirenbeits thermoincter:
4. The nddition of a quantity of the substanco called yeast, which is itself the product of the vinous fermentation, is of great assistunce in exciting it.

The phenomena presented in liquor during the spiritus fermentation are, First, a muddiness, from the separation of thin aefiht watter, which rises in bubbles, to the tops, in such quantity and in such quick succession, as to produce a hissing noise, and form a frotin. These minute globules of nir occasion the motion of the particles of the floid among one another; and this motion is perceptible, even before the air is visibly separated. The globules of air attach themselves to the particles of the mixtires, and buoy them up; at length the globule is detached, and the atom sinks by its own wighot. The rature of the nif which is disengeged was thot siderstoof till themodern experimenth on ariform fluids afforded so much assistance to chemical science. It is now ascertrined to be the carbonic acid gas, or fixed air, which, being hervier than atmospheric air,' forms a sratum in the upper part of the vessel in which the fluid is fermenting where it may be perceived from its greater density. This air, contained in the fermenting vats of brew-houses, frequenty produce the most fatal effects on the workmen; and a candle dipped into it is af eertintly extingoisticet as if plunged intonnater. Daring the time that the fermentation is going on, the bulk of the liquid is angmented. Anotber phenomenon is the production of a gente beat, equal to abouk $72 \%$ of Pahrenheis therribometes. After some days, the atuiber of which vaties arcorying to the dilation of the sutatance, and the degree of hieat, the motion in the thuid diuminishes, the mizmh abates, and the cuigsion of air is lessened; the liquan becomes clear, and the scum, which consist of the more solid particles and air, becomes theavier in proportion as the
air escapes, and at last sinks. The liquor has now undergone a great change; it hasacquired a pungent and pleasant taste and smell, and an inebriating quality, and has lost ts streetness. If the liquor is now distilled, instead of an insipid matter, we obtain an int spirit, and a sour, gross fluid remains behind.

Acgrous rehamistaxios is still more simple than the spirituous, and consists in the absorption of the vital or oxygenous part of the atmosphere, by which fids are converted into vinegar ; whenec it appears that it is the proportion of yne which constitutes the vast difference which exists between ardent spirit 2.) That wine is converted into vinegar, by tho addition of oxygen, is proved, Im the general analogy of the formation of other acids, as by the following diuaents. In the first plice, iso aanot chango wine into vinegar without exformer to the contact of air containing oxygen, or employing some other xygenation: secondly, this process is accompanied by a diminution of the the air in which it is carried on, from the absorption of oxygen ; and thirdly, wine, by $)$ fing converted into vinegar, is increased in weight.

The Jormid fermenramios is the destruction of the equilibrium which holds the constituent prineiples of bodies in a state of combination. Thus a vegetable substance, which, when eutire, consists of a triple combinatian of hydrogen, oxygen, and carbou, is resolved ly putrefaction into hydrogen gas, and carbonic acid gas, which consists of oxygen and carbon. As there is not enough of oxygen to convert all the carbon into carbonic acid gas, a quantity of the charcoal remains lsehind, mixed with the earthy and saline matter contained in the vegetable. Thus putrefaction, in a vegetable substance, is nothing more than a complete analysis of it, in which the constivuent elements are disengaged in the form of gas, except the earth, and a quantity of charcoal which remains in the state of mould. Such is the result of putrefaction when the substances submitted to it contain only oxygep, hydrogen, charcoal, and a little earth. But this case is rare; and these substances putrefy imperfoctly and with difficulty. It is otherwise with substances containing azote, which ifdeed exists in all animal matters, and in a considerable number of vegetables. The putrid fermentation of animal substances is commonly called putrefaction, and this is well known to take place in them, after they are deprived of life. The circumstances which favour putrefaction are the same as those which promote the spirituous and acctous fermentations, viz humidity, the admission of air, and a due degree of heat. "There is, perlaps, says Dr. Gregory, no process of nature better understood than that of fermentation, and yet there is not any more calculated to excite our astontshment; there is not any instance within my recollection so striking, of the surprising change which combination produces in bodies; and it is the more wonderful, whea we consider, that different proportions of the same ingredionts produce fluids essentially distinct in all their leading characters. He that " made a wigight for the winds, and weigheth tho water by measpre;" how excellently has he ordered all things for the lenefit of his creatures I "The undevout astronomer is mad," if the strong expression of a sublime writer ; yet, if the wisdom and providence of God Vol. I.

184 aECONOMY OF VEGETATION.
be evident in those immense bodies, of the structure of which we are in a great measure ignorant, surely it is much more so in these minute operations, which are the immediate objects of our senses, where every thing is plainly the effect of intelligence and design and bowever ignorant and superficial observers may wander from the path of truth, naturalist at least can nerer be an atheist.

## CHAPTER VII.

$\because \mathrm{A}^{\mathrm{N}}$ doimal bas been defined to be an organized and living body, which is also end with sensation. Some philosophers affirm that this property of sensation bo deemed the characterisfic of an animal, and that by this the animal and kingdoms are so essentially separated, that we cannot even imagine the least tion of the one to the other. M. Buffon, however, denies that sensation afi preciso distinction. "Sensation, says he, more essentially distinguishes anivegetables, but sensation is a complex idea, and requires some explication; Sation implied no more than motion consequent upon a stroke or an impulse, the sensitive plant enjoys this power. But if by sensation wo mean the faculty of perceiving and comparing ideas, it is uncertain whether brute animals be endowed with it, If it should be alloired to dogs, elephants, \&c. whose actions seem to proceed from motives similar to those by which men are actuated, it must be denied to many species of animals, particularly to those which appear not to possess the faculty of progressive motion. If the sensation of an oyster, for example, differed only in degree from that of a dog, why do we riot ascribe the same sensation to vegetabtes, though in a degree stifl inferior? This distinetion, therefore, between the animal and vegetable, is neither sufficiently general nor determined."

Some plilosophers, far from being convinced by these observations of Buffon, have appealed to the principle of self-preservation as a characteristic of such beings as are endowed with sensation. "There is no anintal, say they, which makes any motion ia consequence of external impulse when danger is threatened, but what puts itself into a posture of defence. But no vegctable whatever does so. A muscle, when it is touched, inmediately shuts its shell, and as this action puis it in a state of defence, we conclude that it proceeded fronf the principle of self-prescrvation. When the sensitive plant contracts from a touch, it is to more in a state of defence than before, for whatever would have destroyed it in it' expanded state, will also do it in its contracted state. We conclate, thecefore, that the motion of the sensitive plant proceeds only from a certain property, called by plysicians irritability, aud which, though our bodies possess it in am eminent degree, is a characteristic neither of animal nor vegetable life, but belongs to us in comnon with bruse matter. . It is certain that un electrificed silk thread thens is much greater varicty of motions than any sensitive plant. If a bit of silk tirecat is droet on an electrified metal plate, it immediately crects itself, spreads out the sinell nthts like arus; mind if not detuined, will tly off. If a finger is brought near it, the throad seems greedily to catch at it. If a candle approaches it, it chaps close to the
plate as if afraid of it, why do we not conclude that the tiread in this case is really afraid of the candle? For this plain reason, that its seeuing flight is not to get away from the candle, but to get toyard the electrified metal, and if allowed to remain there will suffer itself to be burnt without offering to stir. The sensitive plant, in like many after it has contracted, will suffer itself to be cut in pieces without making the lea fort to escape. The case is not so with the meanest animal. An hedge-fiog When alarmed, draws its body together, and expands its prickles, thereby putting if Af in a posture of defence. Throw it into water, and the same principle of self-pro frvation prompts it to expaind its body and swim. A snail, when tofeched, withdraws felf into its shell, but if a little quick-lime is sprinkled upon it, so that its shell is n longer a place of safety, it is thrown into agonies, and cefteayours to avail itself of i Peomotive power, in order to escape the danger. But there is no need of argami nts drawn from the inferior creation. We ourselves are possessed both of the animal mad vegetable life, and certainly must know whether there is any connection between egetation and sensation or not. We are conscious that we exist; that we hear,'see, \&ce. (ut of vegetation we are absolutely inconscious. We feel a pleasure, for instance, in datifying the calls of hunger und thirst; but of the process by which our aliment is formed into chyle, the chyle mixed with the blood, the circulation of that blood, and the separation of all the humours from it, we are altogether ignorant. If we then, who are more perfect than other vegetables, are utterly insensible of our own vegetable life, why should we imagine that the less perfect vegetables are sensible of it?"
"Plants, says Lord Kaimes, when forced from their natural position, are endowed with a power to restore themselves A bop-phant, twisting round a stick, directs its course from south to west, as the sun does; untwist it, and tie it in the opposito direction it dies. Leave it loose in the wrong direction, it recovers its natural direction in a single night. Twist a branch of a tree so as to invert its leaves, and fix it in thatposition: if left in any degree loase it untwists itself gradunlly till the leaves be restored to their natural position, what better can an animal ao for its welfare? A root of a tree meeting a ditch in its progress is laid open to the air. What follows? It alters its course like a rational being, dips into the ground, surrounds, the ditch, rises on the opposite side to its wonted distances from the surface, and then proceeds in its original direction. Lay a wet sponge near a root laid open to the air; the root will direct its course to the sponge. Change the place of the sponge; the root varies in its direction. Thrusta pole into the ground at a moderate distance from a scandent plant, the plant direcis its course to it. A honcy-suekte proceeds in its course till it be too long for supporting its wcight; and then strengthens itself by shooting into a spiral. If it meets with abother plant of the same kind, they conlesce for mutual support, the one screwing to the right, the other to the left. If a honey-suckle twig meets with a dead branch, it screws from the right to the left. The claspers of briony shoot into a spiral, und lay held of whatever comes in their way for support. If, after completingea spiral of three rounds, they meet with nothing, they try again by altering their course."
To these, and many other instances of apparent sagacity in vegetables, has been con-

## ANIALATED NATURE,

 ay of which human beings are possessed, and yet this is done without our being consc ss how it is done, or that it is done atail. Here then, it is alledged, we havo in ournelr a demonstration that vegetable life acts without knowing what jt does ; and if vegetab are ignorant of their most sagacious actions, why should wo suspect that they bave tracting frotu asation, let it be ever so obscure, of any of their inferior oues, such as cona touch, turning towards the ${ }^{\text {sisun, }}$, or advancing to meet a pole. To descrije the nature of the faculties of brutes, and mark precisely how fir their inरहllizence ev: are not able to offer my thing like a system on this subject. We can only throw topbservatiuns, and relate some interesting anecdotes, by which they are supported. B fes not unly experience hunger and thirst, and other appetites, but are possessed of certain feclings, which anay be properly called affections. Envy is visible in a dog, cruelty in a cat, and in monkeys an universal propensity to mischief. The least sttentive inspection of the manners of lsutes is sufficiont to convince us that they destroy each other, not merely from bunger, but from the most cruel aversion. From these malevolent dispositions Father Bougeant concludes that they are animated by fallen angels. Had this Jesuit considered the creation with a more impartial eye, he might have seen, however, in thie fifferior animals the most striking instances of maternal affection, of gratitode and fidelity towards the haman species, and even of sincere and permanent friendsbip between animals the most dissimilar in their kinds. As to the natural iffection of brutes, says an ingenious writer, " The more I reflect on it the more I am astonished at its effeets : nor is the violence of this affection more wonderful than the shortness of its duration. Thus every hen is in her turn the virago of the yard in proportion to the helplessness of her brood; and vill flyain the face of dog, or a sow, in defence of those chickens which in a fow weeks she will drive before her with relentless cruelty. This affection sublimes the passions, quickens the invention, and sharpens the sagacity of the brute creation: Thus an hen just become a mother, is no longer that placid bird she used to be, but with fathers standing on end, wings hovering, and clacking note, she runs about like one possessed. Dams will throw "themiselves in the way of the greatest dangers, in order to avert it from their progency. Thus a partridge will tumble along before a sportsman in order to draw away the dogs from ber helpless covey. In the time of nidification the most feeble birds will assault the most rapacious, All the hirundines of a village are up in arms at the sight of an bawk, whom they wiil persecute till be leaves that district. A very exact observer has often remarked, that a pair of ravens nestling ti the rock of Gibralter, would suffer no vultare or eagle to rest near this station, but would drive them from the bill with an amazing fory: even the bloe thrub, at the season of breeding, would dart out from tho clifts of the rocks to VOL. I.chose away the kestril or the sparrow-hawk. If you stand near the nest of a Lird the has young, shie will not be induced to betray them by an madvertent fondness, but wait nberut at a distance with meat in ber mouth for an bour together. The fly frelier builds every year in the viues that grow on the walls of my house. A pair of ty se liink birds lad one year iaadvertently placed their nests on a naked bougb, perhaps o shady time, not being aware of the inconvenience that followed, hat an hot sumby sef o coming on before the brood was half fledged, the reflection of the wall became in /pportable, and must inevitably have desmoyed the tender jourg, had not affection sf gested an expedient, and prompted the parent birds to hover over the nests all the I/fer bours, while, with wings expanded, and mouth giping for breath, they serecred of 0 beat from their suffering offspring. Further, I once saw in aं willow a wrea, which hid built in a bank in my ficlds. This bied a fricend and myself bad observed as she sat ob her nest, but were particularly careful not to disturb her, though we snaw she eyed forth some degree of jealousy. Some days after we passed that way, and were desirofs of remarking bow this brood went on, but no nest could be found, till I happenedfo take up a large bundle of long green moss, as it were, carelessly thrown over the nest in order to dodgo the eye of an impertinent iutruder."

A wonderful spint of sociality in the brute-ereation, independent of several attechments, hass been frequeutly remarked. Many horses though quiet with company will not stay one minute in a field by themselves ; the strongest fences cannot restrain them. A horse has been known to lcap out of a stable wiador through which dong was thrown, after company, and yet, in other respects, to be remarkably quiet. Oxen and cows will not fatten by themselves ; but will neglect the finest pasture that is not recommended by society. It would be neeciless to instance in sheep, which constantly flock together. But this propensity scems not to be confined to animals of the same species. In the work last quoted, we are told of a doe, still alive, that was brought up from a little fawn with a dairy of cows ; with them it goes to fiels, and with them it retarns to the yard. The dogs of the house take ne notico of this deer, being used to her ; but if a strange dog comes by, a cliase ensues ; while the master smiles to see his favourite securely leading her parsuers over bedge, or gate, or stile, till she return to the cows, who, with fierce lowing, and menacing horns, drive the assailant quite out of the pasture.

So many instances of thie attachment of animals to their masters are known to every one, that it might apperf superfluous to recite any, we will, however, relate one which is of unquestionable authority, and whilo it illustrates the subject we are discussing bas, at the same time, a tendeney to excite our gratitude to the great Father of the universe. At the seat of the Inte Earl of Litchfield, three miles from Blenheim, there is a portrait in the dining-room of Sir Henry Lee, by Johnston, with that of a mastiff dog which gaved his life. It seems a servant had formed a design of assassinating his master, and robbing his house ; but the night he had fixed on, the dog, which bad never been much noticed by Sir Henry, for the first time followed him up stairs, got under his bed, and sould not be got thence by master or man ; in the dead of elte night the same terrant en- $g$ secured, confessed bis intentions. There are ten quaint lines in one comer of the which conclude thus,

But in suy dog, whereof I made no store, More love I found than those I trusted more.

Some of th mory, recol have neverf meat of fire. sient to their its "existence, though many every day of was known atrange defect of rationality, unaccountable espon any other supposition than that the soul or thioking principle of brutes is somehow or other inferior in its nature to that of men ; but still it is a principle capable of perceptions as quick, and in many instances much more so than our own. While some of the actions of brutes prove that they are far inferior to men, others may be remarked which display wisdom surpassing any to which he can make pretensions. It has been usual to refor their action to two different eauses, reason, and instinct. Whether both of these may in some cases operate together, it appears not very easy to determine. Actions performed with a view to accomplish sacertain end, are called rational actions, and the end in vien is the miotive to their performance. Instinctive actions have a cause, viz. the internal impulse by which they are spontaneously performed, bat they gannot be said to have a motive, because they are not done with any view to consequences. Can it, however, be affirmed with certainty, that all the actions which exhibit proofs of instinct are performed without the animals having any fore-knowledge of the purpose they are to answer? We shail give one instance of the porer of instinct, in the elegant and perspicuous language of Dr. Reid. "Every manufacturing art among men, says that able writer, was invented by some man, improved by others, and brougbt to perfection by time and experience ; men learn to work in it by long pructice, which produces a babit. The arts of men vary in every age and nation, and are found only in those men who have been taught them. The manufactures of animals differ from those of men in many striking particulars; no animal of the species can clain the invention, no animal ever introduced any new improvement, or any variation from the former practice; every one of the species has equal skill from the beginning, without teaching, without experience, and without hathit ; every one has its art by a kind of inspiration. I do not mean that it is inspired with tho principles or rules of art, but with the ability of working in it to perfection, without any kuguindeef its principle rules or end. The work of every animal is, indeed like the
works of nature, perfect in its kind, and can lyar the most critical examination of the mechanic or the mathematician, of which a honey-comb is a very strikigg instance,"
" Bees, it is well knawn, egpstruct their combs with small cells on both sides, 6 poth for holding their store of honey, and for rearing their young. There are on thres possible figures of the cells, which can make them ah equal and similar, wy put any useless interstices. These are the equilateral triangle, the square, and the ref far hexagon; of the three the hexagon is the most proper both for convenience a strength. Bees, is if they knew this, make their cells regular hexagons. As the con shave cells on botic sides, the cells may either be exactly opposite, having partition agat or the bottom of a cell may rest upon the patitions between the cells on 1 which will serve as a buttress to strengtien it. The last way is the best accordingly the bottom of each cell rests against thie point. where three pr on the other side, which gives it all the strength possible. The bottom of either be one plane, perpendicular to the side of the partitions, or it may of several planes meeting in a solid angle in the middle point. It is only if one of these two ways that all the cells can be similar without losing room. And for he same intention, the planes of which the bottom is composed, if there be more than one, must be three in number, and neither more nor fewer. If it has three planes meeting in q point, there is a saving of material and labour no way inconsiderable. The bees, as if nequainted with these principles of solid geometry, follow them most accurately ; the bottom of each cell being composed of three planes, which make obtuse angles with the side partition, and with one another, and meet in a point in the middle of the botton ; the three angles of this bottom being supported by three partitions on the other side of the comb, and the point of the common intersection of these three partitions. One instance more of the mathematical skill displayed in the structure of an honeyecomb, deserves to be mentioned. It is a curious mathematical problem, at what precise angle the three planes which compose the bottom of a cell oughe to meet, in order to make the greatest saving of material and labour. This is one of those problems belonging to the higher parts of mathematics, which are called problems of maxima and minima. The celebrated M'Lauria resolved it by fluxionary calculation, which is to be found in the Transactions of the Royal Society of London, and determined precisely the angle required. Upon the most exact mensuration which the subject could admit, he afterwards found that it is the very angle in which the three olanes in the bottom of the cell of a honey comb do actually meet"
"Shall we ask here, who taught the bees the properties of solids, and to resolve problems of maxima and minima? If a honey-comb were a work of human art, every man of common sense would conclude, without hesitation, that be who invented the construction must have understood the principles on which it was constructed. We need not say that bees know none of these things. They work like a child who, by turnng the hendle of an organ makes good music wjithout any knowledge of music. The art is sot io the clild, but is him who made the organ. In like taianner, when a bee mnkes its
combs so geometrically, the geometry is not in the bee, but in that Great Geometrician vho made the bee, and made all things in number, weight, and measure.
Xvimuls are distinguished into mammalia, or animpls that give suck, birds, amphihious pnimals, fishes, insects, and worms. The charactors of the first class are these ; the figut has two ventricles, and two auricles ; the blood is red and warm ; and the animals befloging to it are viviparous. This class is sub-divided into seven orders ; the characte of which are taken from the number, structure, and situation of the teeth. The prif ltes have four incisores of fore tecth in each jaw, and one dog-tootl;. N. B. By one d $\frac{d}{g}$-tooth Linneus means one on each side of the fore-tooth in beib jaws. This order includes four genera, man, the monkey, the macauco, and the bat. Of man it is intended to treat in the next chapter. Monkeys are a numerous race, but almost all confined to the torrid zone ; the face lively, agile, full of frolic, chatter, and grimnce. From the istructure of their members they have many actions in common with human kind. Most of them are fierce and untameable, some are of a milder nature, and wili shew a depfee of attachment, but in general they are endowed with mischievous intellects ; and are filthy, obscene, lascivious, and thieving. They inhabit the woot's, and live oh trees ; feeding on fruits, leaves, and insects. In general they go in vast companies ; -but the different species never mix with each other, always keeping apart, and in different quarters. They leap with vast activity from tree to tree even when loaded with their young, which cling to them. They are the prey of leopards and others of the feline race; and of serpents, which pursue them to the summit of the trees, and swallow them entire. They are not carnivorous, but, for mischief's sake, will rob the nest of birds of the eggs and young. In the countries where they most abound the sagacity of the feathered tribe is more marvellously shewn in their contrivances to fix the nest beyond the reach of these invaders. The macauco or maky, bears some resemblance to the monkey, but is not his equal in activity or propensity to mischief. Bats have a membrane attached to the feet and sides, by means of which they are enabled to fly. They are very voracious animals, and eagerly devorr almost any food that comes in their way. The second order of mammalia are distinguished by the appellation of brutes ; they have no fore-teeth in either jaw. This order includes seven genera, viz. the rhinoceros, the elephant, the walrus, the sloth, "the ant-eater, the scaly lizard, and the armadillo. The rhinoceros is remarkable for a horn or horns on its nose; the elephant for its proboscis and astonishing sagacity ; the walrus for its enormous tusks, which point downwards ; and the sloth for the difficulty and slowness of its motion. The ant-eaters are of different species, but have many properties in common with each other both in their structure and manners. They all feed upon ants, and plange their tongues into honey and other liquid substances. They readily pick up crumbs of bread, or small morsels of flesh. They are easily tamed, and can subsist for a long time without food. They never swallow all the liquor which they take for drink; for a part of it falls back through their nostrils: They run so slowly that a man may easily overtake them in an open ficld. Their flesh, though the taste be very disagrecable, is eaten by savages. The nimvillo is armed with a hard bony shell, which is intersected by several belts or zones Yol. I.

To the third order, that of ferx or wild beasts, belong ten genera or tribes, the seat, the dog, the cat, the weasel, the genus mustella, composed of weasel and otter, the bear, the opussum, the mole, the shrew-mouse, and the liedge-hog. The hind feet of tie seal are rivetted so as to resemble a sheep's tail. They are amphitious, spending great part of their time in the sea, but occasionally visiting the shore. In the dog $y^{\prime}$ tec ore reckoned the dog, the wolf, the byma, the mexicanus, the fox, the jackal, the fesomelas, the thous, and the zerda. The lion, the tyger, the panther, the ounce, th/ leopard, the jaguar, the ocelot, the hunting leopard, the black tyger, the puma, the if gay, the tyger-cat, the cat, the manul, the lynx, the serval, the caracal, the cat of tho nountain, are all classed together in the genus of cats. . The weasel tribe consists of sevelal species of that name, the ichneumon, the civet-cat," and varibus other small animals. The mustella tribe contains the different species of otter; some kinds of weasel, the polecat, the matin, the sable, the ferret, and the ermine. With the bear are classed ;the racoon, and the badger. The opussum has a pocket formed by a duplicature of the skin of the belly, in which the dugs are included. To this tribe belong the kangaroo. The name of glires or dormice bas been given to the fourth order of mammalia. They are distinguished by having two fore-teeth in each jaw, and no dog-teeth. This order includes ten genera, the porcupine, the hare, the beaver, the mouse, the squirrel, the dormouse, . the concy, the marmot, the jerboa, and the ashkoko. The porecopine kind are all of them covered with quills or prickles. The rabbit and the agatona are classed with the hare and the musk, the rat with the beaver, the beaver-rat, the rat, the hamster, and the mole-rat, with the monse. The fifth order of mammalia are called pecora or cattle, These have no fore-teeth in the upper jaw, but six or eight in the lower. This order includes eight genera, the camel, the musk animal, the cameleopard, the deer, the goat, the sheep, and the ox. The camel, the dromedary, the lama, and pacas, form onte order, are further distinguished by a division in their upper lip like that of a hare. The musk animals have also no horns, but tro long tusks projecting out of their mouth, The cameleopard has straight, and thee deer branched horns. The antelope agrees with the goat in the texture of the horns, and with the deer in the elegance of its form and great swiftness. The horns of the sheep are concave, turned backwards, and full of wrinkles, and it is further remarkable for its covering of wool. To the ox kind are referred the bison, and the buffalo. The sixth order are called bellue or large beasts, and have obtuse fore-teeth in each jaw. To this order belong the horse, the hippopotamus, the tapir, and the hog. With the horse is classed the ass, the onager, and the sebra. The seventh order are the cete or whale kind ; these have no uniform character in their teeth, being very different in their different genera ; but are sufficiently distinguished from other orders of mammalia by living in the ocean, baving pectoral fins, and a fistula or spiraculum upon the head. Nature on this tribe hath bestowed an internal structure io all respects agreeing with that of quadrupeds; and in a few others the exsernal parts of both are similar. Cetaceous fishes, like land animals, breathe by means of lungs, being destitute of gilk. This obliges them to rise Atequently above the surface of the water to respire, to slecp, as well as to perform several other functions.. Hisy
have the power of uttering sounds, such as bellowing, and making other noises denied to genulne fish. Like land animals they have warm blood, bring forth and suckle their young, shewing a strong attachment to them. Their bodies, beneath the skin, are entirely surrounded with a thick layer of fat, (blubber) analogous to the lard on hogs. The number of their fins never exceed three, viz. two pectoral fins, and one back fin ; but in sqme species the last is wanting. Their tails are placed horizontally, or flat, in respect to their bodies, contrary to the direction of all other fish, which baye them in a perpendicular site. This situation of the tail enables them to force themselves suddenly to the surface of the water to breathe, which they are so frequently constrained to do. This ordel includes the sea unicorn, the avhale, the fin-fish, and the dolphin.

The second class are called birds. The characters are the same with the first class, - excepting that the animals belonging to it are oviparous. A bird is an animal covered with feathers ; furnished with a bill ; having two wings, and only two legs, with the faculty, except in a very few instances, of removing itself from place to place through the air. The bll is a hard horny substance, consisting of an upper and an under part, extending from the head, and answering to the mandibles in quadrupeds. In birds of prey the bill is booked at the end, and fit for tearing ; in crows straight and strong, for .picking ; in water-fowl either long and pointed for striking, or slender and blunt for searching the mire, or flat and broad for gobbling ; its other uses are for building nests: feeding the young ; climbing, as parrots ; or lastly, is an instrument of defence or offence. Birds are destitute of external ears, having an orifice for the admission of sound. The neck is longer in birds than in any other animals ; and longer in such as have long legs than in those that have short ; either for gathering up their meat from the ground, or striking their prey in the water, except in web-footed fowl, who are by reversing their-bodies, destined to search for food at the bottom of waters, as swans and the like birds, especially those that have a long neek, have the power of retracting, bending, or stretching it out, in order to change their centre of gravity from their legs to their wings. Their rump is furnished with two glands, secretigg a fattish liquor from an orifice each has, which the birds express with their bills, to oil or anoint the discomposed parts of their feathers. These glands are particularly large in most web-footed water-fowl; but in the grebes, which want tails, they are smaller. The tail is the director or rudder of birds in their flight ; they rise, sink, or turn by its means ; for when the head points one way the tail inclines to the other side; it is, besides, an equilibrium or counterpoise to the other parts; the use is very evident in the kite and swallows. Feathers are designed for two uses; as covering from the inclemency of the weather, and instruments of motion through the air. They are placed in such a manner as to fall one over another so as to permit the wet to run off, and to exclude the cold. Most birds pair in the spring, fixing on a mate, and keeping constant till the care of incubation and educating their young brood is past. Birds that lose their mates early, associate with others; and birds that lose their first eggs will pair and lay again. Themale, as well as the female, of several, join alternately in the trouble of incubation; and always in that of nutrition; wher tirjoung are batched, both are busied in looking out for and bringing food to the

## 194

## ANIMATED NATURE.

nestlings ; and at that period, the mates of the melodious tribe, who before were perclied on some sprig, and by their warbling alleviated the care of the females confined to the nest, now join in the commion duty.

The great improvenicnts in natural bistory which have taken place since the days of Linnaxus, have obliged succeeding philosophers to forsakc, in certain instances, the arrangement of birds of which be was the author. The system of Mr. Latham if esteemed one of the most complete; we shall therefore present a brief sketch of it to the view of the reader, interspersed with a few observations on the ceonomy of the different orders or genera. Birds are, by that able naturalist, arranged in twof divisions, land birds, and water birds. The first of these is sub-divided into six orders, first, rapacious ; second, .pies ; third, passerine ; fourth, columbine ; fifth, gallinaceous ; and sixth, strutheous. Under the general namo of rapacious birds, are included the three genera, vultures, falcons and owls. Among the vultures are reckoned the condor and the sagitary ; and among falcons, eagles, hawks, and buzzards. The nest of the larger rapacious birds are rude, made of sticks, but often tined with something soft; they generally build in high rocks, ruined towers, and desolate places. Enemies to the whole feathered creation, they seem suspicious of attacks, and scek solitude. A few build upon the ground. Rapacious birds lay but few eggs ; eagles, and the larger kind, fewer than the lesser. The eggs of falcons and owls are rounder than those of most other birds, they lay more than six. The order of pies has twenty-seven genera : the shirke, or butcher-bird, the parrot, the toucan, the motmot, the hornbill, the beef-eater, the ani, the watte-bird, the crow, the roller, the oriole, the grackle, the paradise-bird, the carucui, the barbet, the cuckoo, the wryneck, the woodpecker, the jacamar, the kingsisher, the nuthatch, the tody, the bee-eater, the hoopoc, the creeper, the humming-bird. The bill in birds of the parrot genus is hooked from the base, the upper mandible is moveable; the nostrils are round, placed in the base of the bill, which in some species is furnished with a kind of naked skin, the tongue is broad, and blunt, at one end; the head is large, and the crown flat; the legs are short; the toes placed two before and two behind. It might seem a wonder why nature has destined to this, which is not naturally a bird of prey, bat feeds on fruits and vegetable substances, the crooked beak allotted to the hawk and other carnivorous birds : but the reason seems to be that the parrot being a heavy bird, and its legs not very fit for service, it climbs up and down trees by the help of this sharp, and hooked bill, with which it lays hold of any thing, and secures itself before it stirs a foot; and besides this, it helps itself forward very much by pulling its body on with this hold. Of all animals the parrot and the crocodile are the only ones which move the upper jaw; ; all creatures else move the lower ones only. The grand characteristic of the woodpecker and wryneck is the tongue, the muscles necessary to the motion of which are singular, and worthy of notice, atfording the animal means of darting it forward the whole length, and withdrawing it within the mouth at will. Of the kingsfisher tribe there are a great many species, with one or other of which almost every part of the world is furnished: Most of them frequent rivers, and live on fisb, the singularity of catching which is admirable ; sometimes hover.

## ANIMATED NATURE,

ing over the water where a shoal of small fishes is seen playing near the surface; at other times waiting with attention, on some low branch hanging over the water, for the approach of a single one who is so unlucky as to swim that way; in either case dropping like a stone, or rather darting with rapidity on his prey; when seiring it crosswise in its bill it retires to a resting place to feast on it, which it does piecemeal, bones and all, without reserve, and afterwards brings up the indigestible parts in pellets, like birds of prey. The wings of the most part of the genus are very short, yet the bird flies rapidly, and with great strength. It may be remarked that throughout this genus blue, in different rhades, is the predominant colour. With the crow are classed the raven, the jackdaw, the rook, the jay, and the magpie. Slirikes allied to the rapacious birds, build their nest in bushes, with moss, sool, \&cr The order of pies are very irregular in the structure of their nests. Parrots, and in fact all birds with two toes backward, and two forward, lay their eggs in the hollow of trees. And most of this order creep along the bodies of trees, and lodge their eggs also within them. Crows build in trees among them. The nest of the magpie, composed of rude materials, is made with much art, quite covered with thorns, and only a hole left for admittance. The nests of the orioles ere contrived with wonderful sagacity, and are hung at the end of some bough, or between the forks of extreme branches. In Europe only three birds have pensile nests; the common oriole, the parus pendulinus, or hang nest, and one more. But in the torrid zone, where the birds fear the search of the titmouse, gliding serpent, and inquisitive monkey, the instances are very frequent; a marvellous instinct implanted in them for the preservation of the young. The order of pies vary greatly in their number of eggs. Parrots lay only two or three white eggs. Crows lay six eggs, greenish, mottled with dusky. Cuckoos, as far as we can learn, lay two. Woodpeckers, wrynecks, and kingsfishers lay eggs of a clear white, and semi-transparent colour. The woodpeckers lay six, the others more. The nuthatch lays often in the year, eight at a time, white, spotted with brown. The hoopoe lays but two cinerous eggs. The creeper lays a great number of eggs. The humming-bird most frequently builds in the middle of a branch of a tree, and the nest is so small that it cannot be seen by a person who stands on the ground : any one, therefore, desirous of seeing it must get up to the branch that he may view it from above : it is for this reason the nests are not frequently found. The nest is of course very small, and quite round: the outside, for the most part, is composed of green moss, common on old poles and trees : the inside of soft down, mostly collected from the leaves of the great mullein or the silk grass; but sometimes they vary the texture, making use of flax, bemp, hairs, and other soft materials : they lay two eggs of the size of a pea, which are white, and not bigger at one end than the other. The passerine, or sparrow order, contains the following 16 genera: the starling, the thrush, the chatterer, the coly, the grossbeak, the bunting, the tanager, the finch, the flycatcher, the lark, the wagtail, the warbler, the manakin, the titmouse, the swallow, and the goatsucker. The missel, the fieldare, the redwing, the blackbird, and the ouzel, are classed with the thrush; the crossbill, the bowfinch, the bullfinch, and the greenfinch, with the grossbeak ; the mountain-finch, the ortolan, the yellow bammer, the red Vol. I.
sparrow, with the bunting ; the brambling, the sparrow, the linnet, the redpoles, the twite, and the canary-bird, with the finches; the nightingale, the hedge-sparrow, the redstart, the petty-chaps, the black-cap, the sedgebind, the red breast, the whinchat, and the wheat-ear, with the warbler ; and both the martins and swifts, with the swallows, by the common name of hirundines. Most of the passerine order build their nests in slirubs or bushes, and some in holes of walls or banks. Some in the torrid zone are pensile from the boughs of high trees. Some of this order, such as larks, and the goatsucker, build on the ground. Some swallows make a carious plaister nest beneath the roofs of houses, and an Indian species, nests of a certain glutinous matter, which are collected as delicate ingredients for soups of Cbinese epicures. . All of this order lay from four to six eggs ; except the titmouse and the wren, which lay fifteen or eighteen, and the goatsucker, which lays only two. The columbine order consists of only one genus, that of pigeons, but of these there are a great number of species. This race makes a most artless nest, a few sticks laid across may suffice. They lay but two white eggs, but the domestic kind breed almost every month.

The fifth order, the gallinaceous, or hen tribe, contains eleven genera: the peacock, the turkey, the pintado, the curasso, the pheasant, the tinamon, the grous, the partridg?, the trumpeter, and the bustard. The dunghill cock and hen are classed with the pheasant, the wood-cock with the moor-hen, and the quail with the partridge. The gallinaceous order, the most useful of any to mankind, lays the most eggs, from eight to twenty, with exceptious to the bustard, a bird that hangs between the gallinaceous and the waders, which lays only two.

The sixth order, the struthious, or ostrich tribe, has four genera: the dodo, the African ostrich, the cassowary, and the American ostrich. Nature hath denied flight to this order, but still in running their short wings are of use, when erect, to collect the wind, and, like sails, to accelerate their motion. All of the gallinaccous and struthious lay their eggs on the ground. The ostrich is the only exception among birds of the want of natural affection, "Which leaveth , her eggs in the earth, and warmeth them in the dust, and forgetteth that the foot may crush them, or the wild beasts may break them." The struthious order disagrees much in their number of eggs; the ostrich laying as many as forty or fifty, the dodo but one.

The water-fowls are divided iuto three orders, the waders, the birds with pinnated feet, and the web-footed. To the waders belong seventeen genera: the spoonbill, the screamer, the jabina, the boatbill, the umbre, the heron, the ibis, the curlew, the snipe, the sandpiper, the plover, the oyster-catcher, the cursorius, the rail, the jacana, the galIinule, and the sheathbill. With these are also classed the crane, the argill, the egrett, and the bittern, the lapwing, the ruff, and the stint. Many of the greater cloven-footed water-fowl have a slow and flagging flight; but most of the lesser fly swiftly, and most of them with extended legs, to compensate the shortness of their tails. Rails and gallinules fly with their legs hanging down. Most of the cloven-footed water fowl lay upon the ground; spoonbills, and the common heron build in trces, and make up large nests with sticks, \&c. Storks build on churches, or the tops of houses. This order lays in

## ANIMATED NATURE.

general four eggy; the crane and the Norfolk plover seldom more than two. All those of the saipe and plover genus are of a dirty white, or olive, spotted with black, and scarce to be distinguished in the hales they lay in. The bird called the land-rail lays from fifteen to twenty eggs. The birds with pinnated feet are of three genera: the phalarope, the coot, and the grebe. Coots and grebes with difficulty are forced from the water, but when they rise fly swifly. Coots make a great nest near the water side. Of birds with pinnated feet, the coot lays seven or eight eggs, and sometimes more ; grebes from four to eight, and those white. Of the web-footed fowls there are three genera, with long legs : the avoset, the courier, and the flamingo ; and fourteen with short legs : the albatross, the auk, the guillemot, the diver, the skimmer, the tern, the gull, the petrel, the merganser, the duck, the penguin, the pelican, the tropic-bird, and the darter. The cormorant, the shag, the gannet, the booby, and the man-of-war-bird, have here the general denomination of pelican ; and the swan, the goose, the teal, and the vigoon, are referred to the same genus with the dack, as the smew is that of the merganser. Webfooted fowl breed on the ground, as the avosett, tern, some of the gulls, mergansers, and ducks; the last pull the down from their breasts to make a softer and warmer bed for their young. Auks and guillemots lay their eggs on the naked shelves of high rocks ; ,peoguins in holes under-ground : among the pelicans, that which gives name to the gepus, makes its nest in the desert on the ground. Shags sometimes on trees, coraiorants and gannets on high rocks, with sticks and other coarse materials. They differ in the number of their eggs ; those which border on the orders of waders lay few eggs; the avosett two ; the flamingo three; the albatross, the auks, and the guillemots lay only one a-piece; the eggs of the two last are of a size strangely large in proportion to the bulk of the birds. They are commonly of a pale green colour, spotted, and striped so varioasly, that not two are alike; which gives every individual the means of distinguishing its own on the naked rock where such multitudes assemble.

As the third class of animals receive 'their name of amphibious from their living partly in the water, and partly on the land, we have a fit place to inquire wherein this faculty consists, and assign the reason why it is not possessed by all animals. For this purpose it is necessary to extend our observations not only to the whole of the class amphibia, but to several tribes of quadrupeds, and to the eels, though generally numbered among fishes. "It has been a question," says a writer in the Encyclopedia Britannica, "whether the animals commonly called amphibious, live most in the water or on land." If we consider the word (amphi, both ways,) and (bios, life,) from which the term amphibious is derived; we should understand that animals having this title should be capable of living as well by land, or in the air, as by water; or of dwelling in either constantly at will ; but it will be difficult to find any animal that will fulfil this definition, as being equally qualified for either.

Dr. Parsons, an ingenious naturalist, therefore, from considering their economy, respectively divides them into two orders, viz.

1. Such as perform their chief functions by land, but occasionally go into water.
2. Such'as chiefly inhabit the water, but occasionally go on shore.

What he advanecs on this subject is curious, and will illustrate the nature of this class. Of the first order he particularly considers the seal; and cendenvours to shew that none of them can live chiefly in the water; but that their chief enjoyment of the functions of life is on shore. "These animals," he observes, "are really quadrupeds, but as their chief food is fisb, they are under a necessity of going out to sea to bunt their prey, and to great distances from the shore, taking care that, however great the distance, rocks or small islands are at hand, as resting places when they are tired, or when their bodies become too much macerated in the water; and they retarn to the places of their usual resort to sleep, copulate, and bring forth their young. There are three necessary and principal uses of respiration in all land qnimals, and in those kinds that are counted amphibious. The first is that of promoting the circulation of all the blood through the whole body and extremities. In real fishes the force of the lieart is alone capuble of sending the blood to every part, ns they are not furnished with limbs or extremities, but In the others mentioncd, being all furnished with extremities, respiration is an assistant foree to the arteries in sending blood to the extremities : which being so remote from the heart, have need of such assistance, otherwise the circulation would be very languid in those parts: thus we sce, that in persons subject to astbmatic complaints, the eireculation grows languid, the legss become cold, and other parts suffer by the defeet in respi-, ration. A second use of bicathing is that in inspiration, the varicty of partieles of different qualities, which float always in the air, might be drawn into the lungs, to be insinuated into tho mass of blood, being highly necessary to contemporate anid cool the agitated mass, and to coutribute refined pabulum to the fine parts of it, which meeting with the daily supply of chyle, serves to assimilate and more intimately mix the mass, and render its constitution the fitter for supporting the life of the animal. Therefore it is, that valetudinarians by changing foul or unwholesome air, for a free good open air, often recover from lingering diseases. A third principal use of respiration is to promote the exhibition of voice in animals; which all those that live on land have according to their specific natures. Prom these considerdions it appears, that the seals of every kind are under an absolute necessity of making the land their principal residence. But there is another wery convincing argument why they reside on shore the greatest part of their time, namely, that the flesh of those creatures is analogous to that of other land animale, and therefore, by over long maceration, added to the fatigne of chasing their prey, they would suffer such a relaxation as would destroy them. It is well known that animals who have been long under water, are reduced to a very lax and putrid state ; and the seal must bask in the air on shore, for while the solids are at rest they require their former degree of tension, and the vigour of the animal is restored ; and while he bas an uninterrupted placid respiration, his blood is refreshed by the new supply of air, as above explained, and he is rendered fit for the next cruise : for action wastes the most exalted fluids of the body more or less according to its duration or violence; and thio restorative rest must continue a longer or shorter time, according to the quantity of the previous fatigue. Let us now examine by what power these animals are capable of remaining longer under water than land animals. All these have the oval hole open between the

## ANIMATED NATURE.

right and left auricles of the heart; and in many the arteriosus also: and while the seal remains under water, which he may continue an hour or two, more or less, his respiration $j=$ stopped, and the blood not findiog the passage through the pulmonary artery free, rushes through the hole from the right to the left auricle, and partly through the arterial canal, being a short passage to the aorta, and thence to every part of the body, maintaining tae circulation, but upon using to come ashore, the blood finds its passage again through the lungs the moment he respires. Otters, beavers, and some kinds of rats, go occasionally into the water for their prey, but cannot remain long under water. "I have often gone to shoot otters," says our author, "aad watched all their motions. I have seen one of them go softly from a bank into a river, and dive down, and in about two minutes arise, at ten or fifteen yards from the place he went in, with a middling salmon in his mouth, which he brought on shore : I shot him, and saved the fish whole." Now, as all fetuses have three passages open, if a whelp of a true water-spaniel was, immediately after its birth, served as the seal does her cubs, and immersed in water, to stop respiration, for a little time every day, it is probable that the bole and canal would be kept open, and the dog be made capable of remaining as long under-water, as the seal. Frogs, how capable soever of remaining in the water, yet cannot avoid living on land, for they respire; and if a frog be cast into the river be makes to the shore as fast as he can. The lizard kind, such as may be called water-lizards, are all obliged to come to land in order to deposit their eggs, to rest, and sleep. Even the.crocodiles, who dwell much in rivers, sleep and lay their eggs on shore, and while in water are compelled to rise to the surfice to breathe: yet, from the texture of his scaly covering he is capable of remaining in the water longer by far than any species of the seal, whose skin is analogous to that of the horse or cow.

The hippopotamus, who wades into the lakes or rivers, is a quadruped, and remains under the water a considerable time; yet his chief residence is upon land, and be must come on shore for respiration. The testudo, or sea tortoise, though he goes out to sea, and is often found far from land, yet, being a respiring animal, cannot remain long under water. He has, indeed, a power of rendering bimself specifically heavier or lighter than the water, and therefore can let himself down to avoid an enemy, or a storm. Yet he is under a necessity of rising frequently to breathe, for reasons given before, and his most usual situation, while at sea, is upon the surface of the water, feeding upon the various substances that float in great abundance every where about him; these animals sleep sccurely upon the sorface, but not under the water, and can remain longer at sea than any other of this class, except the crocodile, because, with the latter, his covering is not in danger of being too much macerated ; yct they must go on shore to copulate and lay their eggs. The consideration of these is sufficient to inform us of the nature of the first order of the class of amphibious animals; let us now see what is to be said in the second in our division of them, which are such as chiefly inhabit the water, but occasionally go on shore. These are but of two kinds, the eels or water serpents, or snakes of every kind. ${ }^{-}$It is their form which qualifies for locomotion, and they know kheir way back to the water at will ; for by their structure they have a strong

Vol. I.

[^3]
## ANIMATED NATURE.

peristaltic motion, by which they can go forward at a pretty good rate ; whereas all other kinds of fish, whether vertical or horizontal, are incapable of a voluntary locomotion on shore ; and therefore as soon as such fish are brought out of the water, after having flounced a-while, they lie motionless, and soon die. Let us now examine into the reason why these vermicular 'fish, the eel, and serpent kind, can live a considerablo time on land, and the vertical and horizontal kind die almost immediately when taken out of the water ; and in this research we shall come to know what analogy there is between land animals and those of the water. All land animals have lungs, and can live no longer than while those are inflated by the ambient air, and alternately compressed for its expulsion, that is, while respiration is duly carried on, by a regular inspiration and expiration of the air. In like manner, the fish in general have gills instead of lungs, and as in land animals the lungs have a larger portion of the mass of blood circulating through them, which must be stopped if the air has not a free ingress and egress, so in fish there is a great number of blood-vessels that pass through the gills, and a greit portion of their blood circulated through them, which must in like manner be totally stopped if the gills are not perpetually wet with water. So that as the air is to the lungs in land animals a constant assistant to the circulation, so is the water to the gills of those in rivers and seas : for when these are out of the water the gills very soon grow crisp and dry, the blood-vessels are shrunk, and the blood is obstructed from baving respiration, the circulation ceases, and the animal dies. Again, as land animals would be destroyed by too much maceration in water, so fish would on the other hand, be ruined by too much exsiccation ; the latter being, by their structure and constitution, made fit to bear and live in the water ; the former, by their constitution and form, to breathe and dwell in the air. But it may be asked why eels and water-snakes are capable of living longer in the air than other kinds of fish; this is answered by considering the providential care of the great Creator for these and every one of his creatures; for since they were capable of locomotion by their form, which they need not be if they were never to go on shore, it seemed necessary that they should be capable of living a considerable time on shore, otherwise their locomotion would be in vain. How is this provided for, and why?' In a most convenient manner, for this order of fishes have they gills well covered from the external drying air; they are also furnished with a slimy mucus, which hinders their becoming crisp anid dry for many hours ; and their very skins always emit a mucous liquor, which keeps them supple and moist for a long time: whereas the gills of other kind of fish are much exposed to the air, and want the slimy matter to keep them moist. Now, if any of these, when brought out of the water, were laid in a vessel without water, they might be preserved alive a considerable time by only keeping the gills and surface of the skin constantly wet without any water to switn in.

The class amphibia is divided into two orders,

1. Reptiles, which have four legs.
2. Serpents, which have no legs.

Of reptites there are foar genera ; the tortoise, the flying lizard, the lizard, and the
frog. The crocodile, the alligator, the cayman, the iguana, and the chamelion, are classed with the lizard.

The serpent, in the Linnean system of zoology, an order of animals, belonging to the class of amphibia, and comprehending six genera, viz, the rattle-snake; the boa, including ten species; the viper; the snake; the annulated snake, the body and tail of which are composed of annular segoents; and the tentaculated snake, the body and tail of which are wrinkled, without scales, and the upper part furaished with two feelers, and including two species.

- If we take a survey of serpents in general, they have marks by which they are distinguished from all the rest of animated nature. They have the length and suppleness of the eel, but want fins to swim yyith; they have the scaly covering and pointed tail of the lizard, but they want legs to walk with; they have the crawling motion of the worm, but, unlike that animal, they have lungs to breathe with: like all the reptile kind they are resentful when offended; and nature has supplied them with terrible arms to revenge every injury. Though thgy are possessed of very different degrees of malignity, yet they are all formidable to man, and have a strong similitude of form to each other. With respect to their formation, all serpents have a very wide mouth in proportion to the size of the head; and what is very extraordinary, they can gape and swallow the -head of another animal which is three times as big as their own. However, it is no way surprising that the skin of the snake should stretch to receive solarge a morsel ; the wonder scems how the jaws could take it in. To explain this, it must be observed that the jaws of a serpent do not open as ours, in the manner of a pair of hinges, where bones are applied to bones, and play one upon another; on the contrary, the serpents jaws are beld together at the roots by a stretebing muscular skin; by which means they open as wide as the animal chooses to stretch them, and admit of a prey much thicker than the snake's own body. The throat, like stretching leather, dilates to admit the morscl ; the stomach receives it in part, and the rest remains in the gullet, till putrefaction, and the juices of the serpent's body unite to dissolve it. Some serpents have fangs or canine tecth, and others are without them. The teeth in all are crooked and hollow; and by a peculiar contrivance, are capable of being erected or depressed at pleasure. The eyes of all serpents are small if compared with the length of the body; and though differently coloured in different kinds, yet the appearance of all is malign and heavy, and from their known qualities they atrike the imagination with the idea of a creature meditating mischief. In some the upper eyclid is wanting, and the serpent winks only with that below ; in others, the animal hes a nictating membrane or skin, resembling that which is found in birds, which keeps the eye clear, and preserves the sight. The substence of the eyn in all is hard and horny, the crystalline humour occupying a great part of the globe. The holes for hearing are very visible in all; but there are no conduits for smelling ; though it is probable that some of them enjoy that sense in tolerable perfection. The tongue in all these animals is long and forky ; it is composed of two long fleshy substances, which terminate in sharp points, and are very pliable. At the root it is çonnected very strongly to the neck , by two tendons that give it variety of play:

Some of the viper kind have tongues a fifth part of the lengts of their bodies ; they are continually darting them out ; but they are entirely harmless, and only terrify those who are iguorant of the real situation of their poison. Like most other animals, serpents are furnished with lungs, which we suppose are serviceable in breathing, though we cannot perceive the manner in which this operation is performed; for though serpents are often seen apperently to draw their breath, yet we cannot find the smallest signs of their ever respiring it again. Their lungs, however, are long and large, and doubtless are necessary to promote their languid circulation. The heart is formed as in the, tortoise, the frog, and the lizard kinds, so as to work witbout the assistance of the lungs. It fs single, the greatest part of the blood flowing frop the great vein to the great artery by the shortest course. By this contrivance of nature, sve casily gather two consequences ; that snakes arc amphibious, being equally capable of living on land and in the water; and that they are also torpid in winter, like the bat, the lizard, and other animals formed in the same manner. As the body of this animal is long, slender, and capable of bending in every direction, the number of joints in the back-bone are numerous beyond what one would imagine. In the generality of quadrupeds they amount not to above 50 or 40 ; in the serpent kind they amount to 145 frotn the head to the vent, and 25 more from that to the tail. The number of these joints must give the back a surprising degree of pliancy ; but this is still increased by the manner in which each of these joints is locked into the other. In man and quadrupeds the flat surfaces of the bones are laid one against the other, and bound tight with sinews: but in serpents the bones play one within the other, like ball and socket, so that they have full motion upon each other in every direction. Though the number of joints in the back-bone is very great, yet that of the ribs is still greater; for from the head to the vent there are two ribs to every joint, which makes their number $\$ 90$ in all. These ribs are furnished with muscles, four in number ; which being inserted into the head, run along to the end of the tail, and give the animal great strength and agility in all its motions. The skin also contributes to its motion, being furnished with a number of scales, united to each other by a transparent membrane, which grows barder as it grows older, until the animal changes it, which is generafly done twice a year. This cover then bursts near the head, and the serpent crecps from it by an undulatory motion, in a new skin much more vivid than the former. If the slough be then viewed, every scale will be distinctly seen like a piece of net work, and will be found greatest where the part of tho body they covered was largest. There is much geometrical neatress in the disposal of the serpent's scales, for assisting the animal's sinuous motion. As the edges of the foremost seales lie over the end of the following scales, so those edges, when the scales are erected, which the animal has the power of doing in a small degree, eatch in the ground like the nails in the wheel of a chariot, and 80 promote and facilitate the animals progressive motion. The erecting of these scales is by means of a multitude of distinct muscles with which each is supplied, and one end of which is tacked each to the middle of the foregoing. In some of the serpent kind there is the exactest symmetry in these scales; in others they are disposed more irregularly. In some there are larger scales on the belly, and often answering to
the number of rihs ; in others, however, the animal is without them. Upon this slight difference Linneeus has founded his distinction of the serpent tribe.
Some serpents bring forth their young alive, , ws the viper; some bring forth eggs, which are hatched by the heat of their situation, as the common black snake, and the majority of thie serpent tribe. When a reader ignorant of anatomy is told that some of these animals produce their young alive, and that some produce eggs only, he is apt to suppose a very great difference in the internal conformation which makes such a variety in the manner of bringing forth. But this is not the case, these animals are internilly alike, in whatever manner they produce their young, and the variety of their bringing forth is rather a slight than a real discrimination. The only difference is, that the viper hatches her eggo and brings them to maturity within her body; the snake is more premature in her productions, and seads her eggs into the light some time before the young ones are capable of leaving the shell. Thus, if either are opened, the eggs will be found in the womb, covered with a membranous shell, and adhering to each other like large beids on a string. In the eggs of both the young ones will be found, though at different stages of maturity : those of the viper will crawl and bite the moment the shell that incloses them is broken open : those of the snake are not yet arrived at their , perfect form. There is a very small bone closely fixed to the upper jaw in the inside of the lip of a poisonous serpent, which has a power of moving backward or forward; to this two or three fangs are annexed larger than the teeth, which the serpent, by its assistance, when enraged, darts forward, or withdraws and conceals at his pleasure in a similar manner to the claws of a cat. Each of these fangs is surrounded with a vesicle fünistied with glands, secreting a certain fluid, which, upon the vesicle being pressed, seems to flow out of the point of the fang. The serpent, when incensed, raising his bead, exteads the surall bope armied with the fangs mentioned above, and attacking his enemy with a force combined of the weight of his head, and the action of the muscles, he wounds him with the expanded fangs, and the vesicle being compressed, the poison immediately flows into the wound: this is clear from the experieace of those who, having broken off their fangs with a pair of forceps, haidlle the serpent, thus disarmed, without any hurt.

Fishes form the fourth class of animals in the Linnean system. This class is there arranged into six orders, under three great divisions; none of which, however, include the cetaceous tribes, or the whale, dolphin, \&c. these forming 'an order of the class mammalia in the same system. Mr. Penaant, in his British Zoology, makes a different, and very judicious arrangement, by which the cetaceous are restored to their proper rank: He distributes fish into three divisions, comprehending six orders. His divisions are cetaceous, cartilaginous, and bony. Of the. cetaceous fishes we have already treated. The characters of cartilaginous fishes are the following; breathing through certain apertures generally placed on each side the neck; but in some instances beneath, in some above, and from one to seven in number in each part, except in the pipe-fish, which has only one ; the muscles sypported by cartilages instead of bones. Example the picked. dog-fish.' The genera are the lamprey, skate, shark, fishing-frog, sturgeon, sun-fish,

Vol, I.
3 F

Juap-fish, pipe-fish. Bony-fish includes those whose muscies are supported by bones or spines, which breathe through gills covered or guarded by thin bony plates, open or the sides, and dilatable by means of a certain row of bones on their lower part, cach separated by a thin web; which bones are called the gill-covering rays. The tails of all the fish that form this division are placed in a situation perpendicular to the body; and this is an invariable character. The great sections of the bony-fish into apodal, jugular. thoratic, abdominal, he copies from Linneus ; who founds this system on a comparison of the ventral fins to the feet of land animals, or reptiles; and either from the want of thern, or their particular situation in respect to the other fins, establishes his sections.

Naturalists observe an exceeding great degree of wisdom in the structure of fishes, and in their conformation to the element ir which they are to live. Most of them lave the same external form, sharp at either end, and swelling in the middle, by which they are enabled to traverse the fluid in which they reside with greater velocity and ease. This shape is in soute measure imitated by men in thase vessels which they design to sail with the greatest swiftness ; but the progress of the swiftest sailing ship is far inferior to to that of fishes. Any of the large fishes overtake a ship in full sail with the greatest ease, play round it as though it did not move at all, and can get before it at pleasure. The chief instruments of a fishe's motion have iven supposed to be the fins, which in some are much more numerous than in others. A fish completely fitted for swimming with rapidity, is generally furnishied with two pair of fins on the sides, and three single ones, two above and one below : but it does not always happen that the fish which has the greatest number of fins is the swiftest swimmer. The shark is thought to be one of the saiftest fishes, and yet it has no fins on its belly; the haddock seems to be more completely fitted for motion, and yet it does not move so swiftly. It is even observable that some fislies which have no fins at all, such as lobsters, dart forward with prodigious rapidity, by means of their tail ; and the instrument of progressive motica in all fishes is now found to be the tail. The great use of the fins is to keep the body in equilibrio: and if the fins are cut off the fish can still swim, but will turn upon its side or its back without being able to keep itself in an erect posture as before. If the fish desires to turn, a blow from the tail sends it about in an instant, bot if the tail strikes both ways then the motion is progreasive. All fishes are furnished with a slimy glatinous matter, which defends their bodies from the immediate contact of the surrounding fluid, and which likewise, in all probability, assists their motion through the water Reneath this, in many kinds, is found a strong covering of scales, which, like a coat of mail, defends it still more powerfolly; and under that, before we come to the muscular parts of the body, lies an oily substance, which also tends to preserve the requisite warmth and vigour. Fishes are in general the most voracious animals in nature. In most of them the maw is placed next the mouth ; and though possessed of no sensible heat, is endowed with a very surprismg faculty of digestion. Its digestive power seems in some measure to increase in proportion to the quantity of food with which the fish is supplied. A single pike has been known to devour 100 roaches in three days. Whatever is possessed of life sceens to be the most desirable prey for fishes. Some that have very small months feed on worms,
and tho sparn of other fish; others whose mouths are larger seek larger prey; it matters not of what kind, whether, of their own species or any other: those with the largest mouths pursue almost every thing that bath life; and after meeting each other in fierce opposition, the fish with the largest suallow comes off with the victory, and devours its antagonist. As a counterbalance to this great voracity, however, fishes are incredibly prolific. Some bring forth their young alive, others produce only eggs; the former are rather the least fruitful, yet even these produce-ip great abundance. The viviparous blenny, for instance, brings forth 990 or 300 at a time. Those which' produce eggs, which they are obliged to leave to chance, either on the bottom where the water is sballow, or floating on the surface where it iş deeper, are all much more prolific, and seem to proportion their stock to the danger there is of consumption. We are assured that the cod spawns above nine millions in a season. The tlounder commonty produces above one million, aud the mackarel above 500,000 . Scarce one in a hundred of those eggs, however, bring forth an animal, they are devoured by all the lesser fry that frequent the shores, by water-fowl in shallow waters and by the larger fish in deep waters. Such a prodigious increase, if permitted to come to matarity, would overstock natare, even the ocean itself would not be able to contain, much less provide for one half of its inhabitants. But two wise purposes are answered by this amazing increase ; it preserves the species in the midst of numberless enemies, and serves to furnish the rest with a sustenance adapted to their nature.

Insects differ as widely from worms as the class of mammalia from birds. Every insect is furnished with a head, antenne, and feet, of all which the worms are destitute. All inisects have six or more feet; they respire through pores placed on the sides of their bodies, and which are termed spinacula ; their skin is extremely bard, and serves thein instead of bones, of which they have, internally, none. But the anteana placed on the forepart of the head constitute the principal distinction. These are jointed, and moveable in every part, in which they differ from the horns of other animals; they are orgnos conveying some kind of sense, but we have no more idea what kind of sense this is that a man has who, without eycs, attempts to determine the particular action of the rays of light on the retina of the eye, or to explain the changes which from thence take place in the mind. They are doubtless organs of some kind of sense, from their perpetually moving them forward; yet the hard crust with which they are covered, and their ghortness in flies and other insects, would induce one to believe them not to be the organs of touch. Mr. Barbut supposes them to constitute, or to contain the organs of hearing. That they are tubular, and filled with air, and some kind of humor, appears from the antenne of butterflies immersed in water. Many insects have no tongue, nor make any sound with their mouth ; but for this purgose some use their wings, others their feet, and others some elastic instrument with which they are natorally furnished. Most insects have two eyes; but the gyrinus has four, the scorpion six, the spider eight, and the scolopendra three. They lave no eyebrows, but the external tunic of their eye is hard, and transparent, like a watch glass ; , their eyes have no external motion unless it be in the crab. They consict, for the most part, of one lens only; but in those of the hutterfly, eliptera, .

## ANIMATED NATURE.

and many of the beetles, they are more numerous. Pugett discovered 17,395 lenses in the cornea of a butterfly, and Lieuwenhock 500 in a fly. .Besides those of male and female, a third sex exists in some insects, which we call neuter: as these have not the distinguistuing parts of either sex, they may be considered as eunuchs or infertile. We know of no instance of this kind in any other class of apimals, nor in vogetables, except in the class syngenesia, and in the opulus. This kind of sex is only found among those insects which form themselves into societies, as bees, wasps, and ants ; bere these kind of eunuchs are real slaves, as on them lies the whole business of the economy, while those of the other sex are idle, only employing themselves in the increase of the family. Each family of bees has one female only (called the queen,) many males, and altnost an innumerable quantity of neuters. Qf these the neuters, whose antennse have 11 joints, do the working part; they, extract and collect honey and wax, build up the cells, keep watch, and do a variety of other things. The males, whose antenna consist of 15 joints, do no work ; they serve the female once at the expence of their lives : they may be considered in the light of a set of parasites; but as soon as their business of impregnation is over, they are expelled by their servants the neuters, who now shake off the yoke, but yet pay all due respect to their common mother the queen. The same economy nearly takes place in wasps, where the young females which impregnated in the autumn live through the winter, and in the spring propagate their species; but the queen, together with all the males, perish in the winter. Among ants, the neuters form a bill in the shape of a cone, that the water may run off it, and place those which are in the pupa state on that side of it which is least exposed to the heat of the sun, At a considerable distance from these is found the habitation of the males and females, to whom the most ready obedience is yielded by the neuters, till a new offspring succeeds, and thet they oblige them to quit their habitations. But those ants which live entirely under-ground provide better for themselves in this respect; for a little before their nuptials they quit their habitation of their own accord, and, after swarming in the manner of bees, they copulate in the air, and each retiring to some new habitation, founds a new family. There are no insects, except thosc of the aptera class, but what are continually undergoing some transformation. Insects change first from the egg into the caterpillar or maggot, then into the crysalis, and lastly into the fly or perfect state. During each of these changes their appearance differs as much as night and day. The insect, as soon as it comes out of the egg, is called larva, a name expressive of the insects being in this state, as it were, masked, or having its true appearance concealed. Under this mask or skin the entire insect, such as it afterwards appeared when perfect, lies concealed, enveloped only in its tender wings, and putting on a soft and pulpy appearance ; insomuch that Swammerdam was able to demonstrate the butterfly with its wings to exist in a caterpillar, though it bore but a faint resemblance to its future perfection. The insect, therefore, in this state undergoes no other alteration but the change in its skin. The larvee are for the most part larger than the insect when perfeet, and are very voracious. The caterpillar of the cabbage butterfly eats double what it, would seem to require frora. its size, but its growth is not adeguate to its voracity.

The name of imago is given by Linnmus to the third clange in which the insect appears in its proper shape and colours ; and as it undergoes no more transformation, it is called perfect. In this state it fies, is capable of propagating its species, and receives true antennee, which before, in most insects, were scarce apparent. All insects, as soon as they undergo the third change, are arrived at their full growth, nor do we find any difference in the size of the same species of iosects in the same countries, unless during its caterpillar state, it has not a sufficient quantity of proper food.

By some natural historians this class of animals is considered as the most imperfect of any, while cthers prefer them to the larger animals. One mark of their imperfection is said to be that many of them can live a long time though deprived of those organs, which are necessary to life in the Kigher ranks of nature. Many of them are furnished with lungs and an heart like the nobler animals ; yet the caterpillar continues to live though its heart and lungs, which is often the case, are entirely eaten away. It is not, however, from their confirmation alone that insects are inferior to other animals, but from their instincts also. * It is true that the ant and the bee present us with striking instances of assiduity : yet even those are inferior to the marks of sagacity displayed by larger animals. A bee taken from the swarm is totally helpless and inactive, incapable .of giving the smallest variations to its instincts. It has but one single method of operating, and if put from that, it can turn to no other. In the pursuits of the hound there is something like choice; but in the labours of the bee the whole appears like necessity and compulsion. All other animals are capable of some degree of education ; their instinets may be suppressed or altered; the dog may be taught to fetch and carry, the bird to whistle a tune, and a serpent to dance, but the insect has only one invariable method of operating : no arts can turn it from its instincts, and indeed its life is too short for instruction, as a single season ofteu terminates its existence. Their amazing number is also an imperfection. It is a rule that obtains through all nature that the nobler animals are slowly produced, and that nature acts with a sort of dignified ceconomy, but the meaner births are livished in profusion, and thousands are brought forth merely to supply the necessities of the more favourite part of the creation. The vegetables which cover the surface of the earth bear no proportion to the multitude of insects ; and though at first sight, herbs of the field seem to be the parts of organized nature produced in the greatest abundance, yet upon more cuinute inspection, we find every plant supporting a mixture of scarce perceptible creatures, that fill op the compass of youth, vigour, and age, in the space of a few days existence.

In Lapland, and some parts of America, the insects are so numerous, that if a candle is lighted they swarm about it in such multitudes that it is instantly extinguished by them; and in those parts of the world the miserable inhabitants are forced to smear their bodies and faces with tar, or some other unctuous composition, to protect them from the stings of their minute enemies. On the other side, of Swammerdam argues for the perfection of insects in the following manner: "After an attentive examination," says he," of the nature and anatopy of the smallesi, as well as the largest animals, I cannot help allowing the leastan equal, or perhaps a superior degree of dignity. If while we dissect with care

Vol. I.
3 G
the larger animals, we are filled with wonder at the elegant disposition of their parts, to what an height is our astonishment raised when we discover all these parts arranged in the least, in the same regular manner. Notwithstanding the smaliness of ants, nothing hinders our preferring them to the largest animal, if we consider either their unwearied diligence, their wonderful strength, or their inimitable propensity to labour. Their amazing love to their young is still more unparalleled among the larger classes. They not only carry them to such places as may afford them food; but if by accident they are killed, and even cut in pieces, they will, with the utmost tenderness, carry them away piecemeal io their arms. Who can shew such an example among the larger animals which are dignified with the title of perfeet ? Who can find an instance that can stand in competition with this $?^{\prime \prime}$ On this dispute it is only necessary to observe, that the wisdom of the Creator is so conspicuous in all his works, and such surprising art is discovered in the mechanism of the body of every creature, that it is very difficult, if not impossible, to say where it is most and where it is least to be observed.

The sixth class, that of worms, is dividल! into five orders :

1. The intestine are the most simple animals, being perfectly naked, and without any limbs of any account.
2. The mollusea are likewise simple animals, without any shell ; but they are brachio nated or furnished with a kind of limbs.
3. The testacea ; the saine character with those of the second order, but are covered with a shell.
4. The zoophyta are compound animals, furnished with a kind of flowers, and having a vegetation root and stem.
5. The infusoria consist of very small simple animals.

As it would exceed the limits of our desigu to descend to a particular description of every species of every genus of worms, we shall select a few of them, which may serve as a specimen of the rest.

Of the intestine worms none is more remarkable than the tenia, of which, according to Gmelin, there are 92 species ; all which inhabit the intestines of various animals, partieularly of quadrupeds. Seven species of tenia are peculiar to man.

1. The visceralis, which is inclosed in a vesicle, broad in the fore part, and pointed in the hinder part, inhabits the liver, the placenta uterine, and the sack which contains the superfluous fluid of dropsical persons.
\&. The celluloste, which is inclosed in a cartilaginous vesicle in the cellular substance of the muscles, is abrout an inch long, half an inch broad, and one-fourth of an inch thick, and is very tenacious of life.
2. The dentata has a pointed head, the large joints are streaked transverscly, and the small joints are all dilated ; the osculum, or openiug in the middle of both tuargins, is somewhat raised. It is narrow, 10 or 19 feet long, and broad in the fore parts; its vuaria are not visible to the naked eye, and the head underneath resembles a heart in shape. It inhabits the intestines.
3. The lata is white, with ioints very short and knotty in the middle ; the osculum is

## ANIMATED. NATURI.

209
solitary, it is from 13 to 190 feet long, its joints are streaked transversely ; its overia ure disposed like the petals of a rose.
5. The vulgaris or common tape-worm, has two lateral mouths in each joint ; it atfaches itself so firmly to the intestines that it can scarcely be removed by the most vio.lent medicines. It is slender, and has the appearance of being menbianoos; it is somewhat pellucid, from 10 to 16 feet long, and about four and one half lines broad at one end.
6. The trutte chieffy inbabit the liver of the trout, but are also to be found in the Intestines of the human species.
7. The solium has a marginal mouth, one in each joint. The structure and pbysiology of the tenia is curious, and it dayy be amusing as well as instructive to consider it with more attention.

As the tenia is often the occasion of disease, we may be apt to consider it not only as useless, but even as naturally burtful ; but it is impossible to suppose that the benevolent Father of mankind ereated a species of animals solely for the purpose of producing disease. The creation of the tenir is rather a striking instance of that rute which the Deity scems to have laid down to fimself, to leave no place destitute of living creatures , where they could multiply their species. He has, therefore, not only covered the earth with animals, but the surface of animals with other animals; and has even peopled such of their internal parts as could supply nourishment without disadvantage. Perhaps, therefore, a certain proportion of these animals is conducive to liealth, just as a certain proportion of different fluids is so, though an excessive increase always produces disease. For there is in almost every different species of quadrupeds a different species of tenia, which is a full proof thoy have their structure and situation determined with as much attention and skill as any species of animals whatever. It is also a very curious fact, that those species of tenia which are peculiar to the human race are also pecoliar to particular countries. Thus the vulgaris is most common in Siteden, the lata in Switzerland and Russla, and the solium in Great Britain, Saxony, and Holtend.

The tenia appears destined to feed upon such juices of animals as are already analized, and is therefore most commonly; found in the alimentary canal, and in the upper part, where theré is the greatest abondance of chyle, for chyle seems to be the natural food of the tenia ; as it is thus supported by food which is already digeated, it is destitute of the complicated organs of digestion. As the solium is the most frequent in this country, it may be proper to describe it more particularly. It is from 3 to $\$ 0$ feet long, some 60 feet. It is composed of an head, in which is a mouth adapted to drink up fluids, and an apparatus for giving the bead a fixed situation. The body is composed of a great number of distinet pieces articulated together, each joint having an organ whereby it attaches iteelf to the neighbouring paris of the inner coat of the intestine. The joints nearest the head are always simall, and they become gradually cilarged as they are further rethoved from it, but towards the tail a few of the large joints again become diminished in size. The extremity of the body is terminated by a small semicircular joint, which has no opening in it. The head of this animal is composed of the same

## ANIMATED NATURE.

kind of materials as are the other parts of its body ; it has a rounded opening at its extremity, which is considered to be its mouth. This opening is continued by a short duct into two two canals ; these canals pass round every joint of the aniual's body, and convey the aliment. Surrounding the opening of the nouth are placed a number of projecting radii, which are of a fibrous texture, whose directions are longitudinal. These radii appear to serve the purpose of tentacula, for fixing the orifice of the mouth as well as that of muscles, to expand the cavity of tha maw from their being inserted along the brim of that opening. After the rounded extremity of the head has been narrowed into the neck the lower part becomes flatted, and has two small tubercles placed upon each flatted sido ; the tubercles are concave in tho middle, and appear destined to serve the purpose of suckers to attach the head more efficturily. The internal structure of the joints composing the body of this animal is partly vascular, and partly cellular ; the substance itself is wnite, and somewhat resembles in texture the coagulated lymph of the human blood. The alimentary canal passes along each side of the animal, sending a cross canal over the bottom of each joint, which connects the tro lateral canals together.
The tenia seems to be one of the simplest vascular animals in nature. Tve way in which it is nourished is singular, the food being taken in by the mouth, passes into the alimentary canals, and is thus made to visit, ip a general way, the difficent parts of the animal. As it has no excretory ducts, it would appear that the whole of its alimentary fluid is fit for nourishment ; the decayed parts probably dissolve into a fluid, which transudes through the skin, which is extremely porous. This animal has nothing resembling a brain or nerves, and scems to have no organs of sense but that of touch. It is most properly propagated by eggs, which may easily pass along the circulatiog vessels of other animals. We cannot otherwise explain the phenomena of worms being found in the eggs of forks, and in the intestine of a fotus before birth, exeept by supposing their eggs to have passed through the circulating vesscls of the mother, and by this means to bave been conveyed to the fetus. The chance of an egg being placed in a situation where it will be batched and the young find convenient subsistence, must be very small ; bence the necessity for their being very prolific. If they had the powers of being prolific as they now have, and their eggs were afterwards very readily batched, then the multiplication of these animals would be immense, aud become a nuisance to the other parts of the creation. To the same order is referred the earth-worm. This, Mr. Barbut observes, differs extremely in colour, and external appearance, in the dif ferent periods of its growth; which has occasioned people little acquainted with the variation of this kind of animals, to make four or five different species of them : the general colour is dosky red. They live onder ground, never quitting the earth but after heavy rains, or at the approach of storms, and in the scason of their amours. The method to force them out is either to water the ground with infusions of bitter plants, or to trample on it. The barc motion on the surface of the soil drives them up, in fear of being sarprized by their formidable enemy the mole. The winding progression of the worm is focilitated by the mequality of its body, armed with small, stiff, sharp-pointed bristles; wien it means to insinuate itself into the earth, there oozes from its body a

## ANIMATED NATURE.

clammy liquor, by means of which it slides down. It never damages the roots of vegetables. Its food is a small portion of earth, which it lias the faculty of digesting; the superfuity is cjected by way of excrement, under a wermicular appearance. The order of molusca differ very materially in their appearance ; they most of them, however, are inhabitants of the oceas, but some of them, as the linox, or naked snail, of the land. The sea-mouse has an oval body, with 32 small tentacula on its sides, which serve as feet; the mouth is cylindrical at one end of the body, and capable of being retracted with two bristly tentacula. It is an inhabitant of the Europeas sea, and-often found is the belly of the cod-fish. It feeds upon shell-fish. The star-fish has a depressed body, covered with a coat, which resembles bark, and is composed of five or more segments, running out from a central post, nnd furnished with numerous tentacula, and has the mouth in the centre. The conformation of the mouth is this; the under part of each lobe runs towards a point with the rest at the centre of the body; and the several productions of the rays make a sort of lips, the ends of which are armed with a number of sharp tectb, which serve to take and convey the food into the body. From this mouth there goes a separate canal to all or many of the rays, which runs through their wholo length, and becomes gradually narrower as it approaches the extremity. The tentacula resemble the horns of snails, but serve the animal to walk with. They are capabie 'of being contracted or shortened : and it is only at the creatures moving that they are seen at their full length, at other times no part of them is seen but the extremity of each, which is formed like a sort of button, being somewhat larger than the rest of the horn. The echinus has a roundish body, covered with a bony crust, and offen beset with moveable prickles, and the mouth is below, and consists of five valves. The catable cchinus is of a hemispherical form, covered with sharp strong spires, above half an inch long; commonly of a violet colour, moveable, adherent to small tabercles elegantly dispersed in rows. These are their instruments of motion by which they change their place. This species is taken in dredging, and, often lodges in cavities of the rocks just within low water mark. They are eaten by the poor in many parts of England, and by the better sort abroad. In old times they were a favourite dish; they were dressod with vinegar, honied wine, or mead, parsley or mint, and thought to agree with the stomach. The limax, slog, or naked snail bas an oblong body, fitted for crasling, with a kind of muscular coat on the upper part; and the belly is plain. They have four tentacula, or horns situated above the mouth, which they extend or retract at pleasure. This reptile is always destitute of shell ; but besides that its skin is more clammy, and of greater consistency than that of the snail. The black naked slug has a furrowed cloak almost as thick and as hard as leather, under which it withdraws its head as within a shell. The head is distinguished from the breast by a black line. It is in its liead and back that the spail-stone is found, which is a small pearled and sandy stone, of the nature of lime stones ; according to a popular opinion it cures the tertian ague if fastened to the patient's arm. The medusa is a genus of worms, belonging also to the order of mollusca. The body is roụnilish and depressed; and the mouth is in the centre of the under pars of the body. Many species, on being handled, affect like a nettle with burn(Vol. L.

## ANIMATED NATURE.

ing and exeito a rednoss. Their phosphoric quality is wefl known; nor was it overluoked by the aptients. Pliny observes, that if rubtied with a stick it will appear to burn, and the wood to shine all over. The same naturalist observes, that when they sink-to the bnttom of the sea they portend a continuance of bad weather. The surited medusa, which appears, as floating on the water, to be a mere lifeless lump of jelly, is of a whitish colour, with a cast of bluish grey, and is of an orbiculated figure, elevated into a convexity in the middle on the upper side, flat on the under, and furnished with a fringe of fine, gnd somewhat rigid, filaments round the edge, resembling white hairs : on the under surface there are four cavities near the centre, each surrounded with an opaque line, formed of sbout 24 paralit! points on dots; from the very centre of the under side there arise four crooked appendages, which hafe each a row of hairy filaments on the exterior edge, and oo the upper surface there is an appearance of fine vessels of a pale colour. This species is seen frequently floating on the surfuce of the sea, or adhering to rocks about our own coast; and when the sun shines on them, they have a very beautiful lucid appearance. It is called by some the sea-nettle, it being one of those animals that when touched occasions a very disagreeable tingling in the hands.

The capillated medusa is a very singular and odd animal ; it seems a mere lump of whitish semi-lucid jelly, and is as casily broken and destroyed by a touch as the common jellies brought to our tables ; "its shape is rounded, rising into a convexity in the middle where it is, therefore, thickest, and whence it becomes gradually thinner in the sides : on the under side it is plain, and on this there is a visible or rough circle, within which fhere run eight pair of rays from the centre towards the circumference: and from the ceatre there arise also a number of curled appendages, which are sometimes reddish, but nore usually whitish, and a vast number of slender filaments. This species is to be met with, in vast abundance, floating on the surface of the water about Sheppey island, in Kent, and elsewhere on that coast: great quantities of it are destroyed by being thrown on shore with the waves, whence it has ano power of getting off again; and in the open scas many fish skim near the surface, and prey on them. This is the species called by many authors the sea-lungs. "The last of the mollusca we shall describe is the cuttle-fish. It has eight brachia, or limbs, interspersed on the interior side with little round cups, by the construction of which the animal lays fast hold of any thing. Besides these eight arms, it has two tentacula longer than the arms. The mouth is situated in the centre of the arms, and is horny and hooked like the bill of a hawk. The eyes are below the tentacula, towards the body of the animal. The body is fleshy; and received into a sheath as far as the breast. Their food are tunnies, sprats, lobsiers, and othev shell-fish. With their arms and truoks they fasten themselves to resist the motion of the waves ; their beak is like that of a parrot. The females are distinguished by two paps. The males are very constant, accompany their femsles every where, face every danger in their defence, and rescue them iutrepidly at the hazard of their own lives, The timorous females fly as soon' as they see the males wounded. Thie noise of the euttle-fish, on being digged out of the water, resembles the grunting of a hog. When the male is puraued by the sea-wolf, or other ravenous fish, he shuns the danger by stre-

## ANIMATED NATUPE,

tagem. He squirts the black liquor, sometimes to the quantity of a dram, - by which the water becomes as black as ink, undér the sieiter of which the baffles the pursuit of bis enemy.

The order of testacea comprehends all shell-fish and snails. Shell-fish are animals with a soft body, covered by, or inclosed with a hard and stony habitation, composed according to their three separate orders. The first, of many parts which are ranged under the name of multivalves. Second, of two parts, which are called bivalves. Third, of one part, or piece only, which we call univalves. Those parts, pieces, or valves, are more or less moveable at the animal's pleasure. Of the snail there are many different species, some of which live on land, frequenting woods and gardens, or inhabiting clefts of rocks, or dry sandy banks, while others of them are aquatic, and inhabitiog ponds, deep rivers, and the ocean. The eyes of snails are lodged in their horas, one at the end of each horn, which they can retract at pleasure. The dissection of this animal is very curious, for by this means the microscope not only discovers - the heart beating just against the round hole near the neck, which seems the place of respiration, but also the liver, spleen, stomach, and intestines, with the veins, arteries, mouth, and teeth, are plainly observable. The guts of this creature are green from its cating of herbs, and are branched all over with fine capillary vihite veins : the mouth is like a hare's or rabbit's, with four or six needle teeth resembling those of leeches, and of a like substance. Horn-snails are all hermaphrodites, having both sexes anited in each individual. They by their egga with great care in the earth, and the young ones are hatched with their shells completely formed. Cutting off a snail's head a little stone appears, which is supposed to be a great diarrhcetic, and good in all nephritic disorders. Immediately under this stone the heart is seen beating, and the auricles are evidently distinguishable, and are membranous, and of a white colour ; as are also the vessels which proceed from them. So small an avimal as the suail is not free from the plague of supporting other smaller animals on its body; and as in other animals we find these secondary ones either living only on their,surface, as lice, \&c. or only in their intestines, as worms, it is vêry remarkable that these creatures infest the snail in both these manners, being found sometimes on the surface of its body, and sometimes within its intestines. Among the numerous species of shell-fish are many which deserve attention. Some as articles of food, others for the production of the pearl, others on the account of their affording an excellent purple dye, and others, as the nautilus and argonaut, as having taught mankind the first principles of sailing.

Our desigu in this chapter is not, however, to speak of animals as related to man, but as subsisting for themselves, to examine the characteristics by which they are distinguished, and the laws to which they are subject. It will, therefore, be sufficient for our purpose to instance the muscle and the oyster, to enable the reader to judge by analogy of the rest. Muscles are of a great many different species, some of the miahabiting the seas, and others the ponds and rivers. Several of them are remarkable for the beauty of their internal shell, and for the peats they sometimes. contais. Muscles not onily open apd shut their shells at pleasure, but they have also a progressive motion;
they can fasten themselves where they please; they respire water like fishes ; and some even float about on its surface so as to inhale the air. If they be in shallow places a small circular motion is seen above the keel of the shell, and a few moments after they cast out the. water by one single stroke at the end of the shell. The mouth is situated near the sharp angle of the soimal, and is furnished with four floating fringes in the shape of mustachios which may perhaps answer the purpose of lips. Tie barbs which surround the edge of almost half the auscle, are a wonderful web of hollow fibres which serve as fins or organs of respiration, as vessels for the circulation of the flaids, and probably, as some philosophers suppose, as wedges for opening their shells, for we observe two large muscles or tendons for the purpose of shiuting them; but we in vain look for their antagonist, or those which are déstined to open them. When the muscle wishes to open itself it relaxes two muscles or teadons, and swells the fringes, which act as wedges, and separate the shells. The animal shuts up itself by the contraction of two thick fibrous museles, which are fixed internally to each end of the shells, and these shells are lined all around with a membrane, which unites them so closely together when they are soaked in water, that not the smallest drop can escape from the muscle. When muscles choose to walk they often contrive to raise themselves on the sharp edge of theit shiells, and put forth a fleshy substance, susceptible of extension, which serves then as a leg to drag themseives along, in a kind of groove or furrow which they form in the sand or mad, and which supports the shell on both sides. In ponds these furrows are very observable. From the same member or leg lang the threads by which the animals fasten themselves to rocks or to one another. According to the observations of M. Mery, of the Paris Academy, and the subsequent experiments of other naturalists, muscles are all androgynous, and from a peculiar generative organization, each individual is of itself capable of propagating its species, and annually does it without the intercourse of any other. This is altogether singular, and different from what takes place in snails, earth-worms, and other androgynous or hermaphyoditical animals ; for though each individual of these contains the parts of both sexes, yet there is always a congress of two animals for the propagating of the species. It is in the spring that muscles lay their eggs, there being none found in them but in winter. M. Lewenhoock, in several museles which he dissected, discovered a number of eggs in embryo, muscles in the ovarium appearing as plainly as if he had seen them by the naked eye, and all lying with their sharp ends fastened to the string of vessels by which they receive nourishment. The minate eggs, or embryo, are by the parent placed in due order, and in a very close arrangement on the outside of the shell, where by means of a glaey matter, they adhere very fast, and continually increase in size and strength, till, becoming perfect, they fall off and shift for themselves, leaving the holes where they were placed behind them. Their abundance the muscle-shells very plainly shew when examined by the microscope, and sometimes the number is 9000 or 3000 in one shell, but it is not certain that these have heen all fixed there by the muscle within ; for these fish usually lying in great, numbers near one another, the embryo of one are often affixed to the shell of another. The fringed edge of the muscle, which Lewenhoock calls the beard, has in every the minutest part of it, sueh
vartety of motions as are inconceivable, for being composed of longish fibres, dach fibre has in both sides of it a vast many moving particles. The muscle is infestod by several enemies in its own element : according to Reaumer, it is in particular the prey of a small shell-fish of the trochus kind. This animal attaches itself to the shell of the muscle, pierces it with a round hole, and introduces a sort of tabe, five or six lines long, which it turns in a spiral direction, and with which it sucks the substances of the muscles. Muscles are also subject to a certain disease, which have been supposed to be the cause of those bad effects which sometimes happen from the eatiog of them.

Mr. Barbut gives the following account of the oyster. "This sea-fish occupies in. the scale of nature one of the degrees the most remote from perfection ; destitute of defensive weapons, or progressive motion, without art or industry, it is reduced to mere vegetation in perpetual imprisonmeat, though it every day opens regularly to enjoy the element necessary to its preservation. This animal's figure, and spring of its organization, are searce discervable through the coarse and shapeless mass : a ligament placed at the summit of the shell serves as an arm to its operation. Oysters are reputed to be hermaplirodites; the spawn which they cast in May adheres to the rocks and other matters at the bottom of the sea ; and in the space of 24 hours is provided with shells, in which are contained other oysters, that never leave the spot on which they are fixed, till the greedy fisherman tears them from the element. The green oysters eaten at Paris are commonly brought from Dieppe. Their colour is owing to the care taken to feed them in creeks encompassed with verdure, whence they acquire their delicacy. Common oysters should be fresh, tender, and moist. The most esteemed are those caught at the mouth of rivers and in clear water. Great account is made of oysters from Brittany, but still greater of those that come from Morennes, in Saintonge. Preference is given to those that are edged with a small brown fringe or beard which epicures call fecundated oysters ; but that those are female is a mistake. The want of fresh water renders oysters bard, bitter, and unpalatable. Mud and sea weeds destroy them in their very birth ; galangol roots, muscles, scallop, sea-stars, and crabs, are formidable enemies to the oyster. There are found in Spain red and russet coloured oysters ; in Illyria brown coloured, with the flesh black; and in the Red Sea, of the colour of the Iris. Oysters of the mangle-tree are of two sorts ; those of St. Domingo are delrcate, adhering to the stumps of the trees that dip in the water. The negro divers cut them off with a bill, and they are served upon the table with the roots."

The distinguishing characteristic of zoophites is this, that though they are properly animals, and possessed of some small portions both of sensation and of voluntary motion, yet they propagate by "slifting like a plant, so that if one of them be divided intotwo or more parts, each of these becomes a distinet and perfect animal.

Animal flowers, though classed by Linneus among mollusca, may not improperly be bere described. They have only one opening, which is in the centre of the uppermost part of the animal ; round this are placed rows of fleshy claws; this opening is the mouth of che animal, and is capablo of greater extension. The animals themselves, though exceedingly voracious, will bear long fasting. They may be preserved alive a
whole year, or perhaps longer, in a vessel of sea-water, without any visible food; but when food is presented, one of them will successively devour two muscles in their shells, or even swallow a whole crab as large as a hen's egg. In a day or two the crab-sheil is voided at the month perfectly cleansed of all the meat. The muscle-shells are likewise discharged whole, with the two shells joined togetier, but entirely empty, so that not the least particle of fish is to be seen on opening them. Anemonies of one species will even swallow an individual of another species; but after retaining it ton or twelve, hours, will throw it up alive and uninjured. Through this opening also it produces its young ones alive already furnished with little claws, whicb; as soon as they fix themselves, they begin to extend in scarch of fgod. * One of the extremities of the sea ancmony resembles, as we have said, the outward leaves of that flower; while its limbs are not unlike the shag or inner part of it. By the other extremity it fixes itself as by a sucker, to the rocks or stones lying in the sand, but it is not totally deprived of the power of progressive motion, as it can shift its situation, though very slowly.

The sponge is fixed, flexible, and very torpid, growing in various forms, composed either of reticulated fibres, or mosses of small spines interwoven together, and cloathed with a living flesh, full of small mouths or holes, by which it sucks in and throws out the water. So early as the days of Aristotle, sponges were supposed to possess animal life, the persons employed in collecting them having observed them sbrink when torn from the rocks, thus exhibiting symptoms of sensation. The same opinion prevailed in the time of Pliny : but no attention was paid to this subject till Count Morsigii examined them, and declared them vegetable. Dr. Peysonell, in a paper whicb he sent to the Royal Society; in the year 1759, and a second in 1757, affirmed they were not vegetables but the production of animals ; and has accordingly described the animals, and the progress which they performed in making the sponges. Mr. Ellis, in the year 176q, was at great pains to discover these animals. "Fpr this purpose he dissected the spongia urens, and was sarprised to find a great number of simall worms, of the genus of the sea scolopendra, which had pierced their way through the soft substance of the sponge in quest of a safe retreat. That this was really the case, he was fully assured of by inspecting a number of specimens of the same sort of sponge, just fresh from the sea. He put them into a glass filled with sea-water, and then instead of seeing any of the little animals which Dr. Peysonell described, he observed the small holes with which the papille are surrounded, contract and dilate themselves. He examined another variety of the same species of sponge, and plainly perceived the small tubes inspire and expire the water. He therefore concluded that the sponge is an animal, and that the ends or openings of the branched tubes are the mouths by which it receives its nourishment and discharges its excrements.

Most of the other animals of the zoophite tribe are denominated polypes; of these one species is an inbabitant of fresh water. These were first discovered by Lewnhoock, who gave some account of them in the Philosophical Transactions for 1703 ; but their wonderful proportion was not discovered till the year 1740, when 3idr. Trembly began to investigate thein. The general character of the polype is, that
it fixcs itself by its base, is gelatinous, linear, niched, and can change its piace. The mouth, which is placed at one end, is surrounded with hair like feelers. The young ones grow out from its sides ; but in autumn it produces eggs from its sides. There are seven varieties.

1. The viridis, or green polype, has commonly ten short arms.
2. The fusca has frequently eight arms, several times larger than its body.
3. The grisea is of a yellowiah colour, small towards the bottom, and has long arms, generally about seren in number.
4. The pollers has generally about six arms, of a moderate length.
5. The hydotula has a vesicular body;' and four obsolete arms. It is found in the abdomen of shoep, swine, \&ce.
6. The stentarea has been called the tunnel shaped, and has a mouth surrounded with a row of hairs.
7. The socialis is bearded, thick, and wrinkled.

- The three first species are those on which the greatest number of experiments have been made : and their shapos are so various that it is by no means easy to describe them. They are generally found in ditches. Whoever has carefally examined these when the - sun is very powerful, will find many little transparent lumps, of the appearance of jelly, and size of a pea, and flatted upon one side. The same kind of substances are likewise to be met with on the under side of the leaves of plants which grow in such places. These are the polypes in a quiescent state, and apparently inanimate. They are generally fixed by one end to some solid substance, with a large opening, which is the mouth, at the other; having severel arms fixed round it, projecting as rays from the centre. They are slender, pellucid, and formed of a tender substanco like the horns of a snail, and capable of contracting themselves into a very small compass, or of extending to a considerable length. The arms are capable of the same contraction and expansion as the body; and with these they lay hold of minute worms, and other insects, bringing them to the mouth and swallowing them ; the indigestible parts are again thrown out by the mouth. The green polype was that first discovered by Mr. Trembly ; and the first appearances of spontaneous motion were perceived in its arms, which it can contract, extend, and twist about in various directions. On the fist appearance of danger they contract to such a degree that they appear little bigger than a grain of sand, and of a fine green colour, the arms disappearing entirely. Soon after he found the grisea, and afterwards the fusca. The bodies of the virdis and grisea diminish almost insensibly from the anterior to the posterior extremity; but the fusca is for the piost part of an equal size for two thirds of its length from the anterior to the posterior extremity, from which it becomes abruptly sualler, and then continues of a regular size to the end. These three kinds have at least six, and at roost twelve or thirten arms, though sometimes the grisea is met with having eigbteen arms. They can contract themselves till their bodies do not exceed one-tenth of an inch in length, and they can stop at any intermediate degree of contrantion or extension. They are of various sizes, from half an inch to an inch und a halflong : their arms are seldom longer than their bodies, though some have thern an rinch, and some even eight inches long. The thickness of their bodies decreases as they
extend themselves, and vice versa; and they may be made to contract themselves either by agitating the water, in which they are contained, or by touching the animals themselves. When taken out of the water they all contract so much as to arpear like little lumps of jelly. The arms have the same power of contraction or expansion as the body has, and they can coatract or expand one arm, or any number of arms, independent of the rest ; and they can likewise bend their bodies and arms in all possible directions. They can also contract or dilato their bodies in various places, and sometimes appear thickset with folds, which, when carelessly viewed, appear like rings. Their progressive motion is performed by that power which they bave of dilating or contracting their bodies. When about to move they bend down their heads and arms, lay hold, by means of them, on some other substance to which they design to fasten themselves; then they lessen the tail, and draw it towards the head ; then either fix it in that place, or stretehing foryard the head as before, repeat the same operation. They ascend or descend at pleasure in this manner upon aquatic plants, or upon the side of the vessel in which they are kept ; they sometimes hang by the tail from the surface of the water, or sometimes by one of the arms, and can walk with ease upon the surface of the water, and as it were in a little space, of which the tail forms the bottom; so that it scems to be suspended on the surface of the water on the same principle that a pin or needle is made to swim. When a polype therefore means to pass from the sides of the glass to the surface of the water, it has only to put that part out of the water by which it is to bo supported, and to give it time to dry, which it always docs upon these occasions, and they attach themselves so firmly by the tail to aquatic plants, stoncs, Re. that they cannot be easily disengaged ; they often further strengthen their attachments by means of one or two of their arms, which serve as a kind of anchors for fixing them to the adjacent substances.

The stomach of the polype is a kind of bag or gut, into which the mouth opens, and goes from the head to the tail. This in a strong light is visible to the naked eye, especially if the animal be placed between the cye and a candle, for these animals are quite trausparent, whatever their colour may be. The stomach, however, appears to more advantage through a powerful magnifier. Mr. Trembly, by cutting one of these animals transversely into three parts, satisfied himself that they were perforated throughout. Each piece immediately contracted itself, and the proportion was very visible through a microscope. The skin which incloses the stomach is that of the polype itself ; so that the whole animal, properly speaking, consists only of one skin in the form of a tube, and open at both ends, no vessels of any kind are to be distingaished. The mouth is situated at the anterior end in the middle between the shooting forth of the arms, and assumes different appearances according to circumstances ; being sometimes lengthened out in the form of a nipple, at others appearing truncated; sometimes the aperture is quite closed, at others there is a holiow ; though at all times a small aperture may be dircovered by a powerful magnifier. That species named fusca has the longest arms, and makes use of the most curious mancuvres to seize its prey. They are best viewcd in a glass seven or eight inches deep, when their arms commonly hang down to the bottom. When this or any other kind is hungry, it spreads its arms in a kind of circle to a

## ANIMATED NATURE.

considerable extent, inclosing in this, as in a net, every insect which has the misfortune to come within its circumference. While the animal is contracted by seizing its prey, the arms are observed to swell like the muscles of the buman body when in action. Though no appearance of eyes can be observed in the polype, they certainly have some knowledge of the approach of their prey, and shew the greatest attention to it as soon as it comes near them. It seizes a worm the moment it is touched by one of the arms; and in conveying it to the mooth it frequently twists the arm into a spire like a cork screw, by which means the insect is brought to the mouth in a much shorter time than otherwise it would be; and so soon are the insects on which the polypes feed killed by them, that M. Fontant thinks they nust, contain the most powerful kind of poism, for the lips scarce touch the animal when it eapires, though there cannot be any wound perceived in it when dead. The worm, when swallowed, appears sometimes single, sometimes double, according to cireumstances. When full, the polype contracts itself, hangs down as in a kind of stopor, but extends again in proportion as the the food is digested, and the excrementions part is dischargod. The hodies of the insects when swallowed, are first macerated in the stomach, then reduced into fragments, and driven backward and forward from one end of the stomach to the other, and even into the arms, however fine they may be, whence it eppears that the arms, as well as the other parts of this remarkatle creatire, are a kind of hollow guts or stomachs. They feed on most insects found in fresh water, and will also be supported with worms, the larva of gnats, \&c. and even with snails, large aquatic insects, and fish, or flesh, if cut into small bits. Sometimes two polypes lay hold of the same worm, and each begins to swallow its own till their mouths meet and the worm breaks ; bot should not this happen to be the case, one polype will sometimes devour the other along with its portion. It appears, however, that the stomach of one polype is not fitted for dissolving the substance of another, for the one which is swatlowed always gets clear again after being imprisoned for an hour or two. The manner in wlich the polypes generate is most perceptible in the grisea and fusca, as being considerably larger than the virdis. If we examine one of them in summer, when the animal is most active, and prepared for propagation, some small tubercles will be found proceeding from its sides, which constantly increase in bulk, untilat last in two or three days they assume the figure of small polypes. When they first begin to shoot, the excresence becomes pointed, assuming a conical figure, and deeper colour than the rest of the body. In a short time it becomes truncated, and then cylindrical, after which the arms begin to shoot from the anterior end. The tail adheres to the body of the parent animal, but gradually grows smaller, until at last it adheres only by a point, and is then ready to be separated. When this is the case, boththe mother and the young ones fix themselves to the sides of the glass, and are separated from each other by a sudden jerk. The time requisite for the formation of the young ones is very different, according to the warmth of the weather and the nature of the food eaten by the mother. Sometimes they are fully formed and ready to drop off in 94 hours ; in other cases, when the weather is cold, 15 days bave been renquisite for bringing them to perfection.

Vol. I.
3 K

That genus of zoophites which are by naturalists denominated gorgonis, and are in* Englistr called sea-whips, and sea-feathers, differ from the fresh water polype in many of their qualities, and particularly in producing from their own substances a hard and solid support, serving many of the purposes of bone in other animals. This is formed by a juice thrown out from a peculiar set of longitudinal parallel tubes, ruming along the internal surface of the fleshy part : in the coats of those tubes are a number of small orifices through which the liquor exudes, and conereting, forms the layers of that hard part of the annular circles, which some, judging from the consistence rather than the texture, have erroneously denominated wood. The surface of the gorgonia is composed of a kind of scales, so well adapted to each other as to serve for defence against external injuries: and the flesh, or as some have called it, the bark, consists of proper muscles and tendons for extending the openings of their cell, for sending forth from thence their polype suckers in search of food; and for drowning them suddenly; and contracting the muscles of these starry shells, in order to secure these tender parts from danger ; and also of proper secretory ducts, to furnish and deposit the matter that forms the stem and branches, as well as the base of the bonc. Mr. Elis affirms that there are ovaries in these animals, and thinks it very probable that many of them are viviparous. Corals, madrepones, and several ofher mariue productions, which were formerly thought to have a sort of middle nature between plants and stones, are now found to be the work of certain very minute zoophites, or rather to bear the same relation to them as the shell does to the snail or oyster. What have been called the holes in the bark correspond to small cavitics upon the substance of the coral; and when the bark is removed there may be seen an infinite quantity of little tubes connecting the bark with the inner substance, besides a great number of small glands adhering to them; and from these tubes or glands the milky juice of the coral issues forth, the holes in the bark are the openings through which the insects that form these substances for their habitations come forth; and these cavitics, which are partly ip the tark, and partly in the substance, are the cells which they inhabit. The organs of the animal are contained in the tubes, and the glandules are the extremities of its feet, and the milky liquor is the blood and juice of the animal, which are more or less abundant in proportion to its health and vigour. This juice or liguor runs along the furrows perceived upon the proper substances or body of coral, and stopping by litte, becomes fixed and hard, and is changed into stone, and being stopped in the bark, causes the coral to increase proportionably, and in every direction. In forming coral and other marino productions of this class, the animal labours like those of the testaceous kiod, each according to his species; and their productions vary according to their several forms, magnitudes, and colours.

We now proceed to consider the microscopic animalcules, which are divided by Muller in the following manner :

1. Such as have no external organs.
2. Those that have external organs.

When paste is allowed to stand it becomes sour, it is then found to be the habitation of numberless animalcules, which may be discerned by the naked eye ; and though their

## A.

## ANIMATED NATURE.

form cannot be perfectly distinguished, their motion is very perceptible, and the whole paste will seem to be animated. The most remarkable property of these insects is, that they are vivipar ous. If one of them is cut through near the middle, several oval bodies of different sizes will be seen to issue forth. These are young argille, each of them coiled up and enclosed in its proper membrane, which is so exquisitely fine as scarce to be discernable by the greatest magnifier, while it encloses the embryo animal. The largest and most forward immediately break through this covering, unfold themeclves, and wriggle about in the water nimbly ; others get out, uncoil, and move themselves about more slowly; and the least mature continue entirely without motion. The uterus, or vessel that contains all these oval bodies, is composed of many ringlets, not untike the ospera orteria of land animals, and seems to be considerably elastic ; for as soon as the animaleule is cut in two, the oval bodies are thrust out with some degree of violence from the springing back or action of this bowel. An hundred and upwards of the young ones have been seen to issue from the body of one single eel, whereby the prodigious inerease of them may be accounted for, as probably several such numerous generations are produced in a short time. They seem to be all prolific, and unless trial happens to be made upou one that has brought forth all its young, or when the paste has been kept for a very long time, the experiment will always succeed..

The wheel-animal is found in rain water that has stood some days in leaden gutters, or on lead at the tops of houses; or in the slime or sediment left by such water; and perhaps may also be found in other places : but if the water standing in gutters of lead, or the sediment teft behind it, has any thing of a red colour in it, one may be alnost certain of finding them therein. Though it discovers no signs of life except when in the water, yet it is capable of continuing alive many months after it is taken out of the water and kept in a state as -dry as dust. In this state it is of a globular shape, exceeds not the bigness of a graill of sand, and no signs of life appear : but being put into water, in the space of half ao hour a languid rsotion begins, the globule tarns itself about, lengthens itself by slow degrees, assumes the form of a lively maggot, and most commonly in a few minutes after, puts out its wheel swimming vigorously through the water, as if in search of food; or else, fixing itself by the tail, works its wheel in such a manner as to bring its food to it. The most remarkable part of this animalcule is its wheel work. This consists of a couple of semicircular instruments, round the edges of which many little fibres move themselves very briskly, sometimes with a kind of rotation, and sometimes in a trembling vibrating manper. When in this state it sometimes unfastens its taii, and swims along with a great deal of swiftness, seemingly in pursuit of prey. Sometimes the wheels seem to be catire circles, armed with small tecth like those of a balance wheel of a watch, appearing projected forwards beyond the head, and extending sideways somewhat wider than its diameter. The teeth, or cogs of these wheels seem to stand very regular at equal distances; but the figure varies according to their position, the degree of their protusion, or perhaps the will of the animal itself. They appear, sometimes like minute oblong squares, rising at right angles from the peripliery of a circle like antient Dattlements on a round tower; at other times they terminate in

## 232

## ANIMATED NATURE.

sharp points, and altogether resemble a kind of Gothic crown. They are often seen in a kind of curved direction, and all bending the same way, and seeming like so many hooks ! and now and then the ends of them will be perceived to be clubbed like maggots. This figure, bowever, as well as the first, they assume but rarely. As the wheels are every where excessively transparent, except about their circular rim or edge, where the cogs are set, it is very difficult to determine by what contrivance they are turned about, or what their real figure is, though they scon exactly to resemble a wheel moving round upon an axis. It is also bardly possible to be certain whether these circular bodies in which the teeth are set are of a flat form, or hollow and conical ; but tbey seem rather to be of a conical figure. The difficulty of conceiving how an articulation could be contrived so as to cause a real rotation, hatk caused many people to imagine that thene was a deception in this case; but Mr. Baker assures us, that when the wheels aro fully protruded, they never fail to shew all the marks of a regular rotation; and in some positions the cogs or teeth may be traced by the eye during a complete revolution, All the actions of this creature spem to imply sagacity and swiftess of sensation. At the least touch or motion in the water they instantly draw in their wheels; and Mr. Baker conjectures that their eyes are lodged somewhere about the wheels, because whilst in tha maggot state its wotions are slow and blundering; but after the wheels are protruded, they are performed with great regularity, swiftness, and steadiness.
"How many kinds of these invisibies," says Mr. Adams, "there may be is yet unknown as they are discerned of all sizes; from those which are barely visible to the naked cye, to such as resist the force of the microscope, as the fixed stars do that of the telescope, and with the greatest power hitherto invented, appear ouly as so many moving points. The smallest living creatures our instruments caushew, are those which inhabit the water ; for animalcule equally minute may fly in the air, or creep upnn the earth, it is scarce possible to get a view of them ; but as water is transparent, by confining the creatures within it we can easily observe them by applying a drop of it to the glasses. Animalcules, in general, are observed to move in all directions with equal case and rapidity, sometimes obliquely, sometimes straight forward, sometimes moving in a circular direction, or rolling upon one another, running backwards and forwards through the whole extent of the drop, as if diverting themselves ; at other times greedily attacking the little.parcels of matter they meet with. Notwithstanding their extreme minuteness, they know how to avoid obstacles, or to prevent any interference with one another in their motions : sometimes they will suddenly change the direction in which they move, and take an opposite one ; and as by inclining the glass on which the drop of water is, it can be made to move in any direction, so the animalcules appear to move as easily against the stream as with it. When the water begins to evaporate they flock towards the place where the fluid is, and shew a great anxiety, and uncomimon agitation of the organs with which they draw in the water. These motions grow languid as the water decrease, and at last cease altogether, without a possibility of renewal, if they be left dry for a short time. They sustain a great degree of cold as well as insects, and will perish in much the same degree of heat that destroys insects. Some animalcules are produced in water at the-freezing
point, and some insects live in spow. By mixing the least drop of urine with the water in which they swim, they instantly fall into convulsions and dic. The same rule seems to bold good in those minute creatures which is observable in larger apinals, viz. that the larger kinds are less namerous than those which are smaller, while the smallest of all are found in such multitudes that there seem to be myriads for one of the others. They increase in size, like other animals, from their birth uatil they have attained their full growth; and when deprived of proper nourishment, they in like manner grow thin and perish.

The consideration of these various orders of being has frequently given occasion for many just and pious observations ; no where, however, have we met with any which seem more judicious than those of the reverend author of the animal biography, to whom we acknowledge ourselves indebted for the remainder of this chapter.
It is one material use of the study of nature, to illustrate this greatest of all truths : " That there must be a God; that he must be almighty, omniscient, and infinite in goodness ; and that, although he dwells in a light, inaccessible to any mortal eye, yet our facuities see and distinguish him elearly in his works." In these we are compelled to observe a degree of greatness far beyond our capacities to understand : we see an exact adaptation of parts composing one stupendous whole ; an uniform perfection and goodness that are not only entitled to our admiration, but that command from us the tribute of reverence, gratitude, and love, to the Parent of the Universe. Every step we tread in our observations on nature, affords us indubitable proofs of his superintendance: from these we learn the vanity of all our boasted wisdom, and are taught that nseful lesson, humility : we are compelled to acknowledge our dependance on the protecting arm of God, and that, deprived of this support, we must that moment dissolve into nothing. Every object in the creation is stamped with the characters of the infinite perfection and overflowing benevolence of its author. If we examine, with the most accurate discrimination, the construction of bodies, and remark even their most minute parts, we see clearly a necessary dependance that each has upon the other: and if we attend to the vast concurreace of causes that join in producing the several operations of nature. we shall be induced to believe forther, that the whole world is one connected train of causes and effects, in which all the parts, either nearly or remotely, have a necessary dependance on each other. We shall find nothing insulated, nothing dependant only on itself. Each part lends a certain support to the others, and takes in return a share of aid from them. Previously to entering farther into the subject, we will examine for a moment that part of every animal body called the eye, which, though ene of the most conspicuous, is still the most surprising part of the body. Here we have exhibited to us nicety of formation, connections and uses that astonish us. We see it placed in a bony orbit, lined with fat, as an ensy socket in which it rests, and in which all its motions readily take place. We find it furnished, among many others, with those wonder ful contrivances, the iris, pupil, and different humours : and that incomprehensible mechanism the optic nerve, which affords to the brain, in a manner greatly beyond our conceptions, the images of external objects.

How admrable is the construction of the skeleton : every particular bone adapted peculiarly to the mode of life and habits of the animal possessing it. The muscular system is still more entitled to our wonder; and if we enter into examination of the viscera, the skin, and the other parts of the body, we can fix no bounds to our astonishment. When the anatomist considers how many muscles must be put in motion before any animal exertion can be effected : when he views them one by one, and tries to ascertain the precise degree to which each individual muscle must be contracted or reaxed, before the particular motion indicated can be effected, he finds himself lost in the abyrinth of calculations in which this invoives him. When he farther reflects with the faculty of calling forth these incomprehensible energies, but that the most insignificant insect is vested with powers of a similar nature, he is still more confounded. A skilfut naturalist has been able to perceive that in the body of the lowest caterpillar, which, in the common opinion, is one of the most degraded existences on this globe, there are upwards of two thousand muscles, all of which can be brought into action with us much facility, at the will of that insect, and perform their several offices with as much accuracy, promptitude, and precision, as the most perfect animal ; and all this is done by that insect, with equal unconsciousness of the manner how, as the similar voluntary actions of man himself are effected! it would be no easy matter to make some men believe that the minute ephemera fly, whose life is but the coatinuance of a few hours, is in all its parts, for the functions it has to perform, as complete as the stately elephant that treads the forests of India for a centory. Little do they suppose that even in its appearance, under the greatest magnifying powers, it is as elegant in every respect, and as beautifully finished as any of the larger animals ! Unlike the paltry productions of man, all the minute parts of these works of God appear in greater perfection, and afford to us a greater degree of admiration, the more minutely and the more accurately they are examined. M. de Lisle saw, with a microscope, a very small insect, that, in one second of time, advanced three inches, taking five hundred and forty steps ; and arany of the discoveries of Lewenhock were even still more wonderful than this. Thus we evidently discern that all the operations of God are full of beauty and perfection, and that he is as much to be adored in the insect creation as in that of the elephant or lion. All the smaller creatures that serve us for food are particularly fruitful, and increasing in a much greater proportion than others : and in the bird kind it is extremely remarkable, that, lest they should fall short of a certain number of eggs, they are endowed with the power of laying others in the place of those that are taken away : but when their number is complete, thiey invariably stop. Here is an operation, like many others that we shall have to observe, much beyond our comprehension. How the mere privation of parts should cause a fresh production, is not easy to understand. The organization of an offspring should, in this case, almost scem a voluntary act of the female ; but in what manner it is done, we are not only ignorant at present, but most probably shall ever remain so. Noxious animals multiply in general so slowly as never to become above the power of man. But whenever we find a great increase of these, we generally discover something given by Providence to destroy and counterbalance them. Many species devour each other, and
multitales, that might otherwise, by their numbers, soon be of serious injury to man kind, afford food th ofher creatures. The insect tribes increase most rapidly. Some bring so many as two thousand young each : these would soon fill the air were they not destroyed by innumerable enemies.

The number of young produced by every animal invariably bears a certain proportion to the duration of its life. The elephant is said to live to the age of a hundred years or upwards : the female produces, therefore, bat one young, and this does not arrive at maturity till it is 16 or 18 years old. Nearly the same thing unay be remarked in the rhinoceros, and all the larger animals: but in most of the small ones, whose life is shorr, or whose increase is not so injurious to pan as the increase of these would be, we ah ways find the numbes of young much greater : many of the rat and other tribes prodices several times in the year, and have from threo or four, to ten and upwards at a litter. One species has never been found to increase so much as to exclude the others : and this singular harmony and just proportion has now been supported for several thousandyears, "One generation passetb away, and another succeedeth," but all so equally as to balance the stock in all ages and in all countries. There is scarecly a plant that is not rejected as food by some animals, and ardently desired by others. The horse yields the hemlock to the goat ; and monkshood, which kills the goat, is said not to injure the "horse. Plants thus, which afford only the natural nouristment to some, are avoided by others as injurious. Poison is, indeed, only a relative term. Several plants that are notious to man, are greedily devoured by some of the insect tribes. Thus does every creature enjoy its alloted portion ; and all this was contrived for the wisest of parposes. Had the Author of Nature formed all the plants equally grateful to all kinds of animais, it must necessarily have happened that some species would have had an enormous in-- crease; whilst others must have perished for want of food. But as every species must, of necessity, keave certain plants to certain animals, we find that all are able to obtain their due share of nourishment. All enimais are calculated, in every respect, in the best possible manner, for the climates in which they have to live, and for their separate and peculiar mode of life, In the dreary northera regions, the dark animals become white, to evade, by their resemblance to snow, the quick sight of their enemies. Their clothing also becomes, daring winter, nearly doable what it is in the summer. In the torrid clinates the sheep loses his fleece, and is covered with hair. The camel that traverses the burning sands of the deserts, is formed with soft spungy feet that the heat cannot crick : it has a reservoir for water, which enables it to resist for many days the attacks of thirst, in a country where water is seldom to be had; ; and it is content with browsing on such miserable food as is to be met with in its progress. If we attend to the contrivances of nature in the preservation of those animals, that would otherwise, in the colder climates, be deprived of food during the winter, we bave an-additional source of admiration. Most of the insect eating tribes either migrate to other countries, or become torpid during the rigorous season. Insects themselves, unable to bear the extreme cold, generally lie hidden within their cases, from whence, at the epproach of spriog, they burst, and tly forth. Some animals, as the beaver, squirrels, \&c. that feed oa such ve-

## ANIMATED NATURE.

getables as can be preserved though the winter, do not sleep, but live in their retreats on those provisions which nature bas kindly taught them to store up in the summer.

The preservation of the young of all animals is not less wonderful than this. However savage may be the natural disposition of the parents, they are remarkably affectionate to their offspring, and provide every thing necessary for them with the utarost tenderness. However powerful their enemies may be, the dara will stand forward in their defence, and frequently die rether then yield them up. In no more than about three species, ff all that our books have mentioned, are we able to trace any want of affection in the female parents, to whose care the young generally devolve : and even these may have arisen from the misapprehensions of the writers, for nature seems so unifor in in this necessary and pleasing operation, that we cannot allowy without superabundant proof, even of exceptions. Quadrupeds, when they bring forth their young, lave, secreted in receptacles provided for the purpose, a liquor which we call milk. With this, 'which is peculiarly casy of digestion, the young are nourished, till their stomachs are able to bear, and their teeth to chew, more solid food. Birds are destitate of this; their offspring, therefore, are able, as soon as hatched, to take into their stomachs such food as the parents collect for them. The insect tribes are generally brought to life in a nidus that itself affords them nourishment. Thus does an uniformly beautiful contrivance in rearing and nourishing their tender young, pervade every species of the antmal creation.

Thus does the uniforn voice of nature proclaim aloud that "God is love :" and that: "the merciful and gracious Lord hath so done his marvellous works, that they ought to be liad in remembrance." The wholo material system throughout heaven and earth, presents a varied scene rich in use and beauty, in which nothing is lost, and in which according to our former obecrvations, the meanest and minutest creatures have their full -

* designation and importance.


## CHAPTER VIII.

MAs.-His ammal aconomy-Distingzishing characteristics-Original of the distinctions of colour that obtain among the human species-The natural disadvantages of man confirm the Mosaic account of his creation-Progress of society in marmers, government, science, and religion.

AMONG all the oojects that sutround us, there is none that so well deserves our atteition as man. He is indeed born feeble, naked, and defenceless, and ever remains unequal to many animals in strength and swiftness ; but the wide extent of his intellectual powers bas furnished him with resources equal to his wants, and has even raised bim to the empire of the world. He has learned to traverse the ocean, and in some instances the air, to make his observations on distant worlds, and what is of infinitely greater importance, to see the hand that has formed him, and expect in his pre, sence immortal felicity.

In taking a general view of the formation of Mas, a circumstancs of importance is his size, considered in relation to the force of gravitation. If the size of a man was *much greater than it is, supposing his strength to be only in proportion, his motions would be much slower, and more laborious : nor would his increase of size be entirely compensated by a diminution in the force of gravitation, for this would expose him to inconveniences, on account of the various relations in which be stands to other objects, though he would gain in celerity what he would lose in force, yet his weakness would incapacitate bim for acting with advantage on considerable masses of matter. On the whole, it should seem that neither an'increase of size, with an increase of gravitation; nor a diminution of size, with a diminution of gravitation ; nor an increase of either, with a diminution of the other, would in general so well suit the conveniences of man, and his relation to other beings, as the state in which he at present subsists. To exemine minutely the structure of the human body, would lead us to transgress our necessary limits, we can therefore only describe the priacipal parts of which it consists, the functions it performs, and the senses with which it is furnished. The most remarkable parts of the body are bones, cartilages, museles, tendons, ligaments, blood-vessels, lymphatics, nerves, and glands.

Bones are hard substances, which form the basis of the body. 'Cartilages are firm, smooth, elostic bodies, which cover the ends of the bones. Muscles are contractile organs, which are aliached to bones, and perform the motions of the body, Tendons are tough cords, by meens of which muscles are attached to bones. Ligaments are strong fibres er membranes, which connect bones to each other. Blood-vessels are membraneous Bexible tubes, which convey the blood to and from the heart. Lymphatics are transparent tubes, which perform absorption. Nerves are white cords connected with the brain,
snd are the instruments of sensation and voluntary motion. Glands are organic masses, destined for the purpose of secretion.

The bones consist of fibres, distributed in lamella or plates; these plates are not closely applied to each other, but, with the intervention of transverse fibres, constitute cells. The cells are distributed through the substance of all the bones, but are uniformly most remarkable in the centre, and on the surface of the harder boncs are so smull as not to be distinctly perceptible without the aid of glasses. The marrow which fills the cavities of the bones is a fat oily substance, contained in a fine and transparent membrene, which receives numerous blood-vessels, and is supported by the filaments of the reticular substance of the bones. If the different parts of a bone are observed it is found that where tie diameter of the bone is the least, there the sides are thickest and most compact; where the diameter is greatest, whieh is in general towards the ends of the long bones, their structure is very cavernous throughout The marrow pervades the whole substance of the bones, but is most remarkable in the middle part of the cavities of the long, bones. Its appearance and nature also differ in different bones, or in the sume bone in the progress of life. Thus the marrow is bloody in children, oily in adults, and thinner and more watery in aged people. At the time of birth, the bones are very imperfect, partiecularly those of the head ; so that by being moveable in thispart, and folding over each other during the time of delivery, an casier passage is procured for the infant. There are many projections from the bones, which in infancy are, soft, but which in the adalt state are bony ; and the same tendency to the formation of bone increasing with our years, bones which were separate in the prime of life concrete in old age. In the decay of the body, however, the bones are diminished with the other parts, so as in extreme old age to weigh a third less than in the middle periods of life. To far the greater number of bones whose ends are not joined to other bones by immoveable articulation, are annexed, by the intervention of cartilage, smaller bones, called appendages. In young subjects these are easily separable, bet in aduits the point of conjunction is not very perceptible. The bones are farnished with a tougb membrane, ealled the periosteum, which is spread on their surface, and the principal use of which secms to be to convey blood-vessels for their nourishment ; these blood-vessels are very numerous, and remarkable in the bones in the infant state, but become gradually less so in the progress of life. The bones are united to each other, either moveably or immoveably. They are moveably articulated in three ways.

1. By a ball and socket, which admits of motion in all directions, as in the shoulder.
2. By a hinge, which allows motion in only two directions, as in the knee.
3. By a long process of one bone received into the cavity of another, which adinits of a rotary motion, as in the articalation of the first and second sertebra of the neck.
The immoveable articulation of bones is of two kinds:
4. Where numerous processes of two bones, like the teeth of saws, are mutually reseived into each other, as in the bones of the hend.
a. By the growing together of the bones with the intervention of the cartilages, as in the soion of the es sacrum, with the ossa inoominata.

The ends of bones which move on each other are tipped with smooth cartilages : and tho friction is still further diminished by a fluid, much more slippery than oil itself, which is called synovia. The moveable joints are also furnished with strong membranes, called ligaments, which pass from one bone to another, affording strength, and retaining the lieads of the boncs in their cavities. For the purposes of articulation, and the connection of museles, boncs are uneven on their surface, and have numerous elevations aad depressions.

The bones, considered with relation to the motions of the body, are merely levers ; and the muscles are the immediate sources of all the motions of tho animal machice. The animal substance, which the anatomist cglls muscle, is that which, in common language, passes under the name of the lean or flesh meat. The colour of the muscles, when they are first removed from the body, is red : this colour, however, is not essential to them, hut is merely owing to the presence of blood, for when a muscle is cleansed from blood it appears white. Ih every recent muscle we may at first view distinguish two kinds of fibres; the one kind appears red, and is the tolirough muscular sobstaoce: the other is tendinous, has a white silvery appearance, and has no power of contraction like the former. The tendinous substance is sometimes collected into a cord, but is very fre--quently expanded, so as by covering the surface of a muscle, or by pervading its substance, to afford a very extensive connection to muscular fibres. Muscles are gencrally connected at their two extremities to bones, by means of teadons; the largest part of a muscle is called its belly, and is chiefly composed of contractile muscular fibres. That connection of a muscle which is least moveable is called its origin, that which is most moveable its insertion ; but these terms are in many cases merely relative, for a part of the body which is more fixed in one posture becomes less so in another. The fibres which compose a muscle run cither longitudinally, transversely, obliquely, or circularly. If all the fibres which compose a muscle run in the same direction, it is called rectlinear; radiated, if the fibres are disposed like radii ; penniform, if, resembling the plume of a feather, the fibres are situated obliquely with respect to the contre from which they prgceed; compound, if the fibres run in different directions. The majority of the large muscles of the body are componnd. Most museles have others opposed to then, which act in a contrary direction, and are called antagonists. Thus one muscle, or one set of muscles, bends a limb, another extends it ; one elevates a part, another depresses it; one draws it to the right, another to the lef. By these opposite powers the part is kept in a middle direction, ready to be drawn cither one way or another, as particular muscles are thrown into a stronger action. The flexor muscles exeeed the extensors in strengtb, and for this reason the ersiest postures are those-in which the body or limbs are moderately bent.

The different museles of the human body are generally described as so many distinct and separate masses of flesh.

It is necessary, however, to remark, that when the anatomist comes to trace them in the subject, he finds the case far otherwise, as most neighbouring muscles are mixed and confused together by an intertexture, of fibres; as well as by being involved in cellular
substance. The cellular substance is a loose fibrous web, and when filled with air plainly exhibits its real structure, viz, that of cells communicating with each other. The uses of this substance are so important, that, in all probability, animals could not exist without it. By uniting the fibres of the muscles into compact masses, it secures them from becoming cutahgled with each other, and with the minute blood-vessels, lymparties, and nerves, which are every where distributed among them. At the same time, nowever, that it.connects together the muscles, and preserves them in their relative situations, it is sufficiently loose to give full play to all their motions ; it serves also the purpose of a soft and compressible cushion, interspersed among the muscles, and, being always moist and slippery, renders their mptions easy, and prevents friction. The cellular substance also affords a lodgement to the fat, and, together with it, fills up the interstices between muscles, and adds to the beauty, evenness, smoothness, and softness of the surface of the body. The cellular substançe is always considered as one of the integuments of the body.

The other integuments are the skin, properly so called, and the epidermis or scarf skin. The skin is properly nothing more,than a condensed cellular substance, copiously furnished with blood-vessels, lymphatics, and nerves, as it within gradually becomes less dense, and-is at length insersibly lost in the loose cellular substance. It covers the whole surface of the body, is tough, elastic, and forms, by means of the neryes, which terminate in it, particularly at the extremities of the fingers, where it is most sensible, tne organ of torch. The cutis, when freed from the epidermis, which is its external covering is found to be furnished with innumerable papille, which appear like minute granulations ; their use is probably to increase the sensibility of the skin, as where it is most sensible they are most remarkable. The skin or cutis, however, not only covers the outer parts of the body, but becoming thinner and more delicate, enters and invests internally the various cavities which open on the surface. It is every where pierced with blood-vessels, and in some parts with the ducts of small glands, which are seated between the skin and the cellular substance, and which pour out an oily matter for the lubrication of the surface of the body. The epidermis, or scarf-skin, everg where covers the true skin, which would otherwise, from its extreme sensibility, occasion much uneasiness from the friction to which the surface of the body is necessarily exposed. The epidermis consists of a mueous substance, which is placed next the true skin, and a dry, transparent, and in some measure horny substance, which is placed outwards. The mucous substance, called corpus mucosum, or reto mulpighianum, is of a consistence between that of a solid and of a fluid, and is ofen treated of by anatomists as a distinct covering of the body. The colour of it varies according to the complexion. In fair people it is white, in brown people of a dusky hue, and in the Africans black.

Many anatomists chuse to call the hair, the nails, and the horns of animals, productions of the epidermis ; by Malpighi and Rush the hairs were supposed to be continuations from the nerves ; neither of which opinions, however, seems, in the judgment of Dr. Gregory, to be sufficiently proved, though the former appears by far the more pro, bable. The hairs are distributed, more or less, remarkably over the whole body, except
on the palms of the hands and soles of the feet. They rise each of them from a separate oval bulb placed beneath the true skin, and lodged in the cellular substance, and they are surrounded by a sheath, which rises with them as far as the sarface of the body. The nails are horny insensible bodies, formed of thin lamelle or plates. They rise by a square origin from the last joints of the fingers and toes, and are hard where they are exposed to the air, but soft near their roots. The structure of the horns, hoofs, and claws of animals is very similar to that of our nails. A minute portion of a finger nail being submitted to the microseope, exhibited the same appearances as the epidermis. Both the nails and hair grow entircly from below, by a regular propulsion from their roots.

Nerves are white cords distributed from the brain ovor the whole body; they rise cither immodiately from the brain, or mediately from it by means of the spiral marrow, which is itself a continuation of the fibres of the brain, and might withoat impropriety be considered as the largest nerve in the body. Nerves are composed of threads of the smallsess of which we have probably no adequate idea. To assist us in forming one, we must consider how uniformly nerves are distributed to even the most minute fibres of the body, and yet were they all conjoined, they would not make a cord of an inch diameter. It is dedaced from actual observation, that each fibre in the retina of the eye, or expanded optic nerve, cannot exceed in diameter the 39,400 th part of a hair.

The beart is a bollow muscle, included in a uembraneous bag, called the pericardium, The principal part of the muscular substance of the heart forms two cavitics called the ventricles. The posterior or left ventricle of these is much thicker, stronger, longer, and rounder than the other ; the anterior or right ventricle is wider, shorter, and thinner. The septam, or that portion of muscular substance which is placed between the ventrieles, scems chielly to belong to the former, and gives the latter an appearance of being merely an appendnge. At the basis of the heart are two cavities, which are each of them divided, by anatomists, into two parts, the sinus and the auricle; but ns these together form onc cavity, it will answer best the parpose of perspicuity to speak of them simply by the name of auricles. The auricies are composed of two membranes, with some muscular fibres. Like the ventricles, they are separated from each other by a septum, and one of them obtains the appellation of the anterior or right auricle, the other that of the posterior or left. Each of them communicates with the ventricle, which is placed next it, and which bears the same name.

Between the auriclds and the ventricles of the heart are placod valves, as also at the mouthis of the great arteries, which prevent the blood from passing in any other than the proper direction. The valves, which are placed between each of the auricles and ventricles, are turned inwards towards the latter cavities. The valves, situated at the entrance of the anterior ventricle, have three remarkable points, and aro therefore called valvule tricuspides ; those of the posterior ventricle terminate in two points, and, from heing compared to a mitre, are called valvule mitrales. In each of the great arteries, which procced from the ventricles the aorta and pulmonary artery, are seated three valves turned from the ventricles, and called semi-lunares. All these valives are elonges

## Vol I

3 N.
tions of the internal membrane of the part to which they belong. They are closely consected on that side from which the current of blood proceeds, and their other extremity is loose. When the blood, therefore, proceeds in its proper course, they are pressed close to the side of the vessel, and occasion no impediment ; but when it is about to return in the contrary' direction, they are raised from the side of the vessel, and meeting in the middle of its cavity, shut up the channel. The internal surface of the ventricles is extremely uneven, from a number of fleshy columns which rise from its inside, and some of which terninate by tendinous extremities in the valves of the heart, which they support, aud enable to perform their office more efficetually. Besides the connection, bowever, between the auricles and ventricles of the heart, each auricle communicates with a large vein, and each ventricle with a large artery. The use of the auricle is to receive the blood from the vein, and to discharge it into the cavity of the ventricle. The ventricle receives the blood from the auricle, and drives it forcibly into the artery.
When blood is first drawn from a vein, it appears to be an homogeneous red fluid : it then consolidates into one uniform mass; in a little time a yellowish watery liquor begins to separate from it, which is more or less in quantity, according to the state of the blood ; the red mass, in the mean time, contracts greatly in its dimensions, expelling the watery liquor from its pores, and consequently increasing in firmness and density. This separation happens in the body after death, and produces those concretions in the neart, and large vessels, those adhesive masses called polypuses, which were formerly supposed to have existed during life, and sometimes to have been the immediate occasion of death. By agitation blood continues fluid; but a consistent fibrous matter adberes to the stick or instrument made use of to stir it, which, by repeated ablution in water, becomes white, and appears to be very similar to the fibres of animals obtained by washing away the otheradhering matters. Received from the vein in warn water blood deposits a quantity of transparent filamentous matter, the red portion continuing dissolved in the water. On evaporating the fluid, a red substance, in the form of powder, or easily reducible to it, is left. As iron has been obtained in considerable quantities from this substance, the red colour of the blood has been, with some appearance of reason, attributed to this metal.

The vessels of the human body are either blood-vessels or lymphatics. The bloodvessels are membranous tubes, which convey the blood to and from the various parts of the body. They are divided into arteries and veins. The arteries pulsate, and convey the blood from the heart; the veins return it towards the heart, and do not pulsate. The large trunks, both of the arteries and vcins, are near the heart ; at a distance from it they are divided into numerous small branches, in a manner very similar to that in which the trunk of a tree is lost in its branches and twigs. The arteries are formed by the following tunics. The first is derived from the eavity, through which the artery passes. The second is a loose covering of a cellular substance, which contains smaller vessels, for the nourishment of that on which they run, and which in the large arteries offen contains a considerable quantity of fat. The third is muscular, and is composed of several small arches of muscular fibres, many of which go to the tormation of a circle.

Within this is a small cellular coat, which adheres closely to the former ; and, lastly, there is a firm, smooth, and whitish coat, with which the circulating mass of fluids is in contact. The structure of the veins is the same as that of the arteries, but more delicate ; the muscular coat is in them so thin, or of so pale a colour, as not to admit of demonstration in man, but is plainly seen in a vessel called the venaportarum of the ox. That veins, however, have muscular coats in all animals, is inferred from their contractile power. The venous system is far more capacious than the arterial. Arteries are commonly said to diminish in size, as they recede from the heart; but this is not the real state of the caso. As long as an artery continues undivided, its diameter remains the same ; and when it does divide, the area of the vessels formed by this division is always greater than the area of the artery frons, which they are produced ; so tnat the artery may in truth be said to be increased. This rule holds equally with respect to the division of the great tranks of arteries, and the subdivisions of their branches. The tranks also of veins are always saaller than the sum of the smaller veins from which they are formed.

The larger trunks of blood-vessels are separate tubes, but their branches form various communications with each other, and these communications increase as the vessels become more minute, so as at length to form a web of vessels in the parts on which they are distributed. The advantages of this structure are very obvious, as by a communication of vessels each part may receive blood from many sources, and no part, therefore, suffers by the division of the blood-vessel which more particularly belongs to it ; its advantages are like those of commerce among mankind, by which the effects of partial losses are guarded against by a mutual exchange of conveniences. The branches of arteries are in general sent off at much more acute angles than those of the veins, by which the passage of the blood through the arteries is the less impeded. The arterics bave in general a corresponding vein placed near them ; but to this rule there are several exceptions, which will be more particularly noticed in speaking of the venous system. The trunks of the veins, and almost all the arteries, are deeply seated; but the smaller veins are every where thickly distributed on the surface of the body, immediately below the skin. By this structure a passage is provided for the blood on the surface of the body, where the internal veins are so compressed by the action of muscles as not easily to transmit their contents. The external and internal veins communicate very freely.

Lymphatics are small pellucid vessels, ewhich convey fluids"perfectly, or very nearly, colourless. The lymphatics are of two kinds ; those which take up fluids from the body in general, and those which receive the digested aliment from the intestines. The latter kind are called lacteals, and both of them terminate in a common trunk, the thoracic duct. The lymphatics have at least two coats, which are thin and transparent, but tolerably strong. They have also nerves and muscular fibres, as may be collected from their sensibility when inflamed, and from their power of contraction. They are furnished with valves, which are placed in pairs, and which are so numerous, that three or four of them often occur within the distance of one inch. From this circumstance they
are frequently called valvular lymphatic vessels, to distinguish them from the minute ramifications of the sanguiferous system, which also convey a colourless fluid. Lymphatics begin by extremely minute tabes from the whole surface of the body, from the celJular substance, from the cavities of the body, from all the glands, from all the viscera, and in general from every part of the system. It is now well ascertained, that not only water is absorbed by the lymphatics on the surface of the body, but many other substances. No lymphaties have been demonstrated in the brain ; but from a variety of circumstances there can be very litte doubt of their existence. All the lymphatics of the body pass through certain glands, which are connected with them. When the lymphatics approach these glands, they send some, branches to neighbouring lymphatics ; other branches pass over the surface of the glands, aved others enter their substance, in which they are so minutely divided as to escape observation. A great-number of these glands are placed at the upper part of the thigh, belonging to the lymphatics of the sower extremity ; others are placed under the arm, belonging to those of the upper ; and there are similar glands about the neck, and in various other parts of the body. It is at present disputed among anatomists, whether lymphatic glands are formed of cells or convoluted vessels; but the latter opinion seems to be more probable. Lymphatic or conglobate glands are of various sizes, from that of a small pea to that of a bean. They are commonly somewhat flattened; in young subjects they are found of a reddish or brown colour, but they become whiter in the progress of life. Their surface is shining, which is owing to a smooth dense coat, with which they are covered. These glands are said to be wanting in some animals, which yet have lymphatic vessels. The structure and uses of the organs concerned in the circulation of the blood have been already considered, and it was farther remarked that the heart of man is of a duplex construction, in other words, that it has two auricles and two ventricles. With a view to perspicuity, before we proceed to the circulation in the haman body, it will be necessary to mention the structure of the heart in certain arimals in which it is more simple.

In frogs, serpents, and other cold blooded-abimals, the heart consists of only two cavities, an auricle and a ventricle, it is driven into the arteries, from the arteries it is received into the veins, and by the veins is again brought back to the auricle. This being well understood, it cannot be difficult to comprehend the course of the circulation in man, and the warm-blooded arrmals, in which the only difference is, that the heart being double, or consisting of four cavities, the blood performs two circles instead of one. From the anterior auricle the blood passes into the anterior ventricie ; from the anterior ventricle it is conducted by the pulmonary artery to the lungs, and from the lungs, the pulmonary veins bring it back to the posterior auricle ; from the posterior auricle it passes into the posterior ventricle ; from the posterior ventricle it is carried to every part of the body, by means of the aorta and its branches, and thence is again brought back by the venae caves to the anterior auricle, whence it proceeded. In this manner, throughout life, the blood is constantly performing two circles ; a less between the heart and the lungs, and a larger between the heart and the rest of the body. The two auricle and ventricles are of equal capacity, and correspond in their contractions. From these eircumstances it
is evident, that the same quantity ot olood passes through the langs in a given time, as through all the rest of the body, and, consequently, that the circulation must be much more ropid in the lungs than in any other parts. It is supposed that about two ounces of blood are thrown from each ventricle of the heart at evcry contraction. The beart, "however, though the most remarkable, is not the only organ of circulation; since every vessel through which the blood passes assists, by its contractile powers, to propel ita contents. The sudden contractions of the heart, by which the blood is thrown into the arteries, occasion their pulsation, which is most violent in the large trunks, gradually becomes less remarkable as they ramify and recede from the heart, and is not at all perceptible in the veins, which receive their blood from the arteries. The coatraction of the ventricles, by which the blood-is propelled from the beart, is called the systole ; the dilation, by which the blood is received into them, the diastole.

The ends of the arteries are the beginnings of the veins, which uniting, as the arteries are divided, at length form large trunks, which generally correspond with the trunks of the arteries, from which, by the medium of smalier branches, they received their contents. But though all arteries terminate in veins, yet the minuteness of their ranifications, before this takes place, is various ; while some transmit the red globules, others exclude them, and transmit nothing but serum. A circumstance contributing greatly to the progress of the blood in the veins is their valvular structure, fitting them for deriving assistance from pressure ; and we find accordingly in the limbs, and wherever olse any advantage could be obtained from this circumstance, that the veins are furnished with valves, while in the cavities of the body, where they are not so much pressed by the action of muscles, this part of their structure is wanting. The motion of the fluids of the valvular lymphatic system is quite distinct from the circulation of the blood. These vessels begin by open mouths which perform the office of absorption, and their contents are not derived, like those of the red veins, from the extremities of arteries ; their fluids are therefore propelled,' without any aid from the beart, by their own contractile powers. The most remarkable functions to which the circulation of the blood is subservient, are secretion, the nourishment of the body, and certain changes which the blood undergoes in its passage through the lungs. There is no function of the body which is more calculated to excite oor astonishment and admiration than that of secretion. By secretion we see one fluid, the blood, modified more variously and more exquisitely than the human mind can easily conceive, or ever hope to explain ; in one part, secreted fluids, varying in different races of animals according" to their food, are endued with a power of dissolving the aliment, and fitting it for the nourishment of the body; in other parts, secretion furnishes fluids for lubricating the organs concerned in the various functions of the animal machine. In some animals the most powerful odours, in many the most deadly poisons, and in all, that wonderfut flaid by which their race is perpetuated, are the products of secretion. So far are we from discovering the nature of secretion, and the causes of the different properties of the fluids which are secreted, that we in reality know little more of this function than the general outlines of the structure of the parts concerned in it, We see a gland, with an artery, vein, and excre-
tory duct connected to it, but whether the secreted fluid be formed by exudation through the coats of the minute arteries distributed in the gland, or whether it is poured out from the open extremities of arteries into small receptacles, and is thence received into the excretory duct, or in what other mode the change wrought on the blood conveyed to the gland is effected, we are entirely ignorant. Absorption is performed by a system of lymphatic vessels. Their appearance, structure, and course through the body, have been already described. The uses of the absorbents in the amimal ceconomy are of the most important nature. By the absorbents all the nourishment of the body is convered from the intestines towards the heart; and by the absorbents, those particles, which have become useless in any of the organs, are taken up, conveyed into the mass of cir culating floids, and ultimately discharged from the body. The bones themselves afford evidence of the action of the absorbents, as their cotnponent particles are contioually changing throughout life, and as all the bones lose considerably of their weight in extreme old age. At the same time, however, that thear actual weight is lessened, theit specific gravity is increased; for the bones of old people are thinner and more compact in their sides, and have larger cavities. By chemical analysis, the proportion of earth is found to be increased in the progress of life. The absorbents are particularly nut merous in glands, and very probably have their influence in producing the phenomena of secretion. The fluids, which are secreted, for lubricating the joints and museles, and for moistening the several cavities of the body, are continually renovated by the absorbents, which take up what is already effused, while more is supplied by the arteries. The uses of the glands connected with the lymphatic vessels are not well understood, but from their being universal, and from our not being able to find a single lymphatic vessel, which does not, in its progress towards the heart, pass through some of them, it may be concluded that their uses are very important. One of the purposes, however, which they serve, is, probably, to prevent any thing injurious, which may be taken up by the absorbents, from entering the mass of blood; and in this way the minute ramifications, into which the lymphatics are divided in their passage through these glands, may perform the office of a filter. There are several arguments which might lead us to believe, that the lymphatic glands belonging to the lacteals have some share in digestion, or for fitting the chyle for entering the mass of circulating fluids; but their influence in this respect is not proved, nor does it seem easy to ascertain it. Several hypothesis have been formed by ingenious men; with a view to explain the mode in which the absorbents act in taking their contents ; but as they are but hypothesis, we shall pass them over in silence. As the absorbents are continually taking away the substance of the body, it was necessary that there should be organs, which, by furnishing fresh particles, might counterbalance their effects ; and these organs are the arteries, It has been already observed that the arteries, for an important purpose, convey the blood to every part of the system ; by means of the blood, however the arteries not only produce the secretions, but furnish matter to every exhausted orgaa of the body; and from ono fluid, restore the lost particles of the bones, the muscles, and the nerves, or whatever other solids stand in need of repair. This office, however, of the arterics, pre-supposes
that there must be a source, from which they are theinselves supplied with the substance they furnish to the other organs ; and this leads to the consideration of the importanc fupction of digestion. Animals are powerfully admonished to repair the waste of their bodies by an aversion from the sensations of hanger and thirst, and a desire of that pleasure which attends the gratification of these appetites. Solid food, being taken into the mouth, is masticated by the teeth, and mixed with saliva mad mucus, which by the pressure and action of the parts, are very copiously exuded. Thus softened and lubricated, the food is conveyed to the root of the tongue, and the lower jaw being now fixed by the shatting of the mouth, we are prepared to act with the muscecs which pass from the bone of the lower jaw to that which'supports the tongue, called the os hyoides. A convulsive action of these muscles suddenly draws forward the os hyoides, the root of the tongue, and the larnyx ; the larnyx is enlarged, the food is forced into the gullet, and in its passage presses down the epiglottis, so as to prevent any thing from getting into the wind-pipe. The parts before thrown into action are now relaxed; the food is received by the gullet, and is regularly, but rupidly, conveyed to the stomach. .Fluids are conveyed to the stomach in the same manner as solids. So perfect and exact is the action of the gullet in propelling its contents, that even air cannot elude the grasp, which - is proved by our having the power of swallowing air, by taking a mouthful of it, and using the same efforts which we employ in swallowing our food. After the food has reached the stomach, it is still further softened, and at leogth reduced to a pulpy consistence, by means which we sball presently examine. It now passes througb the pyIorous, or right orifice of the stomach, into the duodenum, where it is retained for some time, and attenuated by the admixture of the bile from the liver, and the pancreatic juice from the pancreas. From the duodenum it passes into the jejuoum and ileum, in which it is moved backwards and forwards by the muscular contraction of their coats, called their peristaltic motion. As it proceeds, its more fluid parts are continually taken up by the lacteals ; and it consequently gradually Decomes of a thicker consistunce. From the small intestines it passes through the valve of the colon into the large. Here it prebably undergoes still further changes, and more of its fluid parts are absorded by the lacteals. It is at length received by the end of the intestinal tube, called the rectum, and being of no further use, is discharged from the body. There are two different proeesses, which in general seem essential to digestion, viz trituration and the action of a certain fluid or menstruum. All quadropeds are furnished with teeth, by which they in some measure' destroy the texture of their food before it passes into the stomach. The instrument of trituration in granivoreus fowls, and which ansirers the purposes of the teeth of quadrupeds, is the gizzard, through which all their food passes, before it enters the organ, which may properly be denominated their stornach. Among fowls, howefer, there are some which have a stomach purely membraneous, as the eagle, the bawk, and birls of prey in general. These have neither gizzard nop teeth, but they are furnished with a sharp and crooked beak, which, by tearing their food to pieces, serves, in some measure, to prepare it for the action of the other instrument of digestion, a Buid endued with peculiar qualities, and which, as far as our observations extend, scems to
be in common to all animals. "The principal instrament of digestion in most animals is, however, now gencrally supposed to be the gastric juice; a fluid which distils from certain glands, situated in the coats of tho stomach, and mixes with the food as soon as it is received into it. Uninterrupted respiration being necessary to our existence, it is wiscly ordained, that this function should be so far involuntary as not to require a continual and irksome attention. For other purposes, as that of speech, respiration is no less wisely subnitted in some measure to our direction, so that within certain limus we can accelerate or retard it at pleasure. We are sufficiently prevented, however, from suspending respiration to such an extent as to interfere with other processes absolately necessary to the support of life, by being subjected, whenever wo ccase to breathe, to a sensation inexpreasibly distressing, and which compels us to use every effort in our power to inhale hair to the lungs. The thorax, or that bony case which surrounds and protects the lungs, is furnished with a number of muscles, some of which, by drawing the ribs upwards, enlarge its capacity, and others, by drawing them downwards, diminish it Its capacity, however, is still more influenced by the muscular organ called the dinphragm, which from the breast bone and lower ribs passes obliquely dowawards to the loins, and separates the thoratic from the abdominal visecra. By the contraction of the diapbragm, the abdominal viscera are pressed downwards and forwards, by which tho lungs are permitted to expand themselves in the same direction ; when the diaphragm is relaxed, and the abdominal muscles are thrown into action, a directly opposite motion takes place ; the viscera of the abdomen are pressed upwards and backwards against the lungs, from which part of the air is consequently expelled. The air, which is to be considered as possessing many properties in common with other fluids, possesses this, that by its weight it enters where it is least resisted. Part of the resistance to the entrinnee of the air into the lungs being taken off by the action of the muscles dilating the thorax, it rushes in through the wind-pipe in the same manner as it rastes into the cavity of bellows, when the boards are separated from each other. Inspiration and expiration therefore are not performed by the lungs themselves, since air would be equally drawn into and expelled from the cavity of the thorax when deprived of lungs, supposing that the parts of the thorax could be made to perform thoir motions perfectly well after death. The lungs may, therefore, be compared to the cavity of the bellows filled with any downy substance, the bones of the thorax to the boards of the bellows, and the muscles of the thorax to the hands by which the bellows are moved. The chief uses of respiration, as far as our knowledge extends, are, first, To effect certaỉ changes in the mass of blood; and, second, to produce animal heat.

We proeeed now to treat of the senses, which are five : touch, taste, smelling; bearing, and vision. The organs of each of these senses are of a peculiar structure, and susceptible only of particular impressions. The sense of touch may be defined to be the faculty of distinguishing certain properties of the body by the feel. In a general acceptation the definition might, perhaps, not improperly, be extended to every part of the body possessed of sensibility, but it is commonly confined to the nervous papilla of the thie skin. The sense of tasto is seated chiefly in the papille of the tongue, thiese little
roaghnesses which are easily discovered by the touch, and are very apparcint on the tongues of sheep. The variety of tastes seems to be occasioned by the different impressions made on the papille by the food. The different state of the papille with respect to their moisture, their figure, or their covering, seems to produce a considerable difference in the taste not only in different people, but in the same object in sickness and in bealth. The organ of the sense of smelling is the pituary membrane, that lines the internal surface of the nose, and is overspread by the olfactory nerves. The air we draw in at the nostrils being impregoated with the eflluvia of bodies, oxcites in us that kind of sensation we call smelling. As these effluvia, ftom their being exceedingly light and volatile, cannot be capable, in small quantities, of making any great impression on the extremities of the olfactory nerves, it was necessary to give considerable extent to the pituary membrane, that by this means a greater number of odoriferous particles might be admitted at the same time. In many quadrupeds the sense of smelling is much more extensive and delicate than it is in the human subject, and in the humain subject it seems to be more perfect the less it is vitiated by a variety of smells. The organ of haaring is the ear, and its subject is sound. Sound is produced by the vibration of the parts of elastic bodies, which propagate their motions on all sides through the air by alternate condensations and rarefactions, and by successive going forward and returning of the particles. Those parts of the air which thus vibrate backwards and forwards are called pulses. The sense of hearing is occasioned by one of these pulses being collected by the funnel-like-shape of the external ear, and conveyed through a canal called the meatus auditorius, or the membranes of the drum. It is by experence only that we learn to distinguish by the ear whether a sonorous body be before or behind us, on our right hand or on our left. Dr. Sparman relates that when he first heard the roaring of a lion he did not know on what side to apprebend danger, as the sound seemed to proceed from the ground, and to enclose a circle of which he and his companions stood in the centre. The eye, which is the organ of vision, is nearly globular. It consists of several coats and humours. The two outer coats, one the scelerotica, and the cornea. - The scelerotica is very white and opaque, and is joined at its interior edge to the cornea. The cornea is more convex than any otber part of the globe, and derives its name from its transparency. Next within this coat is the choroides, which serve as a lining to the other, and join with the iris. The iris is composed of two setp of muscular fibres, the one of a circular form, which contracts the hole in the middle called the pupil, when the light would otherwise be too strong for the eye, and the other of radical fibres, tending every where from the circumference of the iris toward the middfe of the pupil ; which fibres, by their contraction, dilate add enlarge the pupil when the light is weak, in order to let in more of its rays. The last coat is only a fine expansion of the optical nerve, which spreads like net work all over the inside of the choroides, and is therefore called the retina; upon which are painted; as it were, the images of all visible objects by the rays of light which either flow or are reflected from them. Under the cornea is a fine transparent fluid like water, which is therefore called the aqueous humour. It gives a tranoparent figure to the comen, and has the: - Voí I.

## 240

## ON MAN.

same limpidity, specitic gravity, and refractive power as water. At the back of this lies the chrystalline humour, which is shaped like a double convex glass : and is a little more convex on the back thah on the fore-part. , It converges the rays, which pass through it from every visible object to its focus at the bottom of the eye. This humoup is transparent like crystal, is much of the consistence of hard jelly, sud exceeds the specitic gravity of water in the proportion of eleven to ten. At the back of the chrystalline lies the vitreous humour, which is transparent like glass, and is the largest of all in quantity, filling the whole orb of the eye, and giving it a globular shape. It is much of the concistency of the white of an egg, and very little exceeds the specific gravity and refractive power of water.

Our sight is the most perfeet and most delightful of all our senses. It fills the mind with the largest variety of ideas, converses with its object at the greatest distance, and continues the longest in action without being tired or satiated with. its proper enjogment. The sense of feeling can indeed give us the idea of extension, figure, and all the other properties of matter which are pereeived by the eyc, except colours; but at the same sime, it is very much straitened and confined in its operations, wit.) regard to the number, bulk, and distance of its objects.

Though sight is justly considered as the noblest and most comprehensive of all our senses, yet it does not communicate so many perceptions to the infant as to the full grown man. Colour is for some time the only object of sight, and it is only, when as sisted by experience, and the sense of touch, that it conveys to the mind any distinct idens of the figure, magnitude, motion, or distance of external objects. A ray of light proceeding, as all rays do, in a straight line, must, however great its length, affect the eye, retina, and optic nerve, as if it were a single point. From this obvious and undeniable fact, Bishop Berkley predicted that a man born blind, who should be suddenly made to see, would at first perceive nothing wishout him, would distinguish neither the distance, sixe, figure, nor situation of external oljects, that he would only experience new modifications of his mind until joining touch to sight, he formed a communication with the extermal world, and employing both senses at the same time, bad iearned the agreement between the visible and the tangible. This truth was fully proved by the case of a young man whom Cheselden cured of a cataract.

In order to actual sensation in any of the five ways we have been describing, an impression must be made on the external organ, thence communicated to the nerve, and by the nerve to the brain. The perceptions which are communicated by these senses, and subsist after the object which excited them is withdrawn, are called by Mr. Harris selicits of sensation. "When we view, says this author, some relicit of sensation reposed within us, without thinking of its rays, or referring it to any sensible object, this is fancy or imagination. When we view such relicit, and refer it withal to that sensible object which in time past was its cause and original, this is memory. Lastly, the road which leads to memory through a series of impressions, however connected, whether rationally or casually, this is recollection."

The ideas received into the mind by the senses and treasured up in the memory
and imagination, are the original materials of human knowledge. It must therefore be of importance to trace the progress of the mind in her various operations on these materials. The first of these operations appears to be that which logicians term simple apprehension. Having yesterday observed a tree or ahy other object, if we contemiplate the idea of that tree to day as it remains in the imagination, without comparing it with any other idea, or referring it to any external object, we perform the operation - which is called simple apprehension. Simple apprehension is somewhat different from conception, as the former denotes the contemplation of thoso ideas only which the mind by sensation has actually received from external objects, and the latter denotes the view not only of those ideas, but also of such as the mind fabricates to herself. Thus it seems better to say a man conceives a centaur, than to say thit he apprebends a centaur. The operation of mind by which it collẹcts general truths from particular ideas, is denominated abstraction.

Sensation, remembrance, simple apprehension, and conception, with every other active energy or passion of the mind, is accompanied with an inward feeling or perception of that energy or passion ; and that feeling or perception is called consciousness. Con.sciousaess is the perception of what passes in a man's own mind at the instant of its passing there : nor can we see, hear, taste, smell, remember, apprehend, conceive, cmploy our faculties in any manner, enjoy any pleasure, or suffer any pain, without being conscious of what we are doing, enjoying, or suffering. Consciousness is only of things present ; and to apply it to things past is to confound it with memory, or reflection. It is to be observed that we are conscious of many things to which we give very little attention; we can bardly attend to several things at the same time ; and our attention is cummonly employed about that which is the object of our thought, and rarely about the tliought itself. It is in our power, however, when we come to years of understanding, to give attention to our thoughts and passions, and the varioas operations of our minds. And when we make these the objects of our attention, either while they are present, or when they are recent and fresh in our memorics, we perform an act of the mind which is properly called reflection. It is by consciousness that we immediately acquire all the knowledge which we have of mental operations ; but attentive reflection is necessary to make that knowledge accurate and distinct. Nearly the whole science of metaphysics is derived from reflection. We shall conclude these observations on the human mind by pointing out the different sources from which it derives the knowleige of truth. Truth is thrys defined by Mr. Wollaston. "Those propositions are true which rep, cseat things as they are, or, truth ia tie conforming of those words or signs by which things are expressed to the things themselves. " Though all our faculties (our senses, our memory, and our intellect) furnish materials for propositions, and are therefore all subservient to the investigation of truth ; yet the perception of truth, as it is in itfelf, is commonly ascribed to our rational faculties; and these have, by Locke and others, been reduced to two, reason and judgment. The former is said to be conversant about certain truths, the other chiefly about probabilities. Some late philosophers of great merit, dissatisfied with this analysis of the intellect, have added to reason find judgment a third faculty, to which they have given the name of common sense, and of
which the proper object is such truths as neither admit nor stand in need of evidence. All these may, perhaps, after all, refer to but one intellectual power. Consciousness, intuition, experience, analogy, and testimony, are each of them different sources of evidence by which the reason, judgment,' or common sense is determined. Conscionsness we have treated of all ready. Intuitive evidence is that which arises from the comparison of two or more ideas or notions when their agrecment or disagreement is perceived immediately without the intervention of any third idea or notion. Of this kind is the evidence of these propositions ; one and four make five ; things equal to the same thing, equal to one another ; the whole is greater than any of its parts ; and in a word, all the axioms of arithmetic and geometry. Every demonstration is built upon intuition, and consists of a series of axions or propositions of the same kind with the first principle or truth from which the reasoning proceeds. The continued observation of the same event happening in the same or similar circumstances, is what we call experience ; and it is the only evidence which we bave for all the general truths in physic, even fot those which we are apt to think intuitively certain. A proof from real experience can leave no doubt in the mind; an argument from analogy always must. In the one case we infer that 'two events of precisely' the same nature, and in precisely the same circunstances, have been produced by the same kind of cause : in the other we infer that two events similar in both respects, though, for any thing we know, dissimilar in others, have been produced by the same kind of cause ; and it is obvious that between these cases the difference is great. The Newtonian doctrine of the planetary motions is founded on analogy. The last source of evidence is testimony, or the report of men concerning events which have fallen under the cognizance of their senses. In every case where the fact recorded is in itself possible, and attributed to an adequate cause ; where $u$ competent number of witnesses had sufficient means of information, and are certainly under no inducement to deceive, testimony is complete evidence, however extraordinary the fact may be; because no fact which is known to have an adequate cause, can be so incredible as that a number of men of sound understanding, should act contrary to the fundamental principles of human nature, or be able, if so disposed, to dissolve associations which had been formed in the mind of each from his infancy, and form new ones all'agreeing exactly with one another, but all contiary to truth. From testimony we derive all our knowledge of antient times, and indeed of every thing which has not come under the cognizance of our senses, and has not been deduced from the operations of our own minds.

However extensive the powers may be of which man is possessor, certain philosophers have endeavoured to level him to the rank of quadrupeds, while others have attempted to clevate certain of the brute creation to the same class with their reputed lords. The orang outang is ranged by Linnsus as congenerous with man ; and some theorists have even considered him as the original stock of the human race, pretending that he has been the man of the woods for many ages before gardens were ever thought of. His claims to humanity are found on his being able to walk upright eceasionally, being furnished with a competent share of museles requisite for that purpose. The form of his heart, lungs, breast, brains, and intestines, are similar to those of men:
he cen situpright with grest ease : shews more design in his plans than his associates in the forests ; ond can handle a stick on occasion with tolerable dexterity. His disqualificatigns ure the following; the position of the foramen maguum occipitis, which is further backward in the homan species, and the sockets of his lower jaw made to re: coive the cutting teeth of the upper, indicate his relation to the monkey breed. He has also thirteen ribs on each side ; his arms, feet, and tocs, are much longer than those of the human species, \&c. ; and although his foot does not so closely resemble a hand as that of the ape, yet the polex pedis, or the great toe, is placed at a graeter distance from the other toes, which gives it the appcarance and uses of a thumb, These differcnces indicate, that althongh the orang can occasionally act the two legged animal, yet he is much better qualified to walk on his fore feet, and to climb trees than the generality of the modern race of men. But an objection to his claims still weightier than any of the differences stated above, arises from his wanc of speech. For there is no nation of men however savage, that is destitute of speech; though individuals secluded from society may in time lose that faculty. No instances are known of ten or twelve men having been without a language ; but upwards of thirty of the orang species have been found in a herd without shewing the smallest traces of this faculty. It has been suggested by Rousseau that they may have lost the power from their neglect of using it, but it is very 'singular that they alone should lose this power, and not that race of men to whom they are supposed to be so nearly related. This point, however, has been completely decided by the discoverics of Professor Camper, who in a paper in the Philosophical Transac. tions, has demonstrated, by an anatomical dissection of the organ of the voice, that articulation is rendered impossible in these animals in consequence of the structure of that organ. From the nature and situation of those parts in the orang (as well as in the ape and monkey, be has proved that no modulation of the voice resembling buman speech can be produced in-those creatures; because the air passing through the rima glottidis is immediately lost in the ventricles or hollow bags in the neek, (which are sometimes united into one, ) with which all these animals are furnished, and which bave a communication with the mouth through the said rima or slit, so that the air must refurn from thence without any force or melody within the throat and mouth of those. creatures.

While some authors have thus laboured to confound man with the monkey, others bave asserted that the whole human race bave not sprung from one original ; but that as many species of men wero at first created as there are now different colours to be found among them. The first point to be ascertained is what is the seat of colour, and this has been determined to be the mucous substance, which being of a different colour, \&c. in different inhabitants of the globe, and appearing through the cuticle, or upper surface of the skin, gives them that yarious appearance which strikes us so forcibly in contemplating the human race. As thiscan be incontrovertibly proved, it is evident, that: whatever causes co-operate in producing this different appearance, they produce it by acting upon the mucous substance; which from the almost ineredible manner in which the cuticle is perforated, is, as accessible as the cuticle itself. These causes are pro-

## Vol I .

bably those various qualities of things, which, combined with the influence of the sum, contribute to form what we call climate. For when any person considers that the aucous substance before-mentioned is found to vary in its colour as the climates vary from the equator to the poles, his mind must be instantly struck with the hypothesis, and he must adopt it without any hesitation, afthe genuine cause of the phenomena. This fact of variation of the mucous substance, according to the situation of the place, has been clearly ascertained in the numerous anatomical experiments that have been made, in which subjects of all nations luave come under consideration. The natives of many of the kingdoms of Asia are found to have their mucous substance black ; those of Africa, situated near the line, of the same colour : those of the maritime poris of the same continent of dusky brown, nearly approaching to it ; , and the colour becomes lighter or darker in proportion as the distance from the equator is either greater or less. The Europeans are the fairest inhabitants of the world. Those situated in the most southern regions of Europe, have in their mucous substance a tinge of the dark hue of their African neighbours : hence the complexion provalent among them is nearly of the colour of the pickled Spanish olive ; while in this country, and those situated near the north pole it appears to be nearly, if not absolately white. These are facts which anatomy bas established ; and we acknowledge them to be such that we cannot divest ourselves of the idea, that climate has a considerable share in producing a difference of colour. The only objection of any consequence that has ever been made to the hypothesis of climate is this, that people under the same parallels are not exactly of the same colour. But this is no objection in fact ; for it does not follow that those countries which are at an equal distance from the equator should have their climates the same. Indeed nothing is more contrary to experience than this ; climate depends upon a variety of accidents. High mountains in the neighbourhood of a place make it cooler, by chilling the air that is carried over them by the winds. Large spreading succulent plants, if among the productions of the soil, have the slame affect ; they afford agreeable cooling shades, and a moist atmosphere from their continual exhalations, by which the ardour of the sun is con siderably abated. While the soil, on the other hand, that is of a sandy nature, retains the heat in an uncommon degree, and makes the summers considerably hotter than those which are found to exist in the same latitude where the soil is different. To this proximity of what may be termed burning sands, and to the sulphurous and metallic particles which are continually exhaling from the bowels of the earth, is ascribed the different degrecs of blackness by which some African nations are distinguishable from each other though under the same parallels. To these observations we may add, that though the inhabitants of the same parallel are not exactly of the same hue, yet they differ only by shades of the same colour ; or, to speak with more precision, that-there are no two people in such a situation one of whom is white and the other black. To sum up the whole, suppose we were to take a common globe ; to begin at the equator; to paint every country along the meridian line, in succession from thence to the poles, and to paint them with the same colour which prevails in the respective inhabitants of each, we should see the black with which we bad been obliged to begin, insensibly changing
into an olive, and the olive through ns many intermodiate colours to a white: and if, on the other hand, we should complete any one of the parallels according to the same plan, we should see a difference, perhaps, in the appearane of some of the countries through which it ran, though the difference would consist wholly in shades of the same colour. The argoment, therefore, which is brought against the hypothesis is so far from being an objection, that it may be considered as one of the first arguments in its favour; for if climete has really an influence on the mucous substance of the body, it is evident that we must not only expect to see a gradation of colour in the inhaţitants froin the equator to the poles, but also different shades of the samo colour in the inhabitants of the same parallel. To this argument may be added one that is incontrovertible, which is, that when the black inhajitants of, Africa are transported into colder, or the white inhabitants of Europe to hotter climates, their children born there are of a different colour from themselves; that is, lightẹr in the first, and darker in the second instance.

As we are men, and every thing is interesting which relates to man, the reader will probably feel himself gratified by a comprehensive view of the otigin of the buman species, and of the various gradations through which thoy have passed in their progress towards the refinements of highly civilized society. Such a vicw is offered us by Mr . Heron, a writer in the Encyclopedia Britannica, who aroiding the absurdities of visionary theorists, has reasoned on principles of unquestionable certainty, and delivered himself in language so perspicuous and elegant, that we need no apology for presenting it entire only abridging it a little to reduce it to our necessary limits.
"Some modern philosophers have fancied that the original progenitors of mankind were left entirely to themselves from the moment of their creation; that they wandered aboat for ages without the use of speech, and in the lowest state of savagism, but that they gradually civilized theuselves, and at last stumbled upon the contrivance of making articulate sounds significant of ideas, which was followed by the invention of arts and sciences, with all the blessings of religion and legislation in their train. But this is a wild reverie, inconsistent with the phenomena of the human nature It is a well known fict, that a man blind from his birth, and suddenly made to see, would not, by means of his newly acquired sense, discern either tho magnitude or figure of distant objects, but would conecive every thing which comnunicated to him visible sensations, as inscparably united to his eye or mind. How long his sense of sight would remain in such an imperfect state we cannot positively say ; but from attending to the visible sensations of infants, we are confident that weeks, if not months, elapse before they can distinguish one thing from another. We bave, indeed, been told, that Cheselden's famous patient, though be was at first in the state which we have described, learned to distinguish objects by sight in the course of a few hours, or, at the most, of a few days ; but admitting Lhis to a certain extent to be true, it may easily be accounted for. The discase called a cataract seldom occasions total blindness ; but let us suppose the cyes to have beca so completely dimpned as to communicate no sensation whatever upon being exposed to the rays of light ; still we.must remember that he had long possessed the power of loco-
motion, and all his otber senses in perfection. . He was therefure well acquainted with many objects ; and having been often told that the things which he touched would, upon his acquisition of sight, communicate new sensations to his mind, differing from cach other according to the distance, figure, and magnitude of the objects by which they were occasioned, he would soon learn to infer the one from the other, and to distinguish near objects by means of lis sight. The progenitors of the human race, however, if left to themselves from the moment of their creation, had not the same didvantages. When they first opence their eyes they had neither moved, nor handled, nor heard, nor smellod, nor tasted, nor bad a single idea or notion treasured up in their memories ; but were, in all these respects, in the state of netw born infants. Now we should be glad to be informed by these sqges who have conducted markind through many generations, in which they were mutum et turpe pecus, to that happy period when they invented language, how the first men were taught how to distinguish objects by their sense of aight, and how they contrived to live till this necessaty faculty was acquired? It does not appear that men are like brutes, provided with a number of instincts which guide them blind-fold, and without experience, to whatever is necessary for their own preservation. On the contrary, all voyagers tell us, that in strange and uninhabited countries, they dare not venture to taste unknown fruits unless that those fruits are eaten by the fowls of the air. But without the aid of instinct, or some other guide equally to be depended upon, it is not in our power to concejve how men dropt from the habds of their Creator, and left from that instant wholly to themselves, could move a single step without the most imminent danger, or even stretch out their bands to lay hold of that food which we may suppose to have been placed within their reach. They could not for mary days distinguish a precipice from a plain, a rock from a pit, or a river from the meadons in which it rolled. And in such circumstances how could they possibly exist, till their sense of sight had acquired such perfection as to be sufficient to all their necessary motions ? Can any consistent theorist suppose that the God, whose gondness is su conspicuously displayed in all his works, could leave his noblest creature on earth, a creature for whose comfort alone many other creatures seem to have been formed, in a situation 50 forlorn as this, where his immediate destruction appears to he inevitable? No! This supposition cannot be formed, because mankind still exist. Will it then be said that when God formed the first men, he not only gave thein organs of sensation, and souls capabie of arriving, by discipline, at the exercise of reason, but that be also impressed upon their minds adequate ideas and notions of every object in which they were interested, brought all their organs, exterval and internal, at once to their utmost possible state of perfectinn, taught them instantancously the laws of reasoning, and, in one word, stored their, minds with every branch of useful knowledge? This is indeed our own epinion, and it is perfectly agreeable to what we are taught by the Hebrew law-giver. When God had formed Adam and Eve, Moses does not say that he left them to aequire, by slow degrees, the use of their senses, and reasoning powers, and to distinguish as they could fruits that were zalutary from those that were poisonous ! No; he placed them in a garden, where every tree bat one bore fruit fit for food; he warnect them, particularly

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apainst the fruit of that tree ; he brought before thet the various animals which roamed throngh the garden ; he ranged those animals into their proper genera and species ; and by teaching Adam to give them names, he communicated to the first pair the elements of language. This condescension appears in every respect worthy of perfect benevoleace ; and indeed without it the helpless man and woman could not have lived one whole week. It cannot be supposed that amidst so much useful instruction the gracious Creator would neglect to communicate to his rational creatures the knowledge of himself; to inform them of their own origin, and the relation in which they stood to him ; and to state in the plainest terns the duties incumbent on them in retorn for so muca goodness. Thus it appears that mankind, in the very infancy of their existence, were not destitute of the advantages of reason, of "language, and of religion."
"Physical causes exert, though indirectly, a mighty influence in forming the character, and directing the exertions of the buman race. From the information of Moses we gather, that the first societies oi men lived under the patriarchal form of government, and employed themselves in the cultivation of the ground, and the management of flocks. As we know that mankind, being subjected to the influence of physical and moral causes, are no less liable of degeneracy than capable of improvement, we may easily conceive, that though descending all from the same original pair, and though enlightened with much traditionary knowledge relative to the arts of life, the order of society, moral distinctions and religions obligations ; yet as they were gradually, and by various accidents, dispersed over the earth, being removed to situations in which the arts with which they were acquainted could but little avail them, where industry was overpowered, or indolence indulged by the severity or profusions of nature, they might degenerate and fall into a condition almost as humble and precarious as that of the brutal tribes."
" If then we are desirous of surveying society in its rudest form, we must look not to the earliest period of its existence, but those districts of the globe where external circumstances concur to drive them into a state of stupidity and wretchedness. Thus in many places of the happy clime of Asia, which a variety of antient records concur with the sacred writings in representing as the first peopled quarter of the globe, we cannot trace the form of society backwards beyond the shepherd state. In that state, indecd, the bonds which connect society extend not to a wide range of individuals, and men remain for along period in distinct families ; but yot that state is highly favourable to knowledge, to happiness, and to virtue. Again, the torrid and the frozen regions of the earth, through probably peopled at a later period, and by tribes sprung from the same stock with the shepherds of Asia, have yet exhibited mankind in a much lower state. It is in the parched desarts of Africa, and the wilds of America, that human beings have been found in a condition approaching the nearest to that of brutes,"

We may, therefore, with some propriety, desert the order of time, and take a view of the different states through which philosophers have considered mankind as advancing, beginning with that of rudeness, though we have shewn that it cannot have been the first in the progress.
"Where the human specics are found in the lowest and rudest state, their rational and , Vol I
moral powers are very faintly displayed ; but their external senses are acute, and their bodily organs active and vigorous. Hunting and fishing are then their chief employments, on which they depend for support. During that portion of their time which is not spent in those pursuits, they are sunk in listless indolence. Destitute of foresight, they are roused to active exertion only by the pressure of immediate necessity, or the urgent calls of appetite. Accustomed to endure the severity of the elements, and but scantily provided with the means of subsistence, they acquire habits of resignation and fortitude, which are beheld with astonishment hy those who enjoy the plenty and indulgence of cultivated life. But in this state of want and depression, when the powers and possessions of every individual are scarce sufficient far his own support, when even the calls of appetite are repressed because they cannot always be gratified, and the more refined passions, which either originate from such as are merely animal, or are intimately connected with them, have not yet been felt, in this state all the milder affections are unknown ; or if the breast is at all sensible to their impulse, it is extremely feeble. Husband and wife, parent and child, brother and brother, are united by the weakest ties. Want and misfortune are not pitied. Why, indeed, should they, where they cannot be relieved? It is impossible to determine how far beings in this condition can be capable of moral distinctions. One thing certain is, that in no sate cre the human race entircly incapable of these. If we listen, however, to the relations of respectable travellers, we must admit that human beings have sometimes been found in that abject state where no proper ideas of subordination, goverument, or distinction of ranks could be formed. No distinct notions of deity ann be here entertained. Beings in so humble a condition cannot look through the order of the universe, and the harmony of nature, to that Eternal Wisdoth and goodaess which cotrived, and that Almighty Power which brought into existence, the system of things. Of arts they must be almost totally destitute. They may use some instruments for fishing or the chase; but these must be extremely rade and simple. If they be acquainted with any means to sholter them from the inclemency of the elements, both their houses and cloathing will be aukward and inconvenient. But human beings have not been often found in so rude a state as this. Even those tribes which wo denominate savage, are for the most part farther removed from mere animal life. They generally appear united under some species of government, excrcising the powers of reason, capable of morality, though that morality be not always very refined ; displaying some degree of social sirtues, and acting under the influence of religious sentiments. Those who may be considered as but one degree lijgher in the scale thian the stopid and wretched beings whose conditions we have sarveyed, are to be found still in the hunting and fishing state : but they are farther advanced towards social life, and aro become more sensible to the impulse of social affection. By unavoidable intercourse in their employments, a fow individual hunters, or fishers, contract a certain degree of fondness for each others company, and are led to take some part in each others joys and sorrows; and when the social affoctions, thus generated, begin to excrt themselves, all the other powers of the mind are at the same time called forth, and the circumstances of the little society are immediately inproved. We behold its menp
bers in a more comiortable condition, and find reason to view the human character with more complacency and respect. Huts are now built, more commodious cloaths are fashioned, instruments for the annoyance of wild beasts, and even of enemies, are contrived; in short, arts and science, and social order, and religious sentiments and cercmonies, now make their appearance in the rising society, and serve to characterize it by the particular form which distinguishes each of them. But though social order is no longer unknown nor unobserved, yet the form of government is still extremely simple, and its ties are but loose and feeble. It will, perhaps, bear some resemblance to the patriarchal ; only all its members are on a more equal footing, and at the same time less closely connected than in the shepperd state, to which that form of government seems almost peculiar. The old men are treated with veneration ; but the young are not entirely subject to them. They may listen respectfully to their advice ; but they do not submit to their arbitrary commands. Where mankind are in the state of huuters and fishers, where the means of subsistence are precariously acquired, and prudent foresight does not prompt to accumulate much provision for the future, no individual can acquire comparitive wealth. As soon as the son is grown up be ceases to be dependent on bis father, as well as on the society in general. Difference of experience, thercfore, constitutes the ouly distinction between the young and the old ; and if the old have experience, the young have strength and activity. Here then, neither age nor property can give rise to any striking distinction of ranks. All who have attained to manhood, and are not disabled by unusual deficiency of strength or agility, or by the infirmities of old age, are on an equal footing ; or if any one possess a pre-eminence over the rest, he owes it to superior address or fortitude. The whole tribe deliberate ; the old give their advice ; each individual of the assembly receives or reject it at his pleasure, (for the whole body think not of exercising any compulsatory power over the will of iadividuals ; ) and the warrior who is most distinguished for strength, address, and valour, leads out the youth of the tribe to the chase, or against the enemy. War, which in the former stage did not presail, as they, who were strangers to social sentiments, were, at the same time, scarce capable of being enemies, now first begin to depopulate the thinly inhabited regions where these hunters and fishers pursue their prey. They, are scattered, possiblyin scanty and separate tribes, over an immense tract of country ; but they know no me, dium between the affection which bretbren of the same tribe bear to each other, and the hatred of enemies. Though thinly scattered over the earth, yet the hunting parties of different tribes will sometimes meet as they range the forests : and when they meet, they will naturally view each other with a jealous eye; for the success of the one party in the chase may cause the other to be unsuccessful; and while the one snatches the prey, the other must return home to all the pangs of famine. Inveterate hostility will, therefore, long prevail among neighbouring tribes in the hunting state."
"If we find them not incapable of social order, we may naturally expect that their conduct will be influenced by some seatiments of religion. They have at this period ideas of superior beings. Thoy also practise certain ceremonies to recommend them to those beings: but both their sentiments and ceremonies are superstitious and absurd."

Esut we may now carry our views a little forward, and survey human life as approaching somewhat nearer to a civilized and enlightened state. As property is acquired, irrequality and subordination of ranks necessaaily follow; and when men are no longer equal, the many are soon subjected to the will of the few. But what gives rise to these new phenbmena is, that after having often suffered from the precariousness of the hunting and fishing state, men begin to extend their cares beyond the present moment, and to think of providing some supply for future wants. When they are enabled to provide such a supply, either by pursuing the chase with new eagerness and perseverence, by gathering the spontaneous fruits of the earth, or by breeding tame animals ; these acquisitions are at first the property of the,whole society, and distributed from a common store to each individual according to his wants. But as various reasons will soon concur to convince the community that by this mode of distribution industry and activity are treated with injustice, while negligence and indolence receive more than their due, each individual will in a short time become his own steward, and a community of goods will be abolished. As soon as distihet ideas of property are formed, it must be unequally distributed, and as soon as property is unequally distributed there arises an inequality of ranks. Here we have the origin of the depression of the female sex in rude ages, of the tyrannical authority of parents over their children, and perhaps of slavery. The women can not display the same perseverence, or activity, or address as the men in pursuing the chace. They ase, therefore, left at home, anc from that moment are no longer equals, but slaves and dependants, who must subsist by the bounty of the males, and must therefore submit with implicit obedience to all their capricious commands. Even before the era of property the female sex were viowed as inferiors ; but till that period they were not'reduced to a state of abject slavery. In this period of society new notions are formed of the relative duties. Men now become citizens, masters, and servants; husbands, parents, \&cc. It is impossible to enumerate all the various modes of government which takes place among the tribes who have advanced to this stage ; but one thing is certain, that authority of the few over the many is now first estab lished, and the rise of property first introduces inequality of ranks. In one place we shall perhaps find the community subjected, during this period, to the will of single persons ; in another, power may be lodged in the hands of a number of chiefs ; and in a third, every individual may have a voice in creating public officers, and in enacting laws for the support of public order. But as no code of laws is formed during this period, justice is not very impartially administered, nor are the rights of individuals very faithfully guarded. Many actions which will afterwards be considered as beinously immoral, are now considered as prase-worthy or indifferent. This is the age of hero-worship, and of houschold and tutelary gods; for it is in this stage of society that the invention of arts, which gave rise to that worship, contributes most conspicuously to the public good. War too, which we considered first as beginning to savage the earth during the former period, and which is another cause of the deification of dead men wil! still prevail in this age, and be carried on with no less ferocity than before, though in a more bystematic manner."
" Languages are not yot copious, and therefore speeeb is figurative, expressible, and forcible. The tones and gestures of aature not being yet laid aside, as they generally are from regard to discourse in more polished ages, give a degree of force and expression to the harangues of the rustic or savagu orator, which the most laborious study of the rules of rhetoric and elocution could not enable a more polished orator to display. But let ur advance a little farther, and contemplate our species in a new light, where they will appear with greater dignity and amiableness of character. Let us view them as hustmndmen, citizeno, and legislators. The labours of the husbandman succeed in regular rotation through the year. Each season with him has its proper employmens: he tlerefore must exert active persevering industry; and in this state we often find the virtues of rdue and polished ages united. This is the period where barbarism ends and civilization begins."
"The lusbbandman bas not time to fashion his instruments, to prepare lis ciothes, te build his house, to manifucture household utensils, or to tend those tame animals which he continues to rear. Those different departments, therefore, now begin to employ different persons ; each of whonr dedicates his whole time and attention to his own partieular occupation. Before every individual practised all the arts that were known as far as was necessary for supplying himself with the conveniences. Now he confines himself to one or to a few of them ; and in order to obtain a necessary supply of the produetions of those arts which he does not cultivate himself, he gives in exchange a part of the productions of his own labours. Here we hare the origin of commerce. After continuing perhaps for some time in this state, as arts and distinctions multiply in soeiety, the exchans" of one commodity for another is found troublesome and inconvenient. It is ingenuously contrived to adopt a medium of commerce, which being estimated not by its intrinsie value, but by a certain nominal value, which it receives from the society among whom it is used, serves to render the exchange of property, which is so necessary for the purposes of human life, easy and expeditious. Wherever motals have been known they appear to have been adopted as the medium of comverce almost as soon as such a medium begon to be used: and this is one important parpose for which they serve ; but they have still more important uses. Almost all the necessary arts depend upon them. Where the metals are known, agriculture is practised, and the necessary arts are distributed among different orders of artizans, civilization and refinement, if not obstructed by some accidental ciscamstance, advance with a rapid progress."
" Agriculture, considered in itself, is not directly favourable to refinement of manners or to the fine arts. The conversation of shepherds is generally supposed to be far more elegant than that of husbmndmen; but though the direct and immediate effects of this condition of life be not farourable to the fine arts, yet indirectly it has a strong tendency to promote their improvemont. Its immediate influence is extremely favourable to the necessary and useful arts; aud these are no less favourable to the fine arts. One of the noblest changes which the introduction of the arts by agriculture produces on tho from and circumstances of society, is the introduction of regular government and laws. In tracing the history of antient nations, we scarce ever find laws introduced at an early $\mathrm{V}_{\text {of }} \mathrm{I}$
period. Mivios, Solon, and Lycurgus, do not appear to have formed codes of wisdom and justice for regulating the manners of their countrymen, till after the Cretans, the Athenians, and even the Lacedemonians, had made some progress in agriculture and the useful arts. Religion under all its various forms, has in every stage of society a mighty influence on the sentiments and conduct of men; and the arts cultivated in society have some influence on the system of religious belief. One happy effect which will result from the invention of arts, though perhaps not immediately, will be to render the deities more benevolent and amiable, and in the rites of their worship more mild and humane. The f-male sex in this period generally find the yoke of their slavery somewhat lightened. Men now become easier in their circumstances ; the social affections assume stronger influence over the mind ; plenty, and security, and ease, at once communicate both delicacy and keenness to the sensual desire. All these circumstances concur to make men relax, in some degree, that tyrannic sway by which they before depressed the softest sex. The foundation of that empire where beauty triumphs over both wisdom and strength now begins to be laid. Such are the effects which history warrants us to attribute to agriculture and the arts ; and such the oatlines of the character of that which we reckon the fourth stage in the progress of society from rudeness to refincuent."
"Let us advance one step farther. We have not yet surveyed mankind in this most polished and cultivated state. Society is rude at the period when the arts first begin to shew themselves in comparison of that state to which it is raised by the industrious cultivation of them. The neighbouring commonwealths of Athens and Lacedemonia afford us a happy opportunity of comparing this with the former stage in the progress of zociety. The chief effect produced by the institutions of Lycurgus scems to have been to fix the manners of his countrymen for a considerable period in that state to which they had attained in his days. Spartan virtue has been admired and extolled in the language of enthusiasm : but in the same manner has the character and condition of the savage iniabitant of the wilds of America been preferred by some philosophers to tne virtues and the enjoyments of social life in the most polished and enlightened state. The Spartans in the days of Lycurgus had begun to cuilivate the ground, and were not unaequainted with the useful arts. They must soon have advanced further had not Lycurgus arisen and by effecting the establishment of a code of laws, the tendency of which appears to have been, in many particulars, directly opposite to the designs of nature, retarded their progress towards complete civilization and refinement. The history of the Lacedemonians, therefore, while the laws of Lycurgus continued in force, exlibits the manners and character of a people in that which we have denoavinated the fourth stage in the progress of society. But if we turn our eyes to their neighbours the Athenians, we behold in their history the natural progress of opinions, arts, and manners. Commerce with foreigo nations, skill in the useful arts, and a taste for science, mutually aid each other, and conspire to promote the improvement of the fine arts. Hence magnificent buildings, noble statues, paintings expressive of life, action, and passion; and poems, in which imagination adds new grace and sublimity to nature, and gives the apgearance of social life more irresistible power over the affections of the heart. Heace
are moral distinctions more carefully studied, and the rights of every individual, andevery order in society better understood, and more accurately defined. Moral science is generally the first scientific pursuit which strongly attracts the attention of men, Law-givers appear before geometricians and astronomers. Some particular circumstance may cause these sciences to be cultivated at a very early period. In Egypt the overflowing of the Nile caused geometry to be early cultivated. Causes no less favourable to the study of astronomy concurred to recommend that seience to the attention of the Chaldeans long before they attained to the height of refinement. Dut in general we find that the laws of morality are understood, and the principles of morals are enquired into before men make any tonsiderable progress in physical science, or ever prosecute it with any degree of keenness. "Accordingly when we view the state of literature in this period, for it is now becomean object of so much importance as to force itself on our attention, we perceive that poetry, history, and morals, are the branches chiefly cultivated. Arts are generally casual inventions, and long practised before rules nnd priaciples, on which they are founded, assume the form of science. But morality, is considered as an art, is that 'art which men have soonest and most constantly occasioa to practise. Besides, we are so constituted by the wisdom of nature, that human actions, and the events which befal human beings, have more powerful influence than any other object to engage and fix our attention. Hence we are enabled to explain why morality, and those branches of literature more immediately connected with it, are almost always cultivated in preference to physical science. Though poetry, bistory, and morals be pursued with no small eagerness and success in that period of society which we now consider, we need not therefore be greatly surprized that natural philosophy is neither very generally, nor very successfully, cultivated. Were we to consider each particular in that happy change which is now produced in the circumstances of mankind, we should be led into a too minute, and, perhaps, unimportant detail. This is the period when human virtue and human abilities shine with most splendour. The charms of social intercourse are known and relished, but domestic duties are not yet deserted for public amusements. The female sex acquire new influence, and contribute much to refine and polish the manners of their lords. Religion now assumes a milder and more pleasing form. The system of theology produced in former ages still remains ; but only the mild and amiable qualities of the deities are celehrated, and none but the gay, humane, and laughing divinities are worshipped. Philosophy also teaches men to discard such parts of their religion as are unfriendly to good morals, and have any tendency to call forth or cherith unsocial sentiments in the heart. War, for in this period of socioty enough of causes will arise to arm one nation against another, war, however, no longer retains its former ferocity ; nations no longer strive to extirpate one another, to procure redress for real or imaginary injories, to humble, not to destroy is now its object. The interests of society are so well understood, that the few, in order to preserve their influence over the many, find it necessary to act father as the faithful servants than imperious lords of the public. Though the liberties of a nation in this state be not accurately defined by law, nor their property guaranteed to thom by any legal institution

## 254

 ON MANyet their governors dare not violatd their liberties, nor deprive them wantonly' of theis propertics. This is truly the golden age of society : every trace of barbarism is entirely effaced; and vicious luxury has not yet begun to sap the virtue and the happiness of the community. Men live not in listless indolence, but the industry in which we are engaged is not of such a nature as to overpower their strength or exhaust their spirits. The social affections have now the strongest influence on men's sentiments and conduct. But human affairs are scarce ever stationary. The circumstances of mankind are almost always changing, either growing better or worse. Their manners are ever in the same fluctuating state. They either advance towards perfection or degenerate. Scarce have they attained that happ' period in which we have just contemplated them, when they begin to decline, till they, perliaps, fall back into a state nearly as low as that from which we supposed them to have emerged. Instances of this unhappy degeneracy oceur more than once in the history of mankind, and we may finish this short sketch of the bistory of society by mentioning in what manner this degeneracy takes place. Perhaps, strictly speaking, every thing but the simple necessaries of lifo may be decominatod luxury; for a long time, however, the welfare of society is best promoted while its members aspire after something more than the mere necessaries of life. As long as these superfluities are to be obtained only by active and honest exertion ; as long as they only engage the leisure hours, without becoming the chief objects of pursuit, the employment which they give to the faculties is favourable both to the virtue and happibess of the humnn race. The period arrives, however, when uxury is no longer serviceable to the interests of nations, when she is no longer a graceful, elcgant, active form, but a languid, overgrown, bloated carcase. It is the love of luxury which contributed so much to the civilization of society that now brings on its decline: arts are cultivated and improved and commerce extended til enormous opulence bo acquired; the effect of opulence is to awake the, fancy to conccive ideas of new and capricious wants, and to influence the breftot with new desire. Here wo have the origin of that selfishness which, operating in conjunction with caprice, and the violence of unbridled passions, contribute so much to the corruption of virtuous manners. Selfish ness, caprice, indolence, effeminacy all join to loosen the bands of society' to bring or the degeneracy both of the useful and fine arts, to banish at once the mild and the austere virtues, to destroy civil order and subordination, and to introduce in their room anarchy and despotism,"


# VIEW OF THE WORLD. <br>  <br> <br> BOOK I. 

 <br> <br> BOOK I.}

## Europe.

## CHAPTER I.

Europz-Its Goumdaries, nountains, rivers, productions, inhabitants, progress of socicty.

EUROPE is bounded by Asia on the east; by the Mediterranean on the south ; by the Atlantic on the west; and by the Frozen ocean on the north. Trace the river Kara from its mouth to the Ouralian bills, take these mountains for your guide till they conduct you to the Wolga, follow the course of the Wolga till it appronches the Don, then pass to that river, and descend with its stream to the sea of Azoph, and you will have described, with tolerable extectiens, thie eastern boundaries of Europe. These boundaries do not findeed appear to have been fiked with precision, nor is that a matter of very great importance, sinee all the countries, for mandy leagaes ori each sifle of them, have been long subject to the samie mighty empire. The sea of Aroph is a large lake communicating with the Black sea. The Black sen is also a lake, but of still wider estent, and is united to the Archipelago by means of the straits of Constantinople, the see of Marmona, and the Dardanelles. The Archipelago is, as its nime imports, a sea intercepted with klands; of wtich the inbst reminkathle is Candii" or Crete. We now enter the Mediterranean, which, from Constantipople to the confines of Egypt, is the boundary between Europe and Asin ; and; from the confines of Eeypt to Gibraltar, separates Europe from Africa, The Mediterrancan has tiree great iffets foto the continent of Europe, and thus, with the assistance of the Black sea and the Atlintic, forms three celebrated peninsulas, Turkey, Italy, and Spsin. The fint of tifese iniets is the Arechipelago already described; the second is the galf of Venies, which visits Turkey, Germany, and Italy; the third exteads along tho shores of Italy, France, and Spain, contains this islands of Sicily, Sardinin, Corsica, Minorea, Majorca, and Iviea, anid receives, in-different parts of it, the denominations of the Tyrheno sea, the gulf of Lyons, and the Mediterranean. It is supposed by some eminent geologists, that the Black sea was formerly separated from the Meliterranean, nnd the commumication which exists between them was the rebult of some catastrophe subsequent to the deluge.

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## EUROPE.

". The Mediterranean, (says Mr. Kirwan) before its union with the Black sen and the ocean, was most probably a bason, much narrower and slallower than at present; for though it received several considerable rivers, the Nile, the Rhone and the Po, yet since, even now, the evaporation from its surfuce is sufficient to prevent it from overflowing, notwithstanding that the Ocean on the one side, and the Euxine on the other, flow into it, we may well suppose that, when it communicated with neither, evaporation kept its level much lower: when, therefore, by the rupture of the Thracian isthmus onthe one side, and of the African, which joined Ceuta with Gibraltar, on the other, the water of both were poured in upon it, an immense pressure took place on its bed, under which it sunk, and fell into the inferior cavity of the globe ; during this tremendous tumult the islands of Sicily, Sardinia, Corsica, And those of the Archipelago, were tom off, and Italy was lengthened to its present shape. The neighbouring shores of France and Spain, and more especially those of Africa, as being much lotver, and those of Greece and Asia, must have been inundated to a great extent; and bence the saline substance, still existing in the adjacent perts of Africa, \&c."
"Passing through the strait of Gibraltar, we enter the Atlantic ocean, which, as in extends along the coast of Europe, is called by a considerable variety of names, Ietween cape Finisterre and Brest it forms the bay of Biscay, and completes the peninsula of Spain. Proceeding northward, it is interrupted by the British isles, and häs two inferior brunches; one of which is denominated St. George's channel; or the Jrish sea, and divides Great Britain from Ireland ; the other taking in suocession the names of Joglish channel, straits of Dover, German ocean, and North sca, separates our istand from France, Holland, Germany, Deumark, and Norway. The separation of the British isles from the continent, and from each other, is, by some, attributed to earthquakes, which they suppose to have taken place more than 3600 years since, and to hara been remote consequences of the deluge. Between Demuarl and Norway is a narrow winding sea, called the Scaggerac, which, by means of the Sound, and the great and little belts, commuicates with the Baltic, and completes the peninsula of Jutland, The Baitic is a mediterranean sea, which, with its three gulfs of Rigo, of Finland, and of Bothhia, affords the advantage of navigation to the inhabitants of Denmark, Germany, Prussia, Poland Russia, and Sweden. The principal islands in the Baltic are Zealand, Funen, Oeland, and Rugen."
a That the Baltic, in all its branches, was antiently much more extended than at present, many reasons (says. Mr. Kirwan) induce us to believe; but principally the state in which we at present find the immense plains of Southera Russia, from Petersbarg to Poltowa. These plains, for some hundred miles to the south of Petersburgh, are still a morass, and farther southward they are covered with sand, pebbles, and peufified thells. 1 This water is not, indeed salt; but neither was the Baltic so originally, and is but slightly so at present, for it seems to have been formed by the confluence of the various rivers that flow into it, which at last burst a passage into the German sca ; by communication with this it became salt. At present there are three passages by which they communicate, at first probably but one; to the opening of the two last, the reduction of this sea to its present limits is oiving. From the Scaggerac to North Point the siacre feves to
the west; from North point to the north cape of Lapland it verges to the northeast; from the north cape to the entrance of the White sea it bends towards the south-east; and finally, from the White sea to the mouth of the Rhine; there it extends in a northerly direction. To complete this general view of the boundaries of Europe, it only remains to notice Iceland and East Greenland. The former is an island in the north Atlantic, abont 600 miles west of Norway; the latter consists of two islands in the Frozen ocean, about 400 miles north of Lapland."
The European Alps produce three principal chains, which run towards the equator; and some sualler pnes, ruming towards the pole. The first southern chain is sent out through Dauphine, Virarois, Lyonnois, Auvergne, Cevennes, and Languedoc; and, after joining the Pyrences, enters Spain'; there it divides into two or three ramifications, one of which runs through Navarre, Biscay, Arragon, Castile, Marche, and Sierra Morena, and exiends into Portugal; the other, after traversing Andalusia, and the kingdom of Granada, and there forming a number of sierras, again makes its appearance beyond the straits of Gibraltar in Africa and coasts along its northern shores, under the name of mount Atlas. The second principal chain of the Alps passes out througit Savoy and Piedmont ; spreads its roughness over the states of Genoa and, Parma, forms the belts of the Apennines, and after frequently changing its nime, and dividing Italy into tro parts, terminates in the kingloms of Naples and Sicily, producing voleanoes in every part of its course The third chain is sent off from Hungary, and scatters innumerable mountains over all Turkey in Europe, as far as the Morea and the Archipelago, at the bottom of the Mediterranean sea.

The northeru branclies, though smaller at first, are no less clearly defined; and some of them even extend their ramifications as far as the Frozen ocean. An Alpine branch issuing from Savoy, through the country- of Gex, proceeds throught Franche Compté, Suntgua, Alsace, the Palatinate, and Veterabia. Another issues from the territory of Saltzbourg, along Bohemia, enters Poland, sends off a ramification into Prussia, towards the deserts of Waldow, and, after having passed through Russia, is lost in the government of Archangel.

The course of rivers gives us the best general method for judging of the elevation of a country. Thus it appears that Savoy and Switrerland are the highest places of Europe, from whence the ground slopes in every direction. From the Alps proceed the Damube and the Rhine, whose courses mark the two great valleys into which many little strecums descend. The Po also, and the Rhine come from the same head, and, with a steeper and storter course, find their way to the sen, through valleys of less breadth and lengtis: On the west side of the valley of the Rhine and the Rhone, the ground rises pretty fast, so that fow tributary strcams come into them from that side; and from this geatle elevation France slopes to the westward. If a line, nearly straight, but bending a litue to the northward, be drawn from the head of Savoy and Switzerland, all the way to Solikamskoi in Siberia, it will nearly pass through the most elevated part of Europo; for in this track most of the rivers have their rise. On the left go off the various feeders of the Elle, the Oder, the Wesel, the Niemen, the Duma, the Neva, the Dwina, the Retzora.: On the right, after passing the feeders of the Danube, we see the sources of

## EUROPE.

the Sereth anid Prutỉ, the Dacister, the Bog the Drieper, the Don, and the mighty Votga. The clevation, however, is extremely moderate; and it appears from the levels taken with the barometer, by the abbé Choppe d'Auteroche, that the head of the Volga is not more than 470 feet above the surface of the occan. And we may observe here, that its mouth, where it discharges its waters into the Caspian sea, is undoubtedly lower, by many feet, than the surface of the ocean.

The condition of Europe is such as rather to promote the safety and contentment of its inhabitants, than to indulge their love of splendor, of luxury, or of ease. It is all, excepting a small part of Lapland and Muscovy, situated in the temperate zone, so that we do not feel the extreme either of cold or heas. We cannot boast of any very rich mines of gold or silver; but we possess the more useful metals, iron, copper, and lead. We do not abound in precious stones, but our quarries afford materials for the archiftect and the statuary. Sugar and spices are not among our natural productions, but we have an abundance of corn, pulse, and fruits.

With respect to animals, the comparison is in our favour. The want of the elephant, the camel, and the dromedary, is supplied by the horse, the ass, and the mule : our catthe are in genemal superior to those of warmer climates, and in our woods is no animal so formidable as the lion or tyger. Our birds are deficient in the brilliancy of their plumage, but excel in the melody of their song. In none of the cointries of Europe are serpents sufficiently numerous to be truly terrible. The various malignity that has been ascribed to European serpents of old is now utterly unknown ; there are not above three or four kinds that are dangerous, and their poison operates in all the same manner. The drowsy death, the starting of the blood from every pore, the insatiable and burning thirst, the melting down of the solid mass of the whole form into one heap of putrefection, said to be occasioned by the bites of the African serpents, are horrors with which we are entirely unacquainted. It is not, however, in animals or vegetables that the superiority of Europe chiefly consists;

Man is the noblest growth our realms supply, And souls are ripen'd by this nothern sliy.

The Europeams surpass both in arts and sciences, especially in those called the liberal; in trade, mavigation, and in military and civil affairs; being it is said, at the same time more prudent, more valiant, more generous, more polite, and more sociable than they; and though we are divided into various sects, yet, as Christians, wo have infinitely the advantage over the rest of mankind. There are but few places in Europe where they sell each other for slaves : and none where robbery is a profession, as it is in Asia and Africa.

Though Europe is now the most civilized quarter of the globe, its most antient inhabitants were certainly the rudest barbarians. Some of them, it is related, lived indifferently on every fruit, herb, or root, that came in their way, and either lay in the open fields, or, at best, sheitered themselves in dens, caves, and hollow trees; their countries, in the mean time, remuining uncultivated deserts. The first improvement they made in

## EUROPr.

thelr way of living was the exclianging of their old food for the more wholesome theorns, building hats for themselves to sleep in, and covering their bodies with the skins of beats. This reformation in the way of tife did not, it seems, work any in their morals. They, who had nothing to contend for but a hole to sleep in, began now to rob one another of those slender acquisitions. This, in process of time, put them under a necessity of joining themsolves into companies, under some heads, that they might either more successfully plunder their neighbours, of preserve more securely the property they had already obtained.

Such is the account which the historians of Greece liive" thought proper to deliver down to us, respecting the most early posspssors of their country: it must be admitted that such a description is very suitable to the views of poets and philosophers, and therefore they may both of them liave contributed to darken the scene; but we have not sutficicut reason to deny that it is founded on fact.
The inhabitants of the rest of Europe, though not equally barbarous, do not appear to have been far advanced in refinement. They consisted of many independent tribes, between sonne of whom there was a considerable affinity of language, and between all of them a striking coincidence of manners. War and hunting they esteemed the most 'pleasant and honourable exercises ; while the cultivation of the earth in their countries were suibmitted to with extreme reluetunce, as employments unworthy of their martial spirit. Thicir towns were obly a few miserable lluts, buitt near each other, in the deepest recesses of the forest. Their religion was as savago as their lives; their gods were departed heroes, who were supposed to be more highly honoured by human sacrifices than ty any other oblation. Barbarous as we must acknowledge the state of Eurupe ut this time to liive been, it was not destitute of circumstances fivourable to the culfivation of the mind. As our ancestors delighted in war, they must neeessarily have paid soune attention to the 'fabrication of weapons, and to every thing which gave them an advantage in athocking or resisting an enemy. The reciting the achievements of their fathers and their cliefs was the most agreeable employment of their leisure. Hence arose the order of bards, at once the poets and historians of the north. Their priests claip a saperiority in wisdom as well as in sanctity, and would therefore be induced to increase their natural and moral information, or, at least, not lose that portion which they might have already learned. How long these causes continued to operate, unassisted by an intercourse with foreign nations, we are unable to decide. We know, however, that at a very remote period, the Phanicians had extended their navigation to Greece, Sicily, and Spain, to the isles of Selly, and to the southern coast of Britain, and planted colonies in some of those countries, and had communicated to all of them something of their manners. It is also to be remarked, that, about 16 centuries before the Christian era, several Egyptian families passed over Greece, where they erected cities, founded states, and civilized great numbers of the original inhatitants. The gods, ruysteries, and oracles of Egypt were now introduced into Europe ; and all the eloquence of the orator and the enthusinsm of the poet employed to gain converts to eastern polytheism. Daring the period whieh began with Orpheus, and ended with Homer and Hesiod, the infiannce of learming wits extended over Greece, Thrace, and many parts of Vor. 1.

## guropr.

Italy, and is painting, sculpture, music, poetry, oratory, moral philosophy, medicine, astronomy, and so much of geograply as is necessary for the description of countrics were studied with sone degree of diligence and success. From the death of Homer to the commencement of the Peloponnesian war there was an interval of about 400 years. In the beginning of this period, barbarism is supposed to have increased; but toward the latter part of it there flourished a number of eminent meñ, whose names have survived the Japse of two thousand years, and still continue to be mentioned with wencration. Such were the three great legisfators, Lyeurgus, Numa, and Solon; Thales and Pythagoras, founders of the two achools from which all the other sects of antient-philosophers were derived; Alecus, the father of Lyric poctry; Esop the fabulist, and Abaris the Hyperborean sage, inferior to none of the former for abilities or for virtues. In the mean time, the Greeks evinced the superiority of European above Asiatic discipline, by the total defeat of two vast Persian armies ; and the Romans, in Italy, laid the foundation of an enspire, which was one day to give laws to the world.

That which is denominated the Grecian age, or the first golden age of learning, extends from the commencement of the Peloponnesian war to the death of Aiexinder the Great, was crouded with great political events, and productive of an extraordinary numrber of illustrious characters. Europe may be considered as at that time divided into five unequal parts, belonging to the Greeks, the Romans, the Carthiginians, the Gauls; and the other barbarians. That high and enterprising spirit which animated the Grecians to oppose the great king of Persia, now urged them to civil commotion, ant at length compelled them to submit to slavery. A zeal for liberty was what they all pretended; but on every occasion it appeared that this love of liberty was a desire of dominion. Nostate in Greece could bear to see another equal to itself; hence their perpetual contests for pre-eminence, which could not but weaken the whole body, and render them an easy prey to an ambitious and politie prince, who was capable of taking advantage of these divisions. In 404 before Christ the Athenian power was broken, by the talking of their city by the Spartans. In 370 that of the Spartans received a severo check from the Thebans, at the battle of Leuctra; and eight years after was still further reduced, by the battle of Montinea. Epaminondas, the great enemy of the Spartans, was indeed killed; but this only proved a more speedy means of sitbjugating all the states to a forcign, and, at that time, despicable power. The Macedonians, a barbarous nation, lying to the north of Greece, were, two years after the death of Epaminondas, reduced to the lowest ebb by the Illyrians, another nation of barbarians in the neighbourhood. The king of Macedon being killed in an engagemont, Philip, his brother, departed from Thebes, where he had studied the art of war under Epaminondas, in order to take possession of his kingdom. Being a man of great prudence and policy, he quickly settled his own affairs, vanquished the Illyrians, and, being no stranger to the weakeved state of Greece, began almost immediately to meditate the conquest of it. The particulars of this enterprise shall be hereafter related ; here it is sufficient to observe, that, by first attacking those whom he was sure to overcome, by corrupting those whom. he thought it dangerous to attack, by sometimes pretending to assist one state, and some'

## EUROPE.

times another, and by imposing upon them all, as it best served his turn, he at last put it out of their power to make any resirance, at least such as could keep hint from gaining his ead. In 938 before Christ he procured himself to be elected general of the council of the Grecian states, under pretence of settling some troables at that time in Greece; but having once obtained liberty to enter that country with an army, he quickly convinced the states that they must all submit to his will. He was opposed by the Athenians and Thebans, but the intestine, wars of Greece had cut of all hor great men, and no general was now to be found capable of opposing hie armies with success. The king of Macedon, being now master of Grecee, projected the conquest of Asia, but, whilé he was preparing to enter on his great desigu ho was assassinated. His son Alexander was possessed of every quality necessary for the execution of so great a plan; and his impetuosity of temper made him execute it with astonishing rapidity. Having conquered Persia, and led his army to the banks of the Indus, he returned to Babylon, and abandoring himself to continual intoxication, died of a fever, 393 years before the Christian era. In the mean time various branches of literature ware advanced to a degree of perfection, which has not get been excelled. The illustrious historians, Herodotus, Thacydides, and Xenophon; the philosophers, Socrates, - Plato, and Aristotle; the orators Demosthenes, Wischincs, Lysias, and Isocrates; tho poets, Pindar, Jischylus, Euripides, Sophocles, Aristophanes, Menander, Anacreon, and Thencritus ; the statuaries, Lysippus, Apellns, Phidias Praxiteles; and, hastly, the celebrated painter Apelles, and many others of inferior eminence were among the ornaments of this calanitous age

While the Grecian empire thus suddenly sprung up, the Romans were establishing their empire on the most solid foundations; being originally little better than a parcel of lawless banditil, they wero despized and hated by the neighbouring states This soon produced wars, io which, at first from accidental circumstances, and afterwards from their superior velour and conduct, the Romans proved almost constantly victorious. The jealousies which prevailed aniong the Italian states, and their igoorance of their true interest, prevented them from combining against that aspiring nation, and crushing it in its infincy, which they might ensily have done: while, in the meen time, the Romane, being kept in a state of continual warfare, became at lis such expert soldiers, that no other state on earth could resist them. During tho fime of their kings, they made a very considerable figure among the Italinn nations, but after their expulsion, and the commencement of the republic, their conquests became much more rapid and extensive. In 501 before Chrizt they subdued the Sabines; eight years after the Latins: and in 399 , the city of Veia, the strongest in Italy, excepting Rome itself, was taken, after a siege of ten years. But, in the midst of their successes, a sudden irruption of the Gauls bad almost put an cod to their power and nation at once. The city was burnt to the ground, in 383 . belore Christ, and the eapitol on the point of being surpised, when the Giauls, who were climbing up the walls in the night, were aceidentally discovered and repulsed, In a short time Rome was rebuilt, with much greater splendour than beforo; but now a general revolt and combination of the nations, formerly subdued, took place. The Romans, however, still got the better of their enemies : but
even at the time of the celebrated Cornelius's death, which happened much about 352 before Clirist, their territories scarce extended six or seven leagues from the capital. The republic from the beginning was agitated by those which at last proved its ruin. The people had been divided by Romulus into two classes, namely, patricians and plebcians, answering to our nobility and commonaity. Between these tho bodies were perpetual jealowifes and contontions, which retarded the progress of the Requin conquests, and revived the liopes of the nations they had conquered. The tribunes of the people were perpetually opposing the consuls and military tribunes. The senate lind often recourso to a dictator, endorred with absolate power; and tho tried valour and experience of the Roman troops made them victorious : but the retum ef domestic seditions gave the subjugated nations an opporturity of shaling off the Roman yoke. Thus had the Rowimns continued, for near 400 years, running the same round of wirs with the saile enenies, and reaping very little advantage from their conquests, tilt at last matters were compounded, by clioosing one of the consuls from among the plebciins; and from this time chiefly we may date thie prosperity of Rome; so that, by the time Alexander the Great died, they were held in considerable cstimation among foreign nations. The Cartha, gimians, an African state, of Phoenicinn origin, had, by this time, obtained greet commer cial importance; they had reckoned ameng their European dominions Sardinir and part of Sicily. Whether they had at this time any settlements in Spain is not known; it is, however, certain that they traded to that country for the sate of the silver, in which it was very rich. The Giauls possessed Britain, the Netherlands, Prance, Spain, and the north of Italy; while all the country cast of the Rhine, except that of the Greeks, remained-in possession of the other barberians.
The complexion of the age which sueceeded the death" of Alexander did, in sevenif instances, materially differ from the preceding; it wis not equally fertile of geat men, but more thbundantly prodactive of events which concerned the general state of Europe. Alexander, as already observed, had not distinctly named a successor; but he had left behind bim a victorious, and, we may say, an invincible army, commanded by most expert officers, all of them amtitious of supreme authority. It is not to be supposed that peace conld be long preserved in such a situntion. For a number of years, indeed, nothing was to be scen or heard of but the most horrid slaughters and wickedness of every kind, until at last the mother, wives, children, brothers, and sisters of Alexander were cat off, not one of the family of that great conqueror being leff alive. When matters were a little settled, four new empires, each of then of no small extent, arose out of the empire of Alcxander. Cassander, the son of Avtipater, had Micedoniar and alt Greece; Antigonus, Asti Minor; Seleucus bad Babylon and the easterin provinces ; anid Ptolemy, Egypt and the western ones. The succeeding kings of Macedon, though they did not preserve the same authority over the Grecian states that Alexander, Antipater, and Cassander had done, yet effectually prevented them from those outrages upon one another, for whifeb they bad formerly tieen so romarkable. Indeed it is somerwat difficelt to determine whether their condition was better or worse than before they were conquered by Philip; since, though they wero now frevanted from destroying one another, they sere mout grieqously oppressed by the Macedonian tyrants.

While the eastern parts of the world were thus deluged with blood, and the successors of Alexander were pulling to pieces the empire which he had established, the Romans and Carthagnians proceeded in their attempts to enslave the nations of the west. The Romans were engaged in war, conquered one city and state after another, till, about the year 259 before Christ, they had made themselves masters of almost the whole of Italy. During all this time they had met only with a single check in their conquest, and that was the invasion of Pyrrhus, king of Epirus. That ambitious and fickle prince had projected - the conquest of Italy, which he fancied would be an easy matter. Accordingly, in 971 before Clirist, he entered that country, and maintained a war with the Romans for six years; till at last being utterly defeated by Curias Dentatus, he was obliged to return. The Romans had no sooner made themselve's masters' of Italy, than they wanted only a pretence to carry their arms out of it ; and this pretence was soon found out. Being invited into Sicily, to assist the Momertines against Hiero, King of Syracuse, and the Carthaginians, they immediately commenced a war with the latter, which continued with the utmost fury for 95 ycars. The war ended greatly to the disadvantage of the Carthaginiaus, chiefly owing to the bad conduct of their generals; none of whom, Hamilcar Barcas alone excepted, seem to have been possessed of any degree of military skill; .and the state had suffered too many inisfortunes before he entered upon the command for him or any other to retrieve it at that time. The consequence of this war was the entire loss of Sicily to the Carthaginians ; and soon after the Romans seized on the ishand of Sardinia, Hamilcar, perceiving that there was now no alternative, but that, in a short time, either Carthage must conquer Rome, or Rome would conquer Carthage, bethought himself of a method by which his country might become equal to that haughty republic. This was by reducing all Spain, in which the Carthagininns had already considerable possessions, and from the mines of which they drew great advantages. He had, therefore, no sooner finished the yar with the mercenarics, which succeeded that with the Romans, than he set about the concuest of Spain. This, however, he did not live to accomplish, though he made great progress in it. His son Asdrubal continued the war with success ; till, at last, the Romans, jealous of his progress, persuaded him to enter into a treaty with them, by which he engaged himself to make the river Iberus the boundary of his conquests. This treaty, probably, was never ratified by the senate of Carthage ; nor, though it had, would it have been regarded by Hunnibal, whosucceeded Asdrubal in the command, and had sworn perpetual enmity to the Romans.

The transactions of the second Punic war are, perhaps, the most remarkable which the history of the world can afford. Certain it is, that nothing can shew more clearly the slight foundations upon which the greatest empires are built. We now see the Romans, the nation most remarkable for their military skill in the whole world, and who, for more than 500 years, had been almost constantly victorious, unable to resist the efforts of one single man. At the same time we see this man, though evidently the first general in the world, lost, solely for the wath of a slight support.

In former times the republic of Carthage supplied ber generals in Sicily with hundreds of thousands, though their enterprises were almost constuntly unsuccessful; but now Vot. $I$.

## EUROPE.

Hannibal, the conqueror of Italy, was obliged to abandon his design, merely for wart of 20 or 30,000 men. That degencracy and infatuation which never fuils to overwhelm a falling nation, or rather, which is the cause of its fall, had now infected the counsels of Carthage, and the supplies were denied. Neither was Carthago the only infatuated nation at this time. Hannibal, whose prudence never forsook him, cither in prosperity or adversity, in the height of his good fortune had concluded an alliance with Philig king of Macedon. Had that prince sent an army to the assistance of the Carthaginions in Italy, immediately after the battle of Cannse, there can be no doubt but the Romans would have been foreed to accept of that pence which they so thaughtily refused; and indeed this offer of peace, in the midst of so much success, is an instance of moderation, which, perhaps, does more honour to the Carthaginian geacral, than all the military exploits he performed. Philip, however, could not be roused from his indolence, nor see that his own ruin was connected with that of Carthage. The Romans had now made themselves masters of Sicily; after which they recalled Marcellus, with his victerious army, to be employed against Hannibal; and the cousequence at last was, that the Carthaginian armies, unsupported in Italy, could not conquer it, but were recalled into Africa, which the Romans had invaded. The southern nations seem to have been as blind to their own interest as the northern ones. They ought to have seen that it was necessary for them to preserve Carthnge from being destroyed; but, instead of this, Masinissa, king of Numidia, allied with the Romans, and, by this means, Hannibal was overcome at the battle of Zama, which finished the second Punie war, in 788 before Christ.

The states of Greece, weary of the tyranny of the Macedonians, entered into a resolution of recovering their liberties. For this purpose was formed the Achreon league ; but, as they could not agree among themselves, they at last came to the imprudent dotermination of calling in the Romans, to defend them against Philip, King of Macedon. This produced a war, in which the Romans were victorious. The Macedonians, however, were still formidable; and as the intentiou of the Bomans to enslave the whole world could no longer be doubted, Perseus, the successor of Philip, renerred the irar : through his own cowardice he lost a decisive engagement, and with it his kingdorn, which submitted to the Romans in 167 before Christ.
Howerer zealous the Romans might profoss to be in the service of the Greeks, they did not protect them any longer than served their own purposes, but, in the year 147 before Christ, put an end to their liberties, by the final destruction of Corinth.

There now remained no people in Europe to resist the Roman arms, except the Gauls, the Germins, and some Spanish nations; nor was the resistance they were capable of making, such as could be any effectual bar to the Roman ambition. The Spaniards had indeed been subdued by Scipio Africanus, in the time of the second Punic war, but fo 155 before Christ they revolted, and under the conduct of one Viriathus, formerly a robber, held out for a long time against all the armies the Romans could send into Spain. Him the consul caused to be murdered, about 198 before Christ, because lie found it impossible to reduce him by force. The city Numantia defied the whole Roman power for six years longer, till at last, by dint of treachery, numbers, and perseverance, it wis

## EUROPE.

taken; but the inhabitants, reduced to extremity by famine, set fire to their houses, and perished in the flames, or killed one another, so that not one remained to grace the triumph of the conqueror: and this, for the present, quieted the rest of the Spaniards.

In 122 before Christ, the Palearic islands, now called Majorca, Minorca, and Ivica, were subdued, and the inhabitants exterminated; and soon after several of the nations beyond the Alps were obliged to submit. The Gauls, however, were still at liberty, and the Spanish nations bore the Roman yoke with great impatience. The 'Ganls infested the territories of the repablic by their frequent incursions, which were sometimes very terrible; and though several attempts had been made to subdue them, they always proved insufficient, till the time of Julius 'Cassar, •Ry him they were totally reduced, from the river Rhine to the Pyrenean mountains, and many of their nations almost externinated, He carried his arms also into Germany and the southern parts of Britain ; but in neither of these parts did he make any permanent conquests. While the Romans thus employed all means to reduce the world to thair obedience, they were making one another feel the same miscries at home, which they inflicted upon other nations abroad. The first ciril dissensions took their rise soon after the siege of Numantia in Spain. Tiberius Sempronius Gracchus undertools the cause of the plebeians against the patricians, by whom the former were greatly oppressed. He began with reviring an old law, which enacted that no Roman citizen should possess more than 500 acres of land. The overplus he designed to distribute among those who had no lands, and to reimburse the rich out of the public treasury. This law met with great opposition and many tumults ; and at last occasioned the death of Gracchus, and the persecution of his friends, several huadreds of whom were put to cruel deaths, without any form of law. The disturbance did not cease with the death of Gracchus; new contests ensued on account of the Sempronian law, and the giving to the Italian allies the privilege of Roman citizens. This last not only produced great commotions in the city, but occasioned a general revolt of the states of Italy against the republic of Rome. This rebellion was not quelled without the utmost difficulty; and in the mean time the city was deluged with blood by the contending factions of Sylla and Marius, the former of whom sided with the patricians, and the latter with the plebeians. These disturbances ended in the perpetual dictatorship of Sylla, about 80 before Cluist,

From this time we may date the loss of the Roman liberty ; for though Sylla resigned his dictatorship two years after, the succeeding contests between Cassar and Pompey proved equally fatal to the republic. These contests were decided by the battle of Pharsalia, by which Casar became, in effect, master of the empire, in 43 before Christ. Being then become sole master of the Roman empire, and having all the power of it at his command, he projected the greatest schemes; tending, according to some, not less to the happiness than to the glory of his country; when he was assassinated in the senate-house, in the 58 th year of his age, and 39 before Christ. The design of Brutus and Cassius, who assassinated Cresar, was to have established the antient republican government of Rome, but their efforts were unsuccessful, and ended in their pwn destruction, and that of a great number of their fallowers, at the battle of Philipph.

The defeat of the republieans was follored by numberless disturbances, murders, and proscriptions, till, at last, Octavius, having cut off all who had the courage to oppose him, and finally got the better of his rivals at the battle of Actium, put an end to the republic, in 27 before Christ.
The destruction of tho Roman commonwealth proved advantageous to the few nations in the world who still retained their liberty. That outrageous desire of conquest which had so long marked the Roman character, now, in a great measure, ceased, bo cause there was now another way of satisting the desire of ambitious men, namely, by courting the favour of the emperor: After the final reduction of the Spaniards therefore, and the conquests of thic country of Masia, Pannonia, and some others adjacent to the Roman territories, and which, in a mariner, scemed naturally to belong to thein, the empire enjoyed for some time a profound peace.

The reduction of Brituin by Claudius and Agricola, and of the Dacians by Trajan, were the prineipal conquest, after this event, nechiered by the Rounus in Europe.

A little after the conclusion of the second Punic war, literature began to be cultivated at Rome. A succession of writers made their appearance, not indeed distinguished for the elegance of their language, but inferior to few in the vigour of their genius. Theso were succeeded by Catullus, Lucretius, Terence, Virgil, Horace, Tibullus, Propertius, Ovid, Phedrus, Cesar, Cicero, Livy, Sallust, Varro, and Vitruvius. These all flourished before the death of Augustus, and gave lustre to what is, from him, denominated the Augustan age. After this literature began to decline, yet in the interval between Augustus and Trajun we meet with several illustrious nnmes, such as Lucan, Seneca, Tacitus, Suetonius, and the two Plinies. Sueh as flourished either in Greece or Rome during the existence of the Roman empire, are called the antients, and by this name distinguished, as having written since the revival of literature.
" From whatever cause it happens, (says Dr. Plair) so it is, that among some of the antient writers we must look for the highest models in most of the kinds of elegant composition. For accurate thinking, and enlarged ideas in several parts of philosophy, to the moderns we ought cliefly to have recourse. Of correct and finished writing in some works of taste, they may afford useful patterns ; but for all that belongs to original genius, to spirited, masterly, and high execution, our best and most happy ideas, are, generally speaking, drawn from the antients. In epic poctry, for instance, Homer and Virgil, to this day, stand not within many degrees of any rivals. Oritors, such ns Cicero and Demosthenes, we have none. In fititory, notwithstanding some defects in the antient historical plans it may be safely asserted, that we have no such historical narrations, so elegant, so picturesque, so animated, and interesting as that of Herodotus, Thucydides, Xexopben, Livy, Tacitus, and Sallust. Although the conduet of the drama may he ac'mitted to have received somie improvements, yet for poetry end sentiment we have nothing to equal Sophocles and Euripides ; nor any dialogue in comedy that comes up to the correct, graseful, and elegant simplicity of Terence., We have no such love elegies as those of Tibullus; no such pastorals as some of Theocritus's; and for lyric poetry, Horace stands quite unrivalled. The name of Horace cannot be mentioned without a particular encomium. That "Curiosa Felicitas," "thich Petronius has re.

## FLROPE.

marked in hits expression; the oweetness, elegance, and splrit of many of his odes, the thorough knowledge of the world, the excellent sentiments, and natural easy manner which distinguishes his satires and epistles, all contribute to render him one of those very few authors whom one never tires of reading; and from whom alone, were every other monument destroyed, we should be led to form a very bigh idea of the taste and genius of the Augustan age."
" Let us guard, however, against a blind and implicit veneration for the antients in every thing. Whatever superiority the antients may have had in points of genius, yet in all arts, where the natural progress of knowledge has had room to produce any considerable effects, the moderns cannot but have some advantage."
"The world may, in certain respects, be considered as a person, who must needs gain somewhat by advaneing in years. Its improvements have not, I confess, been always in proportion to the centuries that have passed over it; for, during the courso of some ages, it has sunk as into a total lethargy. Yet, when roused from that lethargy, it has generally been able to avail itself, more or less, of former discoveries. At intervals there arose some happy genius, who could both improve on what had . gone before, and invent something new. With the advantage of a proper stock of materials, an inieriar genius can make greater progress than a much superior one to whom these materials are wanting."
"Hence, in natural philosophy, astronomy, chemistry, and other sciences that depend on an extensive knowledge, and observation of facts, modern philosophers have an unquestionable superiority over the antient. I am inclined also to think, that in matters of pure, reasoning, there is more precision among the moderns than in some instances there was among the antients; owing, perhaps to a more extensive literary intercourse, which has improved and sharpened the, faculties of men. In some studies too, that relate to taste and fine writing, the progress of society must, in equity, be admitted to have given us some advantages. For instance, in history there is certainly more political knowledge in several European nations at present than there was in antient Greece and Rome. We are better acquainted with the nature of government, because we have seen it under a greater variety of forms and revolutions. The world is more haid open than it was in former times; commerce is greatly enlarged; more countrics are civilized; posts are every where established; intercourse is become more easy; and the knowledge of facts, by consequerice, more attainable. All these are great advantages to historians; of which, in some measure, as I shall afterwards shew, they have availed themselres. In the more complex kinds of poetry, likewise, we may have gained somewhat, perhaps, in point of regularity and accuracy. In dramitic performances, having the advantage of the antient models, we may be allowed to have made sotne improvements, in the variety of characters, the conduct of the plot, attentions to probability, and to decorum."
"These seem to me the chief points of superiority we can plead above the antients; neither do they extend so far as might be imagined at fint view. For if the streingth of genius be on one side, it will go. far, in works of taste at least, to coninterbalinee till the qrificial improvements which can be made by greater knowledge and correcticas. To Vole I.
return to our comparison of the age of the world with that of a man, it maylier bdid, not altacther withont reason, that if the advancing age of the world bring along with it more science and more refinement, they belong bowever, to its carlier periods, more vigour, more fire, more enthusiasm of genius. This appears, indeed, to form the characteristical difference between the antient poets, arators and historians, compared with the modern. Among the antients we find higher conceptions, greater simplicity, more original fancy. Among, the moderns, sometimes more art and correctness, but feebler exertions of genius. But though this be in general a mark of distinction between the antients and moderns, yet, like all general observations, it must be understood with some exceptions; for, in point of poctical fire and ${ }^{\circ}$ originul genius, Milton and Shakspeare are inferior to no poets in any age."

Not content with possessing the advantages of civiljation themselves, the Romans endeavoured to communicate them to every nation they conquered. They transferred to Spain, Gaul, Germany, Panponia, and Britais, their laws, manners, ${ }^{\text {arts, }}$ sciences, funguage, and literature. Some have thought these a sufficent compensation for the loss of liberty and independence; but a diligent attention to facts will incline us to avery dif. ferent decision.

The degrading influence of Roman dominion, more than any other circumstance, hastened the dissolution of the empire; for although the conquered nations were by that means more easily kept in subjection, they became unable to resist a foreiga enemy, and might be considered as decayed mombers of the body politie, which increased its size without increasing its strength. An appearance of prosperity, indeed, succeeded the havoc of war; the ruined cities were rebuilt, and new ones founded; population flourished; civilization advanced; the arts were cultivited; but the martial and independent spirit of the people of the northern provinces was so totally extinct in a few centuries, that, instead of preferring death to slavery, like so many of their illustrious ancestors, they patiently submitted to any contribution which a rapaciois governor was pleased to levy. They became incapable of thinking or acting for themselves; and consequently unable to resist the most desultory inroads of a troop of undiseiplined barbarians.

A total relaxation of manners had ensued on the pillage of Greece, the conquest of Asia, and the rise of the imperial power. The people were disarmed by the jealousy of despotism, and corrupted by the example of an abandoned court. Effeminacy, debauchery, profligacy, and every atrocious vice was common upon the throne. A new source of ruin speedily disclosed itself. Some disputed successions having made the army sensible that the sovereignty was in their hands, they thenceforth sold it to the highest bidder. Sporting with the lives of their princes, as formerly with the laws of the republic, they created emperors only to extort money from them, and afterwards massaered them, in order to extort like sums from their successors. Emperors were opposed to emperors, and armies disputed the pretensions of armies. With obedience discipline was lost. Wise princes endeavoured, but in vain, to restore it; their zeal to maintain the antient military regulations only exposed them to the fary of the soldiery; the very name of discipline was a signal for revolt.

## EUROPZ:

in The armies of Rome did not now consist of free men, wha had voluntarily chosen a military lifes or who, in obedience to the laws, sened for a tern of years, but of mereenaries collected from the provinces, or of barbarims bribed into the service, as more able to undergo the fatigues of war. Her soldiers were no longer citizens armed in defeuce of their country, they were its oppressors; they were licensed robbers, insatiable of plunder. In order to prevent the continual treasons of the soldicry, but especially the Pretorian band, the emperors associated with themselves, in the supreme power. their sons, their brothers, or such persons as they could trust; und every emperor elected a Cresar, or successor. Tbey likewise sub-divided, and consequently diminished, the power of the Pietorian prefects, who were the grand viziers of their time, appointing four instead of two. By these means the imperial seat was rendered more secure ; the emperors were permitted to die in their beds; manners were softened, and less blood was shed by ferocity; but the state was wasted by an, enormous expence, and a new species of oppression took place, no less disgraceful to humanity than the former massacres. The tyranny was transferred from the soldiery to the prince; the cause and the mode was changed, but the effect was the same. Shut up within the walls of a palace, surrounded by flatterers and women, and sunk in the softness of Eastern luxury, those masters of the empire governied in secret by the dark and subtle artificen of despotism. Iniqitous judgments, under the form of justice, seemed only to set death at a distance, in order to make life more miserable, and existence more precarious. Nothing was said, all was insinuated: every $\operatorname{man}$ of prime reputation was accused; and the warrior and the politician daily saw themselves at the mercy of sycophants, who-had neither ability to serve the state themselves, por generosity to suffer others to serve it with honour.

The removal of the imperial court to Constantinople, to say nothing of the subsequent division of the empire into eastera ahd western, was a new blow to the grandeur of Rome, and likewise to its security; for the veteran legions, that guarded the banks of the Danube and the Rhine, were also removed to the east, in order to guard another frontier; and Italy robbed of its mealth and intabitants, sunk into a state of the most annihilating langour. Changed into a garden by an Asiatic pomp, and crowded with villas, now deserted by their soluptuous owners, this once fertile country was unable to maintain itself; and when the crops of Sieily and Afriea failed, the people breathed nothing but sedition. These discontents, occasioned by the removal of the imperial court, were beightened by those of religion. Christianity had long been making progress in the empire, it now ascended the throne of the Casars, As the Christians had formerly been persecuted, they, in their tum, became persecutors. The gods of Rome were publicly insulted, their statues were broken, their votaries were harrassed. Penal statutes were enacted agginst the antient worship; the punishment of death was denounced agaiant the sacrifices formerly ordained by law; the altar of victory was overturned, the cross was exalted in its stead, and displayed in place of that triumplant eagle, under which the world had been conquered, The most dreadful hates and animosities arose- The pagans accused the Christians of all their misfortunes; they rejoiced in the midst of the greatest calamities, as if the gods had been come in person to take vengeance

## EUROPE

on the destroyers of their altars; while the Christians-affirmed, that the remains of paganism alone bad drawn down the wrath of Omnipotence. Both parties were thore occupied about their religious disputes than the common safety; and, to complete thie miseries of this unhappy people, the Christians became divided among themselves. New sects sprung up ; new disputes took place; new jealousies and antipathies raged, and the same punishments were denounced against heretics and pagans. An universal bigotry debased the minds of men. In a grand assembly of the provnnces, it was proposed, that, as there are thrce persons in the Trinity, they ought to have threo elimperors. Sieges were raised, and cities lost, for the sake of a bit of rotten wood, or withered bone, which was supposed to hafe belonged to some saint or martyr. Thig effeminacy of the age mingled itself with this infatoation: and generals, more weak than humane, sat down to mourn the calumities of war, when they should intrepidly have led on their troops to battle.
"The character of the people with whom the Romans had to contend, was, in all respects the reverse of their own. Those northern adventurers, or barbarians, as they were called, breathed nothing but war. Their martial spirit was yet in its vigour ; they sought a milder climate, and lands more fertile than their forests and mountains; the, sword was their right; and they exercised it without remorse, as the right of nature. Barbarous they surely were, but they were superior to the people they iavaded in virtue as well as in valour. Simple and severe in their manners, they were unacquainted with the name of luxury; any thing was sufficient for their extreme frugality. Hardened by exercise and toil, their bodies seemed inaccessible to disease or pain: war was their element ; they sported with danger, and met death with expressions of joy. Though free and independent, they were firmly attached to their leaders, because they followed them from choice, not from constraint, the most gallant being always dignified with the command. Nor were these their only virtues. They were remarkable for their regard to the sanctity of the marriage bed; their gencrous hospitality, their detestation of Treachery and falschood. They possessed many maxims of civil wisdom, and wanted only the culture of reason to conduct them to the true principles of social life. What could the divided, effeminate, and now dastardly, Romans oppose to such a people? Nothing but fear and folly; or, what was still more ignominious, treachery. Soon convinced that the combat was unequal, they attempted to appease their invaders by money; but that peace could not be of long continuance which pat those who sold it in a better condition to sell another. Force is seldom just. These voluntary contributions were changed into a tribute, which was demanded as a right ; and war was denounced when it was refused, or fell short of the customary sum. Tributes were multiplied upion tributes, till the empire was drained of its treasure. Another expedient was then fallen upon: large bodies of the barbarians were taken into pay, and opposed to other barbarians. This mode of defence, so contrary to the practice of the first Romans, answered for the moment, but terminnted in ruin: those auxiliaries proved the most dangerous enemies to the empire. Already aequainted with the Roman luxuries, the Roman wealth, and the Roman weakness, they turned their arms agairst their masters, inviting their eountrymen to come and share with them in the spoils of a people unworthy of so many

## EUROPE.

accommodations. They were likewise become acquanted with what little military skill yet remained among the Romans; and that, superadded to their natural intrepidity, made them perfectly irresistible. A third expedient, yet more unworthy of the Roman name, was had recourse to ; assassination was employed by the emperors agains those princes or leaders whiose arms they feared; it was even conceated beneath thmask of friendship, and perpetrated under the roof of hospitality, in the convivial hour, and at the festive board. This diabolical practice, the want of faith, and other tuntmanly vices of the Romans, not only account for the total subversion of their empire, but also for many of the crueltics of the conquerors. Inflamed with the passion of revenge, no less than the thirst tf conquest or the lust of plunder, the inflexible and high spirited, though naturally generous barbarians were equally deaf to the offers of treaty, and the voice of supplication. Wherever they marched, their route was marked with blood. The most fertile and populous provinces were converted into deserts. Italy and Rome itself were often pillaged. New invaders, from regionis more remote and barbarous, drove out or exterminated the former settlers: and Europe was successively laid waste ; till the north, by pouring forth its myriads, was drained of people, and the sword of slaughter tired of destroying".

- "In less than a hundrod years after the first northem invasion, scarce any remains of the laws, mamners, arts, or literature of the Romans were left in our quarter of the globe. By the beginuing of the sixth century, the Visigoths had possessed themselves of Spain ; the Franks of Gaul; the Saxons of the Roman provinces in South Britain; the Huns of Pannonia; the Ostrogoths of Italy, and the adjacent prorinces. Neiv governments, laws, languages ; new manners, customs, dresses ; new names of men and of countries every where prevailed. A total change took place in the state of Europe. How fur this change ought to be lamented is not now a matter of much dispute. The human species was reduced to such a degree of debasement by the pressure of Roman despotism, that we can hardly be sorry at any means, however violent, which removed or lightened the load. But we cannot belp lamenting, at the same time, that this revolution was the work of nations so little enlightened by science or polished by civilization ; for the Roman laws, though somewhat corrupted, were yet in general the best that human wisdom had framed; and the Roman arts and literature, though much declined, were still superior to any thing found among rude nations, or which those who spurned them produced for many ages. The contempt of the barbarians for the Roman improvements is not wholly, however, to be ascribed to their ignorance, nor the suddenness of the revolution to their desolating fury; the manners of the conquered must come in for a share. Had the Romans not been in the lowest state of national degeneracy, they might surely have civilized their conquerors; lind they retained any of the virtues of men among them, they might have continued under the government of their own laws."
"Many of the northern leaders were endowed with great alilities, and several of them were acquainted both with the policy and literature of the Romans; but they were justly afraid of the contagious influcnce of Iloman example, and therefore avoided every tifing allied to that name, whether lurtful or otherwise. They erected a cottage in the Vol. 1.
neightourbood of a palace, breaking down the stately building, and burying in its ruins the finest works of human ingenuity; they ate out of vessels of wood, and made the vanquisbed be served in vessels of silver; they huited the boar on the voluptuous parterre ; the trimgard on an expensive pleasure-ground, where effeminacy was wont to saunter, or indolence to loll; and thicy pastured their herds where they might have raised a luxuriant harvest. They prohibited their children the knowledie of literature, and of all the eleggut arts; because they concluded, from the dastardliness of the Romans, that learning tends to enervate the mind, and that he who has trembled under the rod of a pedngogue will never dare to meet a sword with an undaunted eye. Upon the same principles they rejected the Roman jurisprudence; it reserved nothing to the vengeance of man: they; therefore, not unphilosophically, thought it must rob him of his setive powers. Nor could they conceive how the person injured could rest satisfied, but by pouring out his fury upon the author of the injustice. Hence all those judicial combats, and privite wars, which, for many ages, desolated Europe."

This representation of the northern barbarians is given by one well read in European history, but appears to exhibit them in too favourable colours ; it is thercfore, just to present the reader with another portrait, which is also drawn by the hand of a master, and brings the enormities they perpetrated moro fully into view.
" The devastations committed by these barbarians, when they made their incursions, are incredible, and the relation shocking to human nature. Some authors seem much inelined to favour them, and even insinuate that barbarity and ignorant ferocity were their greatest, if not their only faults; but from their bistory it plainly appears, that not only barbarity and the most shocking cruelty, but the highest degrees of avarice, perfidy, and disregand of the thost solemn promises, were to be nutubered amons their vices. It was ever a sufficient reason for them to make an attack, that they thought their enemies could not resist them. Their only reason for making a peace, or for keeping it, was because their enemies were too strong: and their only reason for committing the most horrid massacres, rapes, and all nianoer of crimes, was because they had gained a victory. The Romens, degenerate as they were, are get to be estremed much better than these savages; and therefore we find not a single provinco of the empire that would submit to the barbarians while the Romans were able to protect them."
" The Gauls, the Britons, the Germans, the Scandinavians, and all the nations of the north of Europe, had a certain degree of conformity in their govemment, manners, and opinions. The same leading character, and the same degree of conformity, was also observable among their modern descendants, who, under the names of Goths and Vandals, dismembered the Roman empire. Alike distinguished by a love of war and of liberty, by a persuasion that foree only constitutes right, and that victory is an infallible proof of justice, they were equally bold in attacking their enemies, and in resisting the absolute domination of any one man. They were free, even in a state of subuission. Their primitive government was a kind of military democracy, under a general or chicftain, who had commonly the title of king. Matters of little consequence were determined by the principal men, but the whole community assombled to deliberate on

## EUROPE.

natlonal objecte. The authonty of their king of generals, who owed their eminence entirely to their military talents, and held it by no other claim, was extremely limited : it consisted rather in the privilege of advising, than in the power of commanding. Every individual was at liberty to chuse whether he would engage in any warlike enterprise. They, therefore, followed the chieitain, who led them forth in quent of new setlements, from inclination, not controul ; as volunteers who offered to accompany him, uot as soldiens whom he could order to march. They considered their conquests as common property, in which all had a right to share, as all had contributed to acquire them ; nor was any obligation whatsoever entailed on the possessors of land thus obtained. Every one was the lord of his own little territory. But after settling in the Roman provinces, where they had their nequisitions to maintain, not only ngainst the antient inhabitants, but also against the inroads of new invaders, the northern conquerors saw the necessity of a closer union, and of relinquishing some of their private rights for poblic safety. They coutinued therefore to acknowledge the generat who hid led thein to victory; he was considered as the head of the colony; he had the largest shure of the conquered lands ; and every free man, or every subordinate officer and soldier, upon receiving a share, according to his miltiary rank, tacitly bound himself to appear against the enemies of the community. The new division of property, and the obligations consequent upon it, gave rise to a species of govermment formerly unknown, and which is commonly distinguished by the name of the Feudas. Systim. The idea of a feudal kingdom was borrowed from that of a military establishment. The victorious army, cantoned out in the comitry which it had seized, continued arrunged under its proper officers, who were ordered to hold themselves in readiness to assemble, whenever occasion should require their united operations or counsels. But that system of policy, apparently so well calculated for national defence or couquest, and which prevailed for several centuries in almost every kingdom of Europe, did' not sufficiently provide for the interior order and tranquility of the state. The bond of political union was feeble; the sources of dissensions were many; and corruption was interwoven with the very frame of the constitution."
" The partial division of the conquered lands, which was chicfly swallowed up by the great officers, gave the few a dangerous ascendancy over the many. The king or general, by his superior alfotment, had it amply in his power to reward past services, or attach now followers, for the purpose of fiture wars. With this view he parcelled out his lands, binding those on whom he bestowed them, to attend him in all his military enterprises, under the penalty of forfeiture. The nobles, or great officers, followed his example, annexing the same conditions to their beneficos or grants of land, and appearing at the head of their numerous rassals, like so miny independent princes, whenever their pride was wounded, or their property injured. They disputed the claims of the sovereign ; they withdrew their attendance, or tarned their arms against him. A strong barrier was thus formed against a general despotism in the state; but the nobles themselves, by means of their warlike vetainers, were the tyrants of every inferior district, holding the people in servitude, and preventing any regular administration of justice, every one claiming that prerogative within his own domain. Nor was this the only pri-

## EUROPE.

vilege those haughty nobles usurped ; they also extorted from the crown the right of coining money in their own name, and of carrying on war against their private enemics."
" In consequence of these eneroachments on the royal prerogative, the powerful vassals of the crown obtained grants during life, aud afterwards others, including their heirs, of such lands as they had originally held only during pleasure. And they appropriated to themselves titles of honour, as well as offices of power and trust, which became bereditary in many families. The ties which conmected the principal members of the constitution with its head were dissolved ; almost all ideas of political subjection were lost, and little uppearance of feudal subordination remainet. The hobility epenly aspired at independancy ; they scorned to consider themselves as subjects ; and it kinglom, considerable in name and extent, was often a mere shadow of monarchy, and really consisted of as many separate principalitics as it contained baronies. A thousand feuds and jealousies subsisted among the barons, and gave rise to as many wars. Hence every country in Europe, wasted or kept in continual alarm by those internal hostilities, were filled with castles and places of strength, in order to protect the inhabitants from the fury of their fellow-subjects. The particular manner in which the barbarians, or northern invaders, conducted their judicial proceedings, when they first settiod in the provinces of the Roman empire, cannot now be distinctly ascertained; but their form of governinent, their manners, and a varicty of other circumstances, lead us to belicve it was nearly the same with that which prevailed in their original countrics; where the authority of the magistrate was so limited, and the independency of individuals so great, that they seldom ulmitted any umpire but the sword. Our most antient historical records justify this opinion ; they represent the exercise of justice in all the kingdonis of Europo and the ideas of men with respect to equity, as little different from those which prevail in a state of nature, and deform the lint stages of society in every country. Resentment was almost the sole motive for prosecuting crimes; and the gratification of that passion, more than any view to the prosperity and good order of society, was the end, and also the rule in punishing them. He that suffered the wrong, was the only person who had a right to pursue the aggressor; to demand or remit the punishment : and he might accept of a compensation for any offence how heinons soever. The prosecution of eriminals in the name and by the authority of the community, in order to deter others from violating the laws, now justly deemed the great object of legislation, was a maxim of jurisprudence then little understood in theory, and still less regarded in practice. The civil and eriminal judges conld, in most cases, do no more than appoint the lists, and leave the parties to decide their causes by the sword. Fierce and haugity nobles, unused to the restraints of lew, considered it as infamous to give up to another the right of determining what reparation they should accept of, or with what vengeance they should rest satisfied: they scorned to appeal to any tribunal but their own right arm. And if men of inferior condition sometimes submitted to award or arbitration, it was only to that of the leader whose conrage they respected, and whom in the field they had been accustomed to obey. Hence every chicftain became the judge of his tribe in peace, as well as its geaeral in war. The pernicious effects of this power upon government, and upon manners, and

## EUROPE.

tho masy absurd modes of trial estalitisied before its abolition, we shall have frequent occasion to observe in the history of every modern kingdom. The feudal system, however, with all its itmperfections, and the disorders to which it gave birth, was by no means EQ debasing to humauity as the uniform pressure of Roman despotism. Very different froms that dead calm which accompanies peacefut slavery, and in which every faculty of the soul sinks into a state of somnolency, it kept the minds of men in continual ferment, and thicir hearts in agitation. If animosities were keen, friendships also were warm. The commonalty were unfortunately degraded to the condition of slaves, but the nobility were exalted to the rank of prinegs. The gentry were their associates; and the king, withoat the form of compacs was in rreality but chief magistrate, or head of the community, and could literally do no whos 6 ; or none at least with impunity."

Thougb the northern invaders wanted taste to value the Roman arts, laws, or literature, they generally embraced the religion of the conquered people. And the miid and benevolent spirit of Christianity would doubtless have softened their savage mauners, had not their minds been already infeeted by a barbarous superstition; which, mingting itself with the Cbristian principles and ceremonies, produced that absurd mixture of vioFerice, devotion, and folly, which has so long disgraced the Romish church, and which formed the character of the middle ages. The clergy were gainers, but Christianity was a loser, by the conversion of the barbarians. They nather changed the object than the spirit of their religion. The druids among the Gauls and Britons; the priests among the antient Germans, and among all the nations of Scandinavia, possessed an absolute dominion over the minds of men. These people, after embracing Christianity, retained their veneration for the pricethood. And unhappily the ciergy of those times had neither virtue enough to preserve them from abusing, nor knowledge sufficient to enable them to make a proper use of their power. They blindly favoured the superstitious homage : and such of the barbrians as entered into holy orders, carried their ignorance nud their orikinal prejurices along with them. Thic Chiristian emperors of Rome and Constumtinople had enriched the charch ; they lad lavished on it privileges and immunities; and these seducing advantages bad but too much contributed to a relaxation of discipline, and the introduction of disorders, more or less hurtinl, which had altered the spirit of the professed friends of the gospel. Under the dotuination of the barbarians, the degeneracy increased, till the pure priaciples of Christianity were lost in a gross superstition; which, instead of aspiring to virtuous sanctity, endeavoured to conciliate the favour of God by the same means that satisfied-the justice of men, or by those employed to appease their fibtolous deities,

As the punishments dutefor civil crimes, among the northern conquerors, might be bought off by money, they attempted, in like mauner, to bribe heaven, by benefactions to the cliurch, in order to supenafo all flume inquest. And the mure they gave themselves up to their brutal pawions to rapite, and to violence, the more profuse they "ere in this species of good work. They seem to have believed, says the Abbé de Malby, that avarice was the first attribute of the divinity, and that the saints made a traftic of their liffuence and protection. Hence the bon mot of Clovis; " St. Mattin serves hifs friends very well; but he makes them pay soundly for his trouble," "Our

## RUROPE.

treasure is poor," said Chilperic, the grandson of Clovis; "our riches are gone to the church: the bishops are the hings $1^{7}$ And indeed the superior elergy, who, by the acquisition of lands, added the power of fortune to the influence of religion, were often the arbiters of kingdons, and disposed of the crown while they regulated the affairs of thof state. Thero was a necessity of consulting them, because they possessed all the knsfirledge that then remained in Europe : they only knew any thing. The acts of their councils were cousidered as infallible decrees, and they spoke uscally in the name of God; but, alas ! they were only men.

As the interest of the clergy clashed with that of the laity, opposition and jealousy produced new disorders. The priests made use of artifice against their powerful adversaries: they invented fables to awe them into submission; they employed their spiritual arms in defence of their temporal goods; they changed the mild language of charity into frightful anathemas. What was deemed the religion of Jesus breathed nothing bub terror. To the thumder of the charch, the instrument of so many wars and revolutions, they joinad the assistance of the sword. Warlike prelates, clad in armour, combated for their possessions, or to usurp those of others; anid, tike the heathen priests, whose pernicions influence was founded on the igmorance of the people, the Christian elergy sought to extend their authority, by confiming all knowledge to their own order. They made a mystery of the most necessary sciences; truth mis not permitted to soe the light, and reason was fettered in the cell of superstition. Many of the clergy themselves could scarce read, and writing was chiefly confined to the cloiters; where a blind and interested devotion, equally willing to deceive and to believe, held the quill, and wleere tying clironicles and fabuilous legends were composid; which contaminated listory, religion, and the principles and the laws of society. Without arts, sciences, commerce, polics, principles, the European nations were all as barbarons and wretched as they could possibly be, unless a miracle had been wrought for the disgrace of humanity. Charteunguo indeed, ill Frameo, and Atfret the Great, in Bugtant, endeavourat to difpel this darkness, and tame their subjects to the restraints of law; and they were so fortumate as to succeed. Light and order distinguished their reigns. But the ignorance and barbirism of the age wis too powerful for their liberal institutions: the darkness returned, after their time, more thick and heavy than formerly, and sutted over Europe, and society again tumbled into chuos.

The ignorance of the West was so profound, during the ninth and tenth centuries, that the clergy, who alone possessed the important secrets of reading and writing, became necesstrily the arbiters and the judges of almost all secular affais. They comprehended within their jurisdiction, marriages, contracts, wills; which they took care to involve in mystery, and by which they opened to themselves neiv sourees of wealth and power. Every thing wore the colour of religion; termporal and spiritual concerns were confounded: and from this unnatimal mixture sprung a thousand abuses. Letters began to revivc in the eleventh century, but made small progress till toward its close. A scientifical jargon, a false logic, employed about words, without conveying any idea of things, composed the learning of those times. It confounded all things, in endeavouring to analyse every thing. As the new scholars were mostly elergymen,

## EUROPE

thieological matters chiefly engaged their attention; and as they neither know histofy plilosophy, nor criticism, the laboars were as futile is their eaquiries, which were chiefly disgraceful to reason and religion. The coneeption of the blessed Virgin, and the digeation of the cucharist, were two of the principal objects of their speculation; and out of the last a third arose, which was, to know whether it was roided again? The disorders of government and manners keep pace, as they always will, with those of religion and learning. These disorders seemed to have attained their utmost heigit about the mindle of the tenth century; then the feadal policy, the defects of which we have pointed out, was become universal. The dukes or governors of provinces, the marquises employed to guard the marches, and even tho counts entrusted with the administration of justice, all originally officers of the crown, had made themselves masters of their duchics, marquisates, and comties. The king, indeer, as superior ford, still received homage from them for those lands which they held 'of the crown; and which, in default of heirs, returned to the royal domain. He had a right of calling them out to war, of judging ticin in lis court by thieir nascmbled peers, and of confiscating their estates in case of robellion ; but, in ull other respects, they themselves enjoyed the rights of royalty. They lad their sub-vassals, or subjects ; they made laws, beld courts, coined tnoney in their own name, and levied war against their private enemies, The most frighiful disorters avose from this state of feudal anarchy. Force decided all things. Europe was one great field of battle; where the weak struggled for freedom, and the strong for dominion. The king was without power, and the nobles without principle : they were tyrants at liome, and robbers abroad. Nothing remained to be a check upon furocity and viotence. The Scythians in their deserts could not be less indebted to the laws of society thinn tho Europeans during the period under review.
The people, the moit numerous, as well as the most uscful class of the commonity, were either actual slaves, or exposed to so many miseries, arising from pillage and oppression, to one or other of which,they were a continuml prey, and often to both, that many of them made a voluntary surrender of liberty for bread and protection. What must lave been the state of that goveriment where slavery was an eligible condition? But, conformable to the observation of the philosoplic Hume, there is a point of depression as well ns of exaltation, beyond which human affairs seldom pass, and from which they nituratty return in a contrary progress. This utmost point of decline society seems to have attained in Europe, as we have already said, about the middle of the tenth century : when the disorders of the feudal goverament, together with the corruption of taste and marmers consequent upon these, were arrived at their greatest excess. Accordingly, from thit crab ve cain trace is succession of canses and events, which, writh different degrees of inffuence, contributed to abolish anarclyy and barbarism, and introduce order and politeness.

Among the first of these causes we must rank chivalry ; which, as the elegant and inquititive Dr. Pobertson remarks, though commonly considered as a wild institution, the result of caprice, and the source of extravagance, arose naturally from the state of society in those tinues, and had a very serious effect in rofiuing the manuers of the

European nations. The feudal stare, as has been observed, was a state of perpetial war, rapine, and anarchy. The weak and unarmed sere exposed every moment to insuits, or injuries. The power of the sovereign was too limited to prevent these wrongs, and the legislative wathority too feebie to redress them. There was scarce anys shelter from violence and oppression, except what the vatour and generosity of privete persons afforded, and the arm of the brave was the only tribunal to which the belpless could appeal for justice.

The trader could no longer travel in safety, or bring unmolested his commodities to market. Every possessor of a castle pilaged them, or laid them under contribution ; and many not only plandered tho merchants, bnt carriod off all the women that fell in their way. Slight incomveniences may be overlooked or endured, but when abuses grow to a certain height, the society must reform or go to ruin. It becomes the business of all to discover, and to apply such remedies as witl most effectually remove the prevailing disorders. Humnnity sprung from the bosom of violence, and relief from the hand of rapacity. Those licentious and tyranmio nobles, who had been guilty of every species of outrage, and every mode of oppression ; who, equally unjust, unfeeling, and superstitious, had made pilgrimages, and had pillaged! who had massacred, and done penance! touched at last with a sanse of natural equity, and swayed by the conviction of a common interest, formed associations for the redress of private wrongs, and the preservation of public safety. So honourable was the origin of an institution generally represented as whimsical.

The young warrior among the antient Germains, as well as among the modern knights, was armed, for the first time, with certain ceremonies proper to inspire martial ardour; but chivalry, considered as a civil and military institution, is as late as the eleventh century.

The previous discipline and solemmities of initiation were many and singular. The novice in chivalry was educated in the house of some knight, commonly a person of high rank, whom be served first in the character of page, and afterwards of squire; nor was he admitted to the supreme honour of knighthood, until he had given many striking proofs of his valour und address. The ceremony of intilition wis very solemin. Severe fastings, and nights spent in a church or chapel in prayor; confessions of sins, and the receiving of the sacraments with devotion; bathing and putting on white robes, as emblems of that purity of manners required lay the laws of chivalry, were necessary preparations for this ceremony. When the candidate for knighthood had goine tirough all these, and other introductory formalities, be fell at the feot of the person from whom be expected that honour, and on his knees delivered to him his sword. Atter answering suitable questions, the usual oath was administered to him; namely, to serve his prince, defend the faith, protect the persons and reputations of virtuous ladies, and to rescue, at the hazard of his life, widows, orphans, and all unhappy persons groaning under injustiec or oppression. Then the knights and Indies, who assisted at the ceremony, adorned the canditate with the armour and ensigns of chivalry, beginning with putting on the spurs, and ending with girding him with the sword. Secing him thus accoutred, the king, or nobleman, who was to confer the honour of knighthood, gave him the ac-

## EUROPE

colade, or dubbing, by three gentle strokes with the flat part of his sword on the shoulder, or with the palm of his hand on the neck, saying, " In the name of God, St. Michael, and St. George, I make thee a knight! Be thou loyal, brave, and hardy."

Valour, humanity, courtesy, jnstice, honour, were the characteristics of chivalry, and to these were added religion; which, by infosing a large portion of enthuslastic zeal, carried them all to a romantic excess, wonderfally suited to the geaius of the age, and productive of the greatest and most permanent effeets both upon policy and manners. War tras carried on with less ferocity, when humanity, no less thăn courage, came to be deemed the ornament of knighthood, and knighthood a distinetion superior to royalty, and an honour which princes were proutd to receive from the hands of private gentiemen ; more gentle and polished manners were introduced, when courtesy was recommended as the most amiable of knightly virtues, and every knight devoted himself to the service of some lady; and violence and oppression decreased when it was accounted meritorious to check and to punish them.

A scrupulous adherence to truth, with the most religious attention to fulfil every engagement, but particularly those between the sexes, as more casily violated, became the distinguishing character of a gentleman, because chivalry was regarded as the school of honour, and inculcated the most delicate sensibility with respect to that point. And valour, seconded by so many motives of love, religion and virtue, became altogether irresistible.

But the beneficial effeets of chivalry were strongly counteracted by other institutions of a less social kind. Some persons of both sexes, of most religions, and most countries, have, in all ages, secluded themselves from the world, in order to acquire a reputation for superior sanctity, or to indulge a melancholy turn of mind, affecting to hold converse only with the divinity. The number of these solitary devotees, however, in antient times, was fow ; and the spirit of religious seclusion, among the heathens, was confined chicily to high southern latitudes, where the heat of the climate favours the indolence of thie cloister. But the case bas bieen very different in more modern ages : for although the inonastic life had its originamong the Christians in Egypt, Syria, and Palestine, it rapidly spread, not onily over all Asit and Africa, but also over Europe, and penetrated to the most remote corners of the North and West, alouost at the same time that it reached the extremities of the East and South; to the great hurt of population and industry, and the obstruction of the natural progress of society. Nor were these the only consequences of the passion for pious solitude. As all who put on the religious habit, after the monastic system was completely formod, took a vow of perpetual chastity; the commerce of the sexes was represented by those holy visionarics as inconsisteat with Christian purity; and the whole body of the clergy, in order to preserve their influence with the people, found themselves under the necessity of professing a life of celibacy. This condescension, which was justly considered as a triuruph by the monks, increased their importance, and auguented the number of their fraternities. Nothing was estermed so meritorious, during the perioi under review, as the building and endowing of monisteries. And muttitudes of men and women of all conditions, but ese pecially of the higher ranks, considering the pleasures of society as seducers to the pit

## EUROPE.

of destruction, and surning with horror from sensoal delight, retired to friountains and deserts, or crowded into cloisters ; where, under the notion of mortifying the body and shutting all the avenues of the soul against the allurements of external objects, they affocted an austerity that gained them universal veneration, and threw a cloud over the manners of the Christian world.

- Mankind are no sooner in possession of the conveniences of life, than they begin to aspire after its elegancies. About the beginning of the fourteenth century, such a taste became general' in Europe. The Italian cities, which had early acquired liberty, and obtained municipal charters, carried on, at that time, a flourishing trado with India, through the ports of the Red sea. They introdhced into their own country minufactures of various kinds, and carried them on with great ingemuity and vigour, In the manufactures of silk in particular, they made so rapid a progress, that, about the middle of the fourteenth century, a thousand citizens of Genoa appeared in oue procession, clad if silk robes. They attempted new arts ; among which may be numbered the art of taking impressions from engravings on plates of copper, the manufacture of crystal glass for mirrors, of paper made of linen rags, and of earthen ware in imitation of porcelain: And they imported from warmer climates the art of raising several natural productionsy formerly imknown in Europe, which now furnish the materials of a lucrative and exd. tended commerce ; particularly the culture of silk, and the plantation of the sugar-cane, originally the prodace of Asia, and esteemed peculiar to the Fast. The sugar-cane was transplanted from the Greek islands into Sicily, from Sicily into Italy from Italy into Spain, and from Spain and Portugal into the newly discovered islands in the Westera ocean.

The discovery of those islands, and also of the American continent, was the effect of another modern invention, namely, the mariner's compass ; which, by rendering navigntion at once more secure and more adventurous, facilitated the intercourse between renoto nations, and may be said to have brought them nearer to each other. Commeree, during the fourteenth and fifteenth centuries, was by no means confined to the Italias states.

Flanders had long bren as famous for the manufacture of linen and woollen cloth, as Italy was for that of silk. All the wool of England, before the reign of Edward III. except a small quantity wrought into coarse cloths for bome consumption, was sold to the Flemings or Lombards, but chiefly to the former, and manufactured by them; and it was not till the middle of the fifteenth century (so late were our ancestors of availing themselves of their natural commercial advantages 1 ) that the English were capable of fabricating cloth for foreign markets. Bruges was at once the staple for English wool, for the woollen and linen manufactures of the Netherlands, for the naval stores and other bulky commodities of the North, and for the precious commodities of the East, as well as domestie productions, carried thither by the Italian states. It was the greatest emporium in Europe. Nothing so much advances society as an intercourse with strangers. In proportion as commerce made its way into the different countrios of Europe, they successively turned their attention to those objects, and adopted those manners which occupy and distinguish polished nations. Accordingly we find the

## EUROPE:

Italmans and Mlemmgs taking the lead in the libenak as well as in the coumercinl arts, and exhibiting the first example of cultivated life. Painting and architecture were re-vived as Italy toward the end of the thirtecnth century. They continued to make rapid progress under different masters, and were both carried to perfection during the period under review. Tapestry, then in bigh estimation; had long been manufuctured, with the greatest ingemuity in the Low Countries; and the Flemings, in their turn, becamo puinters and architects, before the rest of Europe were furnished with the necessary arts: Ghent and Bruges, Venice and Genoa, were splendid cities, adoried with stately buildings, while the inlabitants of London and Paris lived in wretehed cottages, without so much as a climney to carry up the sutoke. The fire was made on the ground in tho middle of the apartinent, and all the fumily' sat round it, like the Laplanders in thein huts. This rade method of building and living continued to be. common in considernble towns, both in France and England, so late as the boginning of the sistecath century.

Learning and politeness are suipposed to keep pace with each ofther. But this observation seems to have been made without due attention, to have been formed into a maxim by some dogmatist, and implicitly adopted by succeeding writers; for if applied to the abstract sciences, it seems equally void of foundation, whether we consider the fact itself, the nature of those seicuces, or the manners of the literati in different ages Politeness arises from the habits of social life, and the intercourse of men and nations; it is, therefore, more likely to accompany commerec than learning. But it must be ald lowed, at the same time, that manners receive their last polish from works of imagination and sentiment, which soften the mind by pictures of natural and moral beauty, and dispose it to tenderness and social affection. The first permanent step towards the revival of letters in Europe, was the erection of seliools under lay preceptors. Alfred and Charlemagne, those carly luminaries of the modern world, had shed a temporary Iustre oven the ages in which they lived. They had encouraged leparuing both by their example and patronage, and sorve gleams of genius began to break forth; bat the promising dawn did not arrive at perfect day. The sciools erected by these great monarchs were confined solely to the churches and monasteries, and monks were almost the only instruetors of youth. The contracted idens of such men, partly arising from their mode of life, partly from their religious opinions, made them utterly ufifit for the communication of liberal knowledge. Science, in their hands, degenerated into a barbarous jargon, and gecuius again sunk in the gloom of superstition. A long night of ignorance succeeded. Learning was considered as dangerous to true piety, and darkness was necessary to hide the usurpations of the elengy, who were then exalting themselves on the ruins of the civil power. The antient poets and orators were represented as seducers to the path of destruction. Virgil and Horace were the pimps of hell, Ovid a lecberous fiend, and Cicero a vain declaimer, fimpiously elated with the talent of beathenish reasoning Aristotle's logic alone was recommended, because it was found capable of involving the simplest arguments and perplesing the plainest truths. It became the universal science; ; and-Europe, for ulmost three centuries, produced no coupposition that ean afford pleasure to a classical reader. Incredible legends, unedifying homilies, and
trite expositions of scripture, were the only labours of the learned during that dark period.

But the gloom at last began to disappear, and the sceptre of knowiedge was wrested from the hand of superstition. Several enlightened persons among the laity, who had studied under the Arabs in Spain, undertook the education of youth about the beginning of the eleventh century, in the chief cities of Italy; and atterwards in ihose of France, England, and Germany. Instruction was communicated in a more rational manner : more numerous and more useful branches of science were taught ; a taste for anticnt literature was revived; and some Latin poems were written, before the close of the tivelfth century, not unworthy of the latter times of the Roman empire - The buman soul, during this period, seems to have roused itself, ns from a lettiargy. The same enthusiasm which prompted one set of men to signalize their valour in the Holy Land, inspired another with the ardour of transmitting to posterity the gallant actions of the former, and of animating the zeal of those pious warrions, by the fabulous adventures of former Christian heroes. -These performances were composed in verse; and several of them with much elegance, and no small degree of imagination. But many bars were yet in the way of literary refinement. The taste of the age was too rude to relish the beauties of classical compasition : the Latin language, in which all science was conveyed, was but imperfectly known to the bulk of readers; and the scarcity of parehment, together with the expence of transcribing, readered books so extremely dear, as to be only within the reach of few. Learning, however, continued to advance, in spite of every olstruction; and the invention of paper in the fourteenth century, and of printing about the middle of the fifteenth, made knowledge so general within a centary after, that Itily began to compare, in arts and in letters, ber modern with her antient state, and to contrast the age of Leo X. with that of the second Ceesar. From these new manners arose a new species of composition, namely, the romance, or modern heroic fible. It was originally written in verse; and, by giving a new direetion to genius, banished for a time that vein of antient poetry, which had been so successfully revived and cultivated during the eleventh and twelfth centuries. Mordern poetry, however, lost nothing by this relapse. Had classical taste and judgnent been so early established, imagination must have suffered: truth and reason, as an ingenious writer observes, would have chased before their time, those visions of illusive fancy which delight to hover on the gloom of superstition, and which form so considerable a part of our polite literature. We should still have been strangers to the beautiful extravagancies of romantio fabling. This new species of composition took its rise in the thirteenth century, among the troabadours or minstrels of Provence; and was originally writen in the Provencal dialect, then the most polished and universal of any modern tongue. These troabadours, who scem to have been the lineal sucecssors of the Celtic bards, had followed in crowds to the Holy Land, the princes and nobles by whom they were patronised. They had seen the riches and splendour of the oriental cities, and the pomp of oriental princes; they had beheld the greatest scene of war that modem times had yet extibited. They had seen the combined armies of Europe and of Asia encamp in the plains of Palestine; they bad also seen them engage. Their imagination was inflamed by the sufimptuous

## EUROPE.

equipages, gorgeous bamers, armorial cognizances, and grand pavilions, in which the champions of the cross strove to excel each other; but still more by the enthusiastic valour of the combatants. They had seen many wonderful things, and heard many marvellous tales; and they gave to the whole, on their retum, the colouring of poctic fincy, heightened by all the exaggerations of Asiatic imagery, and filled with all the extravigancies of Asiatic fiction.

The ignorance and credulity of the age, the superstitious rencration paid to the Deroes of the crusades, the frighiful ideas formed of the infidels, and the distance of the) egontry, made the wildest conceptions of the poet be reeefived with aill the avidity of truth. The roruance became the fivorrite mode of composition ; and as every linglon in Europeshad its valorous knights, every kingdom soon had its romances; and every romance was nearly the same. Whether the sceno was laid in antient or in modern times, in Spain or in Syrin, the same set of ideal beings were introduced, the same kind of plot was pursued, and the same manners were painted. A lady miraculously fair and chaste, and a knight more than humanly brave and constant, encountering monstens, and resisting the atluremonts of enchantresses, formed the ground-work of all those unaturat compositions.

Modern poetry, however, did not long' remain is this ride state. The romance, which had its rise in the manners of chivalry, and which rendered tivem still more romantic, fell into disrepute as soon as those mamers began to decline. It was succeeded by the allegorical tale; in which the virtues and vices, appetites and passions, took the place of human beings, and were made subservient to the design of the poet. This shadowy production was followed by the Italian epic ; which, like the heroic poem of flie Greeks, consists of a compound of mortal, immortal, and allegorical personages. Dante, Ariosto, and Tasso, are supposed to have carried it to perfection.

No sooner had the affairs of Europe become a little tranquil, than they were disturbed by the preaching of the crusades of warlike expeditions, which were undertaken to recover the land of Palestine from the dominion of the Saracens. During the eleveath, twelfth, und thirteonth centuries, they were persecuted with all the fury of religious anlipathy, druined Europe of blood and treasure, and covered the shores of Asia with carnage and desolation.

Hitherto our attention has been principally directed to the gradual operation of thoso more secret causes which at length effeeted the civilization of Burope, but we must now recont events of a political nature, by which the progress of society was in some instances retarded for a time, but in all ultinately promoted. It has been already linted that the conquerors of Roman Europe were soon brought to embrace the religion of the conquered, and from being the zealous and superstitious votaries of Odin, became equally zealous, and equally superstitious in their attachment to the cross. Humainity was on the whole a gainer by this change. It is impossible to degrade the Christian religion so low, or to pollute it so totally, but it must still be fuond more friendly to mency, tempernace, and many other virtues, than the savago mythology of the worth, which taught men to expect their immortal felicity in drinking beer and mend out of the skulls of their enemies.

- Vot. I. I


## EUROPE.

The condition of the conquered must be considerably ameliprated, when the fieree victors were disposed to acknowledgo them their superiors in knowledge, and their tar. thcrs in the faith. These benefits, and the evils with which they were accompaniof, were experieneed in France, Spain, and Italy in the fifth century, and in England, now occupied by the Saxons, in the eighth. Fach of these kingdoms was divided into minny small states, almost independent of each other, nud continuel for the two or three suicceeding centuries the theatre of a succession of civil commotions.

A heary storpu was now collecting, ready to burst on the south of Rurope. Mabonf, who erected a spiritunl and temporal monarchy at Mecea, died in 659, and his cozituy men, tho Arabs or Saracens, soon after over-ran great part of Asid, and ail that part of Africa which was under the Roman dominiog. 'From Africa they passed over to Spaia, and in the year 712 the deci-ivo battle of Xeexes put an end to the curpire of the Visigoths. Here they soon began to cultivite the arts of peace, and founded so many schools, mosques, and palaces, that Spain might be justly considered as one of the thost highly civilized portions of the globe.

Meantime the more resolate of the Christians retreated to the mountains, and there began the little kangloms of Oviedo, Leon, Armgon, Navarre, and Castile. The Mahometan empire became divided into many independent principalities, and toth Clrin tians and Arabs were agitated for many ages by too many civil contentions to ennible either to make a final conquest of the other.

While Spuin was thas bleeding under the sword of the Aribs, Italy was comvelsed by the ambition of the bishops of Rome. About the middie of the eighith century thacy withdrew their atlegiance from the emperor of Constantinopic, and in the begiuning of the ninth became possessed of a considerable temponal territory. From that time the popal power may be considered as of tro kinds, the one the dominion of a prince oter that part of Italy which is called the state of the church, and the other, that of un universal bishop of all those countries which have embraced the catholic religion.
About the same time that the pope became an independent prince, an etmpire was erected which was highly serviceable to his purpose. The first rare of French king thad, in the eighth century, lost so much of their influenee as to lecome dependent oit thie mayors of France, who enjoyed all the power of royalty without the ensigns nund the name.
Pepin, in 751, laid aside even this mask of subjection, deposed his master, and, wits the approbation of the pope, assumed the title of the king of France. His son Charictwagne was a wise and valiant prinee, equally eelebrated for his sucectsful cainpaigsts, his munificent encouragement of leaming, and hiv zeal for the catholic faith. He possessed all Prance, Germany, part of Hungary, part of Spain, the Low Countrics, and th: continent of Italy, as far as Benerento.

His smis, among whom he divided his empire, had not the abilities of tieir father, so that, after a serics of wars, conspinacies, and murdens, it became extinct townand the latter end of the tenth century. The German empire was henceforth governed by native princes, and the fanily of Capet was established on the throne of France:

The northern countias jet remained unconquered and uncivilized, and sometincs
poured forth their numbers under the denominations of Danes, Norwegians, and Xormains, to desolate the most cultivated parts of Europe. Those troubles were, hotrever, brought to a termination about the end of the eleventh century, before which time the soveral colonies of Normans, as well as theic countrymen who remained behind in Sireden, Norway, ant Demmirk, assumed thic Cliristiun name. Puland and Hungary hind already set them the exarmple; but Prussia remained pagan till it was subdued by the Tentonic knights, objout the year 1300.

Yet these romantic expeditions, though barbarous and destructive in abemselves, were follio ed by many importiont consequences, equally conducive to the welfare of the commumit fand of the indivilual. Alt adventurers who assumed the cross being taken under the immediate protection of. the chusch, and its beaviest anathemas denounced ugainst such as should molet their persons or their property; private hostilities were for a time suspended or extinguished: the feudat sovereigns became more powerfal, and their vassals less turbulent ; a more steady adarinistration of justice was introduced, and some advances wero made towards regutar goveriment.

The commercial effects of the crusades were no less considerable than their political inlluenecs. Many ships were necessary to transport the prodigious armies which Europe poured forth, and also to supply them with provisions. These ships were principitly fumished by the Venetians, the Pisans, and the Genoese; who acquired, by that service, immense sums of money, and opened to themselves, at the same time, a new source of wealth, by importing into Europe the commodities of Asia. A taste for these commodities became general. The Italian citics grew rich, powerful, and obtained extensive priviteges. Some of them erected themselves into sovercignties, others into corporations or independent communities ; and the estal)lishment of those communities may be considered as the first great step towards civilization in motern Europe.

The feodal goverament had degenerated into a system of oppression. The nobles had reduced the grent body of the people to a state of actual servitude, and the corldition of those denominated free was little, if at all, more desirable. Not only the inhabitants of the country, but even whote cities and villages, held of some great lord, on whom they depended for protection; and the citizens were no less subject to his arbitrary jurisdiction, than those employed in cultinating the estates of their masters. Scrvices of various kinds, equally disgraceful and oppressive, were exacted from them, without mercy or moderition ; and they were deprived of the most mataral and unalienable rights of humanity. They could not dispose of their effects by will, appoint guardians to their children, or even marry, without the consent of their superior lord. Men in such a condition had feiv motives to industry. Accordingly we fiod all the cities of Europe, before their enfranchisement, equally poor and wretched. But no sooner were they formed into bodies politic, governed by magistrates chosen from among their own meinbers, than the split of industry revived, and commerce began to flourish.

Population increased with independency; the conveniences of life, with the means of* procuring them ; property gave birth to statutes and regulations; a scene of common

## EUROPE.

intereat enforced them; and the more frequent oecasions of intercourse aumong fern and kingdoms, gradually led to a greater refinement in manners, and tended to wear off those national and local prejudices which create dissension and animosity between the inliabitants of different states and provinces. The manner in which these immunities were obtained was different in the different kingdoms of Europe. Some of the Ttalian cities acquired their frecdom by arms, others by money: and in France and Germany, many of the great barons were glad to sell charters of liberty to the towns within their jurisdiction, in prder to repair the expence incurred by thie crusades. The sovereigy also granted, or sold, like privileges to the towns within the royal domain, in oryp to create some power that might counterbalance their potent vassals, who often gave fuw to the crown. The practice quickly spread over Europec; and before the end of the thirteenth century, its beneficial effects were gonerally felt.

These effects were no less extensive upon government than upon mannens. Selfpreservatiou had obliged every man, during several centuries, to coust the patronage of some powerful baron, whose castle was the common asylum in times of danger; but towns surrounded with walls, and filled with citizens trainal to arms, bound by interest, as well as the most solemn engigements, to proteet each other, afforded a more commodious and secare retreat. The nobles became of lass importance, when they ceased to be the sole guardians of the people; and the crown acquired an increase of power and consequence, when it no longer depended eatirely upon its great vassals for the supply of its armies. The cities contributed liberally towards the support of the royal authority, as they regarded the sovereigis as the authors of their liberty, and their protectors against the donincering spirit of the nobles. Hence another consequence of corporation charters:

The inhabitants of cities having obtained personal freedom and municipul jurisdiction, soon aspired at civil liberty and political power. And the sovereigns, in wost kingdoms, found it necessary to admit them to a share in the legislature, on account of their utility in raising the supplies for government ; it being a fundamental principle is the feudal policy, that no free man should be taxed but with his own consent. The citizens were now free, and the wealth, the power, and the consequence which they acquired on their recovering their liberty, added weight to their claim to political eminence, and seemed to mark them out as an essential branch in the constitation. They had it much in their power to supply the exigences of the crown, and also to repress the encroachments of the nobles. In England, Germany, and even in France, the representatives of communities accordingly obtained, by different means, a place in the national council, as early as the begianing of the fourteenth century. Thus an intermediate power was established between the king and nobles, to which each had recourse alternately, and which sometimes opposed the one, and sometimes the other. It tempered the rigour of aristocratical oppression with a misture of popular liberty, at the sume time thint it restralned the usurpations of the crown; it secured to the great body of the people, who had formerly no representatives, active and powerful guardians of their rights

- and liberties ; and it entirely changed the spirit of the laws, by introducing into the statates, and the iurisprudence of the Eoropeau nations, ideas of equality, order, and


## EUPOPE:

public good. To this new power that pirt of the people still in servitade, the vassals who resided in the country, and were employed in agriculture, looked up for freedom. Thoy obtained it, though contrary to the spirit of the feudal polity. The odious names of master and slave were abolished. The husbandinan became farmer of the same fields which he had formerly been compelled to cultivate for the benefit of another. He reaped a share of the fruit of his own industry. New prospects opened, new incitentents were offered to ingenuity and enterprize. The activity of genias was awakened ; and la numerous class of active and industrious men, who formerly had no political esistence, were restored, to society, und augmented the force and riches of the state. The second great advance which society made during the period under review, was an approach toward a more regular administration of justice. The barbarous nations who over-ran the Roman empire, and setted in its provinces, rejected the Roman jurisprudence with the same contempt they had spurned the Roman arts. Both respected objects of which they had no conception, and were adapted to a state of society with which they were then unaequainted. But as civilization advanced, they became sensible of the imperfection of their own institutions, and even of their absurdity. The trial by ordeal, and by duel, was abolished in most countries before the end of the thirteenth century, and various attempts were made to restrain the practice of private war; one of the greatest abuses in the feudal polity, and which struck at the foundation of all govermment. When society was thus emerging from barbarism, and men were become sensible of the necessity of order, a copy of Justinian's Pandects was discovered at Amalphi, in Italy; and although the age had still too little taste to relish the beauty of the Roman classics, it immediately perceived the merit of a system of laws, in which all the points most interesting to mankind, were settled with precision, discernment, and equity. All men of letters were struck with admiration at the wisdom of the antients : the Justinian code was studied with eagerness; the professors of civil law were appointed, who taught this new science in most countries of Europe.
The effects of studying and imitating so perfect a model were, as might be expected, great. Fixed and general laws were established; the principles and the forms by which judges should regulate their decisions were ascertained; the feudal law was reduced into a regular system : the canon law was methodised; the loose uncertain customs of different provinces or kingdoins were collected and arranged with order and accuracy. And these improvements in the system of jurisprudence had an extensive influence upon society. They gave rise to a distinction of professions. Among rude nations no profession is honourable but that of arms; and, as the functions of peace are few and simple, war is the only study. Such had been the state of Europe during several centuries. But when law became a science the knowledge of which required a regular course of studies, together with long attention to the practice of courts, a new order of men natarally acquired consideration and influence in society. Another profession be--side that of arms was introfluced, and reputed honourable among the laity : the talents requisite for discharging it were culivated; the arts and virtues of peace were placed in their proper rank; and the people of Europe became accustomed to sce men rike

[^4]
## EUROPE

to eminence in a civil as well as military employment. The study of the Roman law had also a considerable influence upon letters. The knowledge of a variety of sciences became necessary, in order to expound with judgment the civil code; and the same. passions which made men prosecute the juridical science with so much ardour, made thein anxious to exeel in every branch of literature. Colleges and universities were founded, a regular course of studies was planned, and a regular set of professors established. Privileges of great value were conferred upon masters and scholars; acadejmcal titles and honours were invented, as rewards for the different degrees of literary eminence; and an incredible number of students, * allured by these advantages, resorted to the new scats of learning. But a false taste unbappily infected all those seminaries which is thus ingeniously accounted for by a learued and inquisitive writer. Most of the persons who attempted to revive literature in the twelfth and thirteenth centuries had received instruction, and derived their principles of science from the Greeks in the Eastern empire, or the Arabs in Spain and Africa. Both these people, acute and inquisitive to excess, corrupted the sciences which they cultivated. The Greeks rendered theology a system of speculative refinement, or endless controversy, and the Arabs communicated to philosophy a spirit of metaphysical and frivolous subtlety. Misled by these, guides, the persons who first applied to science were involved in a maze of intricate inquiries. Instead of allowing their fancy to take its natural range, and produce such works of elegant invention as might have improved the taste, and refined the sentiments of the age ; instead of cultivating those arts which embellish human life, and reuder it delightful, they spent the whole force of their genius in speculations as unavailing as they were difficult.

But fruitiess and ill directed as these speculations were, their novelty roused, and their boldness engaged the human mind: and altheugh science was further circumscribed in its influence, and prevented, during severalages, from diffusing itself through society, by being delivered in the latin tongue, its progress deserves to be mentioned as one of the greatest causes which contributed to introduce a change of nianners into zuodern Europe. That ardent, though mistaken spirit of enquiry which prevailed, put ingenuity and invention in motion, and gave them vigour : it led men to a new employment of their facultics, which they found to be agreeable as well as interesting; it accustomed them to exercises and occupations, that tended to soften their manners, and to give them some relish for those gentle virtues, which are peculiar to nations among whom science has been successfally cultivated.

It has been observed that the irruptions of the christians into Asia, though occasioned by the mere fury of fanaticism, and accompanied with acts of the most atrocious eruelty, had nevertheless some beneficial effects on the state of society in Europe; but the reader is little prepared to admit, that an irruption of the Turkish barbarians into Europe should be ultimately conducive to the same important purpose. Othman, from whom the present sultans descended, and to whom the Ottoman empire owes its establishment, fixed the seat of his government, at Prusa in Bithynia, about the begioning of the fourteenth century. His son, Orcan, advanced as far as the borders of the Pro-
pontis, and Amurath, the son of Orcan, numbered the emperor of Constantinople among his tributaries

The succeeding sultan Bajazet had laid siege to Constantinople, and had evidently reduced it to the brink of ruin, wheu he raised the siege to encounter Tamerlain the great, emperor of Tartary, was defeated and ended his days in inglorious captivity.

The progress of the Turkish arms was now for some years repressed by the contentions of the sons of Bajazet, and afterwards by the valour of Hunniades and Seanderbeg: but they were again attended with victory in the latter part of the reign of Amurat the second, and more especially in that of Mahomet his successor.

Though Mahomet II. was only twenty-one years of age when he ascended the Ottoman throne, he had already conceived the design of making Constantinople the seat of his empire, and nothing could divert him from his purpose. If he sometimes seemed to listen to terms of accommodation, it was only that he might lull his enemies into security, while he carried on his military preparation with unremitted assiduity. At last he cut off all communications with the city, both by sea and land, and laid siege to it in form. It was defended with the most desperate valour by the greeks, but at length the heavy cannon and better fortune of the Ottomans prevailed, the city was taken by storm, and Constantine, its last christian emperor, fell valiantly fighting among a croud of his countrymen.

During the three days and three nights in which the city was given up to plunder and massacre, many of the greeks escaped on board five ships which lay in the harbour. Ainong these unhappy refugees were many very learned men, who settled in Italy, and there revived the stady of the greek tongue, as well by teaching that language, as by furnishing latin translations and notes to the classics. While the exiles were thus employed in reviving greek literature in Italy, a few dutch and german workmen were labouring with assiduity and success in bringing the art of printing to its present perfection. The first rudiments of printing appear to have been imported from China, but the invention of moveable types is generally ascribed to Laurentius, a gentleman of Haerlem. It is said that walking in a wood near that city, be cut some letters on beach, which for fancy-sake being impressed upon paper, he printed two or three lines as a specimen for his grandchildren to follow. These having happily succeeded, he meditated greater things, and first of all, with his son-in law Thomas Peter, invented a more glutinous ink, because he found the common ink sunk and spread, and then formed whole pages of wood with letters cut upon them. He printed only on one side of the leaf, the backside of the pages being pasted together, that they might not by their nakedness discover their deformity. When Laurentius first devised this rough specimen of the art can only be guessed at. He died in 1440 having published the Speculum Belgicum and two editions of Donatus, all with different wooden types, which it is probable (considering the difficulties he had to encounter, and the many artists he had occasion to consult) cost him some years to execute; so that this first essay might be about 1430 . Some of Laurentius' types were stolen from him by one of his servants who fled with them to Mentz. Here a partnership was formed between Fust (who is
called Dr. Faustus) and Geinsfleg, who carried on the printing business in concert, and were joined in 1441 by Gutenburgh, the brother of Geinsfleg, from Strasburght. Finding that wooden types were not sufficiently durable, they invented large cot metal types, with which they printed the bible in 1450 . A few years after Peter Schoeffer, of Gernspeim, found out the method of cutting the characters in a matrix that the letters might be easily cast instead of being cut. Fust and Schoeffer concealed this improvement, by adminisfering an oath of secresy to all whom they entrusted, till the year 1462 , when by the dispersion of their workmen at the saeking of Mentz, the invention was publicly divulged. From this time printing madee a rapid progress in most of the principal towns in Europe; and by the middle of the next century had spread itself to Africa and America.

When the way was thus prepared for a further revival of learning, a race of men appeared, who have since been ridiculed under the appellation of crities, but were in reality the ornaments of the age in which they flourished, and well deserved to be honoured by all succeeding generations. It was well known that many valuable productions of the antients had been preserved in the libraries of abbeys and colleges, and now that the invention of printing had furnished an easy method of multiplying copies, it became desirable that these treasures of wisdom should be laid upen to the world. The critics were well fitted to render this service to mankind. Abstracted from the business as well as the amusements of life, they laboured in collecting manuscripts, in elucidating their obscure passages, and in some instances, in superiptending the publication of the scriptures, the fathers, and the classics.

The attention of the learned was now drawn to the antients, who were studied and imitated with such astonishing ardour, that the reign of Leo X. was considered as the third golden age of learning. The poets Tasso, Ariosto, Sunnazanius, and Vida; the historians, Machiavel, Guieciardini and Paul Jovius : Erasmus the celebrated critic and fine writer ; and the painters, Raphael, Angelo and Titian, are names well known and highly esteemed by all the friends of literature and taste. Plilosophy was only wanting in the sixteenth century to bring Italy into comparison with antient Greece, when Greece was in her glory.

As the bishops of Rome enjoyed the greatest prosperity when the sciences were almost unknown, and learning confined to an unintelligible jargon, that was named philosophy; so the age of Leo, when the empire of ignorance was overturned, was also the age of reformation, that gave popery a wound from which it is not likely ever to recover. The pope had now in the most audacious manner declared bimself the sovereign of the whole world. All the parts of it which were inhabited by those who were not christians, he accounted to be inhabited by nobody; and if christians choose to possess any of these countries, he gave them full liberty to make war upon the inhabitants, and to treat them with no more humanity than they would have treated widd beasis. The countries if conquered were to be parcelled out according to the pope's, pleasure : and dreadful was the situation of that prince, who dared to dispute his will. Every thing was quiet, the Waldenses, Albigenses, Lolards and Hussites seemed at-
tnost extinet, and the whale elristian world supinely acquiesced in the enormous ahsurdities that were imposed upon them, when in 1517 the empire of superstition was suddenly shaken, and his ever since continued to decline. The person who made the first attack on the extravagant superstitions that prevailed was Martin Luther, professor of theology at Witteoburg, on the Elbe ; where a university had been founded by Fre? deric, electon of Saxony. He first inveighed against indulgeaces from the pulpit, and afterwards published ninety-five thesis on the subject. At first, however, he professed great deference for the see of llome ; but in 1590 began to avow his doubts respecting the divine origin of the papal authority, and soon after declared the pope to be that antichrist, or man of sin, whose appearance is foretold in many passages of the new testament.

The reformation having thus begun at Wittemburg, was not long confined to that city, to Saxony, or to the empire. In 1520 the franciscan friars, who had the cara of promulgating indulgences in Switzerland, werc opposed by Zuinglius, a man not inferior in knowledge to Luther himself. He procseded with the greatest rigour, evea at the very beginning-to overturn the whole fabric of popory. The magistrates of Zu rich approved of his proceedings ; and that whole canton, together with those of Bern, Basil, and Schafhausen, embraced his opinions. In 1527 the states of Sweden publicly renounced the religion of Rome, and in 1539 their example was followed by those of Denmark. In the mean time several princes of the empire received the appellation of protestants; and after a long war, undertaken to defend their religious and civil liberties, againat Charles V. had their clains coufirmed by the Diet of Augsburgh, which was beld in 1555.

In the reign of Elizabeth the reformed religion was finally eatablished in Engiand, Scotland, and Ireland; and lastly in the united provinces, as soon as they were able to shake off their dependance on the crown of Spain.

The beginaing of the sixteenth century is not more remarkable for the revival of letters, and the reformation of religion, than for the new system of policy which then began to be adopted. Hitherto each state depended cbielly on itself, and pursued its own separate interests ; but from this time it became usual for nations, which were not themselves attached, to unite their forces with the vanquished party, in order to prevent the conqueror from accomplishing the destruction of his rival. To record the various instances in which the liberties of Europe have been endangered, and in which this system of policy has been recurred to with success, would oblige us to anticipate many things, which we shall have occasion to record in the progress of this work; we shall, therefore, in this place, only mention three of the most remarkable of these eras. They are each of them ages of high civilization, and whoever does not study them with attention will read modern history with very trifling advantages. The first is the reign of Charles V, the second that of Lewis XIV. and the third has commenced with the revolution in France.

Charles V. inherited the territories of three powerful sovereigns, his father Ferdinand, his mother Isabella, and his grandfather, the emperor Maximilian, The ex-

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## EURORE.

tensive dominions of the house of Austria, the rich sovereignty of the Netherlands, and Franche Compte; the entire possession of the great and warlike kingdom of Spain, together with that of Naples and Sicily, the newly discovered empires of Mexico and Peru, and lastly the imperial dignity, which was conferred on him on account of his ability to defend Europe against the infidels, all united to raise him to the highest rank among christian princes. Yet his ambitious designs were checked by France and Turkey, and more powerfully counteracted by his own love of popery and arbitrary power. Hence originated the german commotions, which ultimately increased the power of France and Sweden ; the loss of the Netherlands ; and the destruction of the Spanish Armada.

Lewis XIV. was a prince of like principles with Charles V. inferior to him in extent of dominion, but probably equal in strength, and certainly more successful in obtaining perminent advantages by arms or intrigue. Though opposed by a powerful confederacy, which stripped him of many of his conquests, he was permitted to seat his grandson on the throne of Spain, and thus unite the two kingdoms under the same family, though not under the same prince.

The events which have followed on the French revolution are so recent as to be fresh on the recollection of every reader. We have witnessed an enormous waste of treasure and of lives, and what would have appeared a paradox at any other time, have scen that very nation, whose blood and treasure have been thus profusely wasted, extend its command over all the neighbouring states, and become the arbitress of one half of Europe. The balance of power exists no longer. France has overturned it in the west, and Russia in the east. Where these disorders will end it is not easy to determine ; but it may be asserted, without any exaggeration, that the present juncture is more alarming than the ages of Lewis XIV. or Char.es V. Yet some consolation remains. Our own country still continues free and independant; science is daily advancing towards perfection ; christianity triumphs over the attack which was so long meditated against it, by the companions of Voltaire ; her influence is increased by the issue of the contest, and should she ultimately prevail so far as to govern the conduct of nations, we have no reason to doubt but peace and righteousness will follow in her train, and more perfect happiness, than has yet been tasted by men, be diffused over every habitable region of the earth.



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PART of the NATURAI HISTORY of ASIA.

## CHAPTER II.

## AsIA:-Its situation, mountains, rivers, productions, and inhabitants.

ASIA is bounded on the north by the Frozen Ocean, on the east by the Pacific, on the south by the great Southern and Indian oceans, and on the west by the Red Sea, Africa, the Mediterranean and Europe. It consists of a vast undivided continent; of the peninsulas of Kamtschatka, Korea, China, India, beyond the Ganges, Hindostan, Persia, Arabia, and of many thousand islands.

It is situated between 44, and 196 degrees of east longitude, and 1 and 74 degrees of north latitade. From the Dardanelles to the most eastern shore of Tartary, it is 4740 miles in length, and from the most southern point of Malacea, to the most northern point of Nova Zembla, it is 4380 miles in breadth.

Asia may be divided in the following parts; Turkey in Asia, Arabia, the Moguls Empire; with the peninsulas of the Indias; Thibet, China, and Korea; Great and Little Buckaria with Korasm: Tartary, Siberia and the islands. The principal languages spoken in Asia are the modern Greek, the Turkish, the Russian, the Tartarian, the Persian, the Arabic, the Malayan, the Chinese, and the Japanese. The European languages are also spoken upon the coasts of India and China.

A chain of mountains begins in Nova Zembla and stretches due south, to near the Caspian Sea, dividing Europe from Asia: about three or four tlegrees north of the Caspian Sea it bends to the south east, traverses'western Tartary, and passing between the Tengis, and Zaizan lakes, it then branches to the east and south. The castern branch runs towards the shore of Korea, and Kamtschatka. The southern branch traverses Turkeston and Thibet, separating them from India, and at the head of the kingdom of Ava joins an arm stretching from the great eastern branch, and here forms the centre of a very singular radiation. Chains of mountains iss $\mu$ e from it in every direction. Three or four of them keep very close together, dividing the continent into narrow slips, which have each a great river flowing in the middle, and reaching to the extreme points of Malucca, Cambodia, and Cochin-china. From the same central point proceeds another great ridge due east, and passes a little north of Canton in China. We called this a singular centre; for though it sends off so many branches, it is by no means the most elevated part of the continent. In the triangle which is included between the first southern ridge, (which comes from between the lakes Tanges, and Zaizan) the great eastern ridge and its branch, which almost unites with the southern ridge, lies the Bouten, and part of Thibet and the many little rivers, which occupy its surface, flow southward and castward, uniting a little to the north of the centre above mentioned, and then pass through a gorge eastward into China. And it is further to be observed that these great ridges do not appear to be seated on the highest parts of the country; for the rivers which correspond to them are at no great distance
from them, and receive their chief suppliesfrom the other sides. This is remarkably the case with the great Oby, which runs almost parallel to the ridge from the lakes to Nova Zeinbla. It receives its supplies from the east. The highest grounds (if we except the ridge of mountains which are boundaries) of the continent sem to be in the country of tho Calmucs, about $95^{\circ}$ east from London, and latitude $43^{\circ}$ or $45^{\circ}$ zorth. It is represented as a fine, though sandy country, having many little rivers which lose themselves in the sand, or end in little salt lakes. This elevation stretches north cast to a great distance; and in this track we find the heads of the Irtish Selenga and Tungustuaia, (the great feeders of the Oby), the Dlenitz; the Lena, the Yana, and some other rivers which all go off to the north. On the other side we have the great river Amur and many smaller rivers, whose names are not fumilian. The Hoango the great tiver of Clina, rises on the south side of the great eastern ridge we have so often mentioned. This elevation which is a continuation of the former, is somewhat of the same complexion, being sandy, and at present is a desart of prodigious extent. It is described, however, as interspersed with vast tracks of rich pasture, and we hnow that it was formerly the residence of a great nation, who came south, by the mame of Turks; and possessel themselves of most of the richest kingdoms of Asia. In the south western extremity of this country are found romains, pot only of barbaric magnificence, but even of cultivation and elegance. It was a profitable privilege, granted by Peter the Great to some adventurers, to search these sandy deserts, for remains of former opulence; and many pieces of delicate workmanship (though not in a style which we should adnire) in gold and silver were found. Vaults were discovered buried in the sand, filled with written papers, in a character wholly unknown; and a wall was found extending several miles built with hewn stone, and ornamented with corniche and battlements. But let us return to the consideration of the distribution of the rivers on the surface of the earth. A great ridge of mountains begins at the south east corner of the Euxiac Sea, and proceeds eastward, ranging along the south side of the Caspian, and still advancing, unites with the mogistains before mentioned in Thibet, sending off some branches to the south, which divide Persia, India, and Thibet. From the south side of this ridge flow the Euphrates, Tigres, Indus, Ganges, \&c. and from the north the antient Oxus, and many unknown streams. There is a remarkable circumstance in this quarter of the globe. Athough it seems to be nearest to the greatest elevation, it seems also to have places of the greatest depression. We have already said that the Caspian Sea is lower than the ocean. There is in its neighbourhood another great bason of salt water, the lake Aral, which receives the waters of the Oxus, or Gihon, which were said to have formerly run into the Caspian Sea. There cannot, therefore, be a great difference in the level of these two basons, neither have they any outlet though they receive great rivers. There is another great lake in the very middle of Persin, the Zara, or Zard, which receives the river Hindemend of near $\$ 50$ miles in length, besides other streams. There is another such in Asia Minor. The sea of Sodom and Gomorrab is another instance. And in the high countries we mentioned, there are many small salt lakes, which reeeive little rivers, and have no outlet. The
lake of Zard, in Persia, however, is the only one which indicates a considerable hotlow of, the country. It is now ascertained by actual survey, that the sea of Sodom is considerably higher than the Mediterranean. This feature, however, is not peculiar to Asia: it pertains also to Africa. As Asia exceeds in magnitude the other two parts of our continent, Europe and Africa, so it is superior to them in the serenity of its air, the fertility of its soil, the deliciousness of its fruits, the fragraney and balsamic qualities of its plants, spices and gums ; the salubrity of its drugs ; the quantity, variety beauty and value of its gems; the richness of its metals, and the fineness of its silks and cottons. A great change indeed has happened in that part of it calted Torkey, which has lost much of its antieat splentour, and from the most populous and best cultivated spot in Asia, is become a wild and uncultivated desert. The other parts of Asia continue much in their former condition ; the soil being as remarkable for its fertility, as most of the inhabitants for their indolence, effeminacy and loxury, Thiseffeminacy is chiefly owing to the warinth of the climate, though in some meatsure heightened by custom and education; and the symptoins of it are more or leso visible as the several nations are seated nearer or further from the north. Hence the Tartars who live near the same latitude with us, are as brave, hardy, strong and vigorous, as any European nation. What is wanting in the robust frame of their bodies among the Clinese, Mogul Indians, and all the inhabitants of the more southern regions, is in a g. at measure made up to them by the vivacity of their minds, and ingenuity in variouskinds of workmanship, which our most skilful mechanics have in vain endeavoured to imitate. Asia has ever been considered, by believers in revelation, as the birth place and cradle of the human species. The garden of Eden, and the mountain of Ararat, have both of them been supposed to be placed in that region that lays between the Black Sea, the Caspian, and the Gulf of Persia; and this opinion has been confirmed by the result of the enquiries of the immensely learned Sir William Joness; speaking of the Arabs, the Tartars, and the Hindoos, he says, "The three races, therefore, whom we have already mentioned, (and more than three we have not yet found) migrated from Iran, as from their common country; and thus the Saxon chronicle, I presume from good authority, bring the first inhabitants of Britain from Armenia ; while a late very learned writer concludes, after all his laborious researches, that the: Goths or Scythians came from Persia; and another contends with great force, that both the Irish and old Britons proceeded severally from the borders of the Caspian; a coincidence of conclusions from different medin by persons wholly unconnected, which could scarce have happened, if they were not grounded on solid principles. We may, therefore, hold this proposition firmly established, that Iran, or Persia in its largest sense, was the true centre of population, of knowledge, of languages, and of arts ; which instead of fravelling westward ouly, as it has been fancifully supposed, or eastward, as might with equal reason have been asserted, were expanded in all directions to all the regions of the world, in which the Hindoo race has settled under various denominations : but, whether Asia has not produced other races of men, distinct from the Ilindoos, the Arabs, or the Tartar's, or whether any apparent diversity may not have
sprung from an intermixture of those in different proportions, must bo the subject of a future enquiry."

His valuable life was spared just long ènough to enable him to complete his design, and he at length concluded that there were only these three races of men in Asia, and probably in any other part of the world; that the Arabians were descended from Shem, the Tartars from Japhet, and the Hindoos from Ham.

The Arabian race is distinguished from the Tartars and the Hindoos by their language, which admits of scarcely any compounds, their size, and simplicity of their manners, and their inclination to indulge in the pleasures of imagination. They are allied by some affinity of language to several natiors, who in different ages lave laid claim to the attention of mankind. Such were the Jews, the Assyrians, the Babylonians, the Persians, the Palmyraneans, the Syrians, and finally to the same race must be referred the Saracens and the Moors.

The Hindoo race are remarkable for the pliable gentleness of their dispositions, and for the uncommon success with which they have applied to a variety of manufactures, They are supposed to have founded, a very antient monarchy in Persia, and to have furnished inhabitants to both the peninsulas of India, and to the well-peopled countries of China, Korea and Japan.
-The most striking characteristics of the Tartars are flat faces, savage ferocity, and, in general, a total ignorance of every thing that polishes human nature. They have spread over the greatest part of the Russian empire, as well as all those wide uncultivated regions, which are distinguished by the denomination of Tartary.

Europe and Asia are the two quarters of the world which have generally enjoyed more of the blessings of civilization than Africa or America, and yet between Europe and Asia there is in many instances the most astonishing contrast. The manners of many Asiatic nations have continued nearly the same for 3000 years, whereas the manners of the Europeans have been perpetually varying. Asia has long cultivated the sciences but has never carried them beyond a very limitted degree of excellence. Europe has received them from Asia at a much later period, but has advanced them almost to perfection. Asia has been the birth-place of almost every religion, the Patriarchal, the Jewish, the Theistical, the Sabean, the Magian, the Christian, the Mahometan, and probably the worship of Images and the doctrines of Fo. Europe, on the contrary has only received the systems which have been imparted from Egypt and the East. On the whole, therefore, it appears that though Europe had not existed, the circumstances of the inhabitants of Asia had been nearly the same as at present, but if Asia had not existed the inhabitants of Europe would have remained to this day the most illiterate barbarians. Asia, the mother, has long since arrived at the full maturity of years, so that every alteration which takes place is only an indication of the debility of age. Europe, the daughter, is now in all the vigour of youth, and every succeeding year is adding to her strength and her beauty.


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Part of the natural Hillory of AFRICA.

## Chapter IIf.

Aprica.- Its situation, divistions, productions, and inhabitants.

AFRICA lies south of Europe, and west of Asin. It is bounded on the north by the Mediterranean, which separates it from the former ; on the north east by the Red Sea, which divides it from Asia, and to which it is attached by a neek of land called the Isthmus of Suez, about 60 miles over, separating the Mediterranean from the Red Sea; On the west, south, and east, it is bounded by the main ocean ; so that it is properly a vast peninsula, bearang some faint resemblance of a pyramid ; the base of which in the northern part, running along the shore of the Mediterrancan; and the top of the pyramid is the most southerly point, called the Cape of Good Hope. Its greatest length from north to south is 4300 miles ; reaching from latitude $37^{\circ} \mathrm{N}$, to $35^{\circ} \mathrm{S}$, and from longitude $17^{\circ} \mathrm{W}$, to $50^{\circ} \mathrm{E}$. Though the greatest part of this continent has been in all ages unknown, both to the Europeans and Asiatics, its situation is more favourable than either Europe or Asia for maintaining an intercourse with other nations. It stands, as it were, in the centre of the three other quarters of the globe ; and has thereby a much pearer, communication with Europe, Asia, and America, than auy one of these has with another. For, 1, It is opposite to Europe in the Mediterranean for almost 1000 miles, in a line from east to west, the distance seldom 100 miles, never 100 leagues, and sometimes not above 20 leagues. \&. It is opposite to Asia for all the length of the Red Sea, the distance sometimes not exceeding five leagues, seldom 30. 3. Its coast, for the length of about 9,000 , lies opposite to America at the distance of from 500 to 700 leagues, including the islands; whereas America, unless where it may be a terra incognito, is no where nearer Europe than 1000 leagues, and Asia than 2,500.

As the equator divides the continent almost in the middle, the far greatest part of it : is within the tropics; and of consequence the heat, in some places, is almost insupportable by Europeans ; it being there greatly increased by vast deserts of burning sand. It cannot be doubted, however, that were the country well cultivated, it would be ex-d tremely fertile; and would produce in great abundance, not only the necessaties, but also the luxuries of life: - It has been asserted, that the sugars of Barbadoes and Jamaica, as also the ginger, cotton, rice, pepper, pimento, cocoa, indigo, Ke. of these, islands would thrive in Africa to as inuch perfection as where they are now produced. : Nor can it be doubted that the East India spices, the tea of China and Japan, the coffec of Mocha, \&c. would all thrive in some parts of the African coast ; as this con-t tinent has the advantage of feeling no cold, the climate being either very warn or very temperate,

Whatever may be the ease with the intermal parts of Africa, it is certain that its coaistst - are well watered with many considerable rivers. The Nile and the Niger may be reck-1 oned among the largest in any part of the world, America excepted. The first disit
charges itself into the Mediterranean, after a prodigious course from its source in Abyssinia. The origin neither of the Nile, nor of the Niger, is very certainly known ; but that of the latter is supposed to run through a track of land little less than 3000 miles. Both these rivers annually overflow their banks, fertilizing by that means the countries through which they pass. The Gambia and Senegal rivers are said to be only branclies of the Niger. Many vast ridges of moumtains also run through different parts of this continent; but their extent is very little known. Some of the most remarkable are 1. Those called the Atlas, lying between the 20th, and 25th. degree of horth latitude, and supposed alinost to divido the continent from east to west. 9 , The mountains of the moon, so called on account of their great height, supposed to be boundaries between Abyssinia and some of the interior kingdoms. 3, The mountains of Sierra Leona, so called on account of their abounding with lions, and likewise supposed to be the boundaries of some of the nations. 4, Those called by the antients the mountains of God, on account of their being subject to perpetual thunder and lightning. Of all these, however, little more is known than their names,
Africa produces a great variety of fieree and formidable animals, lions, tigers, leopards, panthers, wolves, elephants, rhinoceri, and crocodiles, with serpents and scorpions, both of them of enormous magnitude, and the most deadly poison.
To what we have already said concerning the produce of Africa, we may add, that no part of the world abounds with gold and silver in a greater degree ; it is, therefore, surprising that neither the antient nor modern Europeans, notwithstanding their extravagant and insatiable thirst after gold and silver, should have endeavgured to establish themselves effectually, in a country much nearer to them, than either America or the east Indies ; and where the objects of their desire may be found in equal, if not greater plenty.

Next to gold and silver, copper is the most valuable metal; and on this continent is found in great plenty, insomuch that the mountains of Atlas, above mentioned, are said to be composed'of copper ore. In short, Africa, though a full quarter of the globe, stored with an inexhaustible treasure, and capable of prodncing almost every necessary, conveniency, and laxury of life, within itself, seems to be utterly neglected, both by its-own inhabitants and all other nations; the former being in a savage state, and ineapable of enjoying the blessings bestowed on them by natare: and the latter, taking no farther notice of the inhabitants or their land, than to obtain, at the easiest rate, what they procure with as little trouble as possible, or to carry theni off for slaves to their plantations in America. Ouly a small part of this continent was knowa to the antients, viz. the kingdom of Egypt, and the northern const, comprebending little more than what is now known by the name of Barbary. It was divided into Africa Propria, and Africa Interior. Africa Propria comprehending only the Carthaginian territories : Africa Interior comprehending all other nations to the southward of these territories, or those at a greater distance from Rome. The ouly kingdom, however, with which the Romans had any connection were the Numidians, the Mauritania, and the Gactul. All these, as well as Egypt, were syallowed up by that enormous power,

## AFRICA.

and reduced to the condition of Roman provinces. But the Komans never seem to have penetrated beyond the tropic of Cancer. There appears, indeed, to have been some intercourse between them and the Ethiopians: but the latter always proserved their liberty; and we find their queen Candace mentioned, in the times of the aposties when the Roman power was at its highest pitch. Between the tropic of eancer, and the equinoctial line, a multitude of savage nations were supposed to have their residence, known by the names of Melanogotuli, Nigrite, Blemmyes, Dolopes, Astacuri, Lotophagi: Ichthyophagi, and Elephantophagi.

But that Africa was a perinsula stems to have been totally unknown both to the Europeaas and Asiatics for many ages. It is probable, indeed, that some of the Phicnicians, and their offspring, the Carthagivians, were not so ignorant; as they carried navigation to a much greater height than either the Greeks or Romans; but their d overies were all concealed with the greatest eare, lest other nations should reap the benefit of them; and accordingly we can now find no authentic accounts concerning them. The navigation round Africa in particular is recorded by the Greek and Roman writers, rather as a strange amusing tale, than as real transactions; and as neither the progress of the Phomician and Carthaginian discoveries, nor the extent of their navigation, were communicated to the rest of mankind, all memorials of their extraordinary skill in naval affairs, scem in a great measure to have perished when the maritime power of the former was annihilated by Alexander's conquest of Tyre, and the empire of the latter was overturned by the Romans. That the peninsula of Affica, however, was in reality sailed round by the Phenicians, we have an indisputable authority to prove; for some of that nation undertook the voyage at the command of Necho, king of Fgypt, about fo4 years before the cliristian era. They sailed from-a part in the Red Sen, and after three years returned by the Mediterrancan; and the accounts at that time are unanswerable proofs to us that this voyage was really accomplished. They pretended that having sailed for some time, the sun became more and mgre vertical, after which he appeared in the north, and scemed to recede from them: that iss they retorned the sun gradually seemed to move southwards; and after becoming vertical once more appeared, though in the south side of them, as before they set out. This which we know must certainly have been the case, was deemed incredible at that time, and universal ignorance concerning the extent of this continent prevailed to the 1 sth century. The first attempts towards obtaining a knowledge of Africa was made by the Portugeuse in $1+12$. Notwithstanding their vicinity, they had never ventured to pass Cape Non, situated in about N. latitude $27^{\circ}$ : it had received its name from the supposed impossibility of passing it. This year they proceeded 160 miles farther to Cape Bojodar, which stretching a considerable way into the Atlantic ocean, with rocky clifts, appeared so dreadful to the navigators, that they returned without any attempt to pass it. In an attempt to double this formidable cape they discovered the Madeira Island in 1419 : but Cape Bojoder continued to be the boundary of their continental discoveries till 1433, when they penetrated between the tropics, and in a few years discovered the river Senegal, Cape de Verd, and tho island which lics of VoL. I.
that promontory: In 1449 the western islands, called the azores, were discovered; and in 1471 they first penctrated beyond the line; and were surprized to find that the torrid zone, contrary to the opinion of the antients, who iangined it to be burnt up with lieat, was not only habitable, but fertile and populous. In 1484 , they proceeded 1500 miles beyond the line, so that they began to entertain hopes of finding that way a passage to the East Iudies ; and two years afterwards the Cape of Ciood Hope was discovered by Bartholomew de Diaz; but it was not till the year 1497 thet the Portuguese, under Vasques de Gama, actually doubled this cape, and discovered the true shape of the continent.

Thus the coast of Africa was made perfectly known; and probably the knowledge concerning its interior parts would have been much greater than it is, had not the general attention beer called off from this continent by the discovery of America in 1492. The Romans for a long time maintained their power in Africa: but in the year 496 Bonifacius, supreme governor of all the Roman dominions, in this quarter, leing compelled to revolt by the treachery of another general, called Eitius, and finding limself unable to contend with the whole strength of the Roman empire, called in Genseric, king of the Vandals, to his aid; who thereupon abandoned the provinces he had seized in Europe, and passed over into Africa. Bonifacius, however, being soon after recuaciled to his empress Placidia, endeavoured in vain to persuade the Vandals to retire. Hereupon a war ensued, in which the barbarians proved victorious, and quickly over run all the Roman provinces in Africa. Iu the year 485 a peace was concluded; when Numidia, and some other countries, were ceded to the Vandals, who soon ofter seized all the rest. These barbarians did not long enjoy their ill-gotten possessions; for about the year 533 , Belisaries drove them out, onnexing the provinces to the eastern empire; and in 642, the Saracens having conquered Mesopotasmia, Egypt, (whigh antiently was not included in the meaning of the word Airica,) Phonicia, Arabin, and Palestine, broke, like a torrent, into Africa, which they quickly subdued. This vast empire being, in 936 , divided into seven kingdoms, the A,frican states retained their independency long after the others were subdued by the Turks; but in the beginning of the 16 th. century, being afraid of falling under the yoke of Spain, they invited the Turks to their assistance; who first protected, and then enslaved then. They still continue in a kind of dependance on the Ottoman empire. They are not, however, properly speaking, the subjects of the Grand Seignior, but sult him their pretector, paying him an manul tribute. On the coast, the natives are stmost all addicted to piracy; and with such success have they carricd on their em--ployment, that the greatest powers in Europe are become their tributaries, in order to procure liberty to tride in the Mediterranean.

Concerning even those states which are nearest to Europe, very little is known, but the int rior nations are searce known by name: nor do almast any two of the most Joarned moderis agree in their division of Africa into kingtoms : and the reason is thit, scarcely any traveller hath ever penetrated into these inlospifable regions. According To the best account concoruing these parts of Africa Jying beyond Egypt and Baviary,
they are divided in the following manner. On the western coast to the south of Barbary lie the kingdoms of Bildulgerid, Zaarn, Negroland, Loango, Congo, Angola, Benguela and Terra de Nata ; on the western coast beyond Egypt are those of Nubia, Adel, Ajan, Zanguebar, (between these two a huge desert is interposed) Monomstapa and Sofola. In the interior parts the kingdoms of Lower Ethiopia, Abex, Monomugi and Matanan are made mention of. The southernmost part called Caffraria is well known, for the habitation of Hottentots.

In many material circumstances the inhabitants of this extensive continent agree with each other. If we except the peopke of Abyssinia, who are tewny, and profess, a mixture of christianity, judaism, and paganisn, they are all of a black complexion. In their religion, except on the sea coasts, which have been visited'and settled by strangers, they are pagans ; and the form of government is every where monarchical. Few pribees, however, possess a very extensive jurisdiction; for as the natives of this part of Africa are grossly ignorant in all the arts of utility or refinement, they are little acquainted with one another, and generally united in small societies, each governed by its own prince. Abyssinia, indeed, as well us in Congo, Loango, and Angola, we are told of powerful monarchs ; but on examination, it is found that the authority of these princes stands on a precarious footing, each tribe, or separite body of their subjects, being under the influence of a petty chieftain of their own, stiled Negus, to whose commands, however contrary to those of Negascha Negascht, or king of kings, they are always ready to subuit.

The fertility of a country so prodigiously extensive, might be supposed more various than we find it is: in faet, there is no medium in this part of Africa with regard to the advantage of its soil ; it is either perfectly barren, or extremely fertile; this arises from the intense heat of the sun, which where it meets sufficient moisture, produces the utmost luxuriancy, and in those countries whicre there are few rivers, reduces the surface of the earth to a barren sand; of this sort are the countries of Anion, and Zaara, whichr formant of water, and consequently of a $\downarrow$ other necessaries, are reduced to perfect deserts, as the name of the latter denotes. In those countries, on the other hand, where there is plenty of water, tud particularly where the rivers overflow the land part of the year, as in Abyssivia, the productions of nature, both of the animal and vegetable kinds, are found in the highest perfection, and greatest abundance. The countrics of Mandaygo, Ethiopia, Congo, Angola, Batua, Truticui, Monomotapa, Casati, and Monomugi are extremely rich in gold and silver. The baser metals, likewise, are found in these and many other parts of Africa. But the persons of the natives make the most considerable article in the produce and traffic of this miserable quarter of the globe.

Of tate, howover, we olserve with pleasure that attempts to civilize Africa have been made, feeble indeed when compared with the extent of their object, but attended with so great a degree of success as to promise the most important ultimate advantages.

## AMERICA.

## Chapter IV.

Aменса._Its situation, and extent, climate, productions, and inhabitants, and its discovery by the Europieans,

THIS vast country extends from the 80 th. degree north, to the 56 th. degree of south latitude ; and, where its breadth is known, 'from the S5th. to the 1soth. de gree west longitade from Loadon; stretching between 8000 and 9000 miles in length, and in its greatest breadth $\$ 690$. It sees both hemispheres, has two summers and a double winter, and enjoys all the variety of climates which the earth affords. It is washed by the two great oceans. To the eastward it has the Atlantic, which divides it from Europe and Africa ; to the west it has the Pacific, or Gireat South Sea, by which it is separated from Asia. By these seas it may, and does, carry on a direct commerce with the other three parts of the world.

America is not of equal breadth throughout its whole extent; but is divided into two great continents, called North and South America, by an isthmus 1500 miles long, and which at Darien, about lat. $9^{\circ} \mathrm{N}$. is only 60 miles over. This isthmus forms, with the northern and southern continents, a vast gulph, in which lies a great number of islands, called the West Indies, in contradistinction to the eastern parts of Asia, which are called the East Indies.
Between the New Worid and the Old, there are several very striking difforences; but the most remarkable is the general predominance of cold throughout the whole extent of America. Though we cannot, in any country, determine the precise degree of heat merely by the distance of the equator, because the elevation above the sea, the nature of the soil, \&.c. affect the climate ; yet, in the antient continent, the heat is much more in proportion to the vicinity to the equator than in any part of America. Here the rigour of the frigid zone extends over half that which should to temperate by ts pasi tion. Even in those latitudes where the winter is scarecly felt on the Old continent, it reigns with great severity in America, though during a short period. Nor does this cold, prevalent in the New World, confine itself to the tomperate zones; but extends its influence to the torrid zone, also, considerably mitigating the excess of ite heat. Along the eastern coast, the climate, though more similar to that of the torrid zone in other parts of the earth, is nevertheless considerably milder than in those countries of Asia and Africa which lie in the same latitude. From the southern tropic to tie extremity of the American continent, the cold is said to be much greater than in parallei northera latitudes even of America itself.

For this so remarkahle difference between the climate of the New continent and the Old, yarious causes bave been assigned by differcut outhors. The foilowing is the opinion of the learned Dr. Robertson on this subject. "Though the utmost extent of Anaerica tivards the north be not get discovered, we know that it advances nearer to

the pole than either Europe or Asin. The latter have large seas to the north, which are open during part of the year ; and, even when covered with ice, the wind that blows overfen is less intensely cold than that which blows over land in the same latitudes.
2. But, in America, the land stretches from the river St. Lawrence towards the pole, and spreads 'immensely to the west. A chain of enornous mountains, covered uith snow and ice, runs through all this dreary region. The wind, passing over such an extent of high and frozen land, becomes so impreguated with cold, that it acquines a piercing keenness, which it retains in its progress through warmer climates; and is not entirely mitigated, until it reaches the gutf of Mexieo. Over all the continent of North Ameriea, a north-weaterly wind and excessive cold are Synonymous terms. Even in the most sultry weather, the momedt that the wind veers to that quarter, its penetrating influence is felt, in a transition from leat to cold, no less violent than sudden. To this powerful cause we may ascribe the extraordinary dominion of cold, and its violent inroads into the soithem provinces in that part of the globe."
"Other causes, no less remarkable, diminish the active power of heat in those parts of the American continent which lie between the tropics. In all that portion of the globe, the wind Hows in an invariable direction from east to west. $\Lambda$, this wind holds jts courso across the antient contivent, it arrives at the countries which stretch along the western shore of Africa, inflamed with all the fiery particles which it hath collected from the sultry plains of Asia, and the burning sands in the African deserts. The coast of Africa is accordingly the region of the earth which feels the most fervent heat, and is exposed to the unmitigating ardour of the terrid zone. But this same wind, which brings.such an accession of warmth to the countries lying between the river of Senegat and Caffarin, traverses the Atlantic ocean before it reaches the American shore. It is cooled in its passage over this vast body of water, and is felt as a refreshing gale along the coasts of Brazil and Guiana, rendering those countries, though amougst the warment in Ancrica, temperate, when compared with those which lie opposite to them in Africa. As this wind advances in its course across America, it meets with imniense plains, covered with impenetrable forests, or occupied by large rivers, marshes, and stagnated waters, where it can recover no considerable degree of heat. At length it arrives at the Andes, which run from north to south through the whole continent. In prosing over their elevated and frozen summits, it is so thoroughly cooled, that the greater part of the countries beyond them hardly feel the ardour to which they seen exposed by their situation."
" In the other provinces of America, from Terra Firma westward to the Mexicanempire, the heat of the climate is tempered, in some places, by the elevation of the land above the sea; in others by their extraordinary humidity; and in all by the enormous mountains scattered over this tract. The islands of America in the tornd zone are either small or mountainous, and are fanned alternatgly by refreshing sea and land breezes."
"The causes of the extraordinary cold toward the south limits of America, and in the seas beyoulift, cannot be uscertained in a manner equally sati-fying It was long supposed, that a vast continent, distinguished by the name of Terra Australis IncogVol. II.
nite, lay between the southern extremity of Americe and the antaretic pole. The same principles which account for the extraordinary degree of cold in the northern regions of America, were amployed in order to explain that which is felt at Cipo N Heg and the adjacent countries. The immense extent of the southern contine $/$ and the rivers which it poured into the ocean, were mentioned and admitted by phildsophers as causes sufficient to occasion tho unusual sensation of cold, an. the still more uncommon appeafances of frozen seas in that region of the globe. Dut the imaginary continent, to which such influence was ascribed, having been searched for in vain, and the space which it was supposed to occupy having been discovered to be in open sea, new conjectures must be formed with respect to the causes of a temperature of climate, so extremely different from that which we experience in countries removed at the same distance from the opposite pole."
\# The most obvious and probable cause of this superior degree of cold towards the southern extremity of America, seems to be the form of the continent theres Its breadth gradually decreases as it stretches from St . Antonio sonthuards, and from the bay of St . Julinn to the straits of Magellan its dimensions are much contrneted, On the east and west sides it is washed by the Atlantic and Pacific oceann. From its southern point, it is probable that an open seas streteles to the antaretic pole. In whichever of these directions the wind blows, it is cooled before it rpproaches the Megellanie regions, by passing over a vast body of water; nor is the land there of such extent, that it can recover any considerable degree of heat in its progress over it. These circumstances concur in rendering the temperature of the air in this district of America more similar to that of an insular, than to that of a continental climate; and hinder it from acquiring the same degree of summer heat with places in Europe and Asia, in a corresponding northern latitudc."
${ }^{4}$ The north wind is the only one that reachos this part of America, after blowing ovet a great continent. But, from an attentive survey of its position, this will bo foynd to have a tendency rather to diminish than augment the degree of heat. The southem extremity of America is properly the termination of the immense ridge of the Andes, which stretches nearly in a direct line from north to south, through the whole extent of the continent. The most sultry regions in South America, Guiana, Brazi, Paraguay, and Tucumso, lie many degrees to the east of the Magellanic regions. The level country of Pero, which enjoys the tropical heats, is situated considerably to the west of them. The north wind, then, though it blows over land; does not bring to the southern extrenity of Anerica an increase of heat collected in its passage over torrid regions; but, before it arrives there, it siust have swept along the summit of the Andes, and come impregnated with the cold of that frozen region."

Another particularity in the climate of America, is its excessive moisture in general. In some places, indeed, on this western coast, rain is not known ; but, in all other parts, the moistness of the climateir as remarkable as the cold. The forests wherewith it is every whero covered, no doubt. partly occasion the moisture of its climate ; but the most prevalent cause is the vast grantity of water in the Atlantic and Pacific oceags, with which Amerien is envimand on all sides. Hence those places where the continent is
narrowest are deluged with almost perpetual rains, accompanied with violent thander ${ }^{2}$ anf lightning, by which some of them, particularly Porto Bello, are rendered in a manneviuplymitable.
Thiselvar moisture of the American climate is productive of much larger rivers there than in any other part of the world. The Danube, the Nile, the Indus, or the Ganges, are not comparable to the Mississippi, the river St. Lawrence, or that of the Amazons; nor are such large lakes to be found any where as those whioh North America affords. To the same cause we are also partly to ascribe the excessive luxuriance of all kinds of vegetables in almost all ports of this country. In the southern provinces, where the moisture of the climate is aided by the warmth of the sun, the woods are almost impervious, and the surface of the ground is hid from the eye, under a thick coveling of shrubs, herbs, and weeds. In the northern provinces, the forests are not escumbered with the same luxuriance of wegetation ; nevertheless, they afford trees much larger of their kind that what are to be found any where else.

From the coldness and the moisture of America, an extreme malignity of climate has been inferred, and asserted by M. de Pau, in his Recherehes Philosophiques, Hence, according to his Lypothesis, the smallness and irregularity of the nobler animals, and the size and enormous multiplication of reptiles and insects.

But the supposed smallness and less ferocity of the American animals, the Abbe Clavigero observes, instead of the malignity, demonstrates the mildness and bounty of the clime, if we give credit to Buffon, at whose fountain M. de Pau has drank, and of whose testimony he has availed himself against Don Pernetty. Buffon, who, in many places of his Natural History, produces the suallness of the American animals as a certain argument of the malignity of the climate of America, in treating afterwards of savage animals, in Tom. II. speaks thus: "As all things, even the most free creatures, are subject to natural laws, und animals, as well as men, are subjected to the influence of climate and soil, it appears that the same causes which have civilized and polished the human species in our climates, may have likewise produced similar effects upon other species."

The woif, which is, perhaps, the fiercest of all the quadrupeds of the temperate zone, is, however, incomparably less terrible than the tyger, the lion, and the panther, of the torrid zone; and the white bear and hyena of the frigid zone. In America, where the air and the earth are more mild than those of Africa, the tyger, the lion, and the panther, are not terrible but in the name. They have degenerated, if fiereeness, joined to cruelty, made their nature; or, to speak more properly, they have only suffered the influence of the climate : under a milder sky, their nature also has become more mild. Frour climes which are immoderate in their temperature, are gbtained drugs, perfumes, poisons, and all those plants whose qualities are strong. T. temperate earth, on the contrary, produces only things which are temperate; the fildest herbs, the most wholesome pulse, the sweetest fruits, the most quiet animals and the most hamane men, are the natives of this happy clime. As the earth inkes the plants ; the earth and plants make animats; the earth, the plants, and the an pals make man. The phyfical qualities of man, and the amuals which feed on other athovely depend, though more
remotely, on the same causes which influence their dispositions and customs. This is the greatest proof and demonstration that in temperate climes every thing becomes teanperate, and that in intemperate climes every thing is excessive; and that sizenchorm, which appear fixed und determinate qualities, depend, notvithstanding itryesicintive qualities, on the influence of climate. The size of our quadrupeds cannot be compared with that of the elephant, the rhinoceros, or the sea-horse. The largest of our birds are but small, if compared with the ostrich, the condor, and cassowary." So far Mr. Buffon, whose téxt we have copied, because it is contrary to what M. de Pau writes against the climate of America, and to Buffon himself in mapy otber places.

If the large and fierce animals are natives of intemperate climes, and smail and tranquil animals of temperate climes, as Mr. Buffon has liere established; if mildness of elimate intluence the disposition and customs of animals, M. de Pau does not well deduce the malignity of the climate of America from the smaller size and less fierceness of its animals; be ought rather to have deduced the gentleness and sweetness of its clinitite from this antecedent. If, on the contrary, the smaller size and less fierceness of tho Atuerican animals, with respect to those of the old continent, are a proof of their degeneracy, arising from the maliguity of the clime, as M. de Pau would have it, we ought, in like manner, to argue the malignity of the clianate of Europe, from the small size and less fierceness of its animals, compared with those of Africa. If a philosopher of the counfry of Guinea should undertake a work in initation of M . de Pau , with this title, Hecherches Philosophiques sur les Européens, he might avail himself of the same argument which M. de Pau uses, to demonstrate the maligrity of the climate of Europe, and the advantages of that of Africa. The climate of Europe, he would say, is very unfivourable to the production of quadrupeds, which are found incomparably stoaller, and more cowardly than ours. What are the horse and the ox, the largest of ita animals, compared with our clephants, our shinoceroses, our sea-horses, and oor camels? What are its lizards, either in size or intrepidity, compared with our crocodiles? Its uolves, its bears, the most dreadful of its wild beasts, when teside our lions or tygers? Its eagle, its vultures, and cranes, if compared with our ostriclies, appear only like. hens.

As to the enormous size and prodigions mattiplication of the insects and othen littlo noxious animals. "The surfice of the earth (says M. de Pau), infected by putrefaction, was over-run with lizards; serpents, reptiles, and insects, monstrous for size, and the activity of their poison, which they drew from the copious juices of this uncultivated soit, that was corropt and abandoned to itself, whiere the nutritive juices became sharp, like the milk in the breast of animals which do not exercise the virtue of propagation. Caterpillars, crabs, butterflies, beetles, spiders, frogs, and toads, were for the most part of an enoh pous corpulence in their species, and toultiplied beyond what can be imagined. Ponamnss infested with serpents, Carthagena with clouds of enormous bats, Porto Bello with pads, Surinam with kakerlacas or cucarcons, Guadaloupe and the other colonies of thy islands with beetles, Quito with niguas or chegoes, and Lima with lice and bugs. The antient kings of Mexico, and the eaperors of Pero, found no other means of sideing their subjects of those insects which fed upon thim, thap
the imposition of an annual titiute of at certain quantity of lice. Ferdinand Cortes found bags foll of them inithe palace of Montezuma. But this irgument, exaggerated us it is, proves notling against the clinate of America in general, minch less against that of al eigen 'There being some lands in America, in which, on account of their heat, numiang Nomant of inhabitants, large inseets are forme, and excessively moltiplied, will prove at most, that in some places the surface of the carth is iniceted, as he says, with putrefaction; but not that the soil of Mesico, or that of all America, is atinking uneultivated, vitiated, and abandoned to itself. If such a deduction were jant, M. de Pau might also say, that the soil of the old eontinent is barren and stinks; as in many countries of it there are prodigious multitydes of monstrous insects, noxious reptiles, and vite mimats \% as in the Ptiitippine 'isles, in ranny of those of the Indimm Archipetugo, in several countries of the south of Asia, in many of Africa, and even in some of Europe. The Pbilippine inles are infested with enormons ants and monstrous butterfies, Japan with scorpions, south of Asla and Africa with serpents, Egypt with asps, Geinea lind Ethiopha with armies of aits, Holland with field rats, Ukrania with toads, as M. ec Pau frimself affirms. In Italy, the Campagua di Roma (although poop'ed for so many ages,) with vipers; Calabria with tarantulas ; the shores of the Adriati- sea with clouds. of geats; and even in France, the population of which is so great and so antient, whose lands are so well coltivated, and whose climate is so celebrated by the Freneb, there appeared a fow years ago, according to M. IJufton, a neir species of field mice, larger than the common kind, called by him surmutots, which bavo multiplied exceedingly, to the great dariage of the fields. M. Bavin, in his Compendium of the History of Inseets, numbers seventy-seven species of bugs, which are all found in Paris and its neighbourhood. That large capital, es Mr. Bomare says, swarms with thoso disgustfial insects. It is true that there are places in America, where the multitades of insects and filthy rerain make life irksome ; but we do not know that they have urrived to such excess of multiplication, as to depopulate any place; at least there cannot be so many examples producal of thifs cause of depopolation in the new as in the old cobtinent, which aro attested by Theophrastus, Varro, Pliny, and other authors. The frogs depopulated one place fo Gaul, and the locmsts another in Africa. One of the Cyclades was depopulated by tuice: Amicla, near to Taraciona, by serpents; another place, near to Ethiopia, by scorpions and puisonous ants ; and another by scolopendras; and not so distant from our oxis tiones, the Mauritius was going to be, abamlaned on account of the extriutdiairy multiplication of rats, as we can remember to have read in a French authar

With resiect to the sive of the insects, reptiles, and such animals, M: de Pau makes use of the testimony of Mr. Dumiont, who, is this memoirs on Louisiana, says that the froge are so large there, that they weigh thirty-seven French pounds, and their horrid croaking innitates the bellowing of cows. But M, de Pau hig/elf siry, (in his answer to Ifon Perietty, cap. 17.) that all those who have written fout Louisiana from Hempin, Le Clere, and Cav. Tonti, to Dumont, have eontradicted each other, sometimes on one, und sometines un another subject. In fuct, neither in th: old or the new continent are there froge of 37 pounds in weight; but there are in als yind Africa, serpents, butterValil.
flies, ants, and other animals of auch monstrous aize, that they exceed all those which have been discovered in the new worid; We kiow very well, that some American historian says, that a certain gigantic species of serpents is to be found is the woosh, which attmet men with their breath, and swallow them up: but we know also, whec sevil historians, both antient and moderis, report the same thing of the serpentryche anh even something more. Magasthenes, cited by Pling, said, that there were soppents found if Asia, so large, that they swallowed entire stags anil bulls. Metrodorus, cited by the saoie author, afirms, that in Asia there were serpents, whicb, by their breath, attracted birds, however high they were, or guick their flight. Among the moderns, Gewelli, in vol. v, of his Tour of the World, where he treats of the animals of the Pailippine isles, speaks thus: "There are serpents in thex islands "of immoderate size ; there is one called Ibitin, very long, which, suspending itself by the tail from the tronk of a troe, waits till stags, bears, and also men pass by, in order to attract them with its breath, and devour them at once entirely;" from whence it is evident, that this very antient fable has been cgunuon to both continents.
Further, it may be askel, in what country of America could M. de. Pau find ants to equal those of the Philippine islands, called sulum, respecting which Hernandes affirms, that they were sis fingers broad in leugth, ind one in breadth?: Who has ever seen in America batterflies so large ns those of Bourbos, Teruato, the Philippine isles; and all the Indian Arelipelago? The larget bat in America (native to hot, shady countries, which is that called by Buffa vanipiro, is, according to him, of the size of a pigcon. La rougette, one of the species of Asia, is as large as a. raven; and the rousette, another species of Asta, is as big as a large hen. Its wings, wheu extended, measure from tip to tip three Parixian feet; and according to Gemelli, who meosured it in the Philippine isles, sis palms. M. Buffon acknowledges the excess in size of the Asiatic bat over the American spocies, but denies it as to number. Gemelli says, that those of the island of Luzon were so numerous that they darkened the air, and that the noise which they marde with their teeth, in eating the fruits of the woods, was heard at the distance of two mites.
IM. de Pau says, in talking of serpents, " It cannot be affirmed that the hew world has shewn any serpents larger than those which Mr. Adanson saw in the deserts of Africa." The greatest serpent found in Mexico, after a diligent search, by Hernandes, was 18 feet long: but this is not to be compared with that of the Moluccas, which Bomare says is $\$ 3$ feet in length; nor with the anocanjada of Ceylon, which the same author says is more than 33 feet long; nor with others of Asia and Africa, mentioned by the same author. Lastly, the argument drawn from the multitude and sixo of the American insects is full as weighty as the argument drawn from the smallness and scarcity of quadrupeds, and both detect the same ignornaces, or rather the same voluntary and atudied forgetfulness, X the things of the old continent

With respect to what M1. Pau his said of the tribute of lice in Mexico, in that, as well as many other things, he fiscovers his ridiculous credulity. It is true that Cortes found bage of lice in the mag fines of the pulnoe of king Axafacat: It is also true that Montezuma imposed such a goute, not on all his subjects, however, but only an those
who wero beggars ; not on account of the extrnordinary multitude: of those insecte- as M. do Pau affirms, lout because Montezuma, who could not suffer idleness in his sulijocts, resolved that that miserable set of people, who could not habour, shonld at least be occuper jubousing themselves. This was the true reason of such an extravngant tribute, 1 The of that Which M. de Pau aflims, menely becaase it suited his preposteroas system. Those disgusting insects possibiy abound as mucti in the lanir ond clothes of American beggars, is of any poor and uncleanly low people in the wordd: but there is not a doubt, that if any sovercign of Earope was to exact such a tribute fiom the poor in lifs dominions, not only lugs but great vessels mifit be fillod with them
At the time America was discovered, it inas found inhabited hy a race of men mo less differeat froun thosp in the other parts of the workd, than the elimate and natural productions of the continent are different from those of Eurupe, Asia, or Africa. One great pecaliarity in the native Americans is their colour, and the identity of it thmoggont the whole extent of the continent. In Eprope and Asia, the people who inhatit the northern countries are of a fairer complexion than those who divell more to the southward. In the torrid rone, both in Africa and Asia, the matives are entirely black, or the next thing to it. This, however must be understood with some limitation. The people of Lapland, who whalit the most motheriy part of Europe, are by no means so fair as the inhabitants of Britain ; sor are the Tartars so fair as the inhabitants of Europe who lie under the same parallel of latituic. Nevertheless, a Laplander is fair, when compared with an Abyssinian, and a Tarfar, if comparei with a native of the Molucca itands. In America, this diatinction of colour was not to be found. In the torrid zone there were no nogroes, and in the temperate and frigid zones there were no white people. Alt of them were of a kind of red copper colour, which Mr. Forter olserved, in the Pesserays of Term del Fuego, to have something of a gloss resembling that of netal. It doth not appeat, homever that this matier hath ever been inquired into with sulficient accoracy Tho inhabitants of the inland parts of South America, where the continent is widest, and conscuigntly the influence of the sun the most potrerful, have never been compared with those of Canada, or more northerly parts, at least by any person of credit. Yet, this ought to have been done, and that in many instances too, before it could he asserted so positively as most anthors. do, that there is not the least difference of complexion among the natives of America. Indeed, so utany systems have been formed concerning tiem, that it is very difficult to obthin a true knowledge of the most simplo fact5. If we may believe the Abbé Raynal, the Californians are swarthier than the Mexicans; and so positive is he in this opinion, that he gives a reason for it. "This difference of colour," says be, "proves, that the civilized lifo of socicty subverts, or totally changes the order and laws of nature, sineo we find, under the temperato zone, a savage people that are blacker than the civilized nations of the torrid zone." On fhe other hand, Dr. Fobertson clasecs all the inhabitants of Spanish America topper with regard to colour, Whether they are civilized or uncivilized; and when he feaks of California, takea no notice of any peculiarity in their colour more than other. The general appearanee of
the fnth genous Americans in various distriets is thus described by the Chevalier Pinto: *They are all of a copper cofour, with some diversity of shade, not in proportion to their distance from the equator, bet according to the degree of clevation of the territory in which they residen. Those who live in a high countery are fairer thon theges we marshy lowlands on the coast. Toeir face is round, farther removed, pethy of atit thin of any people from an oval shape. Their farehead is small ; the extremity of their ears far from the face; their lips tbick; their sose flat; their eyes black, or of a chesnut colour, suall, -but capable of diseerning objects at a great distance. Their hair is always thick and sleek, and without any tendency to curl. At the first aspect, a South American appears to be mild and innocent: but, on a more attentive vicw, one discovers in this comptenunce something witd, distrustiol, and suiten."

The following account of the nutive Americans is given by Don Antonio Ulloa, in a workentitled Memairs Philosophigues, Historiques, et Physiques, concernans la decouverte de I Amerique, lately piblished.
*The Anericon Ipdians are natirally of a colour bordering upon red, Their frequent exposure to the sun and wint changes it to their ordinury dasky hue. The temperatare of the air appears to bave little or no influence in this respect. There is no perceptible difference in coumplexion between the inhabitapts of the ligh and thang of the low parts of Pero, yet the climates are of an extreme difference. Nay, the Indlans who live as far us 40 degrees and upwards soath or north of the equator, are not to be distinguistied, it point of colour, froin tho er immediately under it."
"There is also a general conformation of features and person, which, more or less, characterises them alt. Their chief distingtions in these respects are a small forehead, partly covered with hair to the eycbrowis, littie eyes, the nose thin, pointed, and bent towards the upper lip, a broad fice, large ears, black, thick, and lank hair; the legs well formed, the fect small, the body thirk and muscular ; little or no beard on the face, and that litte never extending beyond a smail part of the chin and upper lip. It may easily he supposed thint this general description catinot epply, io all is paits, to every uddividuif; but all of them partake so much of it, that they may easily be distinguishicd, even from the mulattocs, who come nearest to them in point of colour."
"The resemblance among ail the American tribes is not less remartable io respect to their genius, character, manners, and particular customs. The most distant tribes are, in these respects, as similar as though they formed but one nation."
"Alt the Indian nations have a particular pleasure in painting their bodies of a red cotour, with a certain species of earth. The mine of Guancavelica was formerly of no other we than to stupply them with this material for dying their bodies ; and the cinnabar extracted from it was npplied entirely to this purpose. The tribes in Louisiana and Canada have the same passion; hence minium is the commodity chost in demand there:"

U It may seem-singular the these nations, whose natural colour is red, should affect the same colour as an artificial of pament. Bat it may be observed, that they do nothing in this respect but what corres onds to the practice of Europeans, who also study to

## AMERICA.

Neighten and display to advantage the nutural red and white of their complexions. The Indians of Peru have now indeed abaindoned the custom of painting their bodies: but in e. Cormmon umong them before they were conquered by the Spaniards; and it still remainy fevistom of all those tribes who have preserved their liberty. The nortbern nations of America, besides the red colour, which is predominant, employ also black, white, blue, and green, in painting their bodies.

The adjastment of these colours is a matter of as great consideration with the Indians of Louisiana and thie vast regions extending to the north, as the omaments of dress atmong the most polished nations. The dusiness itself they cull Mactacher, and they do not fail to apply all their talents and assiduity to accomplish it in the most finished manfieir. No lady, of the greatest fishion, ever consulted her mirror with more anxiety than the Indians do while painting their boilies. The colours are applied with the utmost accuracy and address. Upon the eyclids. precisely at the root of the eye-lashies, they drair two lines, as fine as the stmallest thread; the same upon the lips, the openings of the nostrils, the cyebrows, and the ears ; of which hist they even follow all the inflexions and insiouosities. As to the rest of the fice, they ditribute various figures, in all which the red predominates, and the other colours are assorted, so as to throw it out to the best advantage. The neck also receives its proper ornaments ; a thick coat of vermiltion commonly distinguisties the cheeks. Tive or six frours are regquisite for accomplishing all this with the nicety which they affect. As their-first attempts do not always succeed to their wish, they efface them, and begin anew upon a better plan. No coquette is more fastidious in her choice of ornament, none more vain when the important adjustment is finished. Their delight and self-satisfaction are then so great, that "the mirror is hardly ever laid doirn. An Indian, mactached to his mind is the vainest of all the luman species. The other parts of their body are left in their nutural state, and excepting what is called a cachecul, they go entirely raked.

Such of them as lave made themselves eminent for their bravery, or other qualifications, are distinguishied by figures painted on their bodies. They introduce the colours by making punctures on their skin, and the extent of surfice which this ornament covers is proportioned to the exploits they have performed. Some paint only their arms; others both their arms and legs; others again their thighs; while those who lave attained the summit of warlike renown, have their bodies painted from the waist upwards. This is tise heraldry of the lndians: the devices of which are probably miore exactly adjusted to the merits of the persons who bear them, than those of more civilized countries.

Besides these ormaments, the karriors also carry plumes of feathers on their beads, their arms, and ancles. These likewise are tokens of valour, and none but such as have been thus distinguished may wear them.

The propensity to indolence is equal among all the tribes The only employment of those who have preserved th ir independence is luanting and finting In some districts the women exercise a little a griculture in raising Iudian corn and pompions, of which they form a species of aliment, (bruising them together; they also prepare the ordinary beverage in use among them, timg care, at the same time, of the children, of whom the fathers take no charge.

Vol. I.
$\cdot 9$

The fomale Indians of all the conquered regions of South America practise what is called the ureu (a word which among them signifies elevation). It consists in throwing forward the hair from the crown of the head upon the brow, and cutting it round frym the cars to above the eye; so that the forchicad and eycbrows are curigelst The same custom takes place in the northern countries. The female inhabitants of both regions tie the rest of their hair behind, so exactly on the same fashion, that it might be supposed the effect of mutual imitation. This, howerer, being impossible, from, the vast distance that separates them, is thought to countenance the supposition of the whole of America being originslly planted with one race of people.
This custom docs thot take place among tie males. Those of the higher parts of Pera wear long and flowing hair, which they reckon a great ormament. In the lowse parts of the same country they cut it short, on account of the heat of the climate: a circumstance in which they initate the Spaniards. The inhabitants of Louisiana pluck out the hair by the root, from the crown of the head forwards, in order to obthin a large forchead, otherwise denied them by nature. The rest of their hair they cut as short as possible, to prevent their cuemies from suizing them by it in battle, and also to prevent them from easily getting their scalp, should they fall into their hands as prisoners.
The whole race of American Indians is distioguished by thickness of skin and hardness of fibres; circumstances which probably contribute to that insensibility to bodily pain for which they are remarkable. Ao instance of this inemsibility oceured in an Indiap, who was under the necessity of submitting to bo cut for the stone. This operation, in ordinary casee, seldom lasts above four or five minutes. Unfavourable circum"stances in his case prolonged it to the uneommon period of 27 minutes. Yetall this time the patient gave no tokens of the extreme pain commonly attending this operation: he complained only as a person does who feels some slight uneasiness. At last the stone was extracted. Two days after he expressed a desire for food, and on the eight day from the operation he quited his bed, free from pain, although the wound nas not yet thorougthly closed.
The same want of sensibibity is observed in cases of fractures, wounds, and other accidents of a similar nature. In all these cases their cure is casily effectod, and they seem to guffer less present pain than any other race of men. The skulls that have been taken up in their antient burying grounds are of a greater thickness than that bone is commonly found, being from six to seven lines from the outer to the inner superficies. The sume is remarked as to the thickness of their skins.

It is natural to infer from hence, that their comparative insensibility to pain is owing to a coarser and stronger organization than that of other nations. The ease with which they endure the ser -itics of climate is another proof of this, The inhatitants of the bigher parts of Peru livet midst perpetual frost and snow. Although their cloathing is very slight, they support thif inelement temperature witbeat the least inconvenience. Habit, it is to be confessed, my contribute a good deal to this, but much also is to be ascribed to the compacterkture of their skins, which defend them from the impres aion of cold through their pores.

## AMERICA.

 Thie northern Indiaus resemble then in this respect: The utmost rigour of the winter season does not prevent them from following the chace almost makied. It is true, they N kind of woollen cloak, or sometimes the skin of a wild beast, upon their stoulWers : Tht segites that it covers only a small part of their body, it would appear that they use it thther for orrament than waruth. In fact, they wear it indiscriminately, in thic sercrities of winter and in the aultriest lieat of summer, when weither Europeans nor negrees can suffer any but the slightest elothing. They even fiequentif throw aside this cloak when they go a-hunting, that it mny not embarrass them in traversing their foresty, where they say the thoris and undergromgh would tuke hold of it; while, on the contrars: diey slide smoothly over tho surfice of thein naked bodies. At all times they go wition Ahtir beads uncorered without suffering the slighest ioconvenience, either from the cold, or from those coups de soleil, which, in Louisiania, are so often fatal to the inhabitants of otier climates.The character of the Indians is altogether founded upon their circunistances and way of life. A people who are constantly employed in procuriug the means of a precarious subsitence, who live by hunting the कild animals, and whio are generally engaged in war with thicir neighbours, cauinot be strpposed to enjoy much guiety of temper, or a high flow of spirits. The Indions, thercfors, we in general grave, even to sadness; they have nothing of thet giddy vivacity peculiar to some nations of Europe, and they despise it. Their behavior to those about them is regular, modest, and respectful. Iguorant of the arts of amusement, of which that of saying trifles agreeably is one of the most considerible, they never speak but when they have something of importance to obsorve; and all their aetions, words, and even looks, arc attended with some meaning. This is extremely natural to men who are uluost coutinually engaged in pursuits, which to them are of the highest importance. Their snbistence depends entirely on wha' they procure with their hands; and their lives, their thonour, and every thing dear to thom, may be lost by the smallest inattention to the designe of their enenies. As they have no particular object to attack them to one place rather than another, they 'ly wherever they expect to find the necessaries of lifo in thic greatest abuudance. Cities, which are the effects of agricultare and arts, they liave none. The different tribes or mations are, for the same reasons, extremely small, when compared with eivilized societies, in which industry, arts, agriculture, and commerce, lave united a nast number of individuals, whom a complicated luxury renders useful to one another. These small tribes live at an insmense distance; they are separated by a desert froitier, and hid in the bosom of impenetrable and almost boundless forests.
-There is establithed in each society a certain species of government, whicl, over the whiole continent of Ámerica, prevails widh exceeding little varigtion; bocause, over the whole continent, the manners and way of lifo are nearly sinhar and uniform, Without arts, riches, or loxury, the great instruments of subjection in polished societies, an American has no method by which he can render himself considerable among his compainions, but by superiority in personal qualities of body or mind. But as naturo has not been very lavish in-her personal distinctions, where vll enjoy the same education, : - zll are pretty much equal, and will desire to remain so. Liberty, therefore, is the
prevaling passion of tho Americans; and tiveir gat crimient, under tho iofluence of this sentiment, is better scecured than by the wisest political regalations. They are very far, towever, from despising all sort of nuthority: they are attentive to the voinc if wisdoan, which expericace his confersel on the engel, and itiey inlist unter the thatimen of the clief, in whose valour and willitary address they have learued to reposb thenif coafidence.
In every socidy, therefore, there is to be cansidered thie parer of the clief and the elders; and according is the goverument ioclines more to the one or to the other, it may be regarded as inonarebical, or as a species of aritoeracy. Ampong those tribes. which are mant engaged in war, the power of the chiff is uatunilly predominant; ber cause tho idea of having a nuiltary lealer was the first source of lis superionity, ate the continual exigencies of the state requiviog sels a leader, will conlione to support, and even to enlance it. Ilis power, houever, is rather persuavive than coercive ; he is reverenced as a father, nuther than fearel as a mionapeb. He las $t 10$ goartis, no prioms, no officers of justice, and one act of ingudged vivicnce would palt him from the throne.

The elders, in the otber form of gorermment, which may be considered as an aristoericy, hive no more power. In some tribes, indeed, there are a kind of bereditary nebility, whose influence, being constantly nugarented by time, is more considerable. Dit the source of power, which depends cliefly on the inagiation, by wbich we annex to the merit of our cotemporaries that of their farefathers, is too mffined to be vety eoniman among the natives of Ancrice. In mot enuntriss, thymfore, we nlowe is sufficent for acquiring respect, fafluence, mid nuthority. It is age whieh teaches experience, and experience is the only source of knoulidge among a butbarous people. Amoug those persons hasiness is condocted with the utimbst simplicity, and whech may recal to those who are aequainted witb intiquity, a pieture of the nosst early ages. The heads of families meet together in a thoses or cabin appointed for the purpose. Here the tusisness is discoused; and here those of the nation, distinguisted for their cloquence or widom, have an opportanity of displaying those talents. Their orator, like those of Homer, express thicmselves in bold, figurative style, stronger than refined, or rather soffened nations, enn well bear, and with gestures equally violent, but often extreinely natural and expressive. When the business is over, and they liappei to be well provided with food, they uppoint a feast on the occation, of which almost the whole nation partakis. Thie fast is accomporied with a senge in which tie real or fabulous esploits of their-forefathers are celebrated. They have dances too, though, like those of the Grecke ant Romms, ehiefly of the militery lind ; and their masic and dancing neyompany every feast.
To matit their memontiney bave belts of small thells, or beads, of different colouss, each representing a particentar object, which is marked by their colour and arrangerient. At the conclusion of every subject on which they discounse, when they treat with a foreign states they deliven one of thoso belis; for if this ceremony should bo onitted, all that they have said passes for norving. Theso belts' are carcfully dopasited in each town, as the publie recorde of the nation; and to them they occasionilly hive recourse, where

## AMELICA:

any pubsic content happens with a beighlouring trihe Of late, as the materials of which Niose belts ure, made liave become scarce, they offen givo some shia ia the place of the wainpum, (the name of the beads,) and receive in return presents of 10 more valuable kind from our commissoners; for they neres consider a treaty as of any weight, untese every article in it he ratified thy suotr a gratifications:

It often biupperis, that thoid of different tribes or nations, seattered as they ore at an immense distance from one another, meet in their cxcurions after prey. If there subsiits 00 animosity betwecu them, which seldom is the case, they belave in the most fineadly and couteots mamer, hat if they lappen to the in state of wat, on if there has been po previous intercourre betiregh them, all whio aro not friends are decmied ecoenics uid they figlit with the indot savage dury.
Agan if we except hurating if the only employmen of the men; as to every othor noncem, and even the ditie agnealture they enioy, at ls left to the wotaen. Their nloat conmion motive for entering toto war, When it doest not arise from on accidental rephcoupter or interferchce, is eitier to revenge theinselves for the death of some lost friends of to acquiro prisoners who mas assist them in their hunting, andowhom they adopt into then socety These wars are cither undertakion by some private atventurers, of at the instance of the whole community. In the latter catc, all thic yourg men who ife difpored to go out to hatele (for no one is compelled contraty to bis life clination,) rgive a hit of niod to the chief, as a token of theif desiga to accompany him: for eiery thing among these prople is transacted with a great deat of cercmony atid miny forms The chicf who in to conduet them flitt sevenit days, daring which ho converes, with no one, and is particularly cardul to ubserve his dreames which the:

* presimption natarat to savages genorally renfers an favoirable as the could desire A Tantly of other superstitians and ceremonies aro obverved Ono of the meat hideous
 thinis enemies; which, ariong-sonie crations, muat formerly have been the cose, sinec they still contimue to express it in clear tecms, mot use an embiemsigniticant of the antient ushee. Inen they dispatetrn porcelain. or fargeashelt, to their allies, inviting
 their alliuncer must not only adogit their cumities, put have their resentment wound up to the samepitch with thernselves And indeed no people carry their friendship or their reseatmente to far as they do, and this is what would be expected from their peculiar
 tions, acts with so much the greuter force the more it is reitramed. The Americans who live in smafl societies, whonecifew opgects and tow persons, become wonderfuily attactied to those objects and persons, nad cannot be deprived of them without feeling themsetves mbicrable.

Their ideas are too couffined to conuble them to entertain jont sentiments of thmatuity or unirersal benovolerice. But this very circumstance, while it makes theat cruel and sivage to an incredible degree, towards thoge with whom they are at way, hdds a neiv force to
 tribe of of those difforent tribes which are in ailiance with ong another: Withoat attend-

## $\triangle$ MERCA

 luforming our reasoh, und we should be hemblidered in o number ut maricenars, scouning opposite fo one another, without being acmabld of the geharil come foutatight they procoed.

Having fushed all the cercmonies prestoos to the cror, fand the day appotuted for the seting out on tieir expectition belag anmed aligy tate Icasp of their frocuth and












 thie, the number of chlpuorprisoness they huve taken

Their miltary stress in extemely singular. Tiog cif of or mint buth int theis



 much resenbling die modern pompout Sieir hieads are patiled ret doman to tho






 from tien math
The great qualities in min Indian why are vigionec and atrention, 60 aive and mo asoid

 necestity, and living int weiv sespect ucrocdinht to nature, their externil cenes hime a






## AMERICA

they passeal, wher an European could not with alil his glasses, dustinguinh footstape at
 are io tess acquinted with them. When they es out, therefore, they take care to
 They ifigh no fire to warm thenseive, of to prepan tucie vietmais thoy lie clow to the fromed all ftio day, wis travel only in the cught; and umarching alonif in files, he jist Sloses the-rear diligently eovers with inaves the tamta of his own feet, aud of theins who
 foifeg the combry, and beat upe very place where thoy suspect an enemy to he conecatenh In tide manuer they enter unayanes the vilages of their foes and white the flower


 ing on fil aront fgamt them, they throw themselves flat ou fac groaud, among the with-



 the aiverec paty, as soon us they raise themgetves irpun the grouph to gre a second fire
 incagable of finther censtance. Bive if the force ve earin sido continues nearly equak the fieroer sparits at the savagus, inthoned by dye fess ot their ments, can no onger be

 with the biterea icproncilat. A crueh combut critics, death appeary in a-thoasanh hitievis torms, which would congeal the blood of civithed nitions to behoid, but which

 ing tueir ibeth. The fitme rages on till if meets with no resistauce; then the prisoners

 the frieads they have lest. Ihngrupprouch io a melancholy and serere gloom to theis own village, 4 mhstenger is srot to donomince their arviva, und the women, with frighte fuf striaks, conie out to moantien dehi trothers or their mushands. it hen they ire
 particular of ite expedition: Thi otator proclainin aloug this aceount to the poople), and us fie mentigns the nimmes of thise wha have fulfen, the stinck of the wotuct are


 the nation ofl than are yiped from thein eges and by an ynacroumable traisitionh

the tratment of the prisoners, whose foto all this time remanas undecided, is sthat chiefly characterises the sirvages.

## We have nifeady mentioned the strength of their affections of resentanems. Elnite

 as they are tir smatl socioticy, conncated within themselves liy tho firmest ties, Vicir friendly affections, which glow with thie sugt imenst sompth within the walls of their onn village, sediom extend beyond them. Thay wed tuthing for the cnctuies of their uation; and thigit resentineat ie cisily estended frobit the individual who bas injured them, to alf oujers of the same tribe the prisopers ntog, have themselves the same foelngyt and know the intentions of then coufuerars hat are preparcd for flicm. The person who has tiken the captivo intends bint to the contiges where, nocording to the ditribation unade by the eliters, he is sto be delivereh to gupply the los of at sitizen. If thole who recelve tim have theif fimity meakened he fhat of etion peciterty adopt the captive into thic fainily, of whech lic becomes a thember. But if they thane occasion for himin or their refentinent for the loss of their ficeni be too high to endare: the sight of mny coniceted whit tiose who were concemed in it, they sentence thim to death.Alf thogep who liave tuet with the sarre severe sentenco beire collected, the whole pation is pesectiled ats the exccution, an for sotne great solemuity 11 xcafiold is ereeted, and the prisoners'are fica to the stake, where they commence their doath-xong, and prepare for tha ensaing scene of entrity with the misst monanted courage their
 and exquisite torturcs They begin at the extenity of bis fiote, avit graduatly approach the more vital parts, Ond pluchs out his nails by the root one by one ; ano-

 cobacco: then they pound his toes and fingers to pleces betwoen tivg stowes they cut circles ahout lis joines, and grahes in the flesty parts of tis limbs, which they sem civith celdiot irons, cutting turnine mal piaching them atternately; they puit ofi the flesh.
 face with the blood in an eotimiavin of horror and farylv, When thicy have, thay tom off the flesh. they tint the bare nerves mid tendons ylowt an trou feraring mini gapfing them whitst others ure employed in paling shit exturding, theif limbs is every
 times, such is theparenigth of the savnge, days aggetier. Then they fioquently unbint him, to give u brenthing to zheir fary, mud to think what new tornemts thcy a fall iatict, and to refreah the atrength of the sufferer, who, weancd out wath shech a yarity of unheard of torments, often fals into so protound a steen thith they are obliged to spiply
 ant again they renciw thin cmelty they steck him all over with suall mateinesof wood, that conily take fire tiat burn alowly, they continually kum sharp wect ioto every port




## AMERICA.

ner as to carry nothing human in it; after having peeled the skin from the head, and puried a heap of red-hot coals or boiling water on the naked skull, they once more wobigd the wretch ; who, blind, and stoggering with pain und weakness, assaulted and pelioi on every side with clubs and stonef, now up, now down, falling into their fires at evely step, runs hifher and thither, until one of the chiefs, whether out of compassion, or wresry of cruelty, puts an end to his lifo with a club or dagger. Tho Lady is then put iato a ketrie, and this barbarouk employtaent is uucceeded by a feast as barlargus.

The women, forgetting the haman is weft as the fumale nature, and trnnsformed into sownething worse than furies, even, outdo the mea in this scene of borror; while the principar persons of the country sit round thie stake, smoaling, and looking on withTheylie least eniotion. What is most extraordioary, the sufferer himeself, in the little inturvals of his torachts, smokes too, appears unconcerned, and converses with his torturers about indifferent mutters. Indeed, during the whole time of lis execution, there seems a content which shail exceed, they in inflicting the most hiorrid pains, or he , in eaduring thom with a fromess and constancy almost above buman: not a groan, not a sigh, not a distorition of countenance escapes him; ho possesses his mind entirely in the midst of his tormcuts ; he recounts his own exploits ; ho informs them what cruelties lio has inflicted opon their countrymen, and threatens them with the revenge that uill attend his deuth; and, though his reproaches exasperate them to a perfect madnes of rage ind fury, he contluics his insits, even of thicir igmorance of the art of tormeating, pointing out hataneff more exquisite methods, and move semsibie parts of the body to be affictod. The wormen lave this part of courage as vell as the usen; and it is as rare for an Indian to behave othervisc, as it would be for tia European to suffer as an Indian. Such is the wonderfal power of iut carly institution, and is ferocious thirst of glory. "I am braveand intrepid," exclaims the savage in the face of his tormentors, "I fear not death, nor any kind of tortures; those who fear them are cowands; they are less than wotien; life is nothing to those who bave courage: way wy enenies be confounded with despair and raga! Oh! that I could devour them, and drink thicir blood to the last drop !
But veither the intrepidity on one site, nor the inflesibility ou the ofter, are among themselves matters of astonishment: for vengeance and fortitude, in thi midst of torment, wro dation which they colisiter is sucred; thicy we the affect of their earliest education, and depend upoa prineples instilled finto them from their infuncy. On all other occasions they are hamane and cotupassionate. Nuthing cin execed the warmath of their affections towards thicir frietids, who contist of all those who fire in tho same village, of are in altiance with ii. Among theve all things are common; and this, though it may in part arise from their not poseessing very distinet notions of separate property, is chiefly to be eltributed to the strength of thicir attachacent ; becausa in ewery thing else, with their lives as well as their fortunes, they are ready to serve their flicuid. Their louses, thetr provistons, cren their young women, are fiof enough to oblige a guest. Has any one of these succeeded ill in his Imating? has his harvest fallelf or is his bouse burned? Ho feols no other effect of his misfortunes, that that

VoLit

## AMERTCA

it gives him an opportanity to experience the benevolence and regard of his followcitizens.
On the other hand, to the enemies of his country, or to those whe lave privatel offended biin, the American is implacable, He conceals his sentiments, be appears reconciled, until, by sone trenciery or surpise, he has an opportunity of executing an horrible revenge. No length of time is sificient to allay his resentments : no difthace of place great enough to protect the oblject: he cromen the teepest mountains; he pierees the mosy impructicabie forests, and traverses the most hideons bogs and deserts for several hundreds of mile:; bearing the inclemency of the seasoms, the fatiguo of the expedition, the extrenies of tumger und thirst with patience and ebieerfolines, in hopes of surprising his enemy, on whom be "exercies thio most shocking barbarities, even to the eating of hiur tlesh. To such extremes do the Indians puah their fiemded or their enmity ; mad such indeed, in genemal, is the character of all strong and uncultivated minds.
But what we have anid respecting the Judians, would be a faint picture, did we omit obterving the forec of their friendship, which principally appears thy the treatment of thicir dead. When any one of the society is cut oif, be is lamented ly the whole: on this oceasiou a thousand ceremonies are practised, denoting the most lively sorrow. No business is trmanated, however piessing, till all the pious cerrmonies due to the dead are performed, Then the wromen fament the loss with hideous howligg, fintermixed with songs, which celeloate the great actions of the deceased and bis ancestons. The men mourn in a lees extravagant niantier. The whole village is present at the interment, and the corpse is habited in their most sumptuous ormaments. Close to the body of the defunct are placen lis bowr and arrows, with whatever ho valued most in his life, and a great quantity of provision for his subsistence on the journey which he is supposed to take. This solemnity, like every otber, is attended with feasting. The furneral being ended, the relations of the decaseed confine themselves to their huts for a considerable time to indulge their grief Atter an interval of some weeks, they vilit the grave, repeat their corrow; dew colthe the femains of the body, and act over again alf the solemuitios of the famernl.
Aniong the various tokens of their regard to their deceased friends, the moat remarkable is thite they cull the feast of the dead, or the feast of souls The day for this ceremony it appointed in the council of their chicfe, who give orices for every thing which may enable them to celebrate it with pomp and magnificence, and the neighbouring nations are invited to partake of the entertainment. At this time, all who have died since the precoding feast of the kind are taken out of their graves. Even thiose who have been interred at the greatest distance fram the villages are diligently sougbt for, and conducted to this reudezvom of the dead, which exbibits a scene of horror beyond the power if tescription. When the feast is concluded, the bolies are dressed in the fincst skins suich can be procured, and after being exposed for some time in this powp, are again committed to the carth with great solemnity, which is succeeded by funeral gumes.

- Their taste for war, which forms the chief ingredient in their character, gives a strong


## Auberica.

Lias to their religion. Areskoni, or the god of batde, is revered as the great gol of the fodlans. Him they invoko before they $\mathrm{g}_{\mathrm{o}}$ into the field, und necording as lis clisPyition is more or lass favourable to them, they conclude thioy nill be more or less zuccen 1. Some nations morship the sun and mooa; among othens there aro a qumber of tentions, relative to the creation of the world and the history of the gods: thaditions, which rovenble the Gifceian fillis, but which aro still more abeurd and inconsistent.

But religion is not the previling character of the fndians; and except when they have tome fmmodiate oceasion for the assistance of their gods, they pay tbem no 'sort of moralip. Like all rede untions, however, they are strongly eidieted to soperstition:
 - /ge in the affairs of mortals, and produce all our happieess or vilery. It is from thic ent gevili, in particular, that our disenses proceed; and it is to the good geail we are iodelitel for a cure. The ministers of the genil met the jugglers, who are also the only paysiciass aniong the saviges. The jugglers are supposed to bo inspired by the good genii, met commenty in theic trentis, with tion linomicige of fiturc events; they are called in to the asastanee of thie siek;, and aro supposed to be informed by the geatio whether they will get over the disease, und in what way they wint be treated. Blat those spirits are extremely simple in their system of physic, and in almost every discase direet the juggier to the same remely. The patient is inclosed in a naroow cabin, in the midet of whith is a stone redliot; on thin they throw water, uatil he is well sonked with the wann vapour and bis orn ancht. Then they burry lifn fiem the begnio, and plengec him suddenly into the next river. This coarse metiod, which coasts many their lives, often performs very extraordinary cures. The jugglers have liliewise the use of some specifics of wosiderful efficacy ; and all the saviges are dexterous in curing wounds by the application of herts. Dat the power of these remedies is alanys atuributed to the nungient ceremonies with whiel, they ame metrinizitered.

Though the nomen geserally bear the laborious part of domestic economy, the greatest respect is prid by the men to the female sex. The women even bold their councils, and bave tiecic siaure in all deliberations which concern the state. Polygamy is practisod by some nations, but is not general. In most, they content themselves with ono wife: but a - divorce is admitted in case of adoltery. No nution of the Amerieans is nithout a regular marriage, in which there are many ceremonies: the principal of which is, the bride's presenting the bridegroom with a plate of their corn The women, though before incontincth, are remarkable for chatsity atier maniage

Liberty, in its foll extent, being the darling pastion of the Indaans, their celucation is directed in such manner as to gherish this dispusition to the utmost. Hence children are never on any account chastised with blows, and they are soldom even reprimanded. Reason, they suy, will guide their clildtan, when they come to the use of it, and before that timie their fuilts cancot be vefy great: but blats may danyp their froc and martial spirit, thy the hatit of a slavish mative to action. When grown up, they experieuce nothing like command, dependance, or subordination ; even strong persuasion is indastrioutly witheld, by those wha liate ifluence among them No man is held in

## AMERICA.

great esteem, unless ho lias increased the strenigh of his country with'a captive, of adorned his hut with the scalp of one of his curmies.
Controversies among the ladians are few, und quichly decided. When auy cipoinat matter is so flagrant as to become a national concern, it is brought under the Xridiction of the great council; but in ordinary cases, the crime is either revenged or cowpromised by the parties concerned. If a munder be committed the family which has lost a relation prepare to retaliate on that of the effender. They often kill the murderer; and when this happens, the kindred of the lest person thin look upon themselves to be as moch injured, and to liave the sande right to vengrance as the otluer party.
In gewerul, lowever, the offender athesto himsui); the friends sent compliments of condolence to thaso of the person that has been murdered. The hicod ofretio farrily at length appears with a number of presents, the delivery of which lie accompanies with a formal syeech. The whole conds, as usual, in mutull frasting songs, and datices. If the murier bo committed by one of the rame fiumily or cabin, that cabin has ' the fill right of judgment within itudf, either to purish the guilty with death, or to pardon lifm, or to oblige him to give some recompence to the wife or clilatren of tho slain. Invtanees of such a crime, however, very seldoui happen; for their attachment to those of the same fanily is remarkably strong, and is said to produce such friendships as may vie with the most celelrated in fabulous antiquity.
In general the American Indians live to a great age, alliongh it is imposible to know from themselves the exact number of their yeans. It was naked an Indian, who apperired to be extremely old, what age he whas of " 1 am above twenty," was the repiy. Upon putting the question in a different form, by reninding hiar of artain circumstances in former times, "My macha," wid he, "spoke to me when I was young of the Incas, and he had seea the Incas prinees". According to dibis reply, tiere metist liave elapsect, from the date of his miehn's (his grandfither's) remembennce to that time, a periat of at least 292 years. The man who mode this reply appeared to be 120 years of age; for, beside the whitevess of his hair and beard, bis body was bent to tho ground, without, howeros, slioving ing other marks of debility or suffering. This happected 1766 This longevity, ittended in general with unimetrupted health, is probably the consequence in part, of their vacancy from all serious thoughts and employment, joined also with the robust texture and conformation of their bodily ongans. If the Indians did not destroy ouc another in their alnost perpetual wans, and if their habils of inporication were not so universal and incurable, they would be of all the race of men who inhabit the globe, the most Mikely to prolong not only the bounds, but the enjogweints of animal life to their utimost duration.
We finve now described several important traits which distinguiah the inhabitants of the western continent; but it is necessary, before we quit this sulject, to obsornc, that they are very varioulf represented thy their fiends and their anemich The latter deny their personal courpge, and asert that there is no instance either of a single Indian facing an indivitatal of any other mation in fair open combat, or of their jointly venturing to try the fate of battle with an equal number of any focs. The former, ill answer,

## AMERICA.

remind us of the indefatigable perseverance and ineredible potience in suffering, which 4ce evinced in their ladian warriors. On the one side we are told of their combining pertidy with cruelty, on the other it is alledged that it may be fairly questioned, whether the inatum of these, either is respect of their numbet or their atrocity, bo at all comparable to those exhibited in European history, and staining the annals of Christendom; to those, for instance, of the Spaniards themselves, at their first discovery of America; to thase indieated by the engines found on board their mighty armada; to those which in cold blood were perpetrated by the Dutch at Amboyna, to the dragoonings-of the French; to their religious massacres, or evein to tho terder mervirs of the inquisition.

A certain set of theorists, at the, head of whom is the Count de Buflon, bave asserted not only that the moral qualities of the Afericans are depraved, but that their minds arefeeble, their bodies diseased, and even the number, size, and fierceness of their animuls are diminished, in consequence of the cold and moisture of their climates. The atbe Clavigero, on the contraty, asserts, from an intimate acquaintance nith many of thoir notles, their artists, and their students in the coltege of Gincaloupe, that they are capable of all, even the most abstract sciences, and that if equal care were taken of their education, we shonld see rise among the Americans, philosophers, mathematicians, and divines, who conld rival the first in Europe.
That their bodies are by do means enfeebled or diseased, is argeed from their agility, their perseverance in sostaining the fatigues of war, and the longivity at which they sometimes arrive. Iables have been constructed which have given a comparative view of the quadrupeds of Europe and America. The resuit of this vews is, that of 26 quadruperls common to both countries, seven are said to be target in America, seven of equal size, and 12 not sufficiently examined. The result of the second tuble, which arranges the animals found in one of the two coantries only, is, that there are is quadrupeds pectitir to Europe, 74 to America; and that the first of these 74, the tapir, the largest of the animals peculiar to America, weighs more than the whole column of Evropeans.
The third table comprehends those quadrupeds only which are domestic in both * countries. That some of theje, in some parts of America, have become less than their common stock, is doubtless true; and the reason is very obvious. In a thinly peopled comtry, the spontaneous productions of the forests and waste fields are suffcient to stipport indifferently the domestic animals of the farmer, with very little aid from lium in the severest and scareest season. He therefore finds it more convenient to receive them from the hand of nature in that lidifierent state, than to keep up their size by eare and nourishment, which would cost lim nuch labour. It appears, however, from the weights netuaily fruown, and stated in the third table, that with equal food and care, the citmate of Americt will preserve the races of domestic animals as Jarge as the European stock from which they ure derived.
The reader may probably be now disposed to inquire from what part of the world America has reecived its inhabitants, and if probable conjecture may be admitted to our assistance, this is not a question of very difficult solation,

Von'- 1

Thie two continents of Asia and America are scpanted only by a strait of 39 miles in breadth. In this strait are tro islands, which must greatly facilitate the migration of the Asiatics into the New World. Desides, it many be added, that these straits in the summer often filled with ice, and in winter often frozen. In cithes fass, mankind migtt fiod an casy passare ; in the lact, the way was extremely reody for quadrupeds to cross and stock the contincent of America.
It is also an opioion eatertained by many learned men, that this strait did not formerly, exist, but wastawsed by one of those violent convilsions which succeeded the deluge: and if this disruption of the continents did not the place rill after America was peopled, it solves all dificulties in the easiest possible wny. It appears, therefore, that a migration of men and naimala from the old to the nelir world was abundantly possible; and that it really was effected, wo have pretty evident proof, from the atriking similarity of maneres between the Tartars of Asia nad the Esquimaux of Amerion.
It is believed by many, that the antients had some imperfect notions of a New. Wofld; and several antient euthors are quoted in confirmation of this opphion.

In a book ascribed to the phailosopher Aristotion we ame wild that the Curthaginians dis covered an island far begond the pillara of Hercules, large, fertile, and finely watered with navigable rivers, but uninhabited. This island ras distant a fow days: sailing from the continent. Its beauty induced the discoverers to settle there, but the policy of Carthage dislodged the colony, end laid n strict protibition en ail the subjects of the state, not to attempt any future establishment. This accouat is abo confirmod by au historian of no mean credit, who relates that the Tyrians would have settled a colony on the new discovered island, but were opposed by the Carthagiuians for state rensons. Seneca and other authors are also quoted in support of this belief. But however this may be, nobody ever believed the existence of this contivent so firmly as to go in quent of it; at least there are no agcounts well supported, that America received any part of its first inhabitants from Europe prior to the 1 sth century. The Welch fondly imagine that their country contributed, in 1170 , to people the New. World, by the adveuture of Madoc, son of Owen Gwynedd, who, on the death of his father, sailed there and colonized part of the country. All that is advanced in proof is a quetation from one of the * British peets, which proves no more than that he had ditinguished limelf by sea and fand. It is pretended that he made two vayages ; that sailing west, he lef. Ireland so far to the north, that lie came to a land unknown, where lie anw many strange things; that he returned bone, and making a report of the fruituilness of the new discovered country, prevailed on numbers of the Welch of each sus, to mecompany bim on a second voyage, from which be never returned. Tho favoureni of this opinion assert, that several Weleh words, such as gurnudo, "to hearken or listen," the islo of Crreso or "Welume." Cape Breton, from the nanie of Britain: gryydar, or "the stite water;" and Pengwin, or "the bird with a white liead," are to be found in the Amencan language. But likeness of sound in a few words will not be deemed sufficient to watablish the fiect; especially if the meaning has been evidently perverted; for cxample, the whole pengwin ,tribo have unfortunately not only black heads, but are nut inhabitants of the northern

## A.JEHCA.

hemispliere : The mame was alsa bestowed on them by the Dutch, a pinguicdine, from their excessive fitnoss : but the inventor of this, thiaking to do honoor to his native cantry, inconsiderotely caught at a word-of European origio, and umheard of in the now Nid. It might be added that the Weleh were never a naval people; that the ape in which Madoc lived was peculimly ignorant in navigation; and the most which they eculd have attompted must have been a ubere coasting voyage.

The Norwegians put in for a share of the glory, on grounds rather better than thie Welch By their settements in Iceland, and in Greenlant, they had arrived within so small a distance of the new world, that there is at least a possibility of its having becta touched at by a people so versed, in matitime aftains and so adventurous as the untient Normans ivere. Thie proofs are much more numerous then those produced by the Bltish listorians ; for the discovery is mentioned in several of the islandic manuseripts. The period was about the year 1002, when it was visited by one Biorn ; and the discovery pursued to greater effect by Leff, the son of Eric, the discoverer of Greentand. It does nok appear that they reached further thau: Labrador ; on whidir coast they inet with the Esquimaux, oin wlion they bettowed the name of Skraelingaes, or dwarfish people, from their small stature. They were armed with bows and urrows, and liad leathem canoes, sueh as they have at present. All this is probable; nor should the tale of the Geruan, called Tuikill, one of the crew, invalidate the account. He was one day missing ; butsoon returued, leaping, and singing, with all extravagant marks of joy a borrvivait could abew on discovering the inebrating fruit of lis country, the grope. Torfacus event says, that hie retorned in a state of firtoxication. To convince his commander, lie bruughit several bunches, who from that circumstance named that country Vinland.

It is not to be denied, that North America produces the true vine; but it is found in far lower latitudes thin our ndventurers could reach in the time employed in their voyage, which was comprebended in a very small space. There appears no reason to doubt the discovery ; but as the land was never colonized, nor any advantnges made of it, it may fainly be conjectured, that they renched no farther than the birren country of Labrador. In short, it is from a muetr later period that we must date the real discovery of Anserica.

Among the foreigners whom the fame of the discoveries made by the Portuguese had allured into their service, was Giristopher Colon or Columbus, a subject of the republic of Geaoa. Neither the time nor the place of his birth are known with 'certainty, but the was desceniled of an honourablo family, though reduced to indigence by varions misfortunes. His ancestors faving betaiken themselves for subsistence to a sea-faring life, Columbus discovered in his early youti, the peculiar character and talents, which mark out a man for that professloh. Itis parenes, instead of thwartigg this original proporisity of tis mind, seem to have encouraged and confirmed it, by the edocation which they geve hin. After acquiring some knowledge of the latin tongue, the only language in which science was taught at that timo, he was instricted in geometry, cosmogrnphy, astronony, and the aft of draving. To these lie applied with such ardour and preditcetion, on eccount of their connection with navigation, his favourite object, that he advanced whth

## amertica.

rapid proficicocy in the atudy of them. Thus qualified, in the year 1481, he went to sen, ist the ago of 14, and began his career on that olemient, which conducted bim to so muph glory:

His early vogages were to those ports of the Meditemmean which his duntry: mee, the Gienoese frequented. This being a spliere too nantav for bis active mind, he made an exeusion to the niorthiem seas in 1487, anid visited the consts of decland, to which the Fnglish und other nations had begun to resort, on account of its fistery, As navigators in elery direction were sow become enterpriving, he proceded beyonil that island, the Thule of the antients, and advanced sevent degrees wifline the polar cirele. Having antiofied his curiosity ly a woyages whitit teadsd more to enlange hich hoowlevge of naval affiurs, than to improve his fortune, fie entered into the service of a finmois sea captain, of his own name and family. This man combituded a small squadron, fifell out at his own expence, and by cruizing sometimes against the Mahometons, sometines against the Venetians, the rivals of his country in trade, haid acquired both wealth and repatation: With lim Columbus continued soveral years, no leis distinguisted for lis courage, than for his experience as a ssilor. At length, ia an obstioute cogagement off the coast of Portugit, with some Veictian caravels, returning richly laten from the 1.0 or Countries, the vessel on board which he served took fire, together with one of the einemy's ships, to which it was fast grappled. In this-dicadfol extrenity, lits interpidity and presecee of inind did not forsake him. Ho threw thimself into the sea, laid bold of a floating oar, and by the support of it, und his dexterity in swimuming, he resched the thore, thiough above tiro lemgucs distant, and saved a lifo reserved for great undertalaing.
As soon as he recovered strength for the joumey, he repaired to Lishoi, where many of tis conatrymen were setted, They some concelved a farouratio opinion of his inerit, as well as tefents, that they warmly Enlicited lims to remain in that lingdom, where his naval skill aud experience could not fail of rendering hith conspicuous. To every adventurer, anionated citber with cariosity to visit new coustries, or with ambition to distinguish hinself, the Partuguese sarvice was at that time extremely iaviting. Columbes list-

- ened with a favourable car to the advice of his friends, and having gained the esteem of a Portaguese ledy, whom hee married, fixed his reefifence in fisbort. This sllfance, instend of detaching film from a sed-airing life, contribated to enlarge the spbere of his maval knowiedge, anil to excite a desire of exteading it still fartier. His wife whs a daugliter of Bartbolomenv Pereaticlio, one of the captains employed by prince Henry in bis carly navigations, and who, under his protection, had discovered and plantod the islands of Porto Satto and Marim Cotambur got postetsion of the journals and atharte of thie experienced navigator, and from them the learned the course which the Portuguete bad heid in making tiecir diecoveries, as well as the various circumstabces which guided or encouraged them in their attempts. The study of these soothed and inflamed his favourite passion ; and while the contemplated the maps, and read the description of the new countrics which Perestelio had sece; his impatience to visit them became ieresistible. It order to indulge it, he nuade a voyage to Madeira, and continued, during several year, to thade with that ifhad, with the Camaries the Arores, the settements in Guinet,


## AMERICA,

and all the other places, which the Portuguese had discovered on the continent of Africn. Bo the experience which Columbus acquired during such a variety of voyages to almot every part of the glotie, with which, at that time, any intercourse was carried on by sex, he was now bacome one of the most skilfal nivigators in Europe. But, not satisfied with that praise, his ambition aimed at something more.
To find out a passage by sea to the east Indies, was the great object in view at that period. From the time that the Portuguese doubled Cape de Verd, this was the point at which they kimed in all their invigations, and in comparison with it, all their discoveries in Africa appeared inconsidernble.

The fertility and riches of India,hud been known for many ages; its spices and other valuabter commodities were in high request throughout Europe, and the vast wealth of. the Venetians, arising from thieir living engrosised this trade, bad rained the envy of all nations. But how intent soever the Portuguese were upon discovering a new rout to those desirable regions, they searched for it only by itecring towards the south, in hopes of arriving at India, by turaing to the east, after they had suilod round the farther extremity of Affica.

This course wus still unknown, and, even if discovered, was of such. immense length, that a voyaue from Europe to India must have appeared, at that period, an undertaking extremely arduoss, and of very uncertain issue: More then half a century had becu employed in udvancing fromi Cape de Verd to the equator; a much longer space of tiuie might elapse before the more extensive navigition from that to India could be accomplished. These reflections upon the uncertainty, the danger, and tediousness of the course which the Portuguese isere pursuing, naturally led Columbus to consider whether a shorter and more direct passage to the East Indies might not be found our. After revolving long and seriously every circumstance suggested by his superior knowledge in the theory as well as practice of navigation, difter comparing attentively the observations of modern pilots, with. the hints and conjectures of antient authors, he at last concleded, that by sailing directly towards the west, across the Athantic ocean, new countries, which probably formed a part of the great conitinent of Iodia, must infallibly be discovered.

Trinciples and arguments of various kinds, and derived from different sources, induced hitn to adopt this principle, seemingly as chimerical as it was new and extraordinary. The spherical figure of the earth was known, and its magnitude ascertained with some degree of accuracy. From this it was evident that the continents of Barope, Asia, and Africa, as far as they were knowit at that time, formed but a small portion of the terragueous globe. It was suitable to our idoas conceraing the wisdom and beneficence of the author of nature, to believe that the vast space still unexplored, was not covered entircly by a waste unprofitable ocean, but occupied by countries fit for the hatitation of man. It appeared likewise extremely probable, that the continent on this side of the globe was balanced by a proportional quantity of land in the other bemisphere. These coneldsions concerning the existence of another continent, drawn from the figured structure of the globe, were confirmed by the observations and conjectures of modera navigators.

[^5] Vol. I.

## AMEREA.

up a piece of timber, artificially, carved, floating upon the sea: and as it was driven to wards him by a westeriy wind, he concluded that it came from some unknown land sity sted in that quarter. Columbus's brother-in-law had found to the west of the Mafora isles a piece of timber, fasthioned in the same manoer, and brought by the samp find; and had likewise seen canes, of an enormous simg, floating upon the waves, wtich resembled those describod by Ptolemy, as productions peculiar to the East Indics. After a course of westorly winds, trees, torn up by the roots, were often driven upon the coast of the Azores, and nt one time, the dead bodien of two men, with singular fentures, me sembling neitter the inlabitants of Furrope nor of Africa, vere cast on sliore there. As the forces of this unitect evidence, arising from *heoretical priaciples and practical observations, led Columbus to expect the discofery of nevi countrios in the Weiterg occan, other reasons induced him to believe that theso must be connected with the contivent 'of India.
Though the antients had hardly ever penetrated into India, farther than the banks of the Ganges, yet some Gireek authors had ventured to describe the provinces beyond that river. As men are prone, and at liberty to magriify what is remote or unknown, they represented them as regions of an immeuse extent. Etesias affrmed that India was as large as all the rest of Asia. Onesicitus, whom Pliny the naturalist follows, contended that it was equal to a thind part of the labitable earth. Nearchuls asserted, that it would take four months to march in a strigitit line from one extremity of India to the other. The journal of Mares Polo, who had proceeded towards the east, far beyond the linuits to which any European had ever advanced, seconed to confirm these exagyerated accounts of the antients. By his magnificent descriptions of the kingdoms of Catha, Cipango, and of many other countries, the names of which were unknown to Europe, India appeared to be a region of vast extent. From these uccounts, which, however defective, were the most accamate that the Furopeaus had received at that pesiod, with respect to the remote parts of the East, Columbus drew a just conclusion. He contended, that, in proportion as the continent of Indian stretched out towards the east, it mast, in consequence of the splerical figuse of the eurth, approach nearec to the islands which had lately been discovered to the west of Affica ; that tho distancóo from the one to the other was not very considerable; and that thic mot- -lirect, as well we shortest course, to the remote regions of the enst, wnas to be found by sailing duo wort. This notion concerning the vicinity of Iodia to the western parts of our continent, was countenanced by some eminent writens among the antients, the sunction of whose authority was necessary in that age to procure a fivourablo reteption to any tenet. Aristotlo thought it probable that the column of Hercules, or the straits of Gibraliar, were not far removed from the east Indies, and that there might be a communication of sea between them. Seneca, in terms still more explicit, affirms, that, with a fuir wind, one might sail from Spain to India in a few days. The famous Athutic island described by Piato, and supposed by many to be a real country, boyond which an unknown contincent was situated, is represented by him, as lying at no great distance from Spain After weighing all the particulars, Columbus, in whose, character tibe modesty and diffidence of true geniuas scre united with the ardent enthasiasm of a projector, did not rest with such absolute
assurance, cither upon his own arguments, or upon the authority of the aatients, os not te consult such of his cotemporaries, as wore capable of comprebending the pature of the vidence which he produced in support of his opinion. As early as the year 1474, he eotruunicated his ideas concerning tho probability of discovering new countries by suiling westward, to Paul, a plyslcian of Nlorence, eminent for bis knowledge of cosmography, and who, from the learning as well as candour which ha discovers in his reply, appears to have been well entitled to the confidence which Columbun placed in him. He warmly approved of the plan, suggested several facts in confirmation of its and et1couraged Columbus to persevero in an undertaking 20 laudabic, and which might redound so much to the bonour of his country, and the benefit of Europe.

To a minil leas capable of forming and of execeuting great devigus than that of Columthus, all those reasons, observations, and authorities, would have served only as the foundation of some plausible and fruitless theory, which might have furnished matter for: ingenious discourse or fancifill conjecture ; but with his sanguine and enterprising temper, speculation leads dircetly to action.

Fully sutisfied himself with respect to the truth of bis system, he was impatient to bring it to the test of experiment, and to set out upon a vayage of discovery. The first step towards this, was to secure the patronage of some of the considerable powers of Europe, capable of undertaking such an enterprise. As long absence had not extinguished the atiection which be bore to his native country, he wished thet it should reap the fruit of his labours and invention. With this view, he jaid lis scheme before the senate of Genoa, and making his country the first tender of his-service, offered to suil under the banners of the republic, in quest of the new regions which he expected to discover. But Columbus had resided so many years in foreign parts, that his countrymen were unacquainted with his abilities and character; and though a maritime people, were so little accustomed to distant voyages, that they could form no just idea of the principles on which he founded his hopes of success. They inconsiderately rejected his proposal, as the dream of a climerical professor, and lost for ever the opportunity of restoring their commonwealth to its antient splendour.

Ifiving performed what was dre to his country, Columbus was so litte discouraged by the repolie which be had received, that, instead of relinquishing his undertaking, ho parsacd it with fresh ardoar. He made his néxt overture to John II, king of Portugal, in whose dominions he had been long establisbod, and whom he considered, on that account, as having the second clain to his service. Heie cvery circumstance seemed to promisa lim a mure fivouratle reception. He applied to a monarch of an cuterpristing gcuius, tio incomipelent judge in naval affiars, and fond of patronizing cvory attempt to discover new countries. His snbjects were the most dxperienced navigators in Purope, and the least apt to be intimidated, either by the rovelty or boldness of any mari= time expedition ; in Portugal, the profescional aliti of Columbas, as well as his personal good qualities, were thoroughly known; and as the former rendered it prubable that his schenie was not altogether visionary, the latter exempted him from the sospicion of any shatiter intention in proposing it. Accordingly, the king listenid to hin in the most gracious mamner, and referred the consideration of his plan to Diego Oitis, bishop of

Ceuts, end two Jewish physicians, eminent cosmographers whom he was accustomed to consilt in matters of this kind. As in Genos, ignorance tad opposed and disappojped Coluinbus, in Listiou be hal to combat with prejudice, nu encay no less fornd (able. The penons, aceording to whore decivion lifs scheme was to be adopted or rejieled, hail been the chief dircetors of the Portuguese navigators, and had advised to search for a passage to India, by ateering a course directly opposite to that which Colaubus recommended as shortor and more certain. They could not therefore approve of his proponat without iubiniting to the doible mortification of condemning their own theory, and of acknowledging fiis superior sagacity. After teaxing uifm with captious quiestions, und starting innumerablo objections, with a vicer of betraying hime into such, a particular explamation of his system, as might draw from hilm a foll discovery of its mature, they defered passing a final judgment with respect to it. In the mean time they conspired to rob him of the honour and advantages which he expected from the success of his achemes, sedvising thie king to dispatch a vessel secretly, in order to attempt the proposed discovery, by following exactly the same course which Columbtus seemed to point out. John forgeting, on this occasion, the sentiments becoming a monarch, nearly adopted this perfidious counsel; but thie pilot chiosen to execute Columbus's plan, laid neither the genins nor the fortitade of its author. Contrary wiods arosc, no sight of approaching land appeared, his courage failed, and he returned to Lisbon, execrating the project as equally extravagant and dangerous. Upon discovering this dishosourablo, transaction, Columbus felt tlie indignation natural to an ingenuous mivd, and in the warmuth of his resentment, dotermined to break off all intercourie with a nation capable of such flagrant treachery. He instantly quitted the kingdom, and landed in Spain, towards the close of the year 148s.
As ho was now at likerty to court the protection of any patron, whom he could engggo to approve his plan, and to carry it ioto execution, he risolved to propose it in person to Perdinand and Labella, who at that time governed the united kingdoms of Castile and Arragon, But as he had already experienced the uncertain issue of applications to kings and miaisters, be took the precaution of sending into England his brother Bartholomew, to whom the had fully communicated bis ideas, in order thint ho might liegotiate at the same time with Henry VII. who was reputed poe of the most sagacions, is well as opplent, princes in Europe:
Ferdiand and Isabella, thongh fully occupied by their operations against the Moers, paid so mucti regard to Colambus, is to remit the consideration of bis plan to ithe quecrio confesoof, Ferdinand do Tilazern. Ho consulted such of his countrymen aswere supposed thest qualified to decite, wihh reepect to a sulfiect of this kind. But truc science had litherto madeso little progress in Spain, that the pretended pthlosopliers, selected to judge in a matter of such moment, did not comprehend the fint principles upon which Columbus founded his conjictures and hopes. Some of them, from mistaken notions concerning the dimensions of the globe, contended that a yoyage to those remoto parts of the east, which Colimbus expected to discover, could not be performed in less thani three years. Others concluded, that efther he wonld find the occan to be of iafnite extent, aecording to the opifíiot of some antient phblosophers; or, if he should
penist in stecring towards tlie west beyond a certain point, that the convex figure of the globe would prevent his retarn, afid that lie pitist inovitably perish in the valn attempt Topen a communication between the two opposite hemispheres, which nature lad for erer fisjoined. Even withoat deligning to enter into any particular discussion, tanany rejectecthe scheme in geueral, upen the ctedit of a maxim, under which the jgoorant and unenterprisiog sholter themselves in every nge. "That it is precumptuous in any person to suppose that ho alone posscases knowledge superior to all the rest of mankind enited." They maintained, that if there were really ary such conntries as Columbus protended, they ecold not liave retuained so long concealed: nor would the widom and sagacity of former ages have left the glory of this invention to an obscure Genoese pilot.

It required all Columbu's putience and address to negotiate with men expable of advancing such strange propasitions. He had to contend, not only with the obstinacy of iggorance, but with what is still more intractable, the .pride of filse knowledge. After innomerable conferences, and wasting five years in fruitless endeavours to inform and to sativfy judges so litte capable of deciding with propriety, Talavera at last mado such an unfivouratite report to Ferdinand and Isabelli, as indsced them to acquaint Columbus, that until the war with the Moors should be brought to a period, it would be imprudent to engrge in any new or expensive enterprise.
Though Columbus felt deeply the cruel blow given to his hopes, and retired immediatoly from at court, where he had been amitsed so long with vaiu expectations, his confidence in the justuess of his own system did not diminish, and his impatience to demonstrate the trath of it by an actual experiment became greater than ever. Having courted the protection of sovercign states without suecass, he uppliod next to persins of inferior ramk, and addressed successively the dukes of Men dina Sidonia and Medinn Celi; whis, though subjects, were possessed of power and opulence more than equal to the enterprise which he projected. His negotiations with them proved as fruitiess as those in which be had been hitherto engaged; for theso nobemen were eiffer as litte convinced by Columbu's arguments as their superiors, or they wero afraid of alarming the jealousy, and offending the pride of Ferdinand, by countenancing in scheme which be had rejected. Amid the painful sensations oceasioned by such a succession of disappointrients, Columbus had to sustain the additional distress of having no account from his brothier, whoun he had sent to the court of England. In his voyaga to that country, Bartholomew had been so unfortunate as to fall into the hands of pirates ; who, having stripped hin of every thing, detaived him a prisoner for several years. At length he made his escape, and arrived in London ; but in such extreme indigence, that he was oblliged to employ tiuself, during a considerable time, in drawing and selling maps, in orfor to pick up as mach money es would purchase a decent dress, in which be might venture to appear at court. He then laid before the king the proposals with which he had been cetrasted by his brother; and notwithatandIng Ifenry's excebsive caution and parsimony, whitch rendered him averse to new or expensive undertakings, he received Columbus's overtures, and-with more approbation than any monarch to whiom they had hitherto been presented. Meanwhile, Colurabus being Vol: I.
thenequainted with his brother's fate, and having now no prospect of 'encouragement in Spain, resolved to visit the coart of England in person, in hopes of meeting with a more favourable reception there. He had already mide preparations for this purpose taken mensures for thie disposal of his children during his absence, when Juan Cres, the guardian of the monastery of Rabidn, near Palos, in which they had boen amicated, earnestly solicited linin to defer his jourrues for a short tine. Perez was a tomn of conviderable learning, nnd of some credit with queen Isabella, to whoin he was known-pertonally: He was warmily attuched to Columbus, with whose abillties as well, as integrity lie had many opportunitios of being nequatited. Protupted by cunosity of by frendebip, lie entered upon an mecurate observation of lis esystem, in comjunction with a plysiciam settled in the neighbourliood, who was a censiderabit proficicat in mathemntical knowledge.
This investigation satisfied them so thoroughly, with respect to the solidity of the principles on which Colusiabas founded his opinion, nad the probability of saccess in executing the plan which tie proposed, that Perez, in order to prevent hits country frotn being deprived of the glory and benefit which mest accrue to thie patrons of such a grand enterprise, ventared to write to Isabella, conjoring her to consider tho matter unew, with the uttention which it mierited. Moved by the representations of a persorn whom she respected, Isabella desired Perez to ropair immedistely to the village of Santa F , in which, on accoant of the sigge of Grenoda, the court resided at that time, that she might confer with him upon this impartant subject. The first effeet of their interview wis a gracious invitation of Colambus back to court, accompinied with the present of a atnall sum to equip bini for the journey. As there was now a certain prospect thint the war with the Mfoors wootd speestly be brought to a happy lidue by the relluction of Grenada, which would leave the nation at liberty to engage in new andertakings; this, as well as the wark of rogal favour with which Columbes hed been lately honoured, encouraged lis tifinds to rippear with greater conlidenco thian fornyrly, in support: of his scheme.

The clitef of theso, Alonzo di Ouintanella, comptroller of the finanoes in Castille, and Juis do Santangel, recciver of the ecclesinstical revernes in Arragon, whose meritorions zeal in promoting this great desiga, entitles their mames to an honoumble place in history, introduced Colombus to marry persons of raik, ind interested tham waruly in his behalf. Bot it was not an easy matter to ingpinc Ferdinand with favourable sentiments. He still regarded Columtus's praject as extravagant int chimerical, and in order to render thie efforts of tis partizus fineffectuat, ho tiad the addircss to eitplos in thils netr negotiation with him sotne of the persons who had formerly prorionnced his scheme to be impracticable. To their antonisthuent, Columbin appeured before them with the same coafiderit hopes of suectss at formierly, and farived upon the same high recompence. He proposed that a stall fleet should be fitted oct, under his command, to attempt the discovery; and demanded to be appointed hereditary ndeniral and viceroy of aft the seas and latids which be stioutd dincover, mid to have the tenthis of the profits arising from thoin settled irrevocably upon hinsclf and descendants. At the anme time he offered to advance the eighth part of the sum necessary for-accomplishing his designs,
on condition that he should be entitted to a proportionat share of bene from thel adventure. If the enterprisa should totally miscarry, he made no stipula on for any reinvil or emolument whatever.

1) Ihecud of viewing thas conduct as the clearest cevidence of his full persuasion with respect to the truth of tis owa system, or being struck with, thint maguanimity, which, after so many delays and repulses, would stoop to nothing inferior to its original clains, the persons with whom Columbus treated, began meanly to calculate the expence of the expedition, and the value of the reward which he demandod. The expevee, moderate as it was, they represented to be too great for Spain in the present extunsted stute of its finances. They eontended, that the hongurs and emolaments elaimed by Columbus were exorbitant, even if hie should porform the utwost of what he had promisod, and if all hifs sanguine hopes shoutd provo illasive, such vast cencesions to in adenturer would hio decouod not oaly inconsiderate, but ridiculous. In this inposing garb of caution and prudence, their opiaion appeared so plausible, and was so warmly supported by Ferdinand, that Inabella declincd giving any countepance to Columbus, and aliriptly broke off the nugotfation whth tilin whitidis had begun. This was unord inortifying to Coturubus than all the disappointments wibicir be had hitherto met with. The iovitation to court from 1satiella, like in unexpected ray of light, had opened such prospects of success, as encouraged hiin to hope that his labours were at an end; but now darkness and ancertainty returned, and his mind, firm ak it was, coutd hardly support the shock of such an unforeseen reverse. Ho withdew in deop angaish from coutt, with an intention of proseciting tis vogage to England as his last renyrce.

About thint time Grenada surrendered, and Ferdinand and Isabella, in triumplal pomp, took possetsion of a city, the redaction of which extirpated a forcigu power from the feart of their dominions, and readered them masters of all the provinces, extending from the bottom of the Pyrenees to the frontiens of Portugal. As the flow of spirits whictr accompanies success, elevates the mind sud renders it enterprising, Quintanilla and Sentangel, the vighlant amil discerning patrons of Columbus, took advantage of this favourabie situation, to make one effort more in velalf of their friend. They addressad themselves to Inabello, fuit affer expressing some surjrise, that the, who bad ahvays been the iumificent patroness of generous undertakings, should besitate so long to countenanec the most sptendid selieme that had ever been proposerf to any monarch; they represeritod to her that Columbus was a man of a sound understanding and virtoous character, vell qualified by his experience in mivigation, as well as his knowledge of geometry, to form just ideas with respect to the structure of the globe, aut the sitantion of Its varions regions; that by offarigg to risk lis own life and fortune in the executipu of lifs scheme, he gave the most satiffying eridence, both of bis integrity and hope of snecess; that the sum requisite for equipping such an arniament as he demanded, was incontidenible, and the advantoges which tiight acerue from his undertaking were immense. That he dewanded no recompence for his invecition and mahour, but whint was to arise from tbe countries which he should discover: that, as it was worthy of her magnanimity to make this noble attempt to oxtend the sphere of human knowledge, and to

[^6]faction to her piety and zeal, after re-establishing the Clristian faith in those proviaces of Spain, from which it had been long banished, to discover a new world, to which she might communicate the light anal blessings of divine truth; that if now sho did not degies instautly, the opportonity would be irretricvably lovt; that Columbua was on his vay to forcigt countrics, where some prince, more fortunate or adventurous, would eleke with his proposals, and Spain would for ever bewail the fatal timidity, which had excluded her from the glory and advantages that she had onec in her power to have enjoyed.

These forcible arguments, urged by perions of such authority, and at at juncture to well chosen, produced the desired effect. 'They dispelled all Tsabella's doubts and fears: stic ordered Columburs to te instantly recalled, declared her resolution of emploging time on his own terms, and regretting the low, stite of ler finances, igenerously offered to pledge het own jewelh in order to raise as much money us might be needed in making preparations for the voyage, Santangel, in a transport of gratitude, Kissed the queen's hand, and in order to save her from laving recourse to such a mortifying expedient for procuring moneg, engaged to adrance imuodiately the sum that was requisite. Columbis that procectid some teagues on his jouncey, when thr messenger from tiabella arertook lim. Upon receiving an account of the unexpected revolution in his favour, he returied directly to Santa Fe , though some remainder of diffidence still mingled itself with his joy.

Dut the cordfal reception which he met with from Isatilla, togetlicr with the near prospect of setting out on that voyage, which had so long been the object of his thougits and wishes, soon efficed the remembrance of ull that he had suffered in Spain, during cight tedions years of solicitation and suspence. The negotiation now went forward with facility and dispatch, and a freaty of capitolation with Columbus was signed, on the 17 th of April, 1492. The chief articles of it were, Finit, Ferdinand and Isabelln, as sovercigus of the ocean, constituted Columbus their high admiral, in all the seas, islands, and continents, which should be discovered by his industry; and stipulated that he ond his beirs for ever should enjoy that office, with the same powers and prerogatives which belonged to the high adnirat of Castille, within the limits of his jurisdiction. Second, They appointed Columbers their viceroy in all the islands and continonts which he should discover; butif, for the better administration of affairs, it should bo liercafter necessary to establish a separate governor in any of these countries, they authorised Columbus to name three persons, of whom they would chose one for that office, and the dignity of viccroy, with all its inmmities, was likewise to be hercditary in tho family of Columbus, Third, They granted to Columbus and his heirs, for ever, the tenth of the free profits accruing from the productions and commerce of the countries which he should discover. Fourth, They declared, that if any controversy or Iawfot suit should arise with respect to any mercantile transactions in the countries which should be discovered, it should be determined by the sole authority of Columbus, or of judges to be appointed by him. Fifth, They permitted Columbus to advance one eighth part of what should be expended in preparing for the expedition, and in carrying on commerce with the countries which he should discover; und entitled him in return to an eighth part of the profit. Though the name of Eerdinand appears conjoined with that of Isabella in this transaction, his dis-

## AMERTCA.

trist of Columbus was still fo violent, that ho refused to take any part of the enterprien, as king of Arragon.
Ws the whole expence of the expedition was to be defrayed by the crown of Castille, Isabetha reareved for ber subjects of that kiugdom, an exclusive right to all the benefits which might arise from its suecess.

As soon as the trenty was signed, I labella, by her attention and activity in forwarding the preparations for the voyage, endeavoured to make sone reparation to Columbus for the thime which be bant lost in fruithess sollitation. By the 19th of May, all thit depended upon her was adjustod; and Culimbus waited on the king and queen, in order to receive their final instructions, Revery thing respegting the destination and condact of the vayagu, they committed implicitly to the disposal of his pruifence. But that they might avoid giving any Just couse of offence to the ling of Portogal, they strictly enjoined him not to approach noar to the Pertuguesio settements on the const of Guinea, or to any of the other countries which the Portagucie chimed as discoveries. Isabella had ordered the ships, of which Columbins was to take the command, to be fitted out in the port of Pelos, a simall martime town is the province of Andalisia. As the Cuardian, Juan Peres, to whom Colambus bad inlready tieen ro much indebted, resided in the neighbourhood of this place, the by the influence of that good ecelesiastic, as well us by his owa conuection with tho inhibitants, not only raiecd among them what he wonted of the sum that he wis biomit toy ticify to advaice, bit engoged sevaint of then to accompaty him in the voyage.

The chief of these associates were tirec lirothers of the name of Pinzon, of considerable wealth, and of groat experience in naval affairs, who were willing to hazard their lives ant lortumes io tho oxpectition. Fut ater all the eflorts of Tsibelia anit Columbus, the armainent was not suitable either to the diguity of the nation by which it whs equipped, or to the importance of the sarvice for which it was desfined. Is conistad of three vessels, The larget a alip of no considerable biurden, was cournanided by Colombins, as Adiniral, wio give it the ismo of Sarfa Maris, out of reppect to tha itheset Vishor, whon be honouret with singalar devotion. Of tie second, called the Minta, Martir Piuzon ivas captain, and his brother Trancis pilot. The third wamed the Nigma, was under the commanit of Vincent Yaitz, Piazon. These two were light wessels, hardly superior in turded or force to targe boils. This squadrom, if it nietts that Lante, was victualled for trelve months, and bad on bourd ninety ancu, mastly sailors, together with a few adventurers who fullowed the fortune of Columbus, and some gentlemen of Isabella's coint, whom shie appofinteci to nccompany him.

Thougt the cxpences of this undertaking was one of the circumstances which chiefly alarmed the court of Spain, and retarded so long the negotiation with Columbus, the sum emplojed in fitting out this squadron did not exceed four thousand pounts. As the ait of ship-buttating in the 15 th cratury was extremely rude, and thio buik of vessels was accomminfated to the short and easy voynges along the const which thay were accustomed to periorin, it is a proof of the courage as woll as enterprizing geutius of Columbus, tiat he ventured with a fleet so unfit for a distont navigation, to explore unknown seas, where the liad io chart to guife bim, no knowledge of the tides hind currents, and no - Volil.
experience of the dangers to which he might be oxposed. His cagerness to accomplish the great design which had so long engrossed his thoughits, made hinm overiook or disregard every circumstance that would bave intimidated a miad less ndventurous, pustied for ward the preparations with such ardour, and was seconded so effectually by the persous to whom Isubella committed the auperintenimee of this busines, that every thing was soon in readiness for the voyage. But as Columbus was deoply impressed witir seatiments of ruligion, lhe would not set out upon mexpedition so arditions, and of which one great object wits to extend the knowledge of his Clristimn finth, without imploring pabicly the guidance nad protection of heaveh. With this views, he, together with uil the persons under his command, marebed jin solemn procession to the momatery of Rabeida.

Atter confessing their sins and obtaining absolution, they received the holy sacrament from the hand of the Guardian, who joined his prayers to theirs, for the success of an enterprise which lie had so zealously pattonised. Next morning being Friday, Jd- of August, in the year 1499, Columbunsest sail a little before sun-rise, in presence of a vast crowd of spectators, whio sent up their supplications to hicaven for the prosperons issue of the waynge, which they wished rather than expected. Colembus steced direetly for the Canary islands, and arrived there Auguit 13uh, 149世, witlout any occurrence that would have descrved notice on any other occasion. But in a wogage of such expectation and importance, every circumstance was the object of attention. The rudder of the Piata broke loose the day after she left the liarbour, and that accilent alumed the crev, no lenr melperstitions than untififul, as a cortain onien of the unfortunate destiny of the expedition. Even in the slort run to the Canaries, the ships were found to be so cruxy and ill-nppointed, as to be very improper for a navigation, which was expected to be both long and dingerous. Columbus refited them, honever, to the best of his power, und haviug supplied himself with fresh provision, he took- lis departure from Gomera, one of the most westerly of the Chinry illands, on the sixth of September:

Here the voyage of discovery may propoly be silid to begin, for Colimbus, bolding his courso due west, Ieft immediately thic nswal frack of navigators, and stedched finto unfrequented sers. The first day, as it was very calm, he made but liftle way, but on the second, he lost sight of the Caurarics, mod many of the sailors, dejected ufready, and diseouraged when they contemplated the boldnets of the undertaling begain to beat their breasts mend to shed tears, as if tiey were never more to tehold- tand . Columbers comforted them with assurances of success, and the prospect of vast wealth, in thase opulent regions, whither ho was conducting them. This early discovery of the spirit of his followers, taught Columbus that he must prepare to struggle, not orily with the unavoidabto difficulties which might be expected from the nature of lis undernkling, but with such as were likely to arise froan the ignorance and timidity of the poople under his comimand. And be perceived that the art of govening the ninds of men, would be no less requisite for necompliathing the discoveries which he tind in view, than unval skill and undaunted courage. Happily for limself, and for the country by which he was employed, he joined to the ardent temper and inventive genius of a projector, virtues of another species, which are rarely united with them; he possessed a thomough knowledge of
mankind, un iosinuating addres9, apttient pernovernnco in erecutiog any plan, the perfect goverument of his passions, and the taleut of acquiring at uscendat over thasic of other men. All theso qualities, which formed him for command, were necompanied with that superior knowledge of tis prefession, whicir begete confidenco in time of difficalty ant danger.

To unskiful Spanish sailors, accustomed ouly to coasting voyages in the Afoditerrancan, the maritime scicoce of Columbus, the fruit of thifty years experience, improved by an acquaintasee trith alt the inventions of the Portoguesos appeared immense. As soon as they pilt to sca, he regulatot every thing by lits soth autiority; ho superintended the execution of exery order; and nallowing himself oaly a fow hours for sleep, bo, wus at all other times ufou deck. As his course lay throughi seas which bail not formerly been visited, the socnding line or Instriments for observation were continually in hif hands. Aiter the example of the Portaguese discoverers, he attended to the motion of tides and curreuts, watched the flight of birds, the appearaice of fislies, of sea-weels, and of every thing which floated oin the waves, and entered every occtirreace, with a minute exactnesi, fin tho joamnal which the kept. As the length of the voyage could not fiil of alarning sailora halituated only to short excursions, Columbus, endeavoured to conceal from thion the reat progress which they mate. With this view, though they num cighteen leagnes on the second day after they left Gomera, he gave out that they had aflvanced only fificen, asd he uniformly employed the sume artifice of reckoning short during the whole vogage. By tha 14th of September, the fiect was above 200 leagues to the west of the Canary isles, at a greater distance from land than any Spaniand had been before that time. Thero they were struck with an appeurance no les astonibhing than now. They observed that the muxnettic neette in their compasies, did not point exactly to the polar star, but vecred towairds the west; and us they proceeded, this variation increased. This appearance, which is now familiar, thongh it stil! remuins otre of the mysteries of nature, finto the cause of which the sagtacity of uath hath not been ablo to penctrate, filled the companions of Columbus with terror. Thiny were now in a Loundless, unknain ocean, far frow tha nstal course of navigation; niture itself scenier'to be aftered, and the only guide which they had left was about to fail them. Columibus, with no less quickness that ingenuity, invented a reason for this op pearance, which, thought it did not satisfy himself, scemed so plausible to them, that it dispelled their fears, or silenced their murmurs. He still continaed to steer due west, Bearly in the same latitude with the Camary istands. In this course, tie came within the splicre of the trido wint, which blows iuvariably from east to west, between fhe tropies, and a few degrecs beyond them. He advanced before the steady gale with knch uniform rapidity, that it was seldom necessary to shift a sail. When about four lumetred leagues to thie wert of the Chairice, ho found the sea so covered with weeds, that it resembled a meadow of vast extent; and in some places they were so thick, as to retart the motion of the vesele. This strango appearance occasioned new alarm and disquiet. Thio sailors iungined that thoy were now arrivod at tho utmost boundary of the naviguble ocean, that these floating weds would obstruct their farther progress, and conceated dangerous rocks, or some large tract of land, which had sunk, they knew not how, in that
pince. Columbus endeavoured to persuade thean, that what had alarniod oughit rather to have cacouraged them, and was to be considered us a sign of approaching land. At the same time, a brisk gale arose, and carried them formand. Several birds were seen hovering about the ship, and directed their filight towards the west. The despending crew resumed some degree of apirit, and begm to entertain fresk hopes. Upoa the ist of October, they sere, according to the adintral! rechoning 770 leagues to the west of the Conaries; bat lest his men should be intianidated by the prodigious length of the navigation, he gave out that they had proceeded only 584 leagucs, And fortumately for Columbins, feither lis own pifot nor thase of thic other ships, had skill sufficient to correct this erior and discover the deceit. They had now beea above tliree weeks at sea; they bad proceeded for beyond whateformer navigators had attempted or deemed polsible; all their prognostics of discoverg, drana from the dight of birds atd other circumstances, had prosed Ellacious; the appearance of laod, with which their own credulity, or the artifice of their commander, had, from time to time, flattered and aumsed them, had been altogether illusive, and their propect of success seemed now to be as distant as ever.

These reflections recurred often to men who had no other object or occupation than to reason und diseourse concerning the lintention and circumstances of their expedition. They made impression at first upon the ignorant and timid, and extending by degrees to such as were better informed or more resolute, the contagion spread at length from ship to ship. Prom secret whigeangs or tuarmurings, they procecded to open cabnls and public complaints; they taved their sovercigu with inconsiderate credulity, in paying such regard to the vain promises and rash conjectures of an indigent foreigner, as to hazard the lives of so many of ber own subjects, in prosecuting a climerical
 an unknotu and hopeless conse, and could incur no blame for refising to follow any longer a desperate adventurer to certain destruction. They contended that it wis necessary to think of returning to Spain, while their crazy vessels were still in a condition to keep the ven, fert expressed their foars thit the attemgt wotld prove twin, es the wiad, which had hitherto heen so favourable to their courre, most render it inpossible to sail in the opposite direction. All agreed that Columbus should be compelied by firce to wlopt a measure, on which their common safety depended. Some of the more undacions proposed, as the most cxpeditious and certain mettiod of gatting rid it once of his rewomatrances, to throw him ints the sen, being persunded, that, on their return to Spain, the death of an unsuecessiul projector woudd excite littie coneen, and be inquired into with no eririasity. Columbus was filly senitble of lis perilous situation. He bad ebserved, with great uncariness, the fatat operations of ignorance and of fear; in producing disaffection among his crew, and saw that it was now ready to burst out into open mutiny. He retaiued, however, perfect presence of mind. He affieted to serm ignorant of theic mactimation. Notwithstanding the agitation and solicitade of lis own mind Lic appeared with a cbeerful countenance, like a man satisfied with the progress he had tnade, and confident of suecess. Sometimes le emplayol all the arts of insinuation to seoth his men. Sometimes he endeavoured to work upon their ambition or avatice, by
magnificent descriptions of the farne and wealth they were about to acquire: Oa other occasions lie assumed a tone of authority, und threatened them with vengeance from their sovereign, if, by their dastardly behaviour, they should defeat this noble effurt to promote the glory of God, and to exalt the Spanish name above that of every othor bation.
Even with seditious sailors, the words of a man whom they bad been accustomed to reverence, were weighty and persuasive, and not only restrained then from thoso violent excesses, which they meditated, but prevailer with them to aceompany their admiral for some time longer. As thicy proceeded, the indications of approaching land keemed to bo more certain, and excited tiope in proportion. The bigds begais to appear in flocks, making towards the month-west. Colinnbus, in imitation of the Portuguese navigators, who had been guided in several of their discoveries by the motion of birds, altered his course from due west towards that corner wbither they pointed their fight. But after holding on for several days in this new direction, without any better success than formerly, having seen nio object during thirty days, but the sea and the sky, the hopes of lifs companions subsided faster than they had risen; their fears revived with additional force; impatience, rage, and despaik, appeared in every countenance. All sense of subordivation was lost; the officers, who bad hitherto concurred with Columbas il opmion, and stupported his authority, now took part with the private men; they assembled tumultuously together on the deck, expostulated with thei commander, mingled tears with their expostulations, and required him instantly to tack about, and to retura tó Europe

Columbus perceived that it would be of no avait to have recourse to any of his former arts, which, having been tried so often, had lost their effect; and that it was impossible to rekindle any zeal for the saccess of the expedition, amongst men, in whose breasts fear had extinguished every generous sentiment. Ho saw that it was no less vain to think of employing cither gentle or severe measures, to quell a mutiny so general and so violent. It was necessary on these accounts to sooth the passions which he could no longer coumand, and to give way to a torrent too impetuous to be checked, Ie promised solemniy to his men, that be would comply with their request, provided they would accompany him, and obey his commands for three days fonger; and if, during that time, land were not discovered, he would then abandon the enterprise, and direct his course towand Spain. Enraged as the sailors were, and impatient to turn their faces again towards their native country, this proposition did not appear to them unreasonable. Nor did Columbus hazard much in confining bimself to a term so short. The presages of discavering land were now so numerous and promising, that he deemed them infallible. For some days the sounding-line had reached the bottom, and the soil which it brought up indicated land to be at no great distance. The flocks of birds increased, and were composed net only of sea-fowl, but of such land birds, as could not be supposed to fly far from the shore. The crew of the Pinta observed a cane floating, which seemed to be newly cut, and likewise a piece of timber artificially carved. The sailors

- aboaril the Nigra, took up the branch of a tree, with red berries, perfectly fresh. The - clouds around the setting sun assumed a new appearance. The air was more mild and Vol. I.


## AMERICA.

warm, and during night the wind became unequal and variable. From all these symptoms, Columbus was so confideat of being near land, that on the evening of the 11th of October, after public prayers for success, he ordered the sails to be furled, and the ship to lie to, keeping strict watch lest they should be driven ashore in the night. Daring this interval of suspence and oxpectation, no man shut his eyes, all kept' upon deck, gazing intently towards that quarter where they expected to diseover the land, whicla liad been so long the object of their wishes. About two hours before midnight, Columbus, standing on the forecastle, observed a light at a distance, and privately pointed it out to Pedro Guttierez, a page of the queen's wardrobe. Guttierez perceived it, and calling to Salcedo, comptroller of the fleet, all three sav it in motion, as if it were carried from place to place. A littlo after midnthith, the joyful sound of land? land ! was heard from the Pinta, whicli kept always a-head of the other ships. But having bece so often deceived by fallacious appearances, every man was now become slow of belief; all waited with the anguish of uncertainty and impatience for the return of day. As soon as miorning dawned, Friday, Oetober 19th, all doubts and fears were dispellet. From every ship an island was seen, about twa lengues to the north, whose flat and verdant fields, well stored with wood, and watered with many rivulets, presented the aspect of a delightfal country. The crew of the Pinta instantly began the Te Deum, as a hymn of thanksgiving to God, and were joined by those of the other ships, with tears of joy, and trunsports of congratulation. This office of gratitude to heaven was followed by an act of justice to their commander. They threw themselves at the feet of Columbus, with feelings of self-condemnation, mingled with reverence. They implored him to pardon their ignorance, incredulity, and insolence, which had created him so much unnecessary disquiet, and had so often obstracted the prosecution of his well-concented plan; and passing, in the warnth of their admiration, from one extreme to another, they now pronounced the man, whom they had so lately reviled and threatened, to be a person inspired by heaven with sagacity and fortitude more than human, in order to accomplish a design, so far beyond the ideas and capacities of all former ages. As soon as the sun arose, all their boats were manned and urmed, they rowred towards the island with their colours displayed, with warlike music and other martial pomp. As they approached the const, they saw it covered with a multitude of people, whom the novelty of tie spectacle had drawn together, whose attitudes and gosture expressed wonder and astonishment, at the strange objects which presented tiemselves to their view. Columbus was the first European who set foot in the new world which he had discovered. Ha landed in ar rick dress, with a naked sword in his band. His men followed, and kneeling down, they all kissed the ground which they had so long desired to see. They next erected a crucifix, and prostrating themselves before it, retomed thanks to God for conducting their voyago to such a happy issue. They then took solemn possession of the country for the crown of Castille and Leon, with all the formalities which the Portuguese were accustomed to observe in acts of this kind, in their new discoveries. The Spaniards, while thus employed, were surrounded by many of the natives, who gazed in silent admiration, upon actions which they could not comprehend, and of which they could not foresee the consequences. The dress of the Spaniards, the whiteness of theit.
skins, their beards, their arms, appeared strange and surprising. The vast machines in which they had traversed the ocean, that seemed to tnove upon the waters with wings; and uttered a dreadful sound, resembling thunder, acconmpanied with lightning and smoke, struck them with such terror, that they begen to respect their new guests as a superior onfer of beings, and concluded that they were elifdren of the ann, wio had descended to visit the earth.

The Europeans were hardly less amazod at the scene now before them. Erery berb, shrub, aud tree, was different from those which flounslied in Nurope. The soil seemed to be rich, but bord few marks of cultivation. The climate, even to Spaniards, felt warm, though estremely delightfinl. The inliabitants appeared in the simple innocence of nature, entirely nakèd. Their black hair, long and uncurled, flowed upon their shoulders, or was bound in tresses round their heads. They had no beards, and every part of their bodies was perfectly smooth. Their complexion was of a dasky copper colour, their features singular rather than disagreeable, their aspect genthe and timid. Though not tall, they were well-shaped and active. Their faces, and several parts of their bolly, were fantastically painted with glaring colours. They were shy at first, tlirough fear, but soon became familiar with the Spariards, and with trans: ports of joy, received from them small bells, glass beads, or other baubles, in return for which they gave them such provision as they had, and some cotton yarn, the only commodity of value that they could produce. Towards evening, Columbus returned to his ship, aecompanied by a great number of the islanders in their boats, which they called canoes, and though radely formed, out of the trunk of a single tree, they rowed them with considerable dexterity. Thus in the first interview betweon the inhabitants of the old and new worlds, every thing was conducted amfeably, and to their mutual satisfaction. The former, enlightened and ambitious, formed already vast ideas with respect to the advantages which they might derive from the regions that began to open to their view. The latter, simple and undiscerning, had no foresight of the calamities and desolation which were approaching their country. Columbus, who now assumed the titte and authority of admiral and viceroy, called the island which he had discovered St. Salvador. It is better lanown by the name of Guanaliani, which the natives gave it, and is one of the linge cluster of islands called the Lacayos or Bahamia Isles, It is situated above three, thouand uriles' to the west of Gomera, from whence the squadron took its departure, and only four leagues to the south of it; so little had Columbus deviated flom the western edurse, which he had chosen as the most proper. Columbus employed the next day in visiting the coast of the island; and from the universal poverty of flie inhabitants, he perceived this was not the rich coumtry for which hasought. But comformable to his theory concerning the discovery of those regions of Asia, whith stretched towards the east, he concluded that St. Snlvador was one of the islands which geographers described as situated in the great ocean adjucent to India. Having observed that most of the people whom he had seen wore small plates of gold, by why of ormament, in their nostrils, he eagarly inquired where they got that precious metal. They pointed towards the south,
, and made him comprehend by signs, that gold abounded in countries situated in that - quarter. Thither he immediately determined to direct his course, in full confidence of
finding therc, those opulent regions which lad been tire object of his voyage. He took along with thim seven of the natives of St. Salvador, that by acquiring the Spanish fanguage, they might serve as guides and interpreters: and those innocent people considered it as a mark of distinction, when they were selected to aecompany him.

He saw several islands, and touehed at three of the largest, on which he bestowed the names of St. Mary of the Conception, Fernandinn, and Isabella. Dot as their soil, productions, and inhabitants nearly resembied those of St. Salvador, lie made no stay in any of them. He intquired every whicre for gold, and the signs that were uniformly made by way of answer, coutirmed him in tise opininion that it was brought from tive south. He followed that course, and soon discovered a country which appeared sery extensive, not perfectly level, like those he had already visited, but so diversified with bils, sivers, woods, and piains, that he was uncertain whether it might prove an island, or part of the contineat.

The natives of St. Salvador, whom he had on board, called it Cuba ; Columbus gave it the name of Juana. He entered the mouth of a large river with his squadron, and all the inhabitants fled to the mountains as he approached the shore. But as he resolved to carcen his ships in that place, he sent some Spaniards, together with one of the people of St. Salvador, to view the interior part of the country. They having advanced about 60 miles from the shore, reported upon their return, that the soil was richer and nore cultivated than any they had yet discovered; that, beside many scattered cottages, they found one village containing above 1000 inhabitants; that the people, though naked, seemed to be more intelligent than those of St. Salvador, but had freated them with the same respectful attention, kissing their feet, and honouring them as sacred beings, allied to heaven; that they had given them to eat a certain root, the taste of which resembled roasted chesnuts; and likewise a singular species of corn, called maize, which, either when roasted whole or ground into meal, was abundantly palatable ; that there seemed to be no four-footed animals in the country, but a species of dog, which conld not bark, apd a creature resembling a rabbit, but of a much smaller size; and that they bad observed some omaments of gold among the people, but of no great value.

These messongers were accompanied by some of the natives, who informed Columbus, that the gold of which they made their oruaments was found in Cubanacan. By this word they meant the inland part of Cuba ; but Columbus being ignorant of their language, as well as unaccustomed to their pronunciation, and his thoughts running contiutually upon his own theory concerning the discovery of the East Indies, he was led by the resemblance of sound, to suppose they spoke of the Great Khan, and imagined the opulent kingdom of Cathay, deseribed by Mareo Polo was not very remote. This irduced him to employ some time in viewing the country. He visited almost every trarbour, from Porto del Principe, on the north coast of Cuba, to the eastern extremity of the island: bat though delighted with the beauty of the scenos, which every where prescnted themselves, and amazed at the luxuriant fertility of the soil, both of which, from their novelty, made a more lively impression on the imagination, he did not find gold in such abundance as to satisfy either the avarice of his followers, or the expectation of the court to which be was to return. The people of the country, as much astonished at his eager-
ness in quest of gold, as the Earopeans were at their iguorance and simplicity; pointed towards the east, where an island they called Hayti was situated, in which that metal was more abundant than among them. Columbus ordered lis squadron to bend its; course thither ; but Martin Alonzo Penzon, impatient to be the first to take possession of the treasures which this country was supposed to contain, quitted his companions, regardless of all the admiral's signals to slacken sail until they should come up with him.

Columbus retarded by coutrary winds, did not reach Ifayti till the 6th of December. He called the port where he first touched St. Nicholas, and the island itself Hispaniola, in hooour of the kingdom by which he was egployed; and it is the only country of those which he had yet discovered, which has retained the name be gave it. He did not remain long at St. Nicholas, but sailing along the north coast of the isiand, entered another barbour, which he called Conception. Having, with some difficulty, procured an interview with the inhabitants, he found them gentle, credulous, and timid, to a degree which rendered it easy to aequire an ascendency over them, especially as their excessive admiration led them to believe that the Spatiards were more than mortals, and descended immediately from heaven. Thev possessed gold in a greater abundance than their neighbours, which they readily exchanged for bells, beads, or pins; and is this unequal traffic both parties were highly pleased, each considering themselves as gainers by the Iransaction.

Columbus still intent on discovering the mines which yielded gold, continued to interrogate all the natives with whom be had any intercourse, concerning their situation. They concurred in pointing out a mountainous country, which they called Cibas, at some distance from the sea, and farther to the east. To that quarter Columbus directed his course. He put into a commodious harbour, which he called St. Thomas, and found that district to be under the government of a powerful cazique, named Guacanahari. This prince immediately sent messengers who delivered to Columbus the present of a mask curiously fashioned, with the ears, nose, and mouth of beaten gold, and iavited him to the place of his residence near Cape Francois,

In consequence of this invitation Colambus sailed from St. Thomas, on the e4th of December with a fair wind and the sea perfectly calm ; and, as amidst the multiplicity of his occupations he had not shut his cyes for two days, be retired at midnight to take some repose, having committed the helm to the pilot, with strict orders not to quit it for a moment. The pilot dreading no danger, carelessly left the belm to an unesperienced cabin boy, and the ship carried away by a current, was dashed against a rock. The violence of the shock awakened Columbus. He ran up to the deck. Toere all was confusion and despair. He alone retained presence of mind. He ordered the mast to be cat down in order to lighten the ship, but all his endeavours were too late; the vessel opened near the keel, and filled so fust with water, that its loss was inevitable. The smoothness of the sea, and the timely assistance of boats from the Nigra, enabled the crew to save their lives. The Indians crowded the shore, lamented with tears the misfortune of the Spaniards, and putting to sea a number of canoes assisted in saving whatever could be got out of the wreck. As fast as the goods were

## Vol. I,

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landed, Guacinandur in person took charge of them. By his onders they were all deposited in one place, und armed centinels were posted, who kept the multitude at a distance, and in the tforning he in person visited Columbus, and eindeavoured to console hin for his loss, by offering all he possessed to repair it.
Columbus was now possessed of lut one versel, with which he was desirous immediately to set sail for Spain, and therefore determined on:leaving part' of his crew on the' island. They would thus haye an opportunity to learn the language of the natives, stady their disposition, examine the nature of the country, search for mines, prepare for thie commodious settlement of the colony with , which-lie proposed to return, and thus secure and facilitate the acquisition of those, edvantagos which he expected from his discoveries. This proposal proved equally pleasing to the mariners and the prince, and was therefore withont delay carried into execution. Thirty-eight of the Spaniards were appointed to remain behind, funnished with every thing necessary for their subsistence; and loaded with the strictest injunctions to cultivate friendship with the natives, and unanimity with each other.

Having thus taken every precaution for the security of the colony, he left. Navidad on the 4 th of January, 1493, and steering towards the east, discovered and gave names to most of the harbours on thie northern coast of the island. On the Gth he descried the Pinta, and came up with her after a separation of more than six weeks. Pinzon endeavoured to justify his conduct as the effect of contrary winds, and lame as his apology was, it was admitted by the adminal.

The voyage was prosperous to the 14 th of 'February, and Columbus had advanced near 500 leagues across the Atlantic, when the sind began to rise, and continued to Blow with encreasing rage, which terminated in a furious burricane. Every expedient which the naval experience of Columbus could devise was employed in order to save the ships. But it was impossible to withstand the violence of the storm, and as they werestill far from any land, destraction seemed inevitable. The sailors had recourse to prayers to Almighty God, to the invocation of saints, to vows and charms, to every thing that religion dictates, or superstition suggests to the affrighted mind of man. No prospect of deliverance appearing, they abaridoned themselves to despair, and expected every moment to be swallowed up among the waves. Besides the passions which voluntarily agitate and alarm the human mind in susch awful situations, Columbes had to endure feelings peculiar to bimself. He dreaded that all knowledge of the discoveries he had made was now to perish, and his name descenid to posterity as that of a-rash adventurer, instead of being transmitted with the honour due to the suecessful conductor of a noble enterprise. These reffections prevailed over all sense of his own personal danger. Less affected with the loss of life, than solicitous to preserve the memory of what he lind attempted and atchieved, he retired to the cabia and wrote upon parchunent, a short account of the voyage he had made, of the course he had taken, of the situation of the countries which he had discovered, and of the colony he had left there. Having wrapped up this in an oiled eloth, which he inclosed in a cake of wax, he put it into a cesk carefilly stopped up, and cormitted it to the sea, in hopes that some fortungte accident might preserve a deposit of such importance to the world.

## AMERICA.

Lus. At length providenice interposed to save a life roserved for forther services. The wind abated, the sea became calm, and on the evening of the 15 th they came in sight of St. Mary, one of the Azore islands. Here they obtained some fresh provisions, but they could not gain sight of the Pintn, which had been separated from them during the storm, and which Culumbus suspiected had borwe away for Spain, to carry the first Inews of the discovery. In order to prevent this, he left the Azores on the e9th of February, as soon as the weather would permit.

When near the coast of Spain, he was overtaken by another terrible tempest, which obliged him to take shelter in the river Thagus. Upon application to the king of Portugal; on the 4th of March; 1493, hé was allowed to land at Jisbon ; and notwithstanding the envy it was natural for the Portuguese to feel, when they beheld another nation entering upon that province of discovery which they had hitherto deemed peculiarly their own, and in its first essay not only rivalling, but evea eclipsing their fame, Columbus was received with all the mands of distinction due to a man, who had performed things so extraordinary and unexpected. The king admitted him into his presence, treated him with the greatest respect, and listened to the account which he gave of his voyage with admiration mingled with regret.
1 Columbus was so impatient to return to Spain, that he remained but five days at Lisbon. On the 15th of March he arrived in the port of Palos, seven months and elever days from the time when he set out from thence on his voyage. As soon $w$ his ship was discovered approaching the port, all the inhabitants of Palos ran cagarly to the shore in order to welcome their relations and fellow citizens, and to hear tidiags of their voyage. When the prosperons issue of it was known, when they beheld the strange people, the unknown animals, and singular productions brought from the countries that bad been discovered, the effusion of joy was general and unbounded. The bells were rung, the cannons fired: Columbus was received at landing with royal honours, and all the people, in solemn procession, accompanied him and his crew to the church, where they returned thanks to heaven, which had so wonderfully conducted and crowned with suceess, a voyage of greater length and more importance than bad been attempted in any former age. On the evening of the same day he had the satisfaction of secing the Pinta, which the violence of the tempest had driven far to the north, enter the harbour.

The first care of Columbus was to inform the king and queen, who were then at Barcelona, of his arrival and success. Ferdinand and Isabella, no less astonished than delighted with this unexpected event, desired Columbus, in terms the most respectful and flattering, to repair immediately to conrt, that from his own mouth they might receive a full detail of his extraordinary services and discoveries. During his journey to Barcelona, the people crowded from the adjacent country, following him every where with admiration and applause. His entrance into the city was conducted by order of Ferdinand and Isabella, with pomp suitable to the great evont, which added such distingnished lustre to their reign. The people whom he brought along with him from the countries which he had discovered, marched first, and by their singular complexion,
. the wild peculiarity of their features, and uncouth finery, seemed like men of another species. Next to them were carried the ornaments of gold, fashioned by the rude art

## 43ERTCS

of the natives, the grains of gold found in the mountains, and dust of the same metal gathered in the rivers. After these appeared the various commodities of the new discovered countries, together with their curious productions. Columbus himself closedt the procession, and attracted the eycs of all the spectators, who gazed with admiration on the extraordinary man, whose superior sagacity and fortitude had conducted their countryauen, by a route concealed from past agez, to the knowledge of a new world. Ferdinand and Isabella received him elad in their royal robes, and seated upon a throne under a magnificent canopy. When he approached they stood up, and raising hin as he kneeled to kiss their hauds, commanded limm to take bis seat upon a chair prepared for him, and to give a circumstantial account of his poyage. Me delivered it with a gravity end composure, no less suitable to the disposition of the Spanish nation, than to the dignity of the audience to whom he spoke ; and with that modest simplicity which characterises men of superior minds; who, satisfied with having performed great actions, court not vain applause by an ostentatious display of their exploits. When he lad finished his narration, the king and queen, kneeling đown, offered up solemn thanks to Almighty God, for the discovery of those new regions, from which they expected so many advantuges to flow to their subjects. Every mark of honour that gratitude or admiration could suggest was conferred upon Columbus. Letters patent were issued confirming to him and lis heirs all the privileges contained in the capitulation concluded at Santa Fé ; his family was ennobled; the king aind queen, and, after their example, the courtiers treated him on every occasion, with all the ceremonious respect paid to persous of the highest rank.ir Orders were given to equip, without delay, an armament of such force, as might enable I bim not only to take possession of the countries which he had already discovered, but to go in search of those more opulent regions, which he still confidently expected to find. In the mean time his fame spread throughout Europe, and every where excited the spirit of naval adventure.





| синсетт. <br> Northern eircuit coatinued. | coustis | cumer towss. |
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|  | Durham... | alterton, Burlington, Knaresborough, Barnesles, Sherlourne, Bradford, Tadcaster, Skipton, Weiherby, Ripley, Heydon, Howden, Thirske, Gisborough, Pickering, and Yarum. <br> Durham, Stockton, Sunderland, Stanhope, Barnard-Cavtle, Darlington, Hartlepool, and Awkland. |
|  | Northumberiand <br> laucaster.. ...... | Newcastlo, Timouth, North Shields, Morpeth, Ahwick, and Hexham. <br> Lancaster, Manchester, Preston, Liverpool, Wigan, Rochdale, Warrington, Bury, Ormakirk, Hawkshead, and Newfon. |
|  | Westmoreland | Appieby, Kendal, Lonsdale, Ambleside, Oaton, Kirby-Stephen, Buton, and Milthorpe. |
|  | Cumberland | Carlitle, Pemith, Cockermouth, Whitehaven, Ravenglass, Egremont, Keswick, Workington, and Jerby. |
| Counties exclusive of the circuits. | dic | London, firstmeridian, Nerth Lat. $51^{\circ} 30^{\circ}$ Wesfminster, Uxbridge, Brentford, Chelsea, Higligate, Hampstead, Kensington, Hackney, and Hampton Court. |
|  | Cheshire | Chester, Nantwich, Macelesfield, Malpas, Northwich, Middlewich, Sandbach, Coagleton, Knotsford, Frodisham, and Haulton. |

## CIRCLITS IN WALES.

| North-east circuit. | $\left\{\begin{array}{l}\text { Fint ................. } \begin{array}{l}\text { Flint,St, Asaph, and Holywell. } \\ \text { Denbigh, Wrexham, and Ruthen, } \\ \text { Denbigh.......... } \\ \text { Mongomery ..... }\end{array} \text { Montgomery, Llanyylin, and Welalipoo!. }\end{array}\right.$ |
| :---: | :---: |
| North-west circuit. |  |
| South-eart circui |  Radnor, Prestean, and Krighton. Brecknock, Built, and Hay. Shandaff, Cardiff, Cowbridge, Neath, and Swansey. Swansey. |

South-west circuit. \(\left\{\begin{array}{l}Pembroke............ <br>
Cardigan ............ <br>

Caermarthen ........\end{array}\right\}\)| St. David's, Haverfordwest, Pembroke,Ten- |
| :--- |
| by, Fiscard, and Milfordhaven, |
| Cardigan, Aberistwith, and Llabadarn- |
| vawer. |
| Caermarthen, Kidwelly, Llanimdovery, |
| Landilobawr, Laugharn, and Lauelthy. |

-III. SCOTLAND.
syincs.
SHERIFEDOMS AXD OTHER
CHIEF TOWNs.

## SUBDIVISIONS.



5 Selkirk..................... Ettrick Forest................... Selkirk.
6 Peebles .................... Tweedale ........................ Peebles.
$\{$ Clydesdale ................. $\}$
Glasgow, W. lon. $4^{\circ} 5^{\prime} ; \mathrm{N}$.
7 Lanerk ................ $\{$ Clydesdale
8 Dumfries . ................ Nithisdale, Anandale.......... Dunfrees, Annan.
9 Wigtown .............. \{Galloway, West part ....\} Wigtown, Stranraer, and
10 Kircudbright ..............Galloway, East part ......... Kircudbright.
11 Air .................... $\left\{\begin{array}{c}\text { Kyle, Carrick, and Cim- } \\ \text { ningham................... }\end{array}\right\}$


Vol. 1.


IV, IRELAND.

COUNTIES. CHIEY TOWNS.


## V. DETACHED ISLANDS.

Man, in the Irish sea.
Scilly, in St. George's chamnel.

- Jersey, Guernsey, Alderney, Sark, and the Caskets, in the English channel.

HAYING already made some general observations on Europe, Asia, Africa, and America, it becomes necessary to select some part of the globe at which to begin our description of kingdoms and states, Here there is no need that we should be long in determining our choice. Britain, as our native country, has the best claim to precedence, and well supports this claim, by the eminent rank amoug the nations which she holds, in the excellency of her constitution and laws, the extent of ber learning, and the influence of moral and religious principle on the minds of her inhabitants.

Thie British isfands, which are subjects of this book, were all antiently denominated Britain ; this island being called Albion, and Ireland Hibernin. The origin of these names has been much disputed, and were it known, would probably afford but a small share of entertainment.

As Ireland is an istand perfectly distinct from Great Britain, and for many ages had no important connection with it, we shall not attempt its description till we draw near the time of its reduction; but as Scotiand, Wales, and Epgland are less determinately separated by nature, and bave been always affected by the circumistances in which each other were placed, it is intended to employ this chapter in making such observations on the soil, air, and productions of their different parts, as may cast some light on the original state of the island. Britain is situated between the 50th and 60th degrees of north latitude, and between the third degree of cast and the sixth of west longitude. It has on the north, the Northern ocean; on the cast, the German ocean; on the southeast, the straits of Dover ; and on the south, the English channel ; on the west, the Atlantic and the Irish sea. Our description shall commence at the south-west extremity of its shores.

## CORNWALL.

As Cornwall is surrounded by the sea on all sides, except the east, its climate is somewhat different from that of the other parts of Britain. The reasons of this difference will be casily understood, from what is olserved concerning the climate of America.

The summers in Cormwall are less hot, and the winters less cold, than in other parts of England, and the spring and barvest are observed to be more backward. High and sudden winds are also more commor in this than in other counties of England. The county is rocky and mountainous; but the mountains are rich in metals, especially tin and copper. The valleys are very pleasant and fertile, yielding great plenty of corn and pasture. The lands are manured and fertilized with sea weed, and a kind of sand, formed of particles of broken shells, as they are dashed agaiust each other by the sea. Cattle of all sorts are smaller here than in the other counties of England; and the wool of the sheep, which are mostly without horns, is very fine, and the flesh, both of them and the black cattle, is very delicate. The county is well supplied with fish from the sea, and the many rivers with which it is watered. The most noted of the sea fish is the pilchard ; of which prodigious quantities are caught from July to November, and exported to different paits, epecially to Spain. It is said, that a million have been sometimes takea.

## BRITISH EMPIRE.

at a singlp draught. The natives are remarkable for their strength and activity, as well as their dexterity in wrestling, in which exercise the Cornish hug is highly extolled. This county abounds in mines of different metals, and semi metals, but the principal produce is tin.

## DEVONSHIRE.

The soil of Devonshire is various ; in the western parts of the county it is coarse and moorish, bad for sheep, but proper for black cattle. In the northern parts, the dry soil and downs are well adapted to sheep, with numerous flocks of which they are well covered. Tolerable crops of corn are also produced here, when the land is well manured. The soil of the rest of the county is rich and fertile, both in corn and pasture, yielding also in some places plenty of marl for manuring it. In other places the inhabitants pare off and bum the surface, making use of the ashes as a manure, Dr. Campbell stiles it a rich and pleasant county ; as, in different parts, it abounds with all sorts of grain, prorfuces abundance of fruit, has mines of lead, fron, and silver, in which it formerly exceeded Cornwall, though now it is greatly inferior. On the coast also, they have berring and pilchard fisheries.

## DORSETSHIRE.

The county of Dorsetshire enjoys a mild, pleasunt and wholesome air, and a deep, rich, and fertile soil, finely diversified; towards the north it is level, under the highlands that divide it from Somersetshire, where there are fine arable grounds, that will yield large ctops of different kinds of grain. But on the south, from the borders of Hampshire, by the sea-coast, for an extent of almost 20 miles in length, and in some places four or five in breadth, it is an heathy common, which renders this county less populous than it otherwise would be. From cast to wrest runs a ridge of hills, called the Downs, abounding with sweet and short berbage, which nourishes a vast number of sheep, equally esteemed for their flesh and flavour. The county is also very plentifully watered, and in all respects well suited for pleasure and profit. This county yields many and very valuable commodities. The quaries in Purbeck and Portland supply stones of different qualities, suited to various uses, and in prodigious quantities, together with some very rich and beantifnl marble. The best tobacco-pipe clay in England is also found in this county. Madder, fiemp, and flax, also thrive in many places, grains of all sonts, Sic.

## SOMERSETSHIRE.

The air of Somersotshire is very mild and wholesome, especially that of the hilly part. .The soil in general is exceeding rich, so that single acres very commonly produce forty or fifty bushels of wheat, und there have been instances of some prodacing sixty of burley. As there is very fine pasture both for sheep and black cattle, it abounds in both, which Vo4 1

* Dd
are as large as those of Lincolnstire, and their flesh of a finer grain, In eonsequence of this abundance of black cattle, great quantitics of cheesc are made in it, in which that of Cheldar is thought equal to Parmesan. In the hilly parts are found conl, lead, copper, and lapis calaninaris. Wood thrives in it as well as in any county of the kingrom. It abounds also in peas, beans, beer, cyder, fruit, wild fowl, and salmon; and its mineral waters are celebrated all over the world.

Besides small'streams, it is well watered and supplied with fish, by the rivers Severn, Avon, Parrel, Ax, and Froome. Its greatest hills are Meadip, Pauldon, /and Quantock; of which the first abounds with coal, lead, \&c. "The rixers Severn and Parrel breed very fine salmon.

## GLOUCESTERSHIRE.

The air of Gloucestershire is sery wholesome, luat the fice of it is very different in different parts: for the eastern part is hilly, and is called Cotteswold; the western woody, and called the forest of Dean; and the rest is a fruitful valley, through which runs the riser Sevem. This river is in some places between two and three miles broad; aod its course through the country, including its windings, is not less than 70 . mites; The tide of flood, called the Boar, rises very high, and is very inpetuous. It is remarkable, that the greatest tides are one year at the full moom, and the other at the new, one year the night tides, and the other the day. The soil is in general very fertile, though pretty much diversified, yielding plenty of com, pasture, firvit, and wood. In the thilly part of the county, or Cotteswold, the air is sharper thin in the loulands, and the soil, though not so fit for grain, produces excellent pasture for shoepp, so that of the 400,000 which are computed to be kept in the county, the greater part are fed here. The wool of these sheep is exceeding fino.

In the vale or lowest part of the county, through which the Severo passes, the air and soil are very different from those of Cotteswold, for the former is much warmer, and the latter richer, yielding the most luxuiant pastures; in consequence of which numerous berds of black cattle are kept, and great quantities of that excellent cheese, for which it is so much celebrated, made in it. The remaining part of the county, called the forest of Dean, was formerly almost entirely over-run with mood, and extended 96 miles in length and 10 in breadth. It was then a nest of robbers, especially towards the Severn; but now it contains many towns and villages, consisting chiefly of miners employed in the coal pits, or in digging for, or in forging iron ore, with both which the forest abounds. This forest was antiontly, and still is, noted for its oaks.

## WILTSHIRE.

The air of Wiltshire is very healthy, not only in the more low and level parts, but also on the hills. The soil of the vales is very rich, and produces corn and grass in great plenty. The beautiful downs in the south yield the finest pasture for sheep, with which they are overspread, The greatest disadyantage the county labours under is want of
fael, as there are no coal-pits, and but litte wood. Besides a number of lesser strentis, it is watered by the rivers Isis, Kemet, Upper and Lawer Avoo, Wilby, Burne, and Nadder, which ame well stored with fish.

## HAMPSHIRE

The air of Hampshire is very pure and pleasant, especially upon the downs, on which vast Alocks of sheep are kept and bred. In the champaign part of the country, where it is free of wood, the soil is very fortile, producing all kinds of grain. The country is extremely well wooded and watered; for besides many woods on private estates, in which there are vast quantities of well-grown timber, there is the New forest, of great extent, belonging to the crorn, well stored with venerable oaks. In these woods and forests, great numbers of hogo run at large, and feed on acorns; and hence it is that the Hampshire bacon so far excels that of most other counties. The rivers are the Avon, Anton, Arle, Tust, Stawre, and Itchin ; besides several smaller streams, all abounding in fish, especially trout, As its sea-coast is of considerable extent, it possesses many good ports and harboors, and is well supplied with salt-water fish. Much honey is produced in the county, and a great deal of mead and metheglin made. Here is also plenty of game, and on the downs is most delightful huating.

## TIIE ISLE OF WIGHT.

The Isld of Wight is an island lying on the south coast of Hampshire, from which it is separated by a narrow channel. It is about 91 miles in length and 13 in breadth. It is nearly divided into equal parts by the river Mede or Cowes, which, rising in the southern angle, enters at the northern into the channel, opposite to the mouth of Southampton bay-n. The soath coast is edged with very steep cliffs of chalk and freestone, hollowed into caverns in various parts. The west side is formed with ridges of rock, of which the most remarkable are those called, from their sharp extremities, the Needles. Between the island and the main are various sand banks, especially off the eastern part, where is the safe road of St. Helens.

Across the island, from east to west, runs a ridge of hills, forming a tract of very fine downs, with a chalky or marly soil, which feed a great number of fine fleeced sheep. Rabbits are also very plentiful here, In the north of this ridge the land is cbiefly pasture; to the south of it is a rich arable country, producing great crops of com. The variety of prospects which this istaid affords, its mild air, and the neat manner in which it is laid out, render it very delightful. Among its products are to be reckoned, a pure white pipe-clay, and a fine white crystaline sand.

## SURRY.

- The air of Surry, towards the middle, which consists mostly of hills and heath, is sharp; but pure and wholesome, About the skirts, where it is more level, and the soil richer,
the nir is milder but also salubrious. In the middle parts, the soil is barren enough in general; hut towards the extreuitics, and whero the country is open and champaign, it is fruitful in grass and com, particularly on the south side, in Houndsdale, in which meadows, woods, and corn-fields, are agrocably intermixed. The soil is also very fertile along the Thames, and especially towards London, where it greatly contributes to maintain plenty in the London markets. It has several rivers abounding with fish, the chief of which are the $\mathrm{W}_{\mathrm{yc}}$, the Mole, and the Wandle.


## SUSSEX.

Sussex has few good ports, though it lies along the chaunel for 65 miles, which is' its greatest length, the coast being encumbered in many places with rocks ; and where it is more open, such quantities of sand are thrown upon it by the south-west winds, end the harbours so choked up, that they will not admit of vessels of any great draught or burthen. The county is well watered by the rivers Arun, Adar, Ouse, Bother, Cachmeer, Ashbourn, and Aston, by which it is well supplied with fish, as well as from the sea. Heace different places of the county are formed for different sorts of fish, as the Arun for mullets, which enter it from the sea in summer in shoals, and by feeding upon a particular kind of of herb, become extremely delicious, Chichester for lobsters, Selsey for cockles, Amberley for trout, Polborough for cels, Rya for herrings, and the county in general for carp. It is remarkable that all the rivers abore-mentioned rise and fall into the sea within the county.

The air as well as the soil is different in different parts of the county. Upon the coast the air is aguish, upon the hills and downs pleasant and wholesome; but somewhat moist and foggy in the ralleys, the soil being deep and rielh, and the regetation in summer very vigorous. The downs in some places are very fertile in coru and grass, and in others they feed great flocks of sheep, whose flesh and wool are yery fine, but of the latter no inconsiderable quantity is clandestinely exported to France. In the weald and in the valleys the roads are rery deep, especially in winter. In the north quarter are mariy woods, and some forests in other places; whence the king's yards are supplied with the largest and best timber in England, besides what is made into charcoal and consumed in the iron works; for on the cast side is plenty of iron ore, with furnaces, forges, and mills for manufacturing of it. The gunpowder of this county is said to exeel that of any other. Those delicious birds, called wheatears, are bred in this shire; they are no bigger than a lark, but almost an entire lump of fat. That part now called the Wild or Weald of Sussex, was antiently a mere desert, for hogs and deer, of great extent, taking in a part of Kent and Surry.

## KENT.

The climate of Kent varies according to the situation of places. In the low flat . tands, and especially in the marshes, the air is heavy, moist, and unhealthy; and yet not. to such a degree as bas been sometimes represented, for, with a little care and caution,

## ERITISH EMPIRE.

strangers as well as natives quickly reconcile their constitation to the temperature even of those parts, and live in them without much inconveniency or apparent danger. But in reference to the rest of the county, the air is as thin, pure, and wholesome, as in any part of Britain.

There is no region more happily or more beautifully diversified in regard to soil, so that every kind thereof is to be met with somewhere or other within its bounds; and in no shire ure any of those soils more fertile than they are in this; the Weald yields variety of fine timbers, particularly of chesnuts; the middle part has very tich arable lands, annually bearing every species of grain in immense plenty, and those excellent in their several sorts; there are also many" beautiful,orchards, which produce a variety of fine fruits, and more especially apples and cherries, wbich were introduced here from Flanders, by one Richard Harris, who was the k ng's fruiterer in the reign of Heary VIII. The flat country is renowned for its meadows; and Rumney Marsh has nurdly its equal.

We may, from this concise description, very easily collect, that the natural productions of Kent are numerous, and of great value. In the bowels of the earth they find, in sevesal places, a rough, hard, scrviccable stone, for paving, which turns to some advantage, but not so much as their exquisite fuller's earth, rich marl, and fine chalk, which are there in abundance. If we except iron ore indeed they have no mines; but there are prodigious heaps of copperas stones thrown on the const. The isle of Sheppey and all the adjacent shore, as far as Raculver, is justly famous for its wheat. Thanet is in no less credit for its barley, or rather was so; for now it produces, through the painful industry, snd skilful husbandry of its inhabitants, copious crops of good wheat, as well as barley.

Horses, black cattle, and sheep, they have in great numbers, and remarkable in point of size : and hop grounds in all parts of the county, which tum to very considerable account; to which we may add weld, or, as some call it, dyer's woad, which is a very profitable commodity, and of which there grows much in the neigitbourhood of Canterbury; also madder, which is, or has been, oceasionally cultivated. The river and seacoast abounds with fish of different descriptions; the excellency of its oysters on the eastern shore is celobinted by the Romain poets.

## MiDDLESEX.

The air of Middlesex is very pleastint and healthy, to which a fine gravelly soil does not a little contribute: the natural productions are cattle, corn, and fruit.

## HERTFORDSHIPE.

The soit of Hertford in general, especially in the Chiltern and southern parts, is but very indifferent, and much inferior to that of the neighbouring countics, yet the air is much superior.
Vol. I.

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The air of Essex in the inland part is healthy; but in the marshes, near the sea, it prod duces agues, particularly in the part called the Hundreds. However, the fertility of the unwholesome part is very great, and even the bigher grounds of this county ire very fruituil. About Saffiron Walden, the earth, after bearing saffron three years, it is said, will produce gool barley, for 18 years sucoessively, without any manure. Its produces which is very plentiful, consists of corn, most excellent saffion; cattle, fowl, fish, and particularly oysters.

## SUTFOLK.

The air of Suffolk is reckoned as wholesome and pleasant as anym the kingolom, nor is it otherwise upon the sea-coast, which is dry and sandy, and free from sait marbhes The soil, except to the west and upon tho sca-coast, is very rich, being a compount of clay and marl : towards the sea there are large heaths and tracts of sand; but these produce hemp, rye, and pease, and feed groat flocks of sheep. About Nowmarket the soil is much the same; but in high Suffolk, or the woodlands, besides wood, there ard Yery rich pastures, whore abundaice of cattle aso fed. Fin other parts of the county, as about Bury, there is plenty of corm.

## NORFOLK.

In Norfolk the air differs in different parts of the county, according to the soil, which in some places is marshy, and there the air is foggy and unwholesome; in others it is clayey and chalky, poor, lean, and sandy, and there the air is good. The county is almost all champaign, except in some places, where rise gentle hills. The marsh lands yich rich pasture for cattle, the clay grounds pease, rye, and barley; and its sandy heaths feed vast flocks of large sheep, of which some villages are said to keep 4000 or 5000 , the beaths abound also in rabibits, of a silver grey colour. In many other parts the soil is good, and produces abondance of wheat, as well as other grain. Great quantities of mackerel and herring are caught upon the coasts of. this county, the former in the spring, and the latter in September; especially at Yarmouth, where they are cured in a particular manner, and to great perfection. Wood and honey were formerly plentiful in this county; and on the coast jet and ambergris are sometimes found.

## CAMBRIDGESHIRE.

The only rivers of Cambridgeshire are the Cam, the Nene, and the Ouse. A considerable tract of land in this county is distinguished by the name of the Isle of Ely. It consists of fenny ground, divided by innumerable channels and drains; and is part of a very spacious level, containing 800,000 acres of land, extending into Norfülk, Suffolk,

## BRITISH EMPIRE:

Houtingdonshire, and Lincolnstire. The Islo of Ely is the aorth division of the cotenty, and exteads south almost as far as Cambridge. The whole level, of which this is part, is bounded on one side by the isea, and on the others by upland ; which, taken together, form a rtde kind of semi-circle, resembling a horse-sioe. The air is very differeat in different parts of the county. In the fens it is moist and foggy, and therefore not so wholesome ; but in the south and east parts it is very good, these being mucls drier than the other; but both, by late improvement, thave been rendered very fruiffut, the former by dryining, and the latter by cinquefoil; so that it produces plenty of corn, especially barley, saffion, and hemp, and affords the riehest pastures. The rivers abound with fish, and the fens with wild-fowl. As the above tract appears to bave been dry land formerly, the great cliange it has undergone must have beed owing either to a violent breach aud inundation of the sea, or to earthquakes,

## IIUNTINGDONSHIRE.

4. Huntingdonshire is a good com eounty; and abounds in pastures, especially in the eastern side which is fenug. The next is diversified by rising hills and shady groves, and the river Quse waters the bouthern part. The air of this county is in most parts pleasant and wholesome, exceps among the feas and moors, though they are not so bad as the hundreds of Kent and E Eecx. The soil is fruittul, and produces great crops of corn, and the hilly parts afford a fat pasture for sheep. They have great numbers of cattle ; and plenty of water-fowl, fish, and turf for firing ; which last is of great service to the inhabitants, there being but little wood.

## BEDFORDSHIRR.

The priacipal river in Bedfordshire is the Ouse, which is navigable to Bedford, and divides the county into tro parts, of which that to the south is the most considerable. In its course, which is very meandering, it receives several small streams; the principat one is the Ivel, which takes its rise in the southern part of the county. The air is healtly, and the soil in general a deep clay. The north side of the Ouse is fruitful and woody, but the south side is less fertile; yet producing great quantity of wheat and barley, exedlent in their kind, and woad for dyers. The soil yields plenty of fullers-earth.

## BUCKINGHAMSHIRE.

The rivers in Buckinghamshire are the Thames, Ouse, Coln, Wicham, Ameraham, Ita, Tame, and Loddon : its chief produce is corn, fine wool, and breeding rams. The most noted places are the Chittern lills, vale of Aylcsbury, Beruwood forest, Wophum hieath, and 15 parks. The air is generally good, and the soil mostly chalk or marle.

## BERKSHIRE.

- The principal river in Berkshire is the Thames. It also bas the Kennet, great part of
which is niavigable; the Loddon, the Ocke, and the Lamboume, a small strean, which, contrary to all other rivers, is highest in summer, and strinks gradually as winter approaches. The air of this county is healthy, even in the vales ; and though the soil is not the most fertile, yet it is remarkably pleasant. It is well stored with timber, particularly oak and beech; and produces great plenty of wheat and barley.


## OXFORDSHIRE.

The nir of Oxfordshire is sweet and pleasant, and the soil rich and fertile ; the lower parts consist of meadows and corn-ficlds, and the higher were covered with woods till the civil wars, in which they were so entirely destroyed, that wood is now extremely scarce and dear, except in what is called the Chilters, and so is coal, of consequence fucl bears an exorbitant price. The county is extremely well watered; for, besides the Tsis, Tame, Cherwell, Evenlace, and Windrush, there is a great number of lesser rivers and brooks:

## NORTHAMPTONSHIRE.

As the county of Northamptonshire is dry, well-cultivated, free from marshes, except the fens about Peterborough, in the centre of the kingdom, and of course at a distaice from the sea, it enjoys a very pure and wholesome air. In consequence of this it is very populous, and so full of towns and churches, that 50 spires or steeples may be seen in many places at one view ; and even in the fens, the inhabitants seem to enjoy a good state of health and to be little affected by the water, which frequently overflows their grounds, especially in winter, but is never suffered to remain long upon it. Its soil is exceeding fertile, both in corn and pasturage ; bit it labours under a scarcity of fuel, es it doth not produce much wood, and by lying at a distance from the sea, cannot bie easily supplied with -oal. Its commodities, besides corn, are sheep, wool, black cattle, and saltpetre; and its manufactures are serges, tammies, shalloons, boots, and shoes. Eesides many lesser brooks and streams, it is well watered by the rivers Nen, Welland, Ouse, and Leam; the three first of which are large, and for the most part navigable.

## W ARWICKSHIRE.

Warwickshire has a pleasant air and fertile soil, which varies in different parts of the county. It-produces, in considerable abundance, corn, pasturage, and coals.

## WORCESTERSHIRE.

Worcestershire being an inland county, well cultivated, and free from lakes, marshes, or stagnated waters, the air is very sweet and wholesome all over it. The soil in general is sery rich, producing com, fruit, especially pears, (of which they make a great deal of perry,) hops, and pasture ; the hills are covered with sheep, and the meadows with cattle ; hence they have wool cloth, stuffs, butter, and cheese in abundance. They are also well supplied with fuel, either wood or coal, and salt from their brine-pits and salt-springs. Of' the last they have not only, enough for themselves, but export large quantities by the

Severn; which noble river, to the great convenience and emolument of the inhabitants, tuns from north to south through the very middle of the county, enriching the soil, and yielding it pleaty of fish; and an easy, expeditious conveyance of goods to and from it.

## HEREFORDSHIRE.

The air of Herofordshire is allowed to be as pleasaht, sweet, and wholesome, as that of any other in Eugland, there being nothing either in the soil or situation to render is otherwise. The soil throughout is ext dent, and infenor to none, either for grain, fruit, or pasture, supplying the intabitan's plentifally with all the necessarics 'of life; but that by which it is distinguished from others is its fruit, especially apples, of which it produces such quantities, that the cyder made of them is not only sufficient for their own consumption, though it is their ordinary drink, but also in a great measure for that of London, and other parts; that in particular which is made from the apple-called redstreak, is much admired, and has a body alrost equal to that of white wine: The county is well supplied with wood and water ; for, besides lesser streams, here are the rivers Frome, Lodon, Lug, Wye, Wadel, Arrow, Done, and Minow ; the last of which is large, and all of them well stored with fisb, particularly the Wye, which breeds salmon.

## MONMOUTHSHIRE:

The air of Monmoutbshire is temperate and healthy, and the soil fruitfol, thasth mountainous and woody; the hills feed sheep, goats, and horned cattle; and the 'valSeys produce plenty of grass and com, This county is extremely well watered by sevenal fine rivers; for, besides the Wye, which parts it from Gloucestershire, the Minow, Which runs between it and Herefordshire, and the Rumney, which divides it from Glamorganshire, it has, peculiar to itself, the Usk, which enters this county a little above Abergaveany, rums mostly southward, and fills [into the Severn by the mouth of the Elywik ; which last river runs from north to south, in the western side of the county. All thise rivers, especially the Wye and Usk, abound with, fisb, particularly salmon and trout.

## SHRORSHIRE.

Some parts of Sliropeliire lic on the north, and soma on the south side of Be Seven. Besides the Severn, it is also watered by the Temed or Tesideave, as it is called in Weleth, which flows from the mourtains of Radnorskire ; and by the Tem, which has its rise and name from one of those pools called Tearns in Staffordsbire. All these abound with fisb, especially trouts, pikes, lamproys, graylings, carp, and cels. The air, especially upon the hills, with which the county abounds, is very wholesome. There is as great a diversify of soil, as in most other counties. On the lills, where it proves very good pasture for sheep and in the low gromonds, where it is very rich, along the Severn in partiYol. I.

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## BRITISH EMPIRE.

cular, there is plenty of grass for hay and black cattle, with all sorts of corn. No county is better provided with fuel than this, having in it many incxhaustible pits of coal, and ulso mines of lead and iron. Over most of the conl-pits of this county lies a stratums or layer of blackich porous rock, of which, by grinding and boiling, they make pitch and tar, which are rather better than the common sort for calking ships, as they do not erack, but always continue close and smooth. Quarries of limestone and iron stone are common enough-in the county, and the soil in many places is a reddish clay.

## STAFFORDSHIRE.

The ain of Staffordshire, except in those parts which are callod the Moorlands and Woodlands, and about the mines, is good, espocially upon the hills, where it is accounted very fine. The soil in the northem mountainous parts is not fertile; but in the midale, where it is watered by the Trent, the third river in England, it is both fraitful and pleasant, being a mixture of arable and meadors grounds. In the south it abounds not only with corn, but with pines of iron and pits of coal. The principal rivers of this county beside the Trent, which runs through the nuldle of it, and abounds with salmon, are the Dove and Tame, both which are well stored with fish:- In this county are also a great many lakes or meres and pools, as they are called, which having streaus of water either running into or from them, cannot be supposed to be of any great prejudice to the sir ; they yield plenty of fish. In divens parts of the county are medicinal watters, impregnated with different sorts of minerals, and consequently of different qualities and virtues.

Great flocls of sheep are bred in this county, especially in the Moorlands or mountains of the northern part of it; but the wool is said to be coarser than that of many ether counties. In the low grounds, along the rivers, are rich pastures for black catte. In the southern or middle parts, not only gnin of all kinds, but hemp and flixi are ruised. This county produces also lead, copper, iron, marble, ulabaster, milstones, limestone, brick-earth, fullens-earth, and potters-clay ; a sort of red earth, called slip, used in painting vessels; red and yellow ochres, tobacco-pipe-clay, fine stones, iron stones of several sorts, blood stones, found in the brook Tent, which, when wet, will raise red flies like ruddle, quarry stones, and grind-stones. For fuel the county is well supplied with turf, and coal of several sorts, as canal coals, peacock coal, and pit coals. Canal coal emits a light flame, like that of a candfe, and is capable of being manufuctured into articles of different kinds ; peacock coal is so called, because, when turned to the light, it displays all the colours of the peacock's tail, but it is fitter for the forge than the kitchen, Of the pit-coal there is an inexbsastible store ' it burns into white ashes, and leaves no such cinders as that of the Neweastle coal

## CEICESTERSHIRE

As Leicestershire lies at a great distance from the sea, and is free from bogs and marshes, the air is sweet and wholesome. It is a champaigu country in general, and
nbuinduntly fertile in corn and grass, being watered by several rivers, as Soure or Sore, which passes through the middle of $i t$, and abounds in excellent salmon and other fish; the Wreke, Trent, Eye, Sense, Auker, and Avon. These rivers being mostly navigable, greatly facilitate the trade of the county. In some parts there is a great scarcity of fuel, both wood and coal; but in the more billy parts there is ptenty of both, together with great flocks of sheep.

Besides wheat, barley, oats, and pease, it produces the best bears in England, They grow so tail and inxurignt in some places, particularly about Ilarton-in-the-Beans, that they look, towards the harvest time, like a forest, and the infiabifants eat them, not only when they are green, as in other płaces, but all the sear round; for which reason their neightours dick-name them bean-bellies. They have plenty of very good wool, of which they not only mako great plenty of stoclings, but sead a great quantity

* unmanufactored into other parts of England. They make great profit of their corn and pulse ; and likewise breed great numbers of coach and dray horses, most of the gentlemen being graziers ; anid it is not uncommon to rent grass farms, from 500 . to 2000 / a year.


## RUTLANDSHIRE.

Ruttandshire for quality may be compared with any other county; tha ar being good, and tho soil fertile, both for tillage and pastures; and it not only affords plenty of corm, bit feeds a great uumber of horned eattle and sheep. It is well watered with brooks and rivulets ; and the principal rivers are the Weland and the Wash.

## LINCOLNSHIRE.

The principal rivers of Lincolnshire are the Humber, the Trent, the Witham, the Nenm, the Welland, the Ankham, and the Dun. It is divided into three parts, Lindsey Kesteven, and Holland; the air of which latt is unwholesomie and foggy, on account of the fens and large marslies. The soil of the north and west parts is very fertile, corn, but then they supply the inhabitants with fish and fowl in great plenty, particularly ducks and gecse.

## NOTTINGHAMSHIRE.

No county in England enjoys a pleasanter and lealthier air than Nottinghamshire. As for the soil, it differs widely in different parts of the county. Towards the west, where lies the forest of Sherwood, it is sandy, and therefore that part of the county is called by the frhabitints the sands; but the south and east parts, watered by the Trent and the rivurts that fall into it, are clayey, and for that reason are called by the inhabitants the The latter is froitful both in com and pasture, but the former oroduces little berides wood, coal, and some lead.

## DERBYSHIRE.

The air of Derbyshire is preasant and heathful, especially on the east side; but on the west, about the Peek, it is sharper, and more subject to wind and rain. The soil is very different in different parts of the county. In the cast and south parts it is very fruitful in all Kinds of grain, but in the west, beyond the Derwent, it is barren and mountainous, prodacing nothing but a little oats. There is, however, plenty of grass in the valleys, which affords pasture to a great number of sheep. This part of the county is called the Peak, from a Saxon word, signifyang an emipence. Its mountains are very bleak, high, and burren; but extremely proikable to the inhabitants. They yield greas quantities of the best lead, antimony, iron, scythe-stones, grind-stones, marble, olabaster, coarse sort of coystal, azore, spar, and pit-coal.

## CHESHIRE

Both the air and soil of Cheshire are in acneml good. In many places of the county are peat mosses. in which are often found tranks of fir-troes, fometimes several feet under ground, that are useat by the intitititants both for fuet and camithes. Here atso wse many lakes and pools well stored with fish; besides the rivers Mersee, Weaver, and Dee, which last falls info a creek of the Irish sea near Cheater. This county also abounds with wood, Lut what it is chiefly remarkable for is its cheese, which has a pecioliar flavour, generally thought not to be inferior to any in Europe.

## LANCASHIRE.

The eastern parts of Lancashire are rocky, and in the northern districts we see inany single mountains remarkably high, such as Iugleborough liils and Landgridge hill. Nor is there any want of wood in this county, either for timber or fucl. Witness TVienfale forest and Bowland forest to the northward, and Sitnoa's wood in the southern pint of Lancashire. This county is well watered with rivers and lakes. Among the lakes or meres of-Laneashire, we reckon the. Winander mere, and the Kiningstone neere, ywich, though neither so large nor so well sfored with fish, yet affords plenty of excelfent oliar. There was, in the south side of the Ribble, another lake, called Morton, several miles in circumference, which is now drahind and ceonverted into pasture ground. In thispperation the workmen found a great quantity of fish, together with eight canoes, resemaing those of America, supposed to have been used by the antient British fishermen, Besides these meres or lakes, this county abounds with morasses and marshes, from which: the inhabitants dig excellent pect or tarf for fuel, as well as marle for monurinit the ground, and trukks of old fir trees, stopposed to have lain there ever since the ghtin deluge. Some of these are so impreguated with tupontine, that, when divided splinters, they burn like candles, and are used for thies purpose by the commop

There is a great varicty of mineral waters in this county, some periodical springs, and one inslance of a vielent irruption of water at Kirkley in Fourness. The most remarkable chalsbeate spaws are those of Latham, Wigan, Stockport, Burnby, Bolton, Plumpton, Middleton, Strangeways, Lanenster, Lanbrick, and Chorley. At Ancliff, in the neighbourhood of Wigan, is a fountain called the Durning Well, from whence a bituminous vapour exhales, which, being set on fire by a candle, burns like brandy, so as to produce a lieat that will boil egge to a herd consistence, while the water itself votains its original coldncss. There is at Marton a fountain of salt water, so strongly impreguated with that mincral, as to yicld six times as wuch,as can be extracted from the same quantity of sea waier. At Rogham, in Fourness, there is a purging saline fountain; and in the neighbourhood of Rassit, where tho ground is frequently overtiowed by the sea, a stream descends from Hagbur-hills, which, io the space of seren years, is suid to convert the marl into a hard free-stone, fit for building.

The air of Lancashine is punc, localhy, and ngreeable, except among the fens and on the sea-shore, where the atmospliere is loaded with exhalations, producing malignant and internitting fevers, scurvy, rhenmatisrn, dropsy, and consumption. The soil is various in different parts of the county ; poor and rocky on the hills, fat and fertile in the valleys and champaign country. The colour of the peat is white, grey, or black, according to the nature of the composition; and the degree of putrefaction which the ingredients have undergone.

There is a bituminous carth about Ormskirk, that smells like the oil of amber, and indeed yields an oil of tho same nature, both in its scent and its medicinal effects ; which moreover reduces raw flesh to the consistence of mummy; this earth burns like a torch, and is used as such by the country people. The metals and minerals of this county consist of lead and copper, antimony, black lead, lapis caliminaris, green vitriol, alum, suiphur, pyrites, free-stone, and pit and canal coal. The level country produces plenty of wheat and barley, and the skirts of the hills yield good harvests of excellent oats; very grod hemp is raised in-divers parts of the province; and the pasture which grows in the valleys is so peculially rich, that the cattle which feed upon it are much larger and fatier than in any other part of England. There is aot any other part of the world better supplicd than Lancasbire with provisions of all kinds, at a reasonable rate, sueth as beef, rcal, mutton, launt, pork, poultry, and game of alt sorts, caught upon the moors, heaths, and commons, in the hilly parts of the shire. Besides the sea-fowl common to the shires of England, such as duchs, eastelings, teal, and plover, many uncotsmon birds are olserved on the coast of Lancashire, the sea-crow, variegated with blue and black, the puffin, the cormorant, the carlew, the razor-bill, the copped wren, the redshanks, the swan, the tropic bird, the king-fisher, \&c.

## YORKSHIRE.

As the soil and face of the eounty of Yorkshirc vary greatly, so does the air. In the - hilly parts the air is good, but the soil very indifferent; of the lower parts some are 'marshy, others drier, and the soil of hoth rich; but the air of the former. is more foggy Vol. I.
and unhealthy than that of the latter. As to the produce of Yorkshire, it abounds in corn, cattle, horses, lead and iron, wood, lime, liquorice, usum, jet, \&c.

## DURHAM.

The principal products of Durbam are lead, coals, iron, corn, mustard, salt, glass, fine ale, with excelleat butter and salmon. The soil is various in the south, but the western parts rocky and moorish.

## WESTMORELAND.

The air of Westmoreland is elear, sharp, and salubrious, the natives being seldom troubled with diseases, and generally living to old age. The soil is various, thint on the mountains is very barren, while that in the valleys is fertile, producing good corn and grass, especially in the meadows near the rivers. In the hilly parts, on the western borders, it is gencrally believed there are vast quantities of copper ore and veins of gold; some mines of copper are worked, but most of the ore lies so deep, that it will not answer the expence. This county yields the finest slate, and atbundance of excellent bams are cured here. The principal rivers are the Eden, the Lone, and the Ken. It has also several very fine lakes, the principal of which is Winandere mere, or Winder mere water. In the forest of Murtindale, to the south of Ullswater, the breed of red deer still exists in a wild state.

## CUMBERLAND.

Cunberland is well watered with rivers, lakes, and fountains, but none of its streams are navigable. In some places there are very high mountains; the air is keen and piercing on these mountains towards the north ; and the climate is moist, as in all billy countries. The soil varies with the fice of the country; being barren on the moors and mountains, but fertile in the valleys, and level grounds bordering on the sea. In general the eastern parts of the shire are barren and desolate, yet even the least fertile parts are rich in metals and minerals. The mountains of Copland abound with copper ; veins of the same metal, with a mixture of gold and silver, were found in the reign of queen Elizabeth, among the fells of Derwent; and royal mines were formerly wrought at Keswick. The county produces great quantities of coal, some lead, abundance of mineral earth, called black lead, several mines of lapis calaminaris, and an inconsiderable pearl fishery on the coast, near Ravenglass.

## NORTHUMBERLAND.

The face of the county of Northumberland, especially towards the west is rougbened with large mountains, the most remarkable of which are the Cheviot hills; and the high ridge called Ridesdale ; but the lands are level towards the sea-side, and the bor-
ders of Durham. The elimate, like that of every other mountaincus country, in the neighbourhood of the sca, is moist and disagrecable; the air, however, is pure and bealthy, as being well ventilated by breezes and strong gales of wind ; and in winter mitigated by the warm vapours from the two seas, the Irish and the German ocean, between which it is situated. The soil varies in different parts of the county. Amoug the hills it is barren ; though it affords good pasture for sheep, which cover those mountains. The low country, when properly cultivated, produces plenty of wheat, and all sorts of grain; and great part of it is laid out in meadow lands and rich enclosures. Northumberland is well watered with many rivers, rivulets, and fountains; its greatest rivers are the Tweed and the Tyne. The Pyne is composed of two streams, called south and north Tyne ; the first rises on the verge of Cumberland, near Alston moor, enters Northumberland, running north to Holtwesel, then bends easterly, and receiving the two small rivers East and West Alne, unites above Hexham with the other branch, taking its rise at a mountain called Fanc head, in the western part of the county, thence called Tinedale; is swelled in its course by the little river Spele; joins the Read near Billingham ; and running in a direct line to the south-east, is united with the Southern Tyne, forming a large river that washes Newcastle, and falls into the German oceas near Tinmouth. In all probability, the mountains of Northumberland contain lead ore, and other mineralized metals in their bowels, as they in all respects resemble those parts of Wales and Scotland, where lead mines have been found and prosecuted. Perbaps the inhabitants have been diverted from enquiries of this nature, by the certain profits and constant employment they enjoy in working the coal pits, with which this county abounds. The city of London, and indeed the greatest part of England is supplied with fuel from these stores of Northumberland, which are indeed inexhaustible, enrich the proprietors, and employ an incredible number of hands and shipping. About 658,858 chaldrons are annually shipped for London. There are no natural woods of any consequence in this county, but many plantations belonging to the stats of noblemen and gentlemen, of which here is a great number. As for pot herbs, roots, and every article of the kitchen garden and orchard, they are here raised in great plenty by the usual means of coltivation; as are also the fruits of more delicate flavour, such as the apricot, peach, and nectarine. The spontancous fruits it produces in common with other parts of Great Britain, are the crab apple, the sloe or bullae, the hazle nut, the acorn, hips, and haws, with the berries of the bramble, the juniper, wood strawberries, cranberries, and bilberries.

Northumberland raises a great number of excellent horses and black cattle, and affords pasture for numerous flocks of sheep; both the cattle and the sheep are of a large breed, but the wool is coarser than that which the more southern counties produce. The lills and mountains abound with a variety of game, such as red deer, foxes, hares, rabbits, heath-cock, growse, partridge, quail, plover, teal, and woodcock; indeed, this is counted one of the best sporting counties in Great Britain. The sea and rivers are well stocked with fish; especially the Tweed, in which a vast number of salmon are caught, and carried to Tinmouth, where being pickled, they are conveyed by sea to Loudon, and sold under the name of Newcastle salmon.

## WALES.

WALES is bounded on all sides by the sea and the Severn ; except on the east, where it joins the counties of Chester, Salop, Hereford, and Monmouth. Its length, from the southermost part of Glamorgaushire tathe extremity of Plinthiire north, is computed at about 113 miles; and its grettest breadth, from the river Wey cast to St. David's in Pembrokeshire west, is nearly of the same dimensions, being about 90 miles. The country, though mountainous, especinlly in North Wales, is far from barren or unfruitful ; the hills, besides the metals and mincrals they contain, feeding vast herds of small black cattle, deer, sheep, and goats; and their valleys abounding in corn, as their seas and rivers do in fish. Here are also wood, coal, and turf, for fuel, in abundance.

## GLAMORGANSHIRE.

The principal rivers of Glamorganshire are the Rhymny, the Taff, the Ogmore, the Avon, the Cledaugh, and the Tave. The air in the south part, towards the sea, is temperate and healthful; but in the northern part, which is mountainous, is cold and piereing; full of thick woods, extremely barren, and thin of inhabitants. The mountains, however, serve to feed herds of cattle, and send forth streams, which add greatly to the fertility of the other parts of the county; thicy have likewise coal and lead ose. The south part is so remarkubiy fertile, pleasant, and popplous, that it is generally styled the garden of Wales. It has many small harbours on the coast, for exporting coals and provisions. Of the former it sends large quantities both to England and Ireland ; but of the latter to England almost solely, especially butter.

## BRECKNOCKSHIRE.

Brecknockshire is surrounded with hills, which render the air in the valleys pretty temperate. The soil on the bills is very stony, but the streams descending from thence into the valleys render thiem fruitful both in corn and grass. The chief commodities here are corn, cattle, fish, and otters' fur, besides manufictures of cloth and stockings. The priacipal rivers are the Usk, the W'ye, and the Yrvon.

## CAERMARTHENSHIRE.

- The air of Caermarthenshire is whalesome, and the soil less rocky and mountainous than most other parts of Wales, sul consequently is proportionally more fertile, bath in corn and pasture. It has also plenty of isood, and is plentifutly supplied with coal and limestone. The most considerable rivers are the Tory, the Cethy, and the Tave;
of which the first abounds with exeellent salmon, Near this spot is a fountain which ebbs and flows twice in 24 hours like the sea.


## PEMBROKESHIRE.

The air of Pembrokeshire, considering its situation, is good; but is in general better the farther from the sea. As there are but few mountains, the soil is generally fruitful, especially on the sca-coast, nor are its mountains altogether unprofitable, but produce sufficient to maintuin great numbers of sheep and goats. Its other commodities are corn, cattle, pit-coal, unarl, fish, and fowl. Among these last are falcons, ealled bere peregrius. Amongst the birds common here are the mignatory sea-birds, that breed in the iste of Ramsey, and the adjolnting rocks, catted the Bithop and his Cterkh About the beginning of April such flocks of birds of several sorts resort to these rocks, as appear incredible th those who have not seen them; they come to them in the night-time, and also fave thein then, for in the creaing the mocks may be seen covered with them, had the uext morning pot one be seen at ulf; th like manner not a single lind shall appear in the eveving, aud the next morning the rock shall be covered with them: they also gencrully make a visit about Christans, staying a seek or longer, and then take their leave till frecding time. Among these hirds are the eligug, razon-bill, puffin, and harrybird. The eligug. lays only one egg, which, as well as those of the puffin and razor-bill, is as hig as a duck's, but longer, und samaller at one end. She never leaves it till it ishatchicd, nor then till the young one is ablo to foltow her ; and shic is all this time fed by the mate. This and the razur-kilt tieed upon the bare rocks, wfilout any kind of nest ; the puftin and harry-bird breed in Loles, and commonly in the holes of rabbits; bat sometimes they dig holes for themselves with their beaks: the harry-birds are never seen on fand but whien taken. All the four linds cannot miso themselves to fly awry when they ero on land, and thorefore they creep of wadald to the cliffis, and throwing themsclves off, take wing: the eligug is the same bird which they call in Cornwall a Kiddaw, and in Yorkstive a scout; the razur-till is the merre in Comvall; the puffui is the aretic duck of Clufius ; and the harry-bird the slircwater of fir Thomas Brown. The inbabitants of this county make a very pleasant durnble fire of culin, which is the dust of coal made up into balls with a third part of mud. The county is well watered by the rivers Cletily, Dongledge, Cledtien, aind Tcire; which Last pars, it from Cardiganshire.

Thece is a divition of tho county styled Rtios in the JYolsh by which is meant a lugge green plain. This is imhabice by the descendant of the Flenings, placed there by Peiry I. to curb the Welsh, who "ere never abte fo wspel them, though they have often attempted it. On the coasts of this county; as yell as on those of Glamorganshire and the Severn sea, is found a kind of al a or lavi, the lactuca marine of Cambden, boing a marine plant or weed. It is gathered in spring: of which the inhabitants asake a sort of fool, called in Welch chavan, and in Eaghish black butter. Having washed it - clean, thlty lay it to sweat between two dlat stones, then shred it stmall, and knead it - welh, like dough for bread, ated thon make it up into great balls or rolls, which is by sume You. I,
$\stackrel{H}{ } \mathrm{H}$
eat raw, and by others firyed with oatmeal and butter. It is accounted excellent against all distempers of the liver and spleen ; and some affirm that they have been relieved by it in the sharpest fits of the stone.

## CARDIGANSHIRE

The air of Cardiganshire, as in other parts of Wales, varies much with the soil, which in the southern and western parts is more upon a level than this principality generally is, which renders the air mild and temperate. Bat as the northern and eastern parts are mountainous, they are consequently more barren and bleak. However, there are cattle bred in all parts, but they have neither wood nor coals of their own for fuel; they have rich lead mines, and fish in plenty, with fowls both wild and tame. The principal rivers are the Teivy, the Ridal, and the Istwith.

## RADNORSHIRE.

Fne nir of 'Radnorshire is in winter cold and piercing; the soil in genoral is but indifferent ; yet some places produce corn, particularly the eastern and southern parts; but in the northern and western, which are mountainous, the land is chiefly stocked with homed cattle, sheep, and goats,

## MONTGOMERYSHFRE,

The air of Montgomeryshire is pleasant and salubrious, but, this county being extremely mountuinoss, is not very fertile, exeept in the valleys, which afford some com, and plenty of pasture ; bowever the south, south-east, and north-east parts being moch more level, are extremely fruitful, especially a oleassant yale, through which the Sevem glides in beautiful meanders.

## MERIONETHSHIRE.

In Merionethshire the air is very sharp in winter, on aecount of its many high barren mountains; and the soil is as bad as any in Wales, it being very rocky and mountainous. However this county feeds large flocks of sheep, many goats, and lange herds of horned cattle, which find pretty good pasture in the valleys. Besides these, among their other commodities may be reckoned Welch cotton, deer, fowl, fish, and especially berring, which are taken on this coast in great plenty.

## DENBIGHSHIRE.

The air of Denbighshire is wholesome but sharp, the county being pretty hilly, and the snow lying long on the tops of the mountains. The soil in general is barren: but the vale of Cliryd, so called from its being watered by that river, is a very fertile, pleer-
sant spot, of great extent, and well inhabited. The chief commodities are Llack eattle, sheep, and goats, rye, called here amelcorn, and lead ore.

## FLINTSHIRE.

The air of Flintshire is cold, but healthful. It is full of hills, intermixed with a few valleys, which are very fruitful, producing some wheat, and plenty of rye. The cows, though very small, yield a great quantity of milk, in proportion to their size, and are excellent beef. The mountains are well stored with lead, coal, and millstones : this county also produces good butter, 'cheese' 'and honey; of which last the natives make metheglin, a wholesome liquor, much used in these parts.

## CAERNARVENSHIRE.

In Cacrnarvonshire the air is very piercing, owing partly to the snow, that lies seven or eight months of the year upon some of the mountains, which are so high that they ane called tho Britisth Alps; and partly to the great inumber of takes, which are said not to be fewer than 50 or 60 . The soil in the valleys, on the side next Ireland, is pretty fertile, especially in barley; great numbers of black cattle, sheep, and goats, are fed on the mountains ; and the sca, lakes, and rivers, abound with variety of fish. The highiest momntains in tho county are those calfed Snowden Lills, and Pen-man-mawr-Snowden hill is generally thought to be the highest mountain in Britain ; though some have bees of opinion that its height is equalled, or even exceeded, by mountains in the highlands of Scotland.
According to M. Pennant, this mountainous tract yields scarcely any corn. Its produce is cattle and sbeep; which, during summer, keep very high in the mountains, followed by their owners, with their families, who reside during that season in havodtys, or "Summer's dairy houses," as the farmers in the Swiss Alps do in their sennes. These bouses consist of a long low room, with a bole at one end to let out the smoke from the fire which is made beneath: their fumiture is very simple; stones are substituted for stools, and their beds are of lay, ranged along its ssdes: they manufacture their own clothes, and dye them with mosses collected from the rocks. During summer the men pass their time in tending their herds, or in making hay, \&ce; and the women in milking or making butter and cheese. For their own use they milk both ewes and goats, und make cheese of their milk : their diet consists of milk, cheese, and botter, and their ordinary drink is whey; though they have, by way of reserve, a fesy bottles of very strong beer, which they use as a cordial when sick. They are a people of good understanding, wary, and circumspect; tall, thin, and of strong constitutions. In the winter they descend into the pendref, or "old dwelling," where they pass tifeir time in inactivity.

The view from the highest part of Snowden is very extensive. From it M. Pennant saw the county of Chester, the high hills of Yorkshire, part of the north of England, 'Scotland, and Jreland; a plain view of the isle of Man, and that of Auglesey, appeared

## BRITISH EMPIRE.

tike $\pi$ mop exteuded under hik fect, with cvery fivulet visible. Oor muthor took mach pains to have this, view to advantago; sat up at a furm on the west till about 19 , und walked up the whole way. The night was remarkahly fine and starry; towards morning the stars faded away, leaving an iuterval of durkness, yhich, however, was soon dispetted by the dawn of day; the boty of the sun appeared most distinct with the roundress of the moon, before it appeared too brilliant to be looked at : the sea, which bounded the western part of the prospect, appeared gitt with the sumbeams, first in slender streaks, and at last gtowed with redness: the prospect isns disclosed like the gradual drawing up of a curtain in a thealre, till at last the heat bocame sufficiently strong to raise mists from the various lakes, which in a'slight degree obseuret the prospect. 'The shadow of the mountain extended many biles, and shewed its tho heuded form ; the Wydufar making one form, and the Criby the othur. At this time he countod betureen 20 und 50 lakes, either in Caerniarvon or in Merioacthstire. In making another visit, the sky was obscured very soon after he got up; a vast mist involved the whole circuit of the mountain, and the prospect dosm was horrible. It gave an idea of a number of abyses conceatod by a thick smoke, furiouty circulating around them. Very often a gust of wind made an opening in the clouds, which gave a firte and distinet vistrof lake and valley. Sometimes they opened at one pluce, at others in many at Once, exhibiting a most strange and perplexing sight of water, fields, rocks, and chasms ; they then closed again, and every thing wis involved in darknessy fo a few minntes they would separate again, and repeat the above-mentioned scene with infinite variety: From this prospect our traveller descended, with great reluctance; but before he had reached the place where his horses were left, tho was overtaken by it thunder-storin. The rolling of the thunder-claps being reiterated by the motintains, was inexpressibly awful; and after he had mounted; he was in great danger of being swept away by the torrents which poured down, in consequence of a very heavy rain. It is very rare, M. Pennant observes, that the traveller gets a proper day to ascend this hill: it indeed offen appears elear; but by tho evident attraction of the clouds by this lofty mountain, it becomes suddenly and unexpectedly enveloped in mist, whon the elouds have just before appeared very high and very remote. At times he observed them lower to half their height; and notwithstrinding they have beem dispersed to the right and left, yet they lave met from both sides, and united to involve the stummit in one great obscurity.

The height of Snowden was measored in 1680 , by Mr. Caswell, with instruments made by Flamstead; according to bis menauration, the lieight is 3790 foet ; but more moders computations make it Guly 3568 fect , reckoning from the quay it Cacrnarvon to the highest rock. The stone that composes this mountain is excessively hard. Large coarse erystals, and frequently enbic pyrites are fouad in the fissures. An immense quantify of water rushes down the sides of Snowdea and the noighbouring mountains, inasmuch that M. Penmant supposes, if collected in one strean, they woufd exceed the waters of the Thames.
2. Pen-man-mawr hangs over the sea. There is a road cut out of the roek on' the side next the sea, guarded by a wall ruming along the edge of it on that side; but the tra-

## WALES

veller is in danger of being crushed by the fall of pieces of the rock from the precipices above. The river Conway, though from the lake out of which it issues to its mouth, is only 12 miles, yet is so deep, in consequence of the many brooks it receives, that it is navigable for ships of good burden for eight miles. Pearls are found in a large black muscle in the river.

## THE ISLE OF ANGLESEY.

The isle of Anglesey is the most western county in North Wales. It is of miles in ength, and 18 in breadth. It is separated from Caernarvonshire by a strait called senai, and in every other side is surrounded by the sea. It is a fertile part, and abounds in corn, cattle, flesh, fish, and fowls.

SCOTLAND.

THE face of Scotland exhibits a very mountainous appearance, especially to the west and,northward; but, at the same time, it displays many large and long tracts of plain ground, fit for all the purposes of agriculture. It is divided from east to west by a ehain of huge mountains, known by the name of Grant's Bain, or the Grampinn Hills. Tiere is another chain, called the Pentland hills, which runs through Lothian, and joins the mountains of Tweedale ; a third, called Lammer-muir, rising near the castern const, rans westward through the Merse : but besides these there is a vast number of detached hills and mountuins, remarkable for their stupendous height and steepness. There is no country in the world better supplied than Scotlind with rivers, lakes, rivulets, and fountains. Over and above the principal rivers of Tweed, Forth, Clyde, Tay, and Spey, there is an infinity of smaller streams, that contribute to the beauty, convenience, and advantages of the kinglom.

Tweed takes its rise from the borders of Annandale; serves as a boundary between Scotland and England; and, after a long serpentine course, discharges itself into the sea at Berwick. Forth rises in Monteith, near Callendar, passes by Sterling, and after a course of twenty-five leagucs, runs into the arm of the sea called the Frith of Forth, which divides the coast of Lothian from Fife. Clyde takes its rise from Errick hill, in the shire of Lanerk; traverses the shire of Clydesdale, to which it gives name; washes the city of Glasgow ; widens in its passage to the castle of Dumbarton, and forms the Frith of Clyde, adjoining to the Irish sea. Tay, the largest river in Scotland, derives its source from Loch-Tay, in Breadalbane; and, after a south-east course, dischurges itself into the sea below Dundee. Spay, or Spey, issues from a lake of the same name in Badenoch ; and, rumning a north-easterly course, falls into the German ocean at Speymouth. Some of the fresh-water lakes are beautiful pieces of water, incredibly deep, and surprisingly extended. There are several large forests of fir in Scotland, and a great number of woods; which, however, produce very little timber of any consequence ; but the country in general is rather bare of trees ; and in many places neither tree, shrub, nor any kind of plantation is to be seen. The case has been otherwise of old; for huge trunks of trees are often dug from under ground in almost every part of the kingdom.

In the north of Scotland, the day at midsummer is lengthened out to 18 h .5 m ; so that the shortest night does not exceed 5 h . 55 m .; the night and day in winter aro in the same proportion. The air of this kingdom is generally moist and temperate, except upon the tnps of high mountains, covered with eternal snow, where it is cold, keen, and piercing. In other parts it is tempered by warm vapours from the sen, which environs it on three sides, and runs far up into the land by friths, inlets, and indentations. This neighbourhood of the sea, and the frequency of hills and mountains, produce a constant undulation in.

the als, and many hard gales, that purify the climate, which is, for the most part, agreeable and healthy. Scotland affords a great variety of soil in different parts of the country, which, being hilly, is in general well adapted to pasturage; not but that the lowlands are as fortile, and, when properly inclosed and manured, sicld as good crops of wheat as any grounds in the island of Great Brituin. The water in Scotland is remarkably pure, light, and agrecable to the stomach ; but, over and above that which is used for the ordinary purposes of life, here are many medicinal springs of great note.
Scotland abounds with quarries of free-stone easily worked, which enable the people to build elegant houses, both in town and country, at a small expence, especially as they have plenty of lime-stone, and tabour very chicap. The east, west, and northera parts of the country produce excellent coal; and where this is wanting, the natives burn turf and peat for fuel. Crystals, variegated pebbles, and precious stones, are found in many parts of Scotland; teal, flint, and sea-shells, fuller's earth, potter's elay, and metals in great plenty. The country produces iron and copper ore, a prodigious quantity of lead, mixed with a large proportion of silver; and in some places little bits of solid gold are gathered in brooks immediately after torrents.

The lowlands of Scotland, as has been observed, when duly cultivated, yield rich harvests of wheat ; and indeed it must be owned that many parts of this kingdom rival the best spots of England in agriculture; but these improvements have not yet advanced into the westem and northem extremities of the island, where we see nothing but seanty barvests of oats, rye, and barley. The highlands are so defective even in these, that it is necessary to import supplies of oatmeal from Ireland and Liverpool. This scarcity, however, we must not impute to the barrenness of the soil, so much as to the sloth and poverty of the tenants, oppressed by rapacious landlords, who refuse to grant such leases as would encourage the husbandman to improve his farm, and make himself better acquainted with the science of agriculture. This is perfectly well understood in the Lothians, where we see substantial inclosures, plantations, meadows for hay and pasture, wide extended fields of wheat, the fruits of skill and industry, and meet with farmers who rent lands to the amount of 400 l . or 300 l . a year. Of plants this country produces an immense variety, growing wild, exclusive of those that are raised by the husbandman and gardener. Their farm grounds are well stocked with wheat, rye, barley, oats, hemp, and flax : their gardens produce great plenty of kitchen roots, salads, and greens; among which last we reckon the colewort, known by the name of Scotch kail : their orchards bear a variely of apples, pears, cherries, plums, strawberries, gooseberries, raspberries, and currants ; here also upricots, nectarines, peaches, and sometimes grapes, are brought to maturity. In a word, there is nothing whether shrub, fruit, or flower, that grows in any part of South Britain, which may not, with a little pains, be brought to the same perfection in the middle of Scotland.

Among the trees and shrubs which are the natural growth of this country, we may reckon the oak, the fir, the birch, the poplar, the alder, willow, elder, hazle, mountainash, crab-tree, and juniper; which last abounds to such a degree in some parts of - the highlands, that in the space of a few miles many tons of the berries might be

## BRITISH EMPIRE.

yearly gathered ; besides these, we find the hawthorn, the sloe, the dog-rose, the farze, broom, fero, and whole tracts of land and mountains covered with strong heath. This affords shelter for the myrtillis, the fruit of which, called bilberries, is here found in great abundance, as well as the brambleberry, cranberry, and wild strawberry. The ash, the clm, the sycamore, lime, and walnut-tree, are cliielly planted about the houses of gentlemen ; but even the inclosures of quickset appear naked for want of such hedgc-rows as adorn the country of England. Indeed, great part of this kingdom lies naked and exposed like a common; and other parts have no other inclosure than a paltry wall, huddied up of loose stones, which yields a bleak and mean prospect, and serves no other purpose than that of keeping out the eattle All the sea-const is covered with alga marina, dulse, and other marine plants.

The Highlands are well stocked with red deer, and the smaller species called the roe-buck, as well as with hares, rabbits, foxes, wild cats, and badgers ; and they abound with all sorts of game. The rivers and lakes pour fortly a profusion of salmon, trout, jack, and ecls ; the sea-coast swarms with all the productions of the ocean. The hills and mountains are covered with sheep and black cattle for exportation, as well as domestic use. These are of small size, as are also the horses bred in the Highlands ; but the Lowlanders use the large breed, which came originally from England.

The Orkney islands are about 30 in number; but many of them are uninhabited, the greater part being small, and prodacing only pasturage for cattle. The principal islands are denominated by the names of Mainland, South Ronaldsha, Swimna, Flotta, Copinsha, Strupensha, Strensa, Sanda, \&e, the terminations in a, or ha, being generally given in the Teutonic, to such places as are surrounded by water. The currents and tides flowing between the islands are extremely rapid and dangerous. Near an island called Swinna are two great whirlpools, called the wells of Swinna, which are counted dangerous by mariners, especially in a calm. When sailors find themselves sucked into the vortex, it is said they throw out a barrel, or some bulky substance, which smooths the water till it is sucked down and thrown up at a considerable distance, during which time the ship passes over in safety. But when there is a breeze of wind, these whirlpools may be crossed without any danger.
The air of these islands is moist, on account of the neighbourhood of the sea; and frost and snow do not continue long. In some places the soil is bare and mountainous, and in others sandy and barren; however, many of the istands produce large crops of barley and oats, but no wheat or othicr gruin, excepting what is inclosed in gardens. These, when duly cultivated, produce ull kinds of kitchen herbs and roots, bringing even fruit-trees to maturity; but out of them, in the open country, there is scarce a tree or shrub to be secn, except juniper, wild myrtle, heath, and the cyur-biodon : yet this deficiency cannot be imputed to the poverty of the soil, or the nature of the climate; for the trunks of large oaks are fiequently dug up in the marshes. This is likewise the case in the most barren parts of the Highlands of Scotland, where not a sbrub is to be seen above the surface of the earth : nay, the inhabitants frequently find, deep in the earth, the roots of large trees, evidently exhibiting marks of the ax by which they were felled; so that these northern parts must have undergone some strange revolu-
tions. The Orkneys produce great variety of herbs and berries, grass and corn, which last is exported as far as Edinburgh. In some of the islands, the natives have discovered mines of tin, lead, and zilver, though none of them are wronght to any advantage ; in others, we find abundance of marl, grey and red slate, quarrics of free-stone, and even of marble and alabaster.
When the wind rages to any violence, the sea throws in plenty of timber, torm from other countries; and not unfrequently the people find large pieces of ambergris. The fresh water in those islands is very pure and limpid; mind, though there are no large rivers in the Orkneys, the ground is well watered with lakes and pieasant rivulets, thiat not only serve to turn their mills, but ako abound with trout of the most delicate tavour.
Besides the abundance of little horses, black cattle, sheep, swine, and rabbits, the inhabitants of the Orkneys rear all sorts of domestic animals and tame poultry. Their heaths and commons yield plenty of red deer, and all sorts of game; ; partridges, growse, heath-cocks, plover, durks, teal, and widgeon : the sea-coast teems with senls and otters; are visited by whales, cod, ling, tusk, herrings, and all manner of fish; on the shore they find spermacetior sepie, and a great variety of shells and corallines, with a multitude of oysters, remarkably large muscles, crabs, and cockles. The rocks are covered with sea-foul, wild geese, solan geese, barnacles, engles, hawks, and kites. With respect to the barnacles, or, as the natives call them, eleck geese, they are said to be found in shells, sticking by the bills to trees, in several islands. Martin affirms he has seen them in this situation, bat could not pereeive them alive; and indeed the whole account of their generation and production, extibited by the northern naturalists, is absurd and unphilosophical. The Orkney eagles are so strong, that, according to the reports of the country, they have been known to earry away yoang children in their talons. Certuin it is, they make such havoc among the lambs, that he who kills an cagle is entitied by law to a hen from every bouse in the parith where it was killed. The king's falconer visits these islands every, year, in order to fetch away the young hawks and falcons from their nests among the precipices : he enjoys a yearly sulary of twenty pounds, and may claim a hen or a dog from every house in the country, except those that are exprestly exempted from this imposition.

They generally fish for herring on the west sitle of the Orkneys; and are therefore more remote from markets than those who are employed in the same manner on the coast of Shetland, In the Orkncy islands they see to read at midnight in June and July ; and during four of the summer months they have frequent communications, both for business and curiosity, with each other, and with the continent : the rest of the year, however, they are almost inaccessible, through fogs, darkness, and storms. It is a certain fact, that a Scotch fisherman was imprisoned in May, for publisting the account of the prince and princess of Orange being ruised to the throne of England the preceding Novenber; and be would probably bave been langed, had not the news been confirmed by the arrival of a ship.

We may reckon among the curiosities of the Orkneys, the Phascoli, commonly' known by the name of Molveca beans, and sometimes they are called Orkney beans. They
Vol. I.

* K k
are a sort of fruit found on the shore of the Orkney islands, being throan on them by storms of westeriy wind. They are of several distinet species, and are none of them the produce of those islands, nor of any places thereabout, but are probably of American origin, many of them being plainly natives of Jamaice, and other islands of the Indies. They are found principally on those coasts which are most exposed to the waves of the great ocean, and are on these so plentiful, thatt they might be gathered in large quantities, if of any value; but the only use they are put to, is the making of snuff-boxes out of them. Sir Robert Sibhard and Mr. Watlace, in their accounts of Seotland, have both named them Molucca beans. Many strange fiskes and curious shells are also frequently cast up by the ocean; of these last a vast variety are preserved for adorning the cabinets of modern nuturalists. Sometimes exotic fowls aro driven upon the Orlsneys by tempestuous weather; fish, as large as whitings, have been thrown astore to a considerable distance within the land. At Cantick head, in the island Waes, and some other places, huge stones are often lieaved up by the violence of the see and wind, and cast over high rocks upon the land. A single Laplander has been seen more than once on this coast, in his slender canoe, covcred with skins, being drivea bither by adverse winds, and storms.

The Shetland illes contain near three times as much land as the Orkneys; they are considered also as equal in size to the island of Madein ; and not inferior to the provinces of Utrecht, Zealand, and all the rest of the Dutch islands taken together ; but of climate and soil they have not mueh to boast. The longest day in the island of Unst is 19 h .15 m . and of consequence the shorlest day 4 h . and 45 m . The spring is very late, the summer very short; the autumn also is of no long duration, dark, fogay, and rainy; the winter sets in about November, and lasts till April, and sometimes till May.

They bave frequently in that season storms of thunder, much rain, but little frost or snow. High winds are indeed very frequent, and very troublesome, yet they seldom produce any terrible effects. The aurora borealis is as common bere as in any of the northeru countries. In the winter season, the sea swells and rages in such a manner, that for five or sir months their ports are inaccessible, and of course the people during that space have no correspondence with the rest of the world.
The soil in the interior part of the main land, for the most part is mountainous, moorssh, and boggy, yet not to such a degree as to render the country utterly impassable ; for many of the roads here, and in some of the northern isles, are as good as any other natural roads, and the people travel them frequently on all occasions. Near the coast there are sometimes, for miles together, flat pleasant spots, very fertile both in pasture and corn. The mountains prodoce large crops of very nutritive grass in the summer ; and they cut considerable quantities of hay, with which they feed their cattle in the winter. They might, with a little attention, bring more of their country into cultivation : but the people are so much addicted to their fishery, and feel so little necessity of having recourse to this method for subsistence, that they are cantent, how strange soever that may seem to us, to let fuur parts in five of their land remain in a state of nature.
They want not considerable quantities of marle in different islends, though they use
but little; hitherto there has been no ehalk found ; limestonc and freestone there are it the southern parts of the main land in great quantities, and also in the neighbouring islands, particularly Fetlar; and considerable quantities of slate, very good in its kind. No mines have been hitherto wrought, though there are in many places visible appearances of several kinds of metal. Some solid pieces of silver, it is said, have been turned up by the plough. In some of the smaller isles, there are strong appearances of iron; but, through the want of proper experinents being made, there is, in this respect at least, hitherto nothing certain. Thieir meadows are inclosed with diles, and produce very good grass. The little corn they grow is chiefly barley, with some oats; though even in the northern extrenuity of Unst, the little land which they have is remarkable for its fertility. The hills abound with medicinal hicrbs; and their kitchen gardens thrive as well, and produce as good greens and roots as any in Britain. Of late years, and since this has been attended to, some gentlemen have had even greater suceess than they expected in the cultivation of tulips, roses, and many other flowers. They have no trees, and hardly any slirubs, except juniper, yet they have a traditicn that their country was formerly overgrown with woods ; and it scems to be a confirmation of this, that the roots of timber-trees have been, and are still, dug up at a great depth; and that in some, and those too in inaccessible places, the mountain ash is still found growing wild. That this defect, viz. the want of wood, at present, does not arise entirely from the soil or climate, appears from several late experiments ; some gentlemen having raised ash, maple, horse-chesnuts, \&c. in their gardens. Though the inhabitants are without either wood or coals, they are very well supplied with fuel, having great plenty of heath and peat.

The black cattle in this country are in general of a larger sort than in Orkney, which is owing to their having more oxtensive pastures ; a clear proof that still farther improvements might be made in respect of size. Their horses are small, but strong, stout, well-shaped, live very hardy, and to a great age. They have likewise a breed of small swine, the flesh of which, when fat, is esteemed very delicious. They have no goats, hares, or foxes; and in general no wild or venomous creatures of any kind, except rats in some few islands. They have no moor-fowl, which is the more remarkable, as there are every where immense quantities of heath; but there are many sorts of wild and water-fowl, particularly the dunter-goose, clack-goose, solan-goose, swans, ducks, teal, whaps, foists, lyres, kittiwaiks, maws, plovers, cormorants, \&ec. There is likewise the ember-goose, which is said to hateh her egg under her wing. Eagles and hawks, as also ravens, crows, mews, \&c. abound here.

All these islands are well watered : for there are every where excellent springs, some of them mineral and medicinal. They have indeed no rivers ; but many pleasant rills or rivulets, which they call burns, of different sizes; in some of the largest they have admirable trout, some of which are of 15 , and even of 20 pounds weight. They have likewise many fresh-water lakes, well stored with trout and eels, and in most of them there are also large and fine flounders ; in some very excelleat cod. Those fresh-water - lakes, if. the country was better peopted, and the common people more at their case, - are certainly capable of great iopprovements. The sea-consts of the main land of

Shetland, in a straight line, are 55 leagues; and therefore there cannot be a country conceived more proper for establishing an extensive fishery. What the inhabitants have been hitberto able to do, their natural advantages considered, does not deserve that name, notwithstanding they export large quantities of cod, tusk, ling, and skate, insomuch that the bounty allowed by acts of parliament amounts from 1400 L . to 9000 L , annually. They have, besides, haddocks, whitings, tarbot, and a variety of other fish. In many of the inlets, there are prodigious quantities of excellent oysters, lobsters, muscles, cockles, and other shell-fish. As to amphibious creatures, they have multitudes of otters and seals; add to these, that amber, ambergris, and other spoils of the ocean, are frequently found upon the coasts,

The situation of the Hebrides, in the great Atlantic occan, renders the air cold and moist in the greater part of them. In the most northerly isles, the sun, at the summer solstice, is not above an hour under the horizon at midnight, and not longer above it at mid-day, in the depth of winter.

The soil of the Hebrides varies also in different isles, and in different parts of the same istand: some are mountainous and barren, producing little else than lieath, wild myrtle, fern, and a little grass ; while others, being cultivated and manured with sea-weed, yield plentiful crops of oats and barley.

Lead mines have been discovered in some of these islands, but not worked to much advantage; others have been found to contain quarries of marble, lime-stone, and freestone; nor are they destitute of iron, tale, crystals, and many curious pebbles, some of which emulate the Brazilian topaz.

With respect to vegetables, over and above the plentiful harvests of com that the natives earn from agriculture, and the pot herbs and roots that are planted in gardens for the sustenance of the people, these islands produce spontaneously a variety of plants and simples, used by the islanders in the cure of their diseases; but there is hardly a shrub or tree to be seen, except in a very few spots, where some gentlemen have endeavoured to rear them, with much more trouble than suiccess.

The animals, both of the land and sea, domestic and wild, quadrupeds, fowls, and fishes, found in and about these islands, are of the same species, size, and configuration, with those of the Orkneys,

## THE ISLE OF MAN.

The isle of Man is an island in the Irish sea, lying about seven leagues north from Anglesey, about the same distance west from Lancashire, nearly the like distance southeast from Galloway, and nine leagues cast from Ireland. Its form is long and narrow, * stretching from the north-east of Ayre point to the Calf of Man, which lies south-west, at least 90 English miles. Its breadth in some places is more than nine miles, in most places eight, and in some not above five, and contains about 160 square miles.

This island, from its situation directly in the mouth of the channel, is very beneficial to Great Britain, by lessening the force of the tides, which would otherwise break with far greater violence than they do at present. It is frequently exposed to very high
winds; and at other times to mists, which, bowever, are not at all unwholesome. The soil towards the north is dry and sandy, and consequently unfertile, but not unimprowable; the mountains, which may include near tro-thirds of the island, are bleak and barren; yet afford excellent peat, and coutain several kinds of metals. They maintain a kind of small swine, called purrs, which are esteemed excellent pork. In the valleys there is as good pasture, hay, and corn, as in any of the northern countries; and the southery, part of the island is as fine soil as can be wished. They have marl and limestone sufficient, to render even thicir poorest lands fertile ; excellent slate, ragstone, black marble, and soue other kinds for, building They have vegetables of all sorts, and in the utmost perfuction; potatoes in immenso quantities ; and, where proper pains have beon taken, they have tolerable fruit: thoy have also hemp, flax, crops of oats and barley, and some wheat. Ilogs, sheep, goats black cattle, and horses, they have in plenty; and though small in size, yet, if the country was thoroughly and skilfully cultivated, they might improve the breed of all animals, as experience has shewn. They have rablits and hares very fit and fine; tame and wild fowl in great plenty, and in their high mountains they have one airy of eagles, and tro of excellent hawks. Their rivilets furnish them with salmon, trout, eels, and other kind of fresh-water fish. On their coasts are, caught cod, turbot, ling, hallabut, all sorts of shell-fish, oysters only are scarce, but large and good herrings, of which they made antiently a great profit, though this fishery is of hate much declined.

There is a ridge of mountaius runs almost the length of the isle, from whence they have abundance of good water from the rivulets and springs ; and Snafield, the highest, rises about 580 gards. The air is sharp and cold in winter, the frost short, and the poow, especially peger the sea, lies not long on the ground. Here are guintities of good stone, rocks of lime-stone and red free-stone, and good slate, with some mines of lead, copper, and iron. Before the south promontory of Man is a little island, called the Calf of Man ; it is about shree miles in circuit, and separated from the isle of Man by aclannel about tiva futlongs broar, At ono time of the year it abounds with puffins, and also with a spectics of ducks and drahes ly the English called barnacles, and by the Scotch Soland giese

## TIIE SCILLX or SILIEY ISLANDS.

The Scilly or Silley iblands lie due west from the Lizard, about 17 leagues; west and by sonth from the old Lands-end-mounts bay, at the distance of ten leagues; and from the westerit Lauds end, they lie west-south-west, at the distance of something more thair uine leagués: There are five of thein juhabited; and that ealled Sampson has one family in it. The largest of these is St. Mary, which lies in the north latitude of $49^{\circ} 53^{\circ}$, and in the longitade of $6^{\circ} 40$ west from Greenvich. The air of these islands is equally mild and pure; tbeir wioters are seldoun subject to frost or snow. When the former happenis, it lasts:not long; and the latter never lies upon the ground. The heat of their summers is mach abated by sea-breezes : they are indeed much incommoded by seaz fogs, but thege are not unwholesome. Agraes are rare, and fevers more so. The most YoL. I.

## BRITISH EMPIRE.

fatal distemper is the small-pox; yet those who live temperately survive commonly to a great age, and are remarkably free from diseases. The soil is very good, and produces grain of all sorts, (except wheat, of which they had antiently plenty) in large quantities. They still grow a little wheat, but the bread made of it is unpleasant : they eat, for this reason, chiefly what is made of barley; and of this they have such abundance, that though they use it both for bread and beer, they have more than suffices for their own consumption. The use of potatoes is a new improvement, and they prosper to such a degree, that in some places there are two crops in a year. Roots of all sorts, pulse, and salids, grow well ; dwarf fruit-trees, gooseberries, currsuts, raspberries, and every thing of that kind, under proper shelter, thrive exctedingly ; but they have no trees, though formerly they had elder, and porthelik, i.e. the harbour of willows, proves they had these likewise ; and with a little care, no douht great improvements might be made. The ranunculus, anemony, and most kind of flowers, are successfully cultivated in their gardens.

They have wild-fowl of all sorts, from the swan to the snipe; and a particular kind, called the hedge-chicken, which is not inferior to the ortolan; also tame fowl, puffins, and rabbits in great numbers. Their black eattle are generally small, but very well tasted, though they feed upon oreweed; their horses are little, but strong and lively; they have also large flocks of fine sheep, whose fleeces are tolerably good, and their flesh is excellent. There are no venomous creatures in these islands. In the harbour of St. Mary's and in all the little caves of the several isles, prodigious quantities of mackerel may be caught in their season, also soal, tarbot, and plaice, remarkably good in their kind; and ling, which, from its being a thicker fish, mellower, and better fed, is very justly preferred to any caught nearer our own consts. Salmon, cod, and pollock, are in great plenty, and pilchards in vast abundance ; to these we may add the alga marina, or oreweed, which serves to feed both their small and great cattle, manures their lands, is burned into kelp, is of use in physic, is sometimes preserved, sometimes pickled, and is in many other respects very beneficial to the inhabitants.

It remains to describe that group of islands, situated on the coast of France, which is all that remains of our antient Norman possessions. It consists of Jersey, Guernsey, Aldemey, Sarke, and the Caskets. Jersey lies eighteen miles to the west of Normandy, and eighty-four to the south of Portland in Dorsetshire. It is not above twelve niles in length, nor much above six where broadest, which is at the two extremities. It is defended by rocks and dangerous quicksands. On the north side the cliffs rise 40 or 50 fathoms high, which render it incceessible on that side ; but on the south the shore is alinost level with the water. In the west part of the island is a large tract of land, once cultivated and very fertile, but now a barren desert, caused by the westerly winds throwing up sand from the bottom to the top of the highest cliffs. The higher lands are diversified by gritty, gravelly, stony, and fine mould; the lower by a deep, rich, and beavy soil: the middle part of the island is somewhat mountainous, and so thick planted with trees, that at a distance it resembles one entire forest, though in walking through it, there is hardly a thicket or any other thing to be seen, but hedge-rows and oichards of apple-trees. The valleys under the hills are finely watered by brooks, and
have plenty of cattle and small sheep, with very fine wool, and very sweet meat, which is ascribed to the shortness of the grass: the horses are good for draught, but few fit for the saddle.

The island produces variety of trees, roots, and herbs ; but not com enough for the inhabitants, who therefore send for it to England and France, and sometimes to Dantzic. The fields are inclosed by great mounds of earth, raised from six to eight or ten feet high, proportionally thick and solid, planted with quicksets and trees. As the air of this island is very healthy, those of the inhabitants who are temperate, live to a great age : but the coast is very subject to storms by westerly winds, from which they have no lands to shelter them nearer than North America; and there is a vast chain of rocks about the island, among which the tides and currents are so strong and rapid, that the navigation is dangerous to those who are not perfectly acquainted with the coast. The buildings of this island are generally of rag-stone ; but some of the wealthy inhabitants have their houses fronted with a reddish white stone, capable of being polished like marble, and of which there is a rich quarry on a hill called Montmado.

Guernsey extends from east to west in the form of a harp, and is thirteen miles and a half from the south-west to north-east, and twelve and a half, where broadest, from east to west. The air is very healthy, and the soil naturally more rich and fertile than that of Jersey ; but the inhabitants negleet the cultivation of the land for the sake of commierce; they are, however, sufficiently supplied with corn and cattle, both for their own use and that of their ships. The island is well fortified by nature with a ridge of rocks, one of which abounds with emery, used by lapidaries in the polishing of stones, and by various other artificers. Cyder is here so plentiful, that the common people use it instead of small-beer, but the more wealthy drink French wine.
Alderney is about eight miles in compass, and is separated from Cape la Hogue, in Normandy, by a narrow strait, called the Race of Alderney, which is a very dangerous passage in stormy weather when the two currents meet; otherwise it is safe, and has depth of water for the largest ships. It is a healthy island, fruitful both in corn and pasture, and remarkable for a fine breed of cows.

Sark is a small island depending upon Guernsey, the inhabitants are long-lived, and enjoy from nature all the conveniences of life. To the west of Alderney lie the range of rocks called the Caskets, so dangerous to mariners.

We have now completed the survey of all that part of the British empire, of which it was proposed to treat in the present chapter. It would be easy to enumerate many of the animal, mineral, and vegetable productions of the island, but this we imagine would afford but little information or amusement to the reader, we shall therefore conclude this chapter with a description of such animals, as are either uncommon, or possessed of certain qualities which entitle them to peculiar regard.

The horse, in a domesticated state, is a bold and fiery animal ; equally intrepid as his master, he faces danger and death with ardour and magnanimity. He delights in the noise and tumult of arms, and seems to feel the glory of victory: he exults in the chace: his eyes sparkle with emulation in the course. But, though bold and intrepid, he is docile and tractable : he knows how to govern and check the natural vivacity and

## BRITISH EMPIRE.

fire of this temper. He not only gields to the hand, but seems to consult the inclination of his rider. Constantly obedient to the iupressions he reccivos, his motions are entirely regulated by the will of his master. He in some measure resigns his very existence to the pleasure of man. He delivers up his whole powers; be reserves nothing; he will ratber die than disobey. Who could endure to see a character so noble abused! who could be guilty of such gross barbarity !

This character, thougb natural to the animal, is in some measure the effect of education. His education commences with the loss of liberty, and is fimished by constraint. The slavery of the horse is so antient and univgsal, that he is but rarcly seen in a natural state.
Several amtient writers talk of wild horses, and even mention the places where they were to be found, Iferodotus takes notice of white savage horses in Scythia ; Aristotle saiss they are to be found in Syria; Pliny in the northern regions ; and Strabo in Spain and the Alps. Among tho moderns, Cardan says, that wild horses are to be found in the Highlands of Scotland and the Orkney isles ; Olaus, in Muscovy; Dapper, in the island of Cyprus ; Leo and Marmol, in Arabia and Africa, \&c. But as Europe is almost equally iobabited, wild horses are not to be met with in ony part of it; and those of America were originally transported from Europe by the spaniards; for this species of animals did not exist in the new world. The Spaniards, carried over a greas number of horses, left them in different islonds, \&c. with a view to propagate that useful animal in their colonies : these have multiplied incredibly in the vast deserts of those thinly peopled countries, uthere they roam at large without any restraint. M. de Salle relates that he saw, in the year 1685, horses feeding in the meadows of North America, near the bay of St. Louis, which were so ferocious, that nobody durst come near thein: (Exmelin says, that be has seen large troops of them in St. Domingo running in the valleys ; that when any person approached, they all stopped; and one of theni would advanse till wilhin a certain divance, then snort with his mose, take to his beels and the whole troop after himi. Every author who takes notice of these liorses of Ameriea, agree that they are smaller and less handsone than those of Europe. Thesp felations sufficiently prove, that the horse, when at full fiberty, thengh not a fierce or dangerous animal, has no ineliaation to associate with makind ; that all the softness and ductility of his temper proceeds entirely from the culture and polish be receives ia his domestic education, whid! in some reasure commeuces as soon as he is brought Ferth:
In lord Tankervillés park, at Cliillingham, near Berwick-upon-Tweed, there is yet left a breed of wild cattle, probably the only remains of the true and genuine breed of that species at present to bo found in this kingdom. Thicir colour is invariably white, with the muzzle black, and the whole inside of the ear, sint about one third part of the outside, from the hip dowiwards; red: thicir horns are white, with black tips, very fine, and bent upwards. The ireight of the oxen is from 35 to 45 stone, and of the cows, from 25 to $35,14 \mathrm{Ib}$. to the stone: At thw first appearaice of any person near them, they set off full gallop, and, at the distaice of tiro or three handred yards, wheel round, and come boldly up iggain, tossing their heads in a menacing manner. On a sudden they make a full stop,
st the distance of 40 or 50 yards, looking wildly at the object of their surprise, bitt on the least motion, they all turn round, and gallop off again with equal speed, but not to the same distance, furming a stmaller cirele, and again returning with a bolder and more threatetiag aspect than before; they approach much nearer, probably within thirty yards, when they mako another stand, and agoin gallop off. This they do several times, shortening their distance, and advancing nearer, till they come within a few yards, when most people think it prudent to leave them, not choosing to provoke thẹm further, as it is probabie that in a few turns more they would make an attack.

The moke of killing them was perhaps the only modern remams of the grandear of anticnt bunting. On notice beind given that a wild bull would be killed on a certain day, the inhabitants of the neighbourhood assembled, sometimes to the number of a hundred horsemen, and four or five hundred foot, all armed with guns or other weapons. Those on foot stood upon the walls, or got into trees, while the horsemen rode off a bull from the rest of the herd, until he stood at bay, when they dismounted and fired. At some of these huntings, twenty or thirty shots bave been fired before the animal was subdued. On such occasions, the b'eeding victim grew desperately furious, from the smarting of his wounds, and the shouts of savage joy echoing from every side. But from the number of accidents which happened, this dangerous mode has been little practised of late years; the park-keeper alone generally killing them with a rifle gun at oue shot. When the cows calve, they hide their young for a week or ten days, in some sequestered situation, and go to suckle them two or three times a day If any persons come near the calves, these clap their heads closs to the ground, and lie bike a hare in form, to hide themselves.

This seems a proof of their native wildness, and it is corroborated by the following circumstances, that happened to Dr. Fuller, the author of the History of Berwick, who found a hidden calf, two days old, very lean and weak. On his stroking its head, it got up, pawed two or three times like an old ball, bellowed very loud, went back a few steps, and bolted at his legs with all its force; it then begni to pawagain, bellowed, stepped back, and bolted as before. But being aware of its intentions, he moved aside, and it missed its aim, fell, and was so very weak, that, though. it made several efforts, it was not able to rise. It, bowever, had done enough ; the whole herd was alarmed, and coming to its rescue, they obliged him to retire. When any of them happen to be wounded, or grown weak and feeble through age or sickness, the rest of the herd set upon and gore them to death.

The sheep, in the mountainous parts of Wales, where the liberty tbey enjoy is sogreat as to render them very wild, do not always collect into large flocks, but sometimes graze in parties of from eight to a dozen, of which one is stationed at a distance from the rest, to give notice of the approach of danger. When the centinel observes any one sdivancing at the distance of two or three humbred yards, he turns his face to the enemy, keeping a watchful eye. upon his motions, allowing him to approach as uear as eighty or an handred yards; but when the suspected foe manifests a design of coming nearer, the esatchful guard alarms his comrades by a loud hiss or whistle, twice or thrice repeated,

- Yez. I.
* Mm.
when the whole party insiantly scour away with great agility, always seeking the stéepest and most inaccessible parts of the mountains.

The domestic hog is, generally speaking, a very harmless creature, and preys on no animals, but cither dead ones, or such as are incapable of resistance. He lives mostly on vegetables, yet can devour the most putrid carcases. We, however, generally conceive him to be much more indelicate than he really is. He selects, at least, the plants of his choice, with equal sagacity and niceness, and is never poisoned, liko some other animals, by mistaking noxious for wholesome food. Selfish, indocile, and rapaciods, as we think him, no animal has greater sympathy for those of his own kind. The moment one of them gives the signal of distress, all wisin heating rush to its assiatance. They have been known to gather round a dog that teased them, and kill him on the spot. Inclose a male and female in a sty when young, and the female will decline from the instant her companion is removed, and will.probably die of a broken tieart. This anif mal is well adapted to the mode of life to which it is destined. Having to gain a subsistence principally by turning up the earth with its nose, we find that the neck is strong and brawny; the eyes small; and placed high in the head; the snout long, the nose callous and tough, and the power of smelling peculiarly acute. Its external form is indeed very unwieldy, but by the strength of its tendons, the wild boar is enabled to fly from the hunters with surprising agility. The back toe on the feet of this animal prevents its slipping while it descends steep declivities.

The stag is one of those innocent, gentle, and peaceable animals, which seem to be destined to embellish and animate the solitude of the forest; and to occupy at a distance from the tranquil retreats of those gardens of nature. The elegance and lightriess of his figure, the commodiousness of his stature, the flexibility and nervousness of his limbs, his grandeur, strength, and swiftness, and his head, which is rather adorned than armed with living branches, that, like the leaves of trees, are annually renewed, sufficiently distinguish him from the other inhabitants of the wood.

No species of animals makes so near an approach to another as the fallow deer to that of the stag. But though their similarity be great in every respect, they fly from each other, never intermix, and of course give rise to no intermediate race. It is even rareto find fallow deer in a country much frequented by stags, unless they are industriously transported into it. Their nature seems to be less rustic and robust than that of the stags ; and they are likewise less common in the forests, They are kept in parks where they may be said to be half domestic. More of them are reared in England than-in any other country in Europe ; and the English are extremely fond of their venison. The dogs also prefer the flesh of this deer to that of all other animals; and after they liave once eat of it, they are extremely apt, in the chase of the stag or roe deer, to change their course when they perceive the scent of the fallow deer. In some provinces of Franse, there are fallow deer, as also in Spain and Germany. Those of Americn wereprobably transported from Europe. It seems to be an animal peculiar to the temperate climates; for there are none in Russia, and they are seldom met with in Sweden, or othor nortiern countries.

## BRTTISH EMPIRE.

Hares are equally diffused over all climates, They abouhd in Sweden, Denmark, Poland, Russia, France, Britain, Germany, Barbary, Egypt, the islands of the Archipelago, and particularly Delos, which was called Lagaia by the antient Greeks, because of the number of hares which were found there, Lastly, hares are numerous in Lapland, where they are white for ten months of the year, and resume their proper colour only during the two warm months of summer. Hence it appears, that every climate is nearly equal to these animals. It has, however, been remarked, that they are less frequent in the east than in Europe, and that they are very rare in South America, though they again make their appearance in Virginia, Canada, in the neighbourhood of. Hudson's bay, and the straits of Magellan. But these North American hares are perhups a different species from ours; for travellers inform us, that they are not only much larger, but that their flesh is white, and of a different taste from that of the common kind. They add, that the hair of the North American hares never falls off, and that their skins are excellent furs. In excessively hot countries, as Senegal, Gambia, Guinea, and particularly in the cantons of India, Assam, Agra, and some other regions situated under the torrid zone, both in Africa and America, as in New Holland, and the istbmus of Panama, there are animals which have been called hares by travellers, but are rather a species of rabbit ; for the rabbit is a native of warn cliunates, and is never found very far to the north; but the bares are larger and stronger in propiortion to the coldness of the country they inhabit.

Great Britain was formerly so noted for its mastiffs, that the Roman emperor appointed an officer in this island, whose sole business was to breed, and transmit from hence to the amphitheatre, such as would prove equal to the combats of the place. Strabo tells us, that the mastiffs of Britain were trained to war, and were used by the Gauls in their battles : and it is certain, a well-trained mastiff might be of use in distressing such half-armed and irregular combatants as the adversaries of the Gauls seem generally to have been before the Romans conquered them. Caius says, that three of these were reckoned a match for a bear, and four for a lion; but, from an experiment made in the tower of London, that noble quadruped was found an unequal match to only three: two of the dogs were disabled in the combat, but the thid forced the lion to seek for safety by flight. The English bull-dog seems to belong to this species.
M. de Buffon has given a genealogical table of all the known dogs, in which he makes the shepherd's dog the origin of all, because it is naturally the most sensible. This dog, when transported into Lapland, or other very cold climates, assumes an ugly appearance, and shrinks into a smaller size; but in Russia, Iceland, and Siberia, where the climate is less rigorous, and the people a little more advanced in civilization, he seems to be better accomplished. These changes are occasioned solely by the influeace of those climates, which produce so great an alteration in the figure of this dog, for ia each of these climates his ears are erect, his hair thick and long, his aspect wild, and he barks less frequently, and in a different manner than in more favourable climates, where he acquires a finer polish. The same shepherd's dog when brought into teuperate clmates, and among a people perfectly civilized, as Britain, France, Cermany, wouta,
by the mare infuence of the climate, lose his savage aspect, his erect ears, his rude thick long hair and assunie tho figure of a bull-dog, the honnd, and the Irish grey-hound. The bull-doy and Irish grey-hound have their ears still partly erect, and very much renemble, bcth in their manners and sanguinary temper, the dog from which they derive their origin. The hound is farthest removed from the shepherd's dog; for his ears are long and entis aly pendulons. The gentleness, docility, and even the timidity of the hound, are proofs of his great degeneration, or rather of the great perfection he hias acquired by the lotg and careful education bestowed upon him by man. He has joined the common harrier to the Daluation dog, or harrier of Bengal, because they differ only in having more or fewer spots on their coat. He hath also linked the turnspit or terfier with crooked-legs, with the coormon terrier; because the defect in the $\log$ i of the former has originally proceeded from a disease similar to the rickets, with which some individuals had been affected, and transmitted the deformity to their descendants.

The hound, when transported into Spain and Barbary, where all animals have fine, long bushy bair, would be converted into the spaniel, and water-dog. The great and small spaniel, which differ only in size, when brought into Britain, have changed their white colour into black, and become, by the influence of climate, the great and little King Charles's dog. To these may be joined the pyrame, which is only a King Charles's clog, black like the others, but marked with red on the four legs, and a spot of the same colour above each eye, and on the muzzle.

The lrish grey-hound, transported to the north, is become the great Danish dog; and when carried to the south, was converted into the common grey hound. The bargest grey-hounds came from the Levant, those of a smaller size from Italy; and those Italian grey-hounds, carried into Britain, have been still further diminished.

The great Danish dog, transported into Ireland, the Ukraine, Tartary, Epirus, and Albania, has been changed into the Irish grey-hound, which is the largest of oll dogs.

The bull-dog, traosported from Britain to Denuark, is become the little Danish dog; and the latter, brought into warm climates, has been converted into the Turkish dog. All these races, with their varieties, he believes to have been produced by the influence of climate, joined to the effects of shelter, food, and education. The other dogs are not pure races, but bave proceeded from commixtures of those already described.

The dog has such a strong resemblance to the wolf and the fox, that he is commonly supposed to be the production of one or other of these animals tamed and civilized. Buffon, after having made several fruitless experiments, concluded that dogs, wolves, and foxes, are perfectly three distinct races of animals.

There has, however, been lately an instance to the contrary. Mr. Brooke, animat sacrehant in Holborn, turned a wolf to a Pomeranian bitch, whic h produced ten puppies. Mr. Pennant saw one of them at Gordon Castle, that had very much the resemblanceof a wolf, and also much of its nature; being slipped at a weak deer, it instantly eaught at the animal's throat and killed it MI could not learn (says Mr. Pentiant) whether this mongrel continues its species; but another of the same kind did, and stocked the neighbourhood of Fochabers, in the county of Murray, where it was kept, with a muk

## BRITISH EMPIRE

titade of curs of a most wolfish aspect: the bitch will also breed with the fox. a he woodman of the manor of Mongewell, in Oxfordshire, had a bitch which constantiy-iollowed him, the offspring of a tame dog-fox by a shepherd's cur; and she again had puppies by a dog. Since then, concludes Mr. Pennant, there are such qqutientic proofs of the further continuance of the breed, we may surely add the wolf and fox to the other supposed stocks of these faithful domestics."

Of all animals, the fox has the most significant eye, by which it expresses every passion of love, fear, hatred, \&cc. It is remarkably playful; but, like all other savage creatures, haif reclaimed, will, on the least offence. bite those it is most farmiliar with. It is a grcat adairer of its bushy tail, with which it frequently amuses and exercises itself, by runajn in circles to catch it ; and in cold weather, wraps it round its nose. The smell of this animal is in general very strong, but that of the urine is remarkably foetid.

The badger is an indolent, diffident, solitary animal. He retires to the most secretpiaces, to the inmost recesses of the forest, and there digs a subterranean habitation. He seems to fly society, and cven the light, and spends three fourths of his life in his dark abode, from which he never departs but in quest of subsistence. As his body is long, his legss short, his claws, especially those of the fore-feet, very long and strong, he digs and penetrates the earth with greater facility than any other animal. He makes his hole winding and oblique. The fox, who cannot dig with equal dexterity, avails himself of the operations of the badger. Being unable to make him quit his habitation by force, the fox practises every art to render him uneasy. He stands centinel ! at the entrance of the hole, and even defiles it with his ordure. He afterwards takes possession, enlarges, and fits it up for his own accotmmodation. The badger, though obliged to change his habitation, leaves not his country, he goes only to a small distance, where be digs a fresh hole, from which he never removes but in the night; and as he never goes far, he returns upon the approith of danger. This is his only mean of safety; for *he cannot eseape by flight; his legs are too short for quick motion. When at some distance from his hole, he is soon overtaken by the dogs; they seldom, however, accomplish thir purpose without assistance. The hair of the badger is very thick, and his legs, jaws, teeth, and claws, are exceedingly strong. These natural weapons he uses with courage and dexterity. He lies on his back, resists all the efforts of the dogs, and wounds them in the most dangerous manner. He is besides very tenacious of life, fights long, makes a brave defence, and persists to the very last extremity;

The golden eagle is a native of Europe, and even of some of the more mountainous parts of Great Britain. It is a large species, weighing 19 or 14 pounds, measuring in length three feet, and from tip to tip of his wings seven feet and a half. The bill is deep blue, and the cere yellow; the head ani neck are of a dark brown, bordered with tawny; the hind-part of the head is of a bright rust colour, and the rest of the body brown; the' tnil is blotched with ash colour; the legs are yellow, and feathered to the toes, which are scaly; the claws are remarkably large, the middle one being two inches in length. This eagle has been generally considered by mankind as having the same dominion - over the binds, which they have, almost inanimously, attribated to the lion over the iquadrupeds. The Comte de Buffon, taking up the idea, is of opinion that they have many

## BatITSII EMPIRE:

points of resemblanice, both plyysical and tnoral "Maguanimity" he says," "is equally conspicuous in both: they despise the small animals, and disregard their insults. It is only after a series of provocations, after being teazed with the noisy or harsh notes of the raven or magpie, that the eagle is determined to punish their temerity or their insolence with death. Besides, Both disdain the possession of that property which is not the fruit of their own industry ; and they reject with contempt the prey which is not procured by their own excrions. Both are remarkable for their temperance. Tlis species seldom devours the whole of his game; but, like the lion, leaves the fragments and offals to other animals. Though famished for want of prey, he disdains to feed upon carrion." Like the Jion also he is solitary, the inhakitant of a desert, over which he reigns supreme, and excludes all other blrds from his silent domain. It is more uncommon, perhaps, to see two pair of eagles in the same tract of mountain, than two families of lions in the same part of the forest. They separate from each other at such wide intervals, as to afford ample range for subsistence, and esteem tho value and extent of their dominion to consist in the abundatuce of the prey with which it is replenished. The eyes of the eagle have the glare of those of the lion, and are nearly of the same colour; the claws are of the same shape; the organs of sound are equally powerful, and the cry cqually terrible, Destined both of them for war and punder, they are equally fierce, equally bold, and untractable. It is impossible to tame them, untess they be caught in their infancy. It requires muth patience and art to train a young eagie to the chace; and after he has attained to age and strength, his caprices and momentary impulses of passion are sufficient to create suspicions and fears in his master. Authors inform us, that the cagle was antienly used in the east for faiconry ; but this practice is now laid aside. He is too heavy to be carried on the hand without great fatigue ; nor is he ever brought to be so tame or so geatle, as to remove all isuspicions of danger. His bill and claws are crooked and formidable, his figure corresponds with his instinct; his body is robust; bis legs and wings strong; his flesh hard; his bones firm; his feathers stiff; his attitude bold and erect; his movements quick; his flight rapid. He. rises higher in the air than any of the vinged race, and hence he was terned ly the antients the celestial bird, and regarded in their auguries as the meseanger of Japiter. Ho can distinguish objects at an immense distance, but his smell is infertior to tint of tie vulture. By means of his exquisite sight he pursues his prey, and when be lins seized it, he chiccks lis filght, and places it upou the groond, to examine its weight before he carries it off. Though his wings are vigorous, yet his legs being stiff, it is with difficuity he can rise, especiully if he be loaded. He is able to bear away geese and cranes; he atso carries of lhues, young lambs, and kids. When he attacks fawns or calves, lie instantly gluts himself with their blood and flesh, and afterwards transports their mangled carcases to his nest or airy."

The osprey frequents large rivers, lakes, and the sea-shores, both of Europe and America. It is about two feet long, and somewhat more than five feet broad ; and its wings, when closed, reach beyond the cmi of the tail: the head is small, and on the top is black or brown, variegated with white: the upper parts of the body and the whole of the tail are brown, and the belly is white. It is singular in this bird, that the outer toe

## BRITISH EMPIRE.

kurns casily backward, so as on oceasion to have the toes two forward and two backward, and has a muzh larger claw than the inner one. This, and the peculiar roughness of the whole foot underneath, are well gdapted to secure the fish, their slippery prey. This bird frequently affords much amusement to strangers on the larger rivers of America, During the spring and summer months, the osprey is often seen hovering over the rivers, or resting on the wing for several minutes at a time, without the least visible change of place. It then suddenly darts down, and plunges into the water, from whence it very seldom rises again without some fish in its talons. When it rises into the air, it immediately shakes off the water, which it throws around like a mist, and pursues its way towards the woods. The bald cogle, which is on these occasions generally upon the watch, instantly pursues, and if it can over?ake it, endeavours to soar above it. The osprey, solicitous for its own safety, drops the fish in alarm ; the eagle immediately pounces at this prey, and never fuils to catch it before it reaches the water, leaving the hawk to begin his work afresh. It is sometshat remarkable, that whenever the osprey. catches a fish, it always makers a loud sereaning noise, which the eagle, if within hearing, never fuils to obey. Sometimes it happens, that, if the osprey is pretty large and strong, it will contend with the eagle for its rightfinl groperty; and, though generally conquered in the end, a contest has been sustained for upwards of half an hour. The osprey generally builds its riest on the ground, among reeds, and lays three or four white eggs, rather smaller than thase of a hen. Mr. Montague says, that he once saw the nest of this bird on the top of a climmey of a rain in an island of Loch Lomond, in Scotland: it was large and flat, formed of sticks laid across, lined with flags, and rested on the sides of the chimney.

Of the stilt plover, Mr. White has given us a very pleasing description. "In the last week of last month (April 1779.) five of these most rare birds, too uncommon to have obtained an English name, but known to the naturalists by the term Kimantopus, or Loripes, or Charadius himantopus, were shot upon the verge of Frensham-pond, a large lake belonging to the bishop of Winchester, and lying between Woolmer forest and the town of Faruham in the county of Surry. The pond-keeper says there were three brace in the flock ; but that after he had satisfied his curiosity, he suffered the sixth to remain unmolested. One of these specimens I procared, and found the length of the legs to be so very extraordinary, that at first sight one might have supposed the shanks had been fustened on to impose on the credulity of the beholder: they were less in caricature; nod had we-seen such proportions on a Chinese owai Japan screen, we should bave made large allowances for the fancy of the dranghtsman. These birds are of the plover family, and might with propriety be called the stilt plover. My specimen, when drawn anil stuffed with pepper, weighed only four ounces and a quarter, though the naked part of the thigh measured three inches and a half. Hence we may safely assert that these birds exhibit weight for inches, and have incomparably the greatest length ot legs of any taoma bird. Tlie flamingo, for instance, is one of the most long-legged birds, and ye! it bears no mapner of proportion to the, himantopus ; for the cock flamingo weighs, at an average, pbout four pounds avoirdupoise; and his legs and thighs measure usually about twenty inclies. But four pounds are fifteen times and a fraction more than four ounces
and a quarter; and if four ounces and a quarter have eight inches of legs, four pounds must of course have 190 inches and a fraction of legs, namely, somewhat more than ten feet; such a monstrous proportion as the world never saw: If we try the experiment in still larger birds, the disparity would still increase. It must be matter of great eariosity to sec the stilt plover move; to observe how it can wield such a length of lever with sucls feeble muscles as the thighs seem to be furnished with. At best one should expect it to be but a bad walker: but what adds to the wonder is, that it has no back toe. Now without that steady prop to support its steps, it must be liable, in speculation, to perpetual vacillations, and seldom able to preserve the true centre of gravity. These long-kegged plovers are birds of South- Europe, and rarely visit our island: and when they do, are wanderers and stragglers, and impelled to make so distant and northern an excursion; or from motives, or accidents, for which we are not able to account. This bird is common in Egypt, and the warmer parts of America, where it feeds on flies and other insects.

Few birds are move execrated by the furmers, and perhaps more unjustly so, than the sparrows. It is true, they do ts some injuries in our rural economy, but they have been fally proved, to be much more useful than they are noxious. Mr. Bradley in his General Treatise on Husbandry and Gardening, shews, that a pair of sparrows, daring the time they have their young to feed, destroy, on an average, every week, 8360 caterpillans. This calculation he founded upon actual observation. He discovered that the two par rents carried to the nest 40 caterpillars in an hour. He supposed the sparrows to enter the nest only during 12 hours each day, which would cause a daily consumption of 480 caterpillars. This sum, multiplied by seven, or the days in a week, gives 3360 caterpillars extirpated weekly from a gardea. But the atility of these birds is not limited to this eircumstance alone ; for they likewise feed their young with butterflies, and other winged insects, each of which, if not destroyed in this uranner, would be the parent of hundreds: of caterpiliars.

In solitude the goldfinch delights to view its image in a mirror, fancying, probably, that it sees another of its own species ; and this attachment to society seems to equal the cravings of nature, for it is often observed to pick up the hempseed, grain by grain, and advance to cat at the mirror, imagining, no doubt, that it is thus feeding in company.

This selection, which has tiere been made from the British animals, we should willingly have enlarged, had our limits permitted; but what has been effected is sufficient to prove that it is not necessary to travel to foreigo climes, in order to meet with objects that deserve our investigation ; for if we survey with proper attention the productions of our own island, we shall be led to admire, in numberiess instances, the power and wisdom of the great Creator.

## CHAPTER II.

Tue Axtiest Beitons_-Fabulous accounts of Britain. The Celte. The Belge. Manners of the antient Britons, their trade with the Phenicians. The Druids. Stonchonge, and other ranains of British architecture.

THE antient history of Britwin, like that of most other countries is clouded with fiction. The Welch and Scotch have fabricated many marvellous tales to increase the antiquity and celebrity of their ancestors. The Welch refer us to oue Brute or Brutus, who is said to have been the son of Sylvius, and he of Ascanias, the son of Fneas, and born in Italy. Killing his father by chance, he fled into Grecee, where he took king Pandrasus prisoner, who kept the Trojans in slavery, whom he released on condition of providing ships, \&c, for the Trojans to forsake the lamd. Being advised by the oracle to sail west beyond Gaul, he, after some adventures, :. .ned at Totness in Devonshire.

Albion was then inhabited by a remnant of Giants, whom Brutus destroyed; and called the island after his own name, Britain. He built a city called New Troy, siace London ; and having reigned here 94 years, at his death parcelled the istand among his three sons: Locrine had the middle, called Loegria; Camber had Wales, and Albanact Scotland. From Brutus it is asserted, that a race of princes descended, of whom the most celebrated were Lisle, the founder of Carlisle; Lud, to whom the enlargement of London is ascribed; and Lear, the celebrated subject of one of thetragedies of Stuakespeare.

The historians of Scotiand placed the reign of Fergus in $\$ 30$ before Christ. He was the son of Ferchard, an Irish prince ; and is s sid to have been called ieto Scotland by the Caledonians, to assist them against the southern Britons- with whom they, were then at war. Having landed on one of the Abbude or Western isles, he had a conference with the Caledonians, whose language and manners he found to be the same with those of his countrymen. Having then landed in Scotland, and taken the field at the head of his new allies, he engaged the Britons under their king Coilus. Victory declared in favour of the Scots ; Coilus was defeated and killed; and from him the province of Kyle first received its name. After this, Fergis was declared king of the Scots, with the solernnity of an.oath. But he did not long enjoy bis nêw dignity : for baving been recalled to Ircland, to quiet some commotions thiere, he was drowned, by a sudden tempest, on his return, at a place in Ircland called. from him Knock-Tergus, or Carrick-Fergus; i. e. Fergus's Rock.

Fergus was succeeded by his brother. Feritharis, to the prejudice of his two sons, Ferlegus and Mainus. This; we are told by the antient Scottish writers, was done in conformity to a law, by which it was ordained, that, whilst. the children of their Kings were infaits, one of their relations, who was reckoned most fit for the government, should be - Vol. I.
raised to the throne, but that after bis death the sovereignty should return to the srins of the former king. This was the case at present; botwever, Ferlegus, impatient for the crown, made a formal demand of it from his uncle. The dispute being referred to an assembly of the states, Feritharis was couifirmed on the throne; and Feriegus would have been condemned for sedition, had not his uncle interposed. However, he was imprisoned; but haviog made lifis eicmes, he fled first to the Picts, and then to the Britons, in order to excite them agahist Feritharis. With both he failed in accoutplishing his purpose : but, in the mean time, his ancle being stabbed in his bed, the suspicion fell upon Ferlegus, who was thereupon set aside from the succession, and died in obscurity, the throne being conferred upon his brother Mainus.

The reigns of Mainus, Dormadil, and Nothiat, ufford nothing remarkable, excepting that Dornadil, who was a great hunter, instituted the laws of hunting in this country. Nothat was killed in a battle with Renther his nephow ; upon which the latter was inmediately invested with the sovereignty. A bloody war ensued, in which both parties were reduced to the last extrenity, and glad at length to conciode a peace. The fite of Renther is not known; but it is geverally supposed that he ended his life in the year 187 before Christ.
The reigns of Rutha, Therens, Jasins, and Finnan, afford no remarkable transactions, excepting that under the last we find the first beginnings of Scottish parliament; as he enacted, that kings should do nothing without the consent of their grand council. After him followed Durstus, Evan, and Gillus, whose reigns afford nothing of consequence. Evan II. the nephew of Finnan, who succeeded Gillus, is said to have built the towns of Imerlocliy and Inverness. He overcame Belos, king of thic Orkneys, who had invaded Scotland, and wais succeeded by his son Edas, who is said to have assisted the Britons in repelling the invasion of Cessar.

Giving up, howeyer, these truditionary accounts, as extremely uncertain and suspicious, many men of great genius and immense philological learning, have laboured to ascertain the origin of the Britons, by comparing their language, mauners, and religion, with those of the inhabitants of adjacent countries. In soch an ample field for speculation, we must expect a variety of opinions to be formed, but we shall find they gencrally agree in this particular, that Britain, Ireland, and France were peopled by the same race of men, to whom they give the denomination of Celte, or Celtes. The compllers of the Universal History are of opinion, that they are descended from Gomer, the eldest son of Japhet, the son of Noab, They think that Gomer setted in the province of Phrygia in Asia; Ashkenaz his eldest son, or Togarmah, his goungest, or both, in Armenia; and Riphath, the second son, in Cappadocin. When they epread themselves wider, they seemed to have moved regularly in columns, without interfering with or disturbing their neighbours. The descendants of Gomer, or the Celte, took the left hand, insensibly spreading themselves westward towards Polnand, Hungary, Gerimany, Frauce, and Spain ; while the descendants of Magog, Gomer's brother, hnoving eastward, peopled Tartary.
In this large European tract, tie Celtes began to appear a powerfili nation, under a regular monarchy, or rather under several considerable kingdoms. Mention is made
of themi indeed it so many parts of Europe, by antient geographers and historians, that Ortelius took Celtica to be a general name for the continent of Europe, and made a map of it bearing this title. In those parts of Asia which they possessed, as well as in the different parts of Eorope, the Celtes went by various names. In lesser Asia they were knowa by the names of Titans and Sacks ; in the northern parts of Europe, by those of Cymmerians, Cymbrians, \&c. and in the sonthern parts they were called Celtes, Guuls, or Galatians.

If it may be admitted that the inhabitants of all the British islands'were originally Celter, it brings into narrow compass the dispute which has been agitated concerning the extraction of the Scots. Mr. Macpherson, wis well as many other antiquaries, contends they were Caledonians; while Mr. Whitaker, who is followed by many learned men, is inclined to consider them as descendants of the Irish.

Between these two different opinions, a middle course has been taken; the Scots, it is said, were originally descended from the Britons of the south, or from Caledonians, who being pressed forward, by new colonies from Gául, till they came to the western shore of Britain, passed over from thence into Ireland; probably about 100 years before the Christian era. About the year of Christ 3g0, they returned again into Britain; or at least a large colony of them, under the conduct of Pergus, and settled on the westeru coasts of Caledonia, from whence they had formerly migrated. As early as the year 340 , we find them associated with the Piets in their expeditions to the Roman province; and for 90 or 100 years after, their ravages are frequently mentioned by the Roman and British writers.

The territory of the antient Seots, before the annexation of Pictavia, comprebended all that sido of Caledonia which lies along the north and western ocean, from the frith of Clyde to the Orkneys. Towards the east, their dominions were divided from the Pietish territories, by those high mointains which run from Dumbarton ta the frith of Tain. In process of time, the Scots, unider the reign of Kenneth, the son of Alyin, became so powerful as to suludne entirely their neighbours the Picts, and gave their own denomination to all Culedonia, Pictavia, and Valentia; all which are still comprehended under the general naine of Scotland.

England, including the principality of Wales, when first invaded by the Romans, was divided into 17 petty states 1. The Danmonii, called also Dunmonii and Donmonii, inhabiting the courties of Cornwall and Devonshire : 9. the Durutriges, who inhabited the tract now called Dorsetshire: 3. the Belgw possessed Sonersetshire, Wiltshire, and Hampshire: 4. the Attrebatii, or inhabitants of Berkshire: 5. the Regni, whose country bordered on that of the Attrebatii, and comprehended Surry, Sussex, and part of the sca-coast of Hampshire : 6. the Cantii, inhabiting the county now called. Keat: 7. the Dobumi are placed by Ptoleny on the north side of the Thames, mear its head, in the counties of Gloucestershire and Oxfordshire: 8. the CatticuchJani, Calyeuchlani, Cattidudani, or Cattricludani, inhabited Buekinghamshire, Bedfordshire, and Hertfordshire : 9. the Trinobantes, who passessed the counties of Fssex and Middlesex. 10. the Iceni; whose country comprehended Suffolk, Norfolk, Canjbridge, and Hantingdonshire ; these are by Ptolemy called Simeni, and by uthers

## ANTIENT BRITAIN.

Tigeni ; Cambden is of opinion, that they were the same whom Consar called Cenimagni: 11. the Coritani, whose country comprebended Northamptonshire, Leicestershire, Rutlandshire, Lincolnshire, Nottinghanshire, and-Derbyshire : 12, the Cornavii possessed Warwickshire, Worcestershire, Staffordshire, Shropshire, and Cheshire: 13. the Silures inhabited the counties of Radnorshire, Brecknockshire, Glamorganshire, with Herefordshire, and Monmouthshire: 14. the Demete inhabited part of Caermarthomshire, Pembrokeshire, and Cardiganshire:- the country of the Oriovices comprehended Montgomeryshire, Merionethshire, Caeruarvonshire, Denbighshire, ant Flintshire: 16. the Brigantes possessed the counties of Yorkshire, the bishoprick of Durham, Lancashire, Westmoreland, and Cumberland: 17. the county of Northumberland was lield by the Ottadini, Ottadeni, or Ottalini; their country, according to some, reached from the Tyne to the river Forth; though the most eommon opinion is, that it reached only to the Tweed.

The above-mentioned names of those nations are plainly Roman, but the etymology of them is not casily ascertained. Some attempt to derive them from words in the old British language, but as this subject at best must be very obscure and uncertain, we slaili not enter into it.
Casar appears to have distinguished the Britons into two races of men, the Belgae and the original inhabitants. The interior part of Britain, says he, is inhabited by those whom they relate to have been natives of the island itself; the maritime by those, who, to obtain plunder, and prosecute their conquests, had passed over from ansong the Belge ; almost all of whom are called by the names of those states from which they migrated when they arrived in Britain, and having finished the war, remained there and began to cultivate the ground. The Belgic colonists were of more polished mamners than the inhabitants of the interior and northern parts of the island. The wars and animossities which arose between the new and old inhabitants, are said to have contributed more than any thing to facilitate the victories of Cesar.

The Britons at this time, according to Cwsar and other Roman historians, were very pumerous, and had their country well stocked with cattle: their houses resembled those of the Gauls; and they used copper or iron plates, welghed by a certain standard, instead of money : their towns were a confused parcel of huts, placed at a small distance from one another, generally in the middle of a wood, to which all the aveunes were slightly guarded with ramparts of earth, or with trees. All tho nations were in a state of the most wretched barbarism, even when compared with the barbarous, Gauls on the continent.
The use of clothes was searcely known in the island. Only the inbabitants of the soutirern coast covered their nakedness with the skins of beasts; and this rather to avoid giving offence to the strangers who caree to trade with them, than out of any principle of decency. It was a general custom among the Britons to paint their bodies with the juice of woad; but whether this was designed as ornament, or for any other purpose, is not known : they shaved their beards, all except their upper lip, and wore long hair: they alsn had their wives in common, a custom which marle them detestable to all other nations.

Tic arms of the Britons were a sword, a short lance, and a shield. Breast-plates and helmets they looked upon ratber to be incumbrances, and therefore made no use of them : they usually fought in chariots, some of which are armed with seythes at the wheels ; they were fieree and cruel, and exceedingly blood-thirsty. When driven to distress, they could subsist themselves even on the bark and roots of trees; and Dio Cassius tells us, that they had ready, on all occasions, a certnin kind of food, of which, if they took but the quantity of a bean,-they were not troubled with bunger or thirst for a considerable time after. The soathern nations, however, were somenhat more civilized; and tbe C'umti, or inhinbitarts of Kgnt, more so than any of the rest.

All the British nations at this time were Nery brave and resolute ; they proved therefore, very formidable enemies to, the Romans ; but the same dissensions which had taught theun the art of war, also prevented thein from uniting in-the defence of their country.

Notsithstanding alt the barbarism of the santient Britons, it is pretty certain they were acquainted with commerce, for several centuries before the Christian era. The Phoonicians visited the coast of Coriwall for tin, with which that county has ever abounded; they mast, therefore, have either formed settements for the purpose of working mines; or the nitives could not have beci igmorant of the nature of metals.

From the Pheenicisus, or Greeks, who succeeded them in this trude, the Scilly islands received the appellation of Cassiterides, or islands of tin. Strabo says, they were ten in number, lying ciase together, of which only one was inhabited: the people led a wandering life, lived upoi the produce of the catte, wore an under garment, which reached down to their ancles, and over that another, both of the same colour, which whs black, girt round a little below the breast with a girdle, and walked with staves in their hands.

The richics of these islands were tin and lent, whitch, as well as the skinis of their caite, they exchanged with forelgn merchants, that is, the Phoenicians from Cadiz, for earthen-ware, sait, and utensils made of brass. These islands are represented to have been in circuastances very different from their present, since an author of great antiquity seemis to linctude if part ac least of Cornwall amongit these illiunds ; or rither he suggests that they were not perfect islonds, exeept at full sea, but trit at ebb, the inhabitants passed from one to mhother uppen the sands, and that they even transported their tin in large square blocks upon carriages, from one island to another. He farther takes notice, that surì us inhabited about Beleriun (thie Lands End) were in their conversation with stringers remarkibly eivilund courteous. Other amtient writer's style these islands Hesperides, from their western situation, and GEstrymides, assertirg that the land was extrenthey ferthe, se well as fall of mines; and' that the people, though very brave, were entirely addioled to conimeice, and boldig passed the seas in their leaffer boats.
It ippears probitile that the Britons, like the Guuts, consisted chjefly of three different rinks, the corrinor people, the gentry, and the druids.
The cortionor peoplevere accounted nearly in the place of servints, dared to underttake nothing of tieit own authority, and were present at no councils. Many of them, when they" were oppressed, either with debts or the weight of taxes, or the injuries of

Yos. 1. $\mathbf{P}_{\mathbf{P}}$
the powerful, sold themselves into servitude to the nolles, wha possessed over them-the same dominion as masters had over their servants.

The gentry or nobility, were censtantly trained $t 0$ war; and such of them as were the most distinguished for birth and riches, had the greatest number of followers and dependants.

The druids were the first and most distinguisied order among the Gauls and Britons : they were chosen out of the best families; and the bobours of their birth, joined with those of their furction, procured thein the highest veneration among the people; they were versed in - sstrology, geometry, natural philosoply, politics, and geography; they were the interpreters of religion, and the jages of all affairs indifferently. Whoever refused obedience to them was declared impious and accursed. We know but little ns to their peculiar doctrines; only that they believed the immortality of the soul; and, as is generally also supposed, the metempsychosis; though a late author makes it appear highly probable, they did not believe this last, at least not in the sense of the Pythagoreans.

The clief settlement of the druids in Britain was in the isle of Anglesey, the antient Mona, which they might choose for this purpose, as it is well stored with spacious groves of their favourite oak: they were divided into sevenal classes or branches, viz the vacerri, bardi, enbages, semnothii, or sernnothei, and sarouidie. The vacerri are beld to have been the priests ; the bardi, the pocts; the enbages, the nugurers; and the saronida, the civil judges and instructors of youth. As to the zetunothei, who are said to have been immediately devoted to the service of religion, it is probable they were the same with the vacerri. Strabo, however, and Picard after him, io his Celtopaedia, do not comprehend all these different orders undér the denomination of druids, us species under their genus, or parts under the whole ; but make them quite different conditions or orders. Strabo, in effect only distinguishes three kinds; bardi, vates, and druids : the bardi were the poets; the vates (apparently the same with the vacerni) were the priests and naturalists ; and the druids, besides the stady of nature, appfied theniselves likewise to morality.

Diogenes Laertius assures us, in his Prologuc, that the druids were the same among the Britons with the sophi or philosophers among the Greeks; the magi among the Persians; the gymnosophiats among the Indhans; and the chaldeans among the Assyrians.

Their garments were remarkably long; and, when employed in religious ceremonies, they always wore a white surplice; they generally carried a wand in their hánds, and wore a kind of ornament, enchased in gold, about their necks, called the druid's egg; their necks were likewise decorated with gold chains, and their bands and arms with bracelets; they wore their hair very short, and their beards remarkably long.

The druids had one chief, or archdruid, in every nation, who acted as high-priest, or pontifex maximus. He had absolute anthority over the rest ; and commanded, deereed, punishied, \&c. at pleasure. At his death he was succeeded by the most considerable among his survivors ; and, if there were several pretenders, the matter was ended by an election, or else put to the decision of arms.

The druids, we have observed were in the lighest esteem ; they presided at sacrifices, and other ceremonies ; and had the direction of every thing in religion ; the British and Gaulish youth flocked to them in crowds to be instructed by them ; the children of the nobility, Mela tells us, they retired with into caves, or the most desolate parts of forests, and kejt them there sometimes for twenty years under their discipline. Besides the immortality and metempsychosis, they were here instructed in tho motion of the heavens, and the course of the sturs; the magoitude of the heavens and the earth; the nature of things, the power and wisdoun of the God, \&.e. : they preserved the memary and actions of great men in their verses, which they never allowed to be written down, but made their pupils get by feart. In their common course of learning, they are said to have taught them twenty-four thousand such verses, By this means their doctrines appeared more mysterious, by being unknown to all but themselves; and having no books to recur to, they were the more careful to fix them in their memory.

They worshipped the Supreme Being under the name of Esus, or Hesus, and the symbol of the oak; and had no other temple than a wood or a grove, where all their religious rites wero performed. Nor was any persow admitted to enter that sacred recess, unless he carried with him a clain, in token of his absolute dependence on the Deity? Indeed, their whole religion originally consisted in acknowledging that the Suprame Being, who made his abode in these sacred groves, governed the universe; and that every creature ought to obey his haws, and pay him divine homage.

They considered the oak as the emblem, or rather the peculiar residence of the Almighty ; and accordingly chaplets of it were worn both by the druids and people in their religious ceremonies, the altars were strewed with its leaves, and cucircled with its branchea; the fruit of it, especially the misletoc, was thought to contain a divine virtue, and to be the peculiar gitt of heaven. It was therefore sought for on the sixked day of the moon with tho greatest earnestness and anxiety; and when found, was hailed with such raptures of joy, as almost exceeds imagination to conceive. As soon as the druids were informed of this fortunate discovery, they prepared every thing ready for the sacrifice under the oak, to which they fastened two white bulls by the horris ; then the archdruid, attended by a prodigious number of people, ascended the tree, dressed in white; and with a consecrated golden knife, or pruning hook, cropped the misletoe, which he receired in his sagum or robe, amidst the rapturous exclamations of the people. Having secured this sacred plant, he descended the tree; the bulls were sacrificed, and the Deity invoked to bless his own gitt, and render it efficacious in those distempers in which it should be administered.
The consecrated groves in which they performed their religious rites, were fenced round with stones, to prevent any persons entering between the trees, exeept turough the passages left open for that purpose, and which were guarded by some inferior druids, to prevent any stranger from intruding into their mysteries. These groves were of difforent forms ; some quite circular, others oblong, and inore'or less capacions, as the votaries in the districts to which they belonged were more or less numerous: the area in the centre of the grove was encompassed with several rows of large oaks, set very close toge-
ther. Within this large cirgle wero several smaller ones, surrounded bith farge stopes ; and near the centre of these samiler circles were stones of a prodigious size and convenient height, on which the victims were slain and officred. Each of then liding a kind of altar, was surrounded with another row, of stones, the use of nlifis cannot now bo known, unless they were intended as cinctures to keep the people it a convenient diser tance from the officiating priest.

Suetonius, in pis lifu of Graudins, assures us the druids sacrificed men ; and Mercary is said to be tho god to whoin they offered these victims. Diodonis Siculus observen it was only upon extraordinary occasions they made such officingt ; n5; to consult wiat measures to take, to learn what should befit theme, ik. by the fill of the victime the tearing of his members, and the manner of his blook gusling out. Aigutas condemaed the custom, and Tiberius and Claudius punished and abolished it

We leara from Giesar, that the druids were the judge and arbiters of ail differences and disputes, both pubtic afid private ; they took cognizance of juperdecs, inheritupeo. boundaries, and linits; and decreed rewards and punishments. Suci as disobeyad their decisions thoy excomumuicated, which was their principal pumimpuent ; the uriminal being hereby excluded from all public assemblies, and avoided by all the world a so that nobody durst speak to him, for fear of being potturcid. Stnato ibserves, they had sometimes interet and authority enough to stop armies upon the point of engming, and accommodate their differences.

The opinions which, it is said, the druids of Gaul and Mritsin cutertnived of their anguinum or serpent's egg, both as a charm and as a medicioe, are rouiantic and extravagont in a very high degree : this extraondinary egg was formed, sis they pretended, by a great number of serpents interwoven and twined together; and when it was formed, it was raised up in the air by the lissing of these serpents, and was to becatched in ucteath white cloth, before it fell to the ground : the person who catched it was obliged to mount a awitt horse, and to ride inway at full speed to rscape from the serpents, who pursued him with gratt rage, until they were stopped by some river. The rray of oinking trial of the genuineness of this egg was no loss extraordinary. Io was ta be enchatsed in gold, and thrown into a river, and if it was genoine, it would swin ogsinst the stream. it I bave seen (sayn Pliay) thiat egg; it is about the bigness of a modorate a appte, its shell is a cartilaginous iacrustation, fall of little cavities, such as are pir the legx of the polypus: it is the insigila, or badge of distinction of the druids." The virtues which they ascribed to this eftg wero many and wonderful. It mas particnlarly efficacious to render those who carried it about with them superior to licir radiersuite in all disputes, and to procure them the fiyours and friendelip of great meni
"In Britain (says Pliny) the magiegrts are cailtivatid with huch antoniming suecess, and so many ceremonies at this day, that the Dritons seem to be capabte of wistructing even the Persians themselves in those arts; they pretead to dfireaver the designe and purposes of the gois : the cubates or vates, in portienlar, investigite and display the most sublime secrets of natare ; und by auspices and sacrifices, they foretel future events." Thoy were so fimous for the supposed veracity of their predictions, that they were consulted on all important oceasion by their own princed and great men, and even

## ANTIENT BRITATN.

sometimes by the Romin emperors. Nor is it very difficult to account for all this : thic druids finding that the repotation of their migical and prophetical powers contributed But a litule to the-adraucement of tixir weaith und influence, they enteavoured, no doubt, to strengthen and establish it by all their art and cunning ; their knouledige of natural plilosoplyy and mectinnica enabled thear to execute such works, and to exhibit such appearances, or to make the world believe they did exhibit them, as weresufficient to gain them the character of great magicians; they had more knowledge thm their countrymen and cotemporaries, but had not so much viltue as to resist the teaptation of imposing upon their ignorance, to their own advantage.

Let us now contemplate some of thos remains, which are considered as affording ample testimony to the arclitectural knowletge and ability of the druids.

Stonebenge, a cefebrated monument of antiquity, stands in the middle of a flat aren, near the summit of a hill, six miles distant from Salisbury. It is inclosed by a circular double bank and ditch, near 30 feet broad, after crossing which we ascend 30 yards before we reachithe wort. The whole fibric consisted of two circles and two ovals ; the outer circle is about 108 fict diameter, consisting, when entire of 60 stones, 50 uprights, and 30 fiuposts, of which remain only of uprights, 17 standing and seven down, three fect and a lalf asunder, and eight imposts ; cleven uprights have their five imposts on them by the grand entrance; these stones are from 13 to 20 feet high: the lesser circlo is soniewhat more than cight feet from the inside of the outer one, and consisted of 40 lesser stones, the higheat sis feet, of which only 15 remain, and ouly 11 standing ; the walk betrech these two circles is 300 feet in circunfenence ; the adytum or cell is an oval formed of 10 stoncs, from 16 to 22 feet high, in 1ains, with imposts, which Dr. Stukeley catts thitithons, int ibove 30 fect high rising in fieght as they go round, and each pair separate, and not connected as the ocitor pair; the highest eight feet. Within these pre 19 nore smaller stigle atones, of which only six are standing, At the upper ead of the adytum is the aitar, a farge slatr of blue coarze marble, 20 inches thick, 16 feet long, and four broad; pressed down by the whight of the vast stones that have fallen upon it: the whole number of stones, upights, impqsts, and altar, is exactly 140 : the stones are far from being artificial, but were most probably brought from those called the grey weathens, on Mariborougt donis, 15 or 16 miles off; and if tried with a tool, they appear of the same hardaess, grain, and colour, generally reddish. The heads of oxen, deer, and other beasts, liave boen found, on digging in und ationt Stonebenge; and human bones in the circumjucent barrows. There are three entrances from the phin to this structure; the most considerable of which is from the north-east, and at each of them were mised on the outside of the french two huge stones, with two smaller within, pansllel to them.

It has been long a dispute among the learned, by what nation, and for whet purpose, these cnormous stones were collected and arrmiged. The first account of this structure we meet with is in Gcoffrey of Monmouth, who, in the reign of king Stephen, wrote tho history of the Britons in Latin. He tells us, that it was crected by the commel of Merlin, the British enchanter, at the command of Aurelius Ambrosius, the last British king, in - memory of 460 Britons, who were murdered by Hengist the Saxon. The next account is that of Polydore Virgil, who soys that the Britons creeted this as a sepulchral monument Vol. 1.
of Aircelius Ambrosius. Dthers suppose it to havo boen a sepulchral monutrenit of Boadicen, the famous British queen. Inigo Jones is of opinion, that it was a Romman temple ; from a stone 16 feet long, and four broad, placed in an exact position to thin enstinurd, altar-faslion. Mr. Charlton attributed it to the Danes, who were two yeark mistors of Wiltshire;' a tin tablet, on which were rome vulnown dluracters, supposed to be Punic, wis digged up near it in the reign of Henry ViIt. but is lost ; probably that might have given some iuformation respecting its founders. Its common name, Stonelienge, is Saxon, and siguifics a "stone gallows," to which those stones, having transverse imposts, bear some reserablanco. It is also calied in Welsh choir gour, ur "the piant's dance"
$\therefore$ Mr. Grose thinks that Dr. Stukely has Complotely proved this structure to bive been A. British temple, in which the druids officiated. He supposes it to have been the metropolitan temple of Great Britain, and translates the words choir gour, "tho great clioir. or teuple." The learned Mr. Bryant is of opicion, that it was crected by a colony of Cuthites, probably before the times of the druids; because it was usual yith them to place prle vast tone upan another for ar religious memorial; and those they offen placed so equably, that even a breath of wind would make them vibrute. Of such stones, ore remuins at this day in the pile of Stonehenge. The anticats distingristed stones ecceted with a religious view, by the name of amber ; by wiuch was siguificd any tifing solar and divine : the Grecians called them petrii ambrosiai. Stonehenge, aceording to Mr. Bryant, is composed of these amber stones ; hence the next town is denominated Ambrosbury ; not from a Roman Ambiobius, for no such person ever existod, but from the umbrosie petre, in whiose vicinity it stood. Some of these were rocking stones; and there was a wonderful monumecit of this sort near Peszance in Cornwall, which still retains the name of main-amber, or the sacred stones. It wns eleven fect by six, end fuar bigb, and so niecly poised upon another stone, that a little etild could more it Slrubsall, Cromwell's governor of Pendennis, with much tabour caterd it to be undernined, to the great grief of the country : there are some marks of the tool on it, and, by its quadraugular shape, it was probably dedicited to Mercury : there is ulso a renurkatle stone of the same kind in the island of St. Agnes, in Seilly. The under rock is ten feet six inchen high, 47 feet round the middle, and toucthes the gr and with no more than half its base : the upper rock rests on one poiat only, and is so nicely balanced that two or three men with a pole can wove it. It is cight feet six incles high, and 47 feet in circumference. On the top there is a bason hollowed out, three feet eleven inches in diameter at a medium, but wider at the brim, and three feet deep. From the globular shape of this upper stane, it is higbty probable it Was rounded by human art, and perhaps even placed on its pectestiak by buman strength. That the rocking stones are monuments erected by the druids cainnot be doubted, but tradition has not informed us for what purpose they were intended.
Many antient monuments of druidism still remain in the isle of Anglesey, At Tren Dryw, or the habitation of the -archdruid, are several mutilated remains, which bave been deseribed by Mr. Rowlands, His Bryn Gwya, or Brein Gwyn, or royal, tribunal, is a circular hollow, of 180 feet in diameter, surrounded by an immenso. agger of carth
and stower, evidently brought from some other plice; there unt being any mark ftheir Lcing tuken from the spot. It lass only a singie entrance. This is supposed to liave been the grand consistory of the druidicil administration. Not far from it was one of the Giorscdilain, How in a manner dispersed. but which once consisted of a great heap of conped stones, on which sat aloft a druid, instrueting the surrounding people concerning the motions of the stars, the magnitude of the earth and celestial bodies, the nature of things, and the perfections of their gods. Here frere also the relics of a circle of stones, with the cromilech in the midst, loat all extremely imperfect ; the cromlech is a huge, broad, Ah stone, raised unon other stones, at up on end for that purpose: two of the stoned are very large ; ond, which serves ant presens as part of the end of a house, is $1 \Omega$ feet seven inches high, ind eight feet broad: and another 11 feet high, and $9 s$ feet in girth; some lesser stonch yet remain: this circle, when complete, was one of the temples of the iruids, it which tikeh religions rites wero performed. It is the conjecture of Mr. Rowlands, that the infole of those romains were surrounded with a circle of oaks, and formed a deep and faceel grove; for they are said by Pliny to chouse for themelve groves of oaks, and never to perform any sacred office in which the leaf of the oak was not some way on other employed. Near this is Cacr Leb, or the moted entrenchment ; of a square torm, with a double rampart, and broad ditch intervening, and a lesser ois the outside. Within are foundations of circular and of square buildings: this Mr. Rowlands supposes to have been the residence of the archdruid, and to have given the name Tre' Dryw to the tomnstip in which it stands. At Trov Wry are several frint traces of circles of stones, and other vestiges of buiddings : Lut all so delapidared, or hid in weels, as to be almoat formiess. Dod-drudan, or the hubitation of the druids, Treir Beirdd, or that of the bard, and Bodowyr, or that of the priegts, are all of them hambets, ocarly surrounthing thic seat of the cticef druids, composing the essential part of his suit. At the last is a thick cromlech, resting on thiree stones.
These several monuments of British arclitecture aburdumtly prove that the druids, under whose drection these works were carried on, were no mean proficients in mectianical knowledge. We can hardly suppose that it was possible to cut those prodigions. masses of stone (some of them above forty tons in weight) without wedges, or to raiso them out of the quarry wifhoit luvers. But it certanty required till greater kiouledge of the uechanical powers, and of the method of applying them, to transport those huge stones from the quarry to the places of their destination; to erect the perpendicular pillar, and to elevite the imposts to the tops of theso pllars; that they were acquainted with the princples and use of the balance, is apparent from those rocking stones which are still remaining, and which we have already described : that the antient Britons undecstood the construction and use of wheels, the great number of their War-chariot, and other wheel carriagos, is a sufficient proof; and that they knew how to combine them together and with the other mechanical poxers, so as to farm mathines cupable of raising and transporting very heavy weights, we have good reason to believe. In a word, if the British armids were wholly ignorant of the principles and use of any , of the meghanical powers, it was probably of the screw, though even of this wo cannot be certain.

## A VTIFN:T BRIFATS

The brief account of the antient Britons which is bere subbuitted to the atteraion of the reader, censcarcely fail to exçite in his mind a train of important ratections. We sce in them an instance of a people destitute of almost all the comforts of divilized life, yet by no means deficient in scientitic information ; possessed of many just opinions xespecting the attributes of Deity, and yet presuming to worship bim with the mast bloody and abominable sites. Whoever fonks at this pictore, may be easily convinced of the infinite advantages we have reccired fiom the religion of Jesus, and at the same time discover the source from whence many of those superstitions bave been derived, by which that religion has been dishonoured and obscured.

## CHAPTER III.

Beitaik subject to the Royans - Cosar's intasion. Caractacus, Boadices. Agricula. Adraan. Antonimus. Secerks. Usurpers. Romans abandon the ishand. Effects of thar gooernment.

THE authentic history of Britain commences with the first invasion of Crsar, which took place 53 years before Christ. Casar, who was at that time the Roman governor in Gaul, having pushed his conquests to the opposite shores of France and Flanders, determined to cross the channel in order to amex this island to the empire, and so enlarge the Roman dominions, and cut off the supplies which the Gauls were accuszomed to derive from our countrymen

As soon as the Britons perceived Casar's fleet approaching, a number of cavalry and chariots were dispatched to oppose his landing, while a considerable body of infantry hastened after. What chiefly embarrassed the Romans in their attempt to land, was the targeness of their ships, which required a considerable depth of water: the soldiers therefore, were obliged to leap into the sea, while loaded with their armour; and at the same time to encounter the enemy, who were quite disengaged, as they either stood on dry ground, or waded but a litto way into the water. Casar, perceiving this disadvantage, ordered lis galleys to advance, with their broadrides towards the shore, in order to drive the Brituns from the water-side, with their slings and arrons. On this, the Britons, surprised at the galleys, it sort of stipping they had never before zcen, begen to give ground.
The fight, however, continued for some time, greatly to the disadvantage of the Romans; till at list, Casar, observing the distress of his men, caused several boats to be manned, and sent them to the assistance of thote who were most exposed to the enemy's assault; the Romans then soon got the better of the undisciplined barbarians, however brave, and mide good their landing; but they were unable to pursue the enemy for want of cavalry, which had not yet arrived.

The Britons were so disheartened with this bad success, that they immediately sent ambassadurs to sue for peace; which was granted on condition of their delivering a certain number of hostages for their fidelity. Part of these they brought immediately; and promised to return in a few days with the rest, who, they said, lived at some distance. But, in the mean time, the 18 transports which carried Casar's cavalry being driven back by a viotent atorm, and the fleet which lay in the road being greatly damaged by the same, the Britons thought proper to break their engagements. Having, therefore, privately assembled their forces, they fell unexpectedly on the seventh legion, while at a distance from the rest, and busied in foraging. Casar, being apprised of their danger, hastened to their assistance with two cohorts, and at last repulsed the encmy. This, - however, -proved only a temporary deliverance ; for the Britoris, thinking it would be Yob 1.
possible for them to cut off all the Romans at once, dhispatched messeagers to inforin several of the neighbouring nations of the veakness of the enemy's forces, and the happy opportunity that offered itself of destroying all these inviders at one blow. Oni this, they drew together a great body of horse and foot, which boldly advanced to the Roman entrenchments. But Crssar canme out to mect them; and the undiscipliaed Britons being by no merns able to cope with the Romans, were put to fight with great slaughter. Havthg burat several towns and villages, the victars retumed to their camp, where they were soon follqwed by new deputies from the Britons. Cesar being in want of horse, and afraid lest another storm should destroy the remainder of his flect, granted them peace, on cundition of their sending him doubie, the number of hostages into Gaul which they had before promised : the sauc night be set sail, and soon arrived safe in Gaul.

The Britous no sooner perceived the Romans gone, than, as befure, they broke through their engagements. Ot all the states who had protuisel to send hostages, only two performed their promises; and this neglect so provoked Ciesar, that he determined to retorn the year following with a far grecter force. Having, therefore, callsed his old vessels to be refitted, and a great many new ones to be tuilh, lie arrived off the coast of Britain, with a fleet of 600 ships and 28 galleys: the Britotis made no opposition to his landing; but Crosar, getting intelligeuce that aur army was assembled at no great distance, marched in quest of them. Ife found them encamped on the bunks of a river, supposed to be the Stoor, about 19 miles distant from the plice where be had landed: they attempted to oppose his passage; but being briskly attacked by the Roman cavalry, they were obliged to retire into a wood, all the avenues of which were blocked up by trees cut down for that purpose. This fortification, however, proved insufficient to protect them; the seventh legion having cast themselves into a testudo, and thrown up a mount against their works, drove them from their asylum; but as the day was far spent, a pursuit was not thought adriscable.

Next morning Cessar, vith the greatest part of his arny, which he divided into three bodies, marched out in quest of the enemy. But when he was already come in sight of their rear, ho was ometiken by messengers, who informed him, that his floet was greatly damaged by a violent storm which had happened the preceding night. This put an end to the pursuit for that time; but Casar having employed all the carpenters he hâd with him, and sent for others from Gaul, in order to repair the daminge, resolved to prevent mitsfortunes of tits kind for the fiture, Ite therefore drew all the stips ashore, and inisosed them within the fortifications of his camp: this arduous undertaking employed his abole army for tea days; after which lie again set out in quest of the enemy.

The Britons hat mpare the best use they could of the reepite afforded them by the storm: they were beaded by Cassiblaunus, king of the Trinobiutes. He had fornerly made war upon his neighbours; and having rendered hionself torrible to them, was tooked upon to be the mont proper person for leading them against the common enemy; and as several states had now joined their forces, the British army was wery numerous. Their cavalry and chariots attached the Romin army while on thicir march; but were repulsed with loss, and driven into the woods; the Romans parsied theta too engerly,
and thus lost some of their own men; which encooraged the Britoms to mate unother fierce ittack; but in this also they were finally unsuecessful, and obliged to retire, though their loss secms not to have been great.

Next day the Britons snddenly attacked the Foman legions as they were foraging , but meeting with it vigotous reistance, they soon betook theinsetves to flight, the Romans pursued them so closely, that having neither timo to rally, nor get down frorit their chariots, according to custom, great numbers of them were cut in piecos; and this overthrow had such an effect upon the auxiliaries of Cassibeliunas, that ait of them ahandoned him; nor did the Britons ever afterwards engage Ceesar with united forces.

Cinsar, pursuing his victory, marched towards the Thames, with a design to cross that siver, and eater the territories of the Trisobantes. The river was fordable only at one place, and that not without great difficulty ; but when he came to it, be fornd the cnemy's forces drann up in a considerable body on the opposite bank, which was fortified with starp stakes; flacy bad likewise driven many stakes of the same kind into the bottom of the river, the tops of which were covered with water: these stakes are visible to this day, at a place called Walton in Surry ; they are made of oak; and though they have been 50 long in the water, bre as hard as Brazit, and as black as jet ; and have sometimes been pulled out, in order to make denife handles of them.

Casar was not at all dismayed at these difficulties, which be had intelligence of by prisoners and deserters He ordered the cavalry to enter first, and the foot to follow. His orders were oleyed, and the soldiers advanced with such resolution, that though the infantry were up to the chin in water, the enetny, unable to sustain their assault, abandoned the bank and fled. After this defeat, Cassibelaunus himself despaired of suceess, and therefore dismissed alt his forces, exeept ubout 4000 chariots, with which he observed the motions of the Romans ; larrassing them, by cutting off straggling parties, \&c. This, however, was not sufficient to keep up the spirits of his countrymen. On the contray, they deposed thim from the kingdom, and chose Mandrubratios, whose father had been murdered by Cussibelaunus, who thereupon usurped the kingdom: the young prince had ffed to Caxfr, who give him protection; unt the Trinobantes now offered to submit to the conqueror, provided lie would give them Mandrubratius for their king.

Cassar readily complied with the request of the Trinobantes, upon their sending him 40 hostages; and the submission of the Trinobantes was soon followed by that of other states and tribes ; for cach of the 17 nations already mentioned were composed of several different tribes, of which no particular account can be given. Cesar next marched to Verulamium, or Canterhiury, which was Cassibelaunus's capital, and which he still kept possession of; but though the place was strongly fortified both by nature and art, the Britons were unable to bear the assault of the lomans, and therefore fled out at one of the avenues. Many wore taken as they attempted to make their encape, and many more cat in pieces.

After this loss, Cassibelaunus, as kis lait resource, found means to draw into coofederacy with him four kings of the Cantii. But though Cesar gave them the title of
kings, it is probable that they were only petty princes, tributary to the king of that ration; their names were Eingetoris, Corvileus; Taximagulus, and Segenax. These, having raised what forces they could, attacked the camp where the ships were laid up; but the Romans having made a sally, repulsed thein with great slaughter, and then returned to their trenches without any loss; after which, Cassibelaunus thought proper to subinit to the conqueron. As the summer was already far spent, Cresar hearkened to bis proposals. A peace was concluded on the following terms, viz. that the Britons should pay annual tribute to the Romans ; that Cassibelaunus should leave Mandubratius in peaceable ponsession of his dominions; that he should not molest the Trinobantes; and that be should deliver a certain number of hosyses. These terms being agreed to, Cassar set sail with his whole fleet from Britain, to which he never returned,

Such is the account given by Casar himself of his two expeditions into Britain ; but other authors have spoken very doubtfolly of his victories in this island. Dio Cassius telts us, that the Britons utterly defeated the Roman infantry, but were at last put in disorder by their cavalry. Horace and Tibullus, in many parts of their works, speak of the Britons as a people not yet conquered. Tacitus says, that Casar zuther shewed the Komans the way to Britain, than put them in possession of it ; and Lucan tells us plainly, that Ciesar turned his back to the Britons and fled : this last, however, considering the consummate mflitary genius of Ceesar, is by no means probatile; that be left Britain during the winter, was, in all probability, to prevent insurrections among the Gauls, which might very readily hare happened ; and that he did not retam to finish bis conquest can be too wonder, seeing his ambition would certainly be more gratified by being called emperor of Rome thain conqueror of Britain.
In the reiga of Claudius, the Romans set about reducing them to subjection in good carnest: the occasion of this war is related by Dio Cassins as follows. "Cunobetinus, the third in succession from Cassibelemnus, being dead, his two sons, Togodumnus and Caracticus, succeededt to the thane ; but whether they relgned jointly of separately is not known. In this reign one Bericus, of whom we also know very little, being driven out of the island for attempting to raise a sedition, fied with some of his partizans to Rome, and persuaded Claudins to make war on his cetintrymen. The Britons, on the other haud, resented thic behaviour of Claudius in receiving these vagabonds, und therefore profibited all intercoarse with the Romans. A much smaller offence than this would have been sufficient at any time to provoke the baughty pation to declare war.

An army was therefore immediately ordered into Britain, under the command of Plautius, prestor in Gaul. The soldiers at first refused to embark, from a superstitious notion, that they were going to be seat without the compass of the world ; and this mutiny being revealed to the Eritons, they did not make the necessary preparations for their own defence : the Roman soldiers were soon brought to a sense of their duty, and set out from three different ports, in order to hand at three different places in Britain at onse. Being driven back by coatrary winds, their fears began to return, but they resumed threir courage on the appearance of a meteor shooting from the east, which they imagined was, pest from heaven to direct their course : they landed without opposition; and the

Britons, not having drawn together a sufficient army, kept in small bodies behind thicir marshes, and in woods, in order to spin out the war till winter ; when they imagined Plautius would, like Casar, speed to Gaul. The Roman general marched first in quest of the two kings. Togodumnus and Caractacus; both of whom he found out and dofeated, one after another. He then reduced part of the Dobuni, at that time subject te the Cattieudelani ; and leaving a garrison to keep them in awe, he advanced to a river where the Britons lay curelessly encamped, supposing that the Romans could not pass it without a bridge. But the Germans in the Roman army had been accustomed to swim across the strongest currents in their heavy armour: they therefore passed the river first; and having, according to their osders, fallen only upon the eneny's horses which drew their chariots, these formidable machines were rendered entirely uscless; and the Britons were put to flight as soon as another part of the forces could pass the river. The Britons were not disheartened with this defeat, but engaged the Romans next day with great bravery. Victory continued long doubtful ; but at length the Romans prevailed, and the Britons were forced to take themselves to flight; this battle is thought to have been fought on the banks of the Severn. From thence the Britoas fled to the mouth of the Thames : they were closely pursued by the Romans; but the latter being unacquaintod with the flats and shallows of the river, were often in great danger : the Germans, however, crossed by swimming, as before, and the rest on a bridge somewhat farther up the river; so that the Britons were in a short time surrounded on all sides, and great numbers of them cut in pieces. Many of the Romans, also pursuing the fugitives with two great eagerness, were lost in marshes. In one of these batties Togodumnus was killed; but the Britons were so far fom being disheartened, thiat thicy shewed more eagerness than over to oppose the Romans, in order to revenge lifs death.

Plautius, therefore, did not think proper to penetrate farther into the country, but contented himself with putting garrisons in the places he had already conquered. He the wrote to the emperor himsif, who no sooner received an account of hits success, than he set out for Britain; where having landed after a short voyage, he joined Pluutius on the banks of the Thamce. Soon after the arrival of Claudius, the Romans passed the Thames, attacked the British army, and totally defcated it : the consequence of this was the taking of Cunoballinusi capitat, and the submision of several of the neighbouring statesi. The emperor, however, did not make a long stay in the island, but left Plautius to pursue his conquests: this be did with such success, that, on his return to Rome, he was inet without the gates by the emperor himself, who, at his solemn entry, gave him the right hand. The Britons seem to have made a very obstinate resistance to the Roman arms about this time. Vespasian, who was aftervards emperor, is said to have fought 30 battles with thom; and the exploits of Titus, his son, are also much celobrated by the Roman histortans.

In the ninth year of Claulius, P. Ostorius Scapula was sent into Britain. By far the greater part of the 17 mations, formerly mentioned, were at this time unconquered. Some of these had broken into the Roman territories, but Ostorius falling unexpectedly upon - them, put greal numbers to the sword, and dispersed the rest. To prevent them for the You 1.

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future from making inroads into the territories of the Romans or their allies, he buift sceveral forts on the Severn, the Avon, and the Nen, reducing the country south of these rivers to a Roman province : this so lighily offended the Ieeni, that, beligg joined by the neighbouring mations, they raised a considerable artuy, and encamped in an advantageons stituntiop, in order to preveut the Romans from pernetrating farther into the island. Ostorius, hovever, soon adrunced against them ; the Romans, as nsual, got the victory, and the eueny were pursued with great slaughter. The Roman general then, having quelled an insurrection aniong the Brigantes, led his army against the Silures : they were headed by their king Carnctacus, a most renowned rarrior. He thetwed his military talents by choosing a very advantageous place for engaging ye enemy. Tucitus tells us, "it was on the ridge of an exceeding steep mountain; and where the sides of it was inclining and necessible, he reared walls of stones for a rampart At the foot of a mountain flowed a river, dangerous to be forded, and an ermy of men gaarded his entrenchments." This hill is thought to be one called Caer Caradoc, in Shropshire, situated near the conflux of the rivers Colun and Teme, and where the remains of antient entrencliments are still wisible. On the upproach of the enemy, Caractacus drew up his troops in order of battle, animating them with the fallowing speech, according to Tacitus: ". That from this day, and this battle, they must date their liberty rescued, or their slavery for ever established. He then invoked the shades of those heroes who had expolled Cesar, the dictator ; those brive men by whose valour they still enjoyed frecedom from Roman tribute and taxes, and by which, their wives and children were as yet preserved from prostitution."
The whole army then took a solemn oath either to conquer or die, and propared for the charge with the most terrible shouts. Ottorius was somewhat dismayed, when he considered the uncommon fiereeness of the encany, and tix other difficulties which bo had to eacounter. He led on his men, however, to the charge; and the Romins were attended with their usaal good fortune : the Britons were pat to figitit. Vast numbers fell on the field of batte, and in the pursuit, and many more were taken prisonens. Among the latter were the wife, the daughter, and the brother of Carnetacus ; the unfortinate prince himself ffed to Cartismunda, queen of the Brigantes, by whom he was delivered up to the Roman general, who sent him in chains to Rome. Caractacus bore his misfortunes with magnanimity; and when be came before the emperor, is said by Tacitus, addressed him in the following termis. "If my moderation in prosperity, O Claudius ! had been as conspicuous as my birth and fortune, I should now have entered this city as a friend, and not as a prisoner; nor would you have disdained the friendstip of a prince descended from such illostrious ancestors, and governing so many nations. My present condition, I own, is to you honourable, to me humiliating. I was, lately possessed of subjects, horses, armis, and riches. Can you be surprised that I endeavoured to preserve them? If you, Romans, have adesire to arrive at universal monarchy, must all nations, to gratify you, tamely submit to servitude? If I had submitted without a struggle, how much would it thave diminished the luatre of my fall, and of your victory? And now, if you resolve to put me to death, my story will soon be buried in oblivion; but if you think proper to preserve my life, 1 shall remain a lasting monument of your olemency."

This speech lasd such an effect upon Claudius, that he immediately pardoned Caractacus and his whole family, and commanded them to be set at liberty.

Some Scottish bistorians have claimed Caractacas as a countryman, but with litte appearauce of probability.

The Silures, notwithstanding this horrible blow, continued the war with great vigour, and gained considorable advantages over the fomans ; which so much affected Ostorius, that he dicd of grief. He was succeeded by A. Didius, who restrained the excursions of the Silures, but was not able to restore Cartamunda, queen of the Brigantes, who had been deposed by her subjects. Didius tras succeeded by Veranius, and he by Sucturius Paulinus, who reduced the island of Auglesey. The shore near Porthamel is famous, as being the place where he landed. 'His infantry passed over in flat-bottomed boats; his cavalry, partly by fording, and partly by swimming. On the shore (says Tacitus) there stood a motley army, in close array, and well armed; with women running wildly about in black attire, with disheveled hair, and, liko the furies, brandishing their torches ; surrounded liy the druids, who liffed up their hands to heaven, and poured forth the most drcadful imprecations. The soldier stood astonished at the novelty of the sight. His limbs grew torpid, and he resigned his motionless body to every wound. At length, ammated by taeir leader, and exhorting one another not to be intimidated by such a womanly and fanatic band, they displayed their ensigns, overthrew all that opposed them, and threw them into their own fires. After the battle, they placed garrisorts in the towns, and cut down the groves, consecrated to the most horria superstitions ; for the Britons heid it right to shed on their altars the blood of their captives, and to consult the gods by the inspection of human entrails.

But while Paulinus was employed in the conquest of this island, he was alarmed by the news of an almost universal revolt among the nations which had submitted to the Romans. The Britons, though conquered, had still a desire of returing to their former state of independence ; and the Roman yoke became every day more unsupportable to them, through the insolence and oppressions of the Roman soldiers. The Britons had been long discontented, and were already in a very proper disposition for a revolt, when an event happened which kindled these discontents into an open flame. Prosutagas, king of the Iceni, a prince renowned for opulcnce and grandeur, had, by his last will and testament, left the Roman emperor joint heir with his two daughters, in hopes of obtaining his fivour and protection by so great an obligation. But the event turned out very different. No -sooner was lie dead, than his houses and possessions were all phondered by the Roman soldiers : the queen Boadicea remonstrated against this injustice ; but instead of obtaining any redress, she herself was publicly whipped, her daughters ravished, and all the relations of thie late king reduced to slavery; the whole country also was plundered, and all the chicfs of the Iceni deprived of their possessions.

Boadicea was a woman of too haughty a spirit tamely to bear such indignities. She therefore persuaded the Iceni to take up arms, which they very readily did ; then, being joined by the Trinobantes, and some other nations, they poured, like a torrent on

- the Roman colonies. . Every thing was destroyed iwith fire and sword; the ninth
legion, which had been left for the defence of the country, under Petilius Cerealls, was defeated, the infantry totally cut in pieces, and the commander himself, with the cavalry, escaped with the utmost difficalty. Suetonius, alarmed at this news, immediately left Anglesey, and marched with the greatest expedition to London. The inhabitants vere overjoyed at his arrival, and used their utaost endeavours to detain him for their defence. But be refused to stay, and in a short time left the place, notwithstanding the intreaties of the inbabitants : the whole city lamented his departure; and they had reason.
-Suetonius was searce gone, when Boadicea with her Britons entered, and put all they found in it to the sword. None yre taken" prisoners, nor was any sex or age spared, and many were tortured in the most cruel manner. Seventy thousand persons are said to have perished on this occasion at London, and other Roman colonies. The Britons, now elated with suecess, assembled from alt quarters in great numbers, so that Boodicea's army soon amounted to 290,000 men : they despised the Romans, and beclane so confident of victory, that they brought their wives and children along with them in waggons, to be spectators of the destruction of their enemies. The event was what might naturally have been expected from such an ill-judged confidence: the Britons were overtlirowninvith nost terrible slaughter, no fewer than 80,000 being killed in the battle and pursuit; while the Romans had not many wounded. Boadicea not able to survive so great a calamity, put an end to her life by poison. By this overthrow, the Britons, who had once been subdued, were thoroughly prevented from raising any more iusurrections, and even those who had not yet submitted to the Roman yoke, seemed to. be intimidated from making incursions into their dominions. Nothing remarkable, therefore, happened for some time. In the time of Vespasian, Petilius Cerealis being appointed governor of Britain, attacked the Brigantes, defeated them in several batties, and reduced great part of their country. He was succeeded by Julius Frontinus ; who not only maintained the conquests of his predecessor, but reduced entirely the warlike nation of the Silures.

Frontinus was succeeded by the celebrated Cneius Julius Agricola, who completed the conquest of all the southern Britons. Just before the arrival of $A$ gricola, the Ordovices had cut in pieces a band of horse stationed on their confines; after which the whole nation had taken arms. The summer was protty far spent, and the Roman army was quite separated and dispersed, the soldiers having assured themselves of rest for the remaining part of tho year. Agricola, lowever, was no sooner landed, than, baving drawn together his legions, he marched against the enemy without delay. The Britons kept upon the ridges of the mountains; but Agricola led them in person op the ascents: the Romans were victorious ; and such a terrible slaughter was made of the Britons, that almost the whole nation of Ordovices was cut off. Without giving the enemy time to recover from the terror which this overthrow had occasioned, Agricola resolved upon the immediate reduction of Anglesey, which had been lost by the revolt of Boadicea, Being destitute of ships, he detached a chosen body of auxiliaries, who knew the fords, and were accustomed to manago their arms and horses in the water. The Britons, wha had expected a fiet and transports, were so terrified by the appearance of the Roman
forcoer' on their island, that they immediately submitter, and Anglesey was once more retored to the Romans, With the conquest of Anglescy ended the first campaigu of Agricola; and he employed the winter in reconciliog the Britons to the Ropian yoke. In diis be met with stich success, through his wise and equitible conduct, that the Plritons, barbaroos as tiey were, began to prefer a life of secirity and peace, to that indopendency which they had fonnerly eajoged, and which conlianally exposed them to the tuinults and calamities of war.

The succeeding eamprigns of A cricoln were nttended with equal sueceis; ; he not ouly subdued the 17 nations inhabiting. Eugland, but carried the Roinau arms almost to the extreatity of Scothond. Ite also caused his theet to sail round the istined, and discovered the Orcides, or Orkney istanits, which had before been unknown to the rest of the world. His expedition took hinn up about six years, and was completed in the year of Christ 84. Had this commander been continued in Britain, it is probable thut both Scottand and Bogtand would have been permanently subdued, bat be was recatled by
 affairs, till the reign of the emperor Adrian, During this interval, the Caledonians had taken arms, and not only refused subjection to the Roman power themselves, but ravaged the territories of the Britons, who continued faithful to theu Adrian, for what reason is not watl known, athantonied to them the whole tract lying between tho Tyne and the Forth. At the same time, in order to restrsin them from making incursions into the Rommn territories, he built a wall 80 miles in length, from the river Eden in Cumberland, to the Tyne in Northumberiand:

He uts sucterded by Antonihns Pites, in whose reign the Priguntes revolted; and the Caledonians, having in reveral places broken down tho wall built by Adrian, begon anew to ravage the Koman territories. Against them the emperor sent Lollius Urbicus, who reduced the frigantes; and baving defeated the northern nations, confined them in ummower bounds by a nevy wall, extending probably between the friths of Forth and Clyde.

From the time of Antoninus to that of Severus, the Ronaun dominions in Britain continued to be mach intested by the inroads of the northern nations. That emperor divided Britain info two governmeats the southern and uorthern; but the goremor of the northern division was so hurrasted by continual fucursions of the Guledonians, that he wes at leugth ofliged to purchase a prace with moncy. The Caledonians kept the treaty for is ycars : after wfich, breaking iuto the Roumn teritories anew, they committed terible faviges. Wirius Lupus, the governor, not being in a condition to whistand them, acquainted the emperor-with his diviress, intreating him to send powerful and speedy supplies. Upon this, Severus resolved to put an end to the perpetual invesions of the enemy, by making a complete conquest of their country; for which purpgic be set out for Eritim, tonether with his tiro sons Caracalla and Geta, at the head of a numerons arminy. The Caledonians no soover beard of his arrival, than they' sent anthosudors, affering to conclude a pence upon honourable terms. But these the emprorerdetained tiit ho was ready to take the field, and then dismissed them without granting their request, As spoar as the searen wus fit for action, Severus marched against

Yot. L.
the Caledonians, where he pat all to fire and sword. He edvancerf even to the most northerly parts of the island; and though no battle was fonght in thit expedition, yet through the continual ambuscades of the enemy, and the inhospitable nature of the country, he is said to have lost 50,000 men. At last the Caledoniats were obliged to sue for peace; which was granted them on condition of their yielding part of their country, and delivering up their arms. After this the emperor returned to York, leaving his son Canyealla to command the army, and finistr the wall which had been beguh between the friths of Forth and Clyde. But the emperor being taken ilt at York, the Caledonians no sooner heard of his indisposition, than shey ngain took up srms. This provoked Severus to such a degree, that hefcommanded his son Caracalla to eater their country anew with the whole arny, and to put all hie met to the sword, without distinction of sex or age. Before these orders, however, could be put into execution, his tuo sons having concloded a shameful peace with the Caledonins, returned to Rome.

About this time Fingal is supposed to have flourithed, whose explots are cetebrated in the poems of Ossian.

A long chasm now takes place in the history of the Roman dominions in Britain. In the beginning of Dioclesian's reign, Carasins, a native of Gaul, passing over into Britain, took upon him the tille of emperor, and was acknowfedged by all the troops quartered here. He was, however, killed in a battle with one of Constantius's officers, after he had cujoyed the sovereignty for six or seven years.

Constantine the Great began his reign in this island; and returned soon after he had left it, probably with a design to pot a stop to the daily incursions of the Caledonions. He altered the division of that part of Britain subfect to the Romans. Severus had divided it only into two provinces ; but Constantine increased the number to three: viz. Britannia Prima, Britannin Secunda, and Maxima Ciesariensis ; and the last was afterwards divided into two, viz. Maxima Casariensis and Plavia Cxesariensis. The removal of the imperial court from Mome to Constantinople, which happened in the reign of Constantine, gave the northern mations an opportunity of making frequent incursions into the Roman provinces; the emperor baving carried with him, first into Gail, and then into the east, not orly most of the Roman troops, but likewise the flower of the British youth. About the latter end of the reim of Constantins, son to Constantine thic. Great, the government of the province of Britain was committed to Julian, afterwards called the apostate. While he wis in his winter quarters at Paris, he was informed that the Scots and Picts, about this time first distinguished by these names, had broken intie the Roman teritories, and committed every where drtidfol raviges. Against them Julian dispatehed a body of troops under the command of Lupiciulus. He embarked from Boalogne in the depth of winter, but was no sooner arrived at Lonidon than be was recalled; the enemy having, probably, found uneans to appease Julian by their submissions.

Till the reign of Valentinian I. these nations still continaed to infest the Roman territories in Britain, and had now reduced the country to a most deplorable, eonditian by their continual ravages. Valentinian sent against them Theodostus, father to the omperor of that name. That general having divided his forces info several bodies, ad-
yanced against the enemy, who were roving up and doun the country. The Scots and Picts were obliged to yield to the superior valour and discipline of the Romans. Great numbers were cut in pieces; they were foreed to abandon all the booty and prisoners they had taken, and to retire beyond the friths of Forth and Clyde. Theodosius thea entered London in triumph, and restored that city to its former splentoar, which had suffered greatly by the former incursions of the northern Britons. To restrain them from breaking anew iuto the provinces, Theodosius built several forts or castles betwcen the two friths; and having thus recovered all the country between Adrian's wall and the friths of Forth and Clyde, le formed of it a fifts province, which he called Valentia,

Though Britain was now reduced to a state of temporary tranquillity, yet, as the Roman empire was daily declining, it is not to be supposed that safficient care could be taken to secure such a distant province. In the reign of the emiperor Honorius, the provinchal Britons found themselves annoyed, not only by the Scots and Picts, but also by the depredations of the Saxons, who began to cominit ravages on the sea-cosits, By the care, however, of Stilicho, prime minister to Honorius, matters were once more settled, and a particular officer was appointed to guand the coast against the attempts of the Saxons, with the title of Count of the Saxon shore. But, not loug after, the empire being over-run by barbarians, most of the Roman troops quartered in Britain were recalled, and the country teft quite open to the attacks of the Scots and Piets. Upon this, the provincials expecting no more assistance from. Honorius, resolved to set up an emperor of their own. Accordingly they invested with the imperial dignity one Mark, an officer of great credit among them- Him they murdered in a feir days, and placed on the throne one Gratian, who underwent the fite of his predecessor, and was succeeded by Coustantine, a common soldier, who was chosen merely for the sake of his name. He secms, however, to have been a man of some knowledge and experience in war. He drove the Scots and Piots beyond the limits of the Foman territories; but being elited with this success be would now be satisfied with nothing less than tho conquest of the whole Roman empire He therefore passed over into Gaul, and took with him not only the few Roman forces that lad been left, but such of the provincial Britons as wero most accustomed to arms. That unhoppy people, being now left defenceless, were larrassed in the most cmal manner by their enemies, who broke into the country, and destroyed all with fire and sword. In this miscrable situation they continued from the year 407, when the usurper Constantine passed over ioto Gaul, till the year 410. Having, during the last three years, frequcutly implored assistance frou Rome, without receiving any, they now resolved to withdraw their allegiance from an empire which was no longer able to protect them. Honorias himself applauded their conduct; and advised them by tetter to provide for their own safety, which unas, in effect, an implicit resignation of the sovereignty of the island.

The provincjal Britons now reguined their liberty ; but they had lost the martial spirit which bad at first rendered them so formidable to the Romans. They seem, homever, $20^{\circ}$ have met with some sucocss in their first enterprises; for Zosimus tells us, that they delivered their cities from the insults of a haughty enemy. . But being

At last overpowered, they were again obliged to have recourse to the Roman ehoperor, to whow they promised a most perfect sabuission, provided they were delivered from the hands of their mereiless and implacable eneaies. Honorius, tonched with compassion, sent a legion to their relief. The Reman forces landed in Britain unexpectedly; and atter having destroyed great nuubirs of the Scats and Picts, they drove thein beyorid the friths of Ferfh and Dumbritton. Alter this, they udvised the patives to buildia wall on the istimus from sea to sea, and to rroassume thein courage, and defend themselves from their enemies by their own valour: the Romans then quitted the country; being obliged to retura, in order to repuise those barbarians, who had broken into the empire from all quarters.

The Britons immedintely set about building the wall, as they had been desired, with great alacrity. But as it was constructed only of turf, the Scots and Picts soon broke it down in several places; and pouring in upon the defenceless and effeminate provincials, comthitued more cruel ravages than ever. At last, after very many and grievous calamities, the latter seos ambassadors once inore to Rome. These appeared with their garments rent, and dust on their heads ; and at last prevailed on the empieror, by their earnest entreaties, to send another legion to their relief. The troops arrived in Britain before, the enemy had the least knowiodge of their having set sail ; they were therefore quite unprepared for an attack, and rowing ap and down the country in the atmost disorder. The Romans made a terrible havock among them, und drove the remainder into their own country:

As Honorius had sent them not with any ambitious view of retaining the island in subjection, but merely out of compassion to the uahappy proviucials, the Romans told them, they had now no farther assistance to expect from them. They informed them, that the legion must immediately return to the continent, to protect the empire from the baibarians, who had extended their ravages almost to every part of it ; and therefore that they must take their last farewell of Britain, and totally abandon the island. After this declaration, Gallio, the commander of the Roman troops, extorted the proviocials to defend themselves, by fighting bravely for their country, wives, and children, and what ought to be dearer than life itself, their liberty; telling them at the same time, that their enemies were no stronger than themselves, provided thoy would but lay aside their fears, and exert their autient courage and resolution. That they onight the better withstand the attacks of the coeny, he advied them to build a wail, not of turf, but of stone ; offering to assits them with his soldiers, and to direct them himself is the execution. Upon this the Britons inmediately felt to work and with the assistance of the Rumons, finished it in a stort time, though it was no less than cight feet thick, and twelve feet in lieight. It is thought to have been built on the same place where Severus's wall formerly stood. Toners were also built at convenient distances on the cost coast, to prevent the desceats of the Saxons, and other barbarians that came from Germany. Gallio employed the rest of his time in teaching the provincials the art of war. He ieft them patterns of the Roinan weapons, which he also taught them to make; and after many encouraging exhortations, be took his last farewell of Britain, to which the' Romans never returned. There is a great disagreement among chronologery as to the
year in' which the Romans finally abandoned Britain, some placing it in 492 ; others in 428 , or $426 ;$ and some in 431,435 , or 437.

Britain, during this period, was divided into two unequal and variable parts ; the poutitern, which wus subject to the Roman yoke, and the northern, which atill retained its independence. The inhabitants of the north of Britain were savage tribes, who retained their antient manners, adopting only such foreign arts as might conduce to render them mure formidable enemies. They were actunted by the strongest love of liberty, and hatred to the Romnans, but too much divided in their councils to unite cordially in defending their common safoty. Some Scottish historians, relying on the weak asssstance of tradition, and, where that fails, on efforts of imagination, have given us the names of a succession of princes, who reigned during this period, and, among the rest, of Donald L. whom they denominate tho first Cliristian monarch. If the Cliristian religion were renlly thus early introduced into Scotland, it was probably by means of some provincial Christian, who sought to avoid the fury of Dioclesian, by living beyond the boundaries of his empire.
Attempts have lately been made to prove the Scots of this age wrere not destitute of literary excellence, but produced at least one poet, whose name has a claim to be consecrated to immortality, Ossian the son of Fingal. Ossian is said to have flowished about the end of the second and beginsing of the third century. Several incidents in Lis poems point out this as his era; particularly the engagement of Fingal with Caracul or Caracalla, the son of the emperor Severus, styled by Ossian, the son of the king of the world. Mr, Gibbou fixes the ent of the Caledonian war about the year 900 , and speaks thus on the sulject. "This Caledonian war, tieither marked with great events nor attended with any important consequences, would itl deserve our attention ; but it is supposed, not without a considerable degree of probability, that the invasion of Severas is connected with the most shining period of British history or fable. Fingal, whose fame, with that of lis heroes and bards, has been revived in our latiguage by a récent publication, is said to have commanded the Caledonians in that memorable juncture, to have cluded the power of Severus, and to have obtained a signal victory ou the banks of the Carun, in which the son of the king of the world, Caracul, fled from bis arms along the fields of his pride. Something of a doubtful mist still hangs over these Highland traditions ; nor can it be entirely dispelled by the miost ingenious researches of modern criticism : but if we could with safety indulge the pleasing supposition, that Fingal lived and Ossian vung, the striking contrust of the situation and manners of the contending nations might amuse a philosoptic mind. The parallel would be little to the sdvantage of the more eivilized people, if we compare the unrelenting revenge of Severus with the generous clemency of Fingat ; the timid and brutal cruelty of Caracalla, with the bravery, the tenderness, and elegant genius of Ossan ; the mercenary chiefs, whio, from motives of fear or interest, seived under the imperial standard, with the free-burn warriors, who started to arms at the voice of the king of Morven; if, in a word, we contemplated the untutored Caledonians, glowing with the warm virtues of hiture, and the degenerate Fomans, polluted with the inean vices of wealth and slavery."
The domiaion of the Fomans over tlie solith of Britain was productive of two very Vol. 1.
important revolutions in the manoers of the inkaplitants of tliat part of the island: One of these resuited from the introduction of foreigu customs, and the other from the pron papation of our holy religion.
The Koman gencrals who preceded Agrieoln expected to subdue our ancestort entirely by force, and therefara gave full scope to their own oppressive dispositions, and to those of their soddiery. This occasioned frequent revöles, and a needless efiusion of Hlood.
But Agricola united with the successful goneral, the consummite politicinu, end the: virtuous ounc. He sais that the Britons wLo lived neareat to Gaul initated the cutoms of the Gouls: and wisely considered, that to introduco ibe polished, manners of the capitab noulit be a work casily effected, and tend roore than any thing to the permanent sulem jection of the comatry. He treated the indabitants with justice and humanity, and laver ing thus obtained their affection, prevaited on then to assume the toge of the Romans as an cpsign of grandew, to cultivate their eloquence, and lasty to abandon their buwhlief coltages ior lofly palaces, erected on the model of those which long adorned many places in Italy. Tho Britons, as they became thus more polished, becance also effeninnate, and secmed in a little time inclined to consider their conquerors as their countrymen, and to regard their uncouquered liretiren of the north as rude barbariaus, as aliens, and as caemies.
Whatever public or private buildings the Roman. Britons may bave erected, they have suffered so much from the ravages of the Saxons, and the rust of numerous yeats, that scarcely a wreck remains. It is proper, however, to remark, that London, York, St. Albans, Lincoln, Colehester, and several otber of our cities and great towns, derive their origin from this period. The principal monuments that remain of Roman antiquity are the camps, highnays, and walls, which were made by the labour of the legionary soldiers. The two former of these are common in other countries, and will be described in ar more advauced part of this work: we shall, therefore, here content ourselves with briefly noticing the walls which were erected, to defend the province from the incursions of the sorthem Britons.
The wall of Adrian was composed of earth, covered with green tarf. It was carried from Solvay frith, in as strigith a line as posible to the place where Newcastle, now stands, so that it must liave been above 60 Eoplish and near 70 Romas miles. It consisted of four parts. 1. The principal mound of earth or rampart on the brinks of the ditch. 2. The ditch on the north side of the rampart. 3. Auother rampart on the south side of the principal onc, about five paces from it. 4. A large nampart on the north side of the diteh. This lat was probably the military way to the line of forts on this work : and the south rampart night serve for an inner defence, in case the enemy should beat them from any part of the principal rampart, or it might be dosizued ta protect the soldiers from any suidden atteck of the provincial Britons. For many ages this work has been in so ruinous a condition, that it is impossilile to discover its origh nil dimensious with certainty. From their appearaince it seems probable that the pring eipal mompart was at least 10 or 12 feet ligh, end the south one not much less; but the nerth one was considerably lawer. The ditch appears to bave been nine feet wide at
the top,' bet somewhat narrower at the bottom. The north rampart was about 20 feet distant frofn the diteh.

The wall of Severus was built with stone, and consequently as it wis better able to resist the attack of en mies, or the decay of age, it remains in a more perfect condition. Several inscriptions have been discovered, which give us some iuformiation concerning the Eloman soldiers employed to guard this work, from which it uppears that they smounted to about $10,000 \mathrm{men}$. The introduction of the Cliristin religion into this island would afford us a very interesting subject, but we are destitute of well authenticated materials. The probability is, that it was first bruught by Romian soldiers, or merchants, and for a time made but litule progress ; but tinat in the time of Dioclesian, ita votaries were numerous, and under the Claristian emperors it became the prevailing religion of our ancestors. On the whole, it appears that the advantages and evils resulting from the Romath conquest, were both of them numerous and great, since from thenu this island received civiization and religion, but the former was degraded to effeminacy, and the latter corrupted with superatition.

## CHAPTER IV.

Saxon Bnetars, The The masion of the Picte and Scota. The Sarons.i The heps tarchy. Egbert, Alfride Edger. Camute Edeard the Confosson: Haroid. The battle of Hastings.

THE Picts and Scots no twoner heard of the final departure of the Romnans, thinn they coasidered the whole British island as their own. One party crossad the frith of Ferth, in boost made of leather, while another attweked with fury the Roman wall, which the Britons turd repaired for their defance, but whict they abandoned on the fint assault, flying like timorous deer, and loaving their country a prey to the enemy.
The Scots and Piets made dreadful baroek of the fugitives; and meeting with vo opposition, they laid all the southem part of the island waste with fire and sword. Famine followed with ull its horcid train. The niserable Britons, in this frightfol extremity, bad once more recourse to Rone; they wrote to Etius, then consul the third time, that memorable letter, entitled, The Groms of the Britons, and which paints their unhappy condition strongly as is posible for words: "We lnow not," spy they, "even which way to flee. Chased by the barbariuns to the sea, and forced back by the sea upon the bartarims, we have only left us the clocice of two deathe ; either to perish by the sword, or be swallowed up by the waves," What answer they receved is uncertain; but it is well known they received no assistance. Rome being then threatened by Autila, the most terrible eneny that ever iavaded the empire.
The Britoos, horever, amid all their calanities, had one consolation: they had embraced Cbristinnity; a reilgion wich aiove ail others teaches the endurance of misfortunes, which encoaragrs its votaries to triumph in adversity, and inspires the soul with joy in the bour of affiction. Many of them fled over to Gaul, aod settled in the province of Arnorica, to which they guve the neme of Brittuy: part of them submitted to the Scots and Picts; and part, collecting courage from deppair, sallied from their woots and caves upon the secure and roving invaders, eut many of them to pieces, aud oblifed the rest to retire into their own country. But the enemy threatening to return next season with superior forces, the distressed Britons, by the advice of Vortigern, prince of Dummonium, who then posesesed the principal authority arnong them, called over to thicir assistance, by a solemn deputation, the Saxons and Angles, or Anyle-Saxons. Thie Saxons, like all the antient German trikes, were a free, brave, indepeadent people; they lad arrived at that degree of civiliation in which the miod has acquired sufficient force for enterprize, and scems to derive energy from the unimpaired vigour of the body. A cution, taken collectively, is never perhaps capable of such great achievenents as in this state of half-civilization. The Saxons had spread themselver over Getmany ane the Low Countries from the Cimbrian Chersonesus, now Jutland, taking possession of
the whole territory between the Rhine and the Elbe ; and wlien the Britons sent to implore their assistance, they were masters not only of the present Westphalia, Saxony, East and West Friesland, but also of Holland and Zealand. They readily complied with the request of Vortigern : and having fitted out three large transports, about 15,000 of them put to sea under the command of Hengist and Horsa, two brother chiefs snid to be descended from Woden, their tutelery god. The Saxon chiefs landed in the isle of Thanet, which was assigned them as a possession, and a league was entered into between them and the British prince. Scon after their arrival, they marched agaiust the Scots nud Piets, who had mgde a new irruption, and advanced as far as Stamford. These northem ravagets, unable to sithetand the stearly valout of the Saxons, were routed with great slaughter; and the Britons, felicitating themselves on an expedient by which they had freed fheir country from so cruel an enemy, hoped thenceforth to enjoy security under the protection of their warlike auxiliaries. But mankind, in possession of present good, are apt to ovcrlook the prospect of fature evil : the Britons did not foresee that their deliverers were to be their conquerors; though it must have been evident to any disinterested observer, that the day of subjection was nigh. The reflections of Hengist and Horsa, after their vietory over the Seots and Piets, were very different from those of the Britons; they considered with whit case they might subdue a people, who had been unable to resist such feeble insaders ; and sent to their countrymen intelligence of the fertility and opulence of Britain, inviting them to come and share in the spoils of a nation, without union, and without valour, sunk in indolence and sloth. The invitation was readily accepted, 17 vessels soon arrived with 5000 men; who, joined to those already in the island, formed a very considerable army. Though now justly. alarmed at the number of their allies, the Britons sought security and relief only in passive submission; and even that inmanly expedient soon failed them: the Saxons pulled off the mask; they complained that their subsidies were ill paid, and demanded larger supplies of com and other provisions : these being refused as exorbitant, they formed int illiafice with the Scots and Picts ; and proceeded to open hostilities against the peoplo they had come to protect. -

The Britons were at last under the necessity of taking up arms; and having deposed Vortigern, who was become odious by his rices, and the unfortunate issue of his rash counsels, they put themselves under the command of his son Vortimer. Many. battles were fought between the Saxons and Britons with various sticcess, though commonly on the side of the former; and in one of these battles the Saxon general Horsa was slain.

The sole command nowr devolved upon Hengist ; who, continually reinforced with fresh adventarers from Germany, carried desolation to the most remote possessions of the Britons. Anxious to spread the terror of his arms, he spared neither age, sex, nor condition. Of the unhappy Britons who escaped the general slaughter, some took refuge among inaccessible rocks and mountains; many perished by hunger, and many, forsaking tbeir asylum, preserved their lives at the expence of their liberty, Others, crossing the sea, sought strelter among their countrymen in Armorica. They who remained at home suffered every species of misery ; they were not only robibed of
all temporal but spiritual bencefits. In this extremity, a British and a Christian hero appeared. Arthur, prince of the Silures, revied the expiring valour of hir countrymen. He defeated the Saxons in severil engagements ; and particularly in the famous battle of Badon-hill, which procured the Britons tranquillity for upwards of 40 years.
But the success of Hengist and lis followers having exceted the ambition of other German tribes, who arived at different times; and under different leaders, yet all speaking one language, being governed by the same reguiations, and passing under the common appellation of Saxons or Angles, they were naturnlly led to unite against the antient inhatitants of the island. The Britons therefore ultimately found themselves unequal to the contest, and retired to the mountains of Cornwall and Wales, where they formed independent principalities, protected by their remote and ingecessible situation.
The Saxous and Augles, or Anglo-Saxons (for they are mentioned under both these denominations) were now absolute masters of the whole fertile and coltivated part of South Britain, which had changed not only its inhabitant, but its lauguage, customs, and political institutions. History affords an example of few conquests more bloody, and few revolutions so violent, as that effected by the Saxons. In the course of their vars with the Britons, which continued 135 jears, they had established many separate kingdoms, the seventh and last of which was that of Northumberland. The mames of the otben kingdoms were Kent, Sussex, Essex, Wessex, Mercie, and East Anglia. These seven kingdoms formed what is commonly called the Saxon heptarcliy.
The kiogdom of Kent was founded by Heagist in 475, and ended in 893 ; it contained ouly thie county of Kent. That of the South Saxons, Sussex, and Surry, were founded by Ella in 491, and ended in 600 , being conquered by the West Saxons. These latter occupied Cornwall, Devon, Dorset, Hempsthire, Somerset, Wiitshire, and Berkshire, Cornwall was, bowever, rather nominally than really subject to their dominion, as it remained in the possession of the Britons. This kingdom commenced with Cerdie 519, and produced the celebrated Egbert, who conquered all England, and became the first sole monarch. Essex was founded by Erchenwin in 574, was conquered by the Mercians 799 ; it contained Essex, Middlesex, and part of Hertfordshire. East Anglia comprechended Norfolk, Suffolk, and Cambridgeshire, was founded by Ufia 575 , and was seized by the Merciaus about 746. Northumberland, founded by Ida in 574 , and ended in 792. It was divided into tro kingdoms, Deira and Bemicia. The first is said to have comprehended Yorkshire, Laneashire, Durham, Cumberland, and Westmoreland; the hast Northumberiand, and Scothand to the frith of Edinburgh. Mercia was a very large kingdom, comprehending the remaioing part of Hertford, Glowcester, Hereford, Worcester, Warvick, Leicester, Rutland, Nortbampton, Lincola, Huntingdon, Bedford, Buekingham, Oxford, Stafford, Shropshire, Derryy, Nottingham, and Cheshire. It was founded by Cridda, in 582, and ended 874. Each of these kingdoms was converted to the Christian religion in the time of the heptarchy, as will be more particularly related towards the close of this chapter.

EGBERT, the first sole monarch of England, was a prince of eminent abilities and
great experience. He had enjoyed a considerable commana in the armies of Charlemagne, by whom he was much respected, and had acted successfully against the Normans, and other enemies of the empire. After his return to Britain, he was engaged in a-vanety of struggles, before he obtained the supreme dominion; but having surmounted these difficulties, he found himself without a rival. Being the only remaining descondant of Hengist and Horsa, the first Saxon leaders who landed in this island, and who were supposed to bo sprung from Woden, the chief divinity of the-antient Saxons, the people readily transferred their allegiance to a prince who appeared to merit it equally by his birth and talents ; so that Egbert was no sooner seated on the throne of England, than the sevea kingdoms of heptarchy were strongly cemented in one monarchy.

An union of government seemed to promise internal tranquillity; and the Saxons, from their insular situation, and their power, had littlo reason to be afraid of foreigo enemies. The Britons were humbled; and the Scots and Picts, wasted by continual wars with each other, being in no condition to molest Egbert, he flattered himself with peace and security. But, however, foresight is ever limited; a fleet of thase northern adventurers, who had already ravaged France, under the name of Normans, soon gave the English monarch reason to alter his opinion. They first landed in the isle of Shepey, pillaged it, and carried off their booty with imponity. They returned next year in 35 ships. Fghert gave them battle at Chartnouth in Dorsetshire; where they were worsted, after an obstinate dispute, but made good their retreat to their ships. Now sensible what an eneny they had to deal with, they entered into an alliance with the Britons of Cornvall ; and landing in that country, their confederates and they made an irruption into the county of Devonshire : they were met by Egbert at Hengesdown, and totally defeated. But while England was threatened with new alarms from the same quarter, this warlike monarch, who alone was able to oppose the igvaders, unfortunately died, and left the kingdom to his son Ethelwolf, a prince better fixed to wear the cowl than the crown.

Ethelvolf began his reigo with dividing his dominions, according to the absurd custom of those times ; delivering over to his son eldest Athelstan, the countries of Essex, Kent, and Sussex. But no inconveniences seem to have arisen from this partition, the terror of the Danish invaders preventing all domestic dissensions. Tine proved that this terror was but too just; the Danes returned with redoubled fury; and, though often repused, and sometimes defeated, they always obtained their end, by committing plunder, and carrying off their booty: they avoided coming to a general engagement, which was not suited to their plan of operations: their vessels being small, ran casily up the creeks and nvers, they drew them ashore, and formed an entrenchment around them, leaving them under a goard : they scattered themselves over the face of the country in small parties, making spoil of every thing that eame in their way; goods, cattle, and women. If opposed by a superior force, they betook themselves to their vessels, set sail, and invaded some distant quarter, not prepared for their reception. All England was kept in continual alarm ; nor durst the inhabitants of one part go to the assistance of another, lest their own families and possessions should be exposed to the fury of the

## BRITAIN.

ravagers. Every season of the year was alike; no man could compute on a moment's safety.

Encouraged by their past successes, the Danes at length landed in so large a body, as seemed to threaten the whole island with subjection. But thie Anglo-Saxons, though labouring under the weight of superstition, were still a gallant people: they roused themselves with a vigour proportioned to the neecssity, and defeajed their invaders in several engagements. The Danes, bowever, ventured, for the first time, to take up their winter quarters in England ; and received in the spring a strong reinforcement, by 350 vessels; they advanced from tie isle of Thanet, where they had stationed themselves, and burnt the cities of London and Canterbury. They were again defeated in several engagements; yet they still maintained their settlement in the isle of Thanet, and spent next winter in the isle of Shepey:

During the absence of Ethelivolf, his eldest son Athelstan died; and Ethelbald, the second son, had formed the project of excluding his father from the throne. This unnatural attempt gave the pious monarch little concern. He complied with most of his sor's sdemands, and the kingdom was divided between them. Ethelwolf lived only two jears after his return to England, which he left by his will to be shared between his two eldest sons, Ethelbald and Ethelbert. Ethelbald was a profligate prinec, but his reign was happily short; and Ethelbert succeeding to the goverament of the whole kingdom, conducted himself, during a reiga of five jears, in a manner more suitable to his rank. England was still infested by tho depredations of the Danes; who, in this reign, sacked Winchester, but were there defeated. Ethelbert was sueceeded by his brother Ethelred, whose whole reign was one continued struggle with the Danes. He defended his kingdom with much bravery, and mas yulantly seconded in all his efforts by his younger brother Alfied; who, though excladed from a large inheritance left him by his father, generously sacrificed lis resentment to the publio good. Ethelred died in the midst of these troables, and left his disordered kingdom to his brother Alfred. Alifed wis notr 20 years of age, and a prince of very promising talents. He had no sooner buried his brother, than he uas obliged to take the field against the Danes. They had scized Wilton, and were ravaging the neighbowing country. He gave them battle, and at first gained some advantage over them ; but, pursuing his vietory too far, he was wonsted by means of the enemy's numbers. The lass of the Danes, however, wis so considerable, that, fearing Alfred might suddenly receive reinforcement frou his subjects, thicy stipulated for a safe retreat, under a promise to depart the kingdom. But they tree no sooner freed from danger, than they renewed thecre ravages. A new swarn of Danes landed, under three priceipal leaders ; and Alfred, in one year, foughe eight battles with there faithless and inhuman invaders, and reduced them to the greatest extremity. But the generous prince, again condesceading to treat with them, was again deceived. While he was expecting the execution of the agreement, a third swarm fanded from the northern hise, and reduced the Saxons to despair. They believed themselves abandoned by beaven, and devoted to destruction; since, after all their vigorous efforts, frestr invilders still poured in upon thers, as greedy oftypoil and slaugbter as the former. Some left their couatry, others subaitted to the conquerors, but none would listen to the ox-

## A. D 880 .

hortations of Alfred, who, still undismiyed, begged them to make one thation miore in defence of their possessions, their liberties, and their prince.

Thus abandoned by bis subjects, this illostrious mouarch was obliged to lay asiturke ensigus of his dignity, and assume the mabit of a peasant. In that mean disguise lie eluded the pursuit and fory of his enemies; and, in order to save his country, he even condescended to live for some time as servant to a graxier. But the human nind is as little suited to employmients beatath ns above its capacity: the great Alfred made a bad com-herit. Mis gudardian gerfus was occuphed about higher cares ; and, is sooh as fic found the search of his enemies begome more remiss, he colleeted some of his adherents, and retired into the middle of a morass, formed by the staguating waters of the Thone and Parret; where, finding some firm ground, he built and fortified a castle, bo less secure by its own strength, than by its remote and inaccessible situation. Tie place is catled Nithelingey, or the iste of Nobles. It now bears the name of Athelney. Here, during if twélvemonth, Alfréd tay conceafed, but not inactive : he made frequent and unexpected sallies upon the Danes, wha often felt the vigour of his arm, but knew not whence the blow came, or by whom it was directed. At length a prosperous event emboldened the royal fugitive to leave his retreat, and eater on a scene of action more worp thy of himsetf. Oddune, eart of Devonshire, being besieged in his castle by Hubba, a celebrated Danish general, made an unexpeeted sally apon the eneny, put them to rout, and pursued them with great slaughter; killed Nubba himself, and got possession of me famous Reafen, or Raven, an enchanted standard, in which the Danes put great confidence.
The news of this vietory was immediately earried by the faithful earl to Alfred, who was happy to find the seeds of valour beginning to revive among his subjects; but, before he would assemble them in arms, he resolvel to inspect the situation of the ènemy, and judge of the probitility of success, as an unfortunate attempt in the present stute of mational despondency must liave terminated in final roin. In consequence of this resolution, he entered the Danish camp unden the disguise of a harper, and passed unsuspected through every quarter. He observed the supine security of the ravagers, their contempt of the English, and their neglect of alt military regulations. Encouruged by thiese proppitious appearances, be sent intelligence to his most powerful sabjects, und summoned them to assemble, aloag with thioir retainers, on the borders of Selvood forest.

The Fugish, who, instead of ending their calamities by submission, as they fondly boped, hitd found the insolence and rapine of the conquerors more intolerable thant the dauguts and'fatigues of war, joyfinly resorted to the place of rendecvous. They suluted their befoved monareh with birsts of applanse; they could not satiate their eges with tie sight of a prince whom they had believed dean, and who now appeared ats theit dethever: thicy begeget to beted to titerty and vehgeaince. Alfred did not suffer their arddar to cool: he conducted them instantly to Eddington, where the Danes lay encumped: and taking the advaatirgo of tis previous knowledge of the enemy's situation, he dinected his atfick agginte their moit unguarded quarter. Surprised to see an


Yos. I.

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Alfred at their hoad, the Danes made but a foeble mesistance, notwithstanding their surperior numbers : they were soou put to alight, and routed with great slaughter. Alfred, po leas generous than brave, and who kuew as well how to govern as to conquer, took the remains of the Danish army and prince Guthrum under hiis protection. He granted them their lives on subuission, and liberty to settle in the kinglom of Northumberiond and East Anglia, (wlich were entirely desolated by the frequent inronds of their countrymen) on condition that they should embrace Christianity. They consented, and wero baptised; the king stood godfither for Guthrom. This mode of population fully answered Alfred's expectation : the greater part of the. Danes settled peacoably in their now possessions; and the more turbulent made an expedition into France, under their famous leader Hastings, who afterwards invaded England, but was expelled by the valour and vigilance of. Alfred.

In the meao time, this great prince was employed in establishing civil and military institutions; in composing the minds of menn to industry and justice, and in providing aguinst the return of like cellamities After rebuilding the ruined cities, partionalaly London, which had been destroyed by the Danes in the reign of Ethelwolf, he established a regular militia for the defence of the kingdom. He took care that all his subjects should be armed and registered, and assigned them a regular round of duty; he distributed one part into the castles and fortresses, which he erected at proper places; he appointed another to take the field on any slarm, and assemble at stated places of rendeavous ; and he left a sufficient number at home, who were emploged in the cultivation of the lands, and afterwards took their tum in militany service. The whole kingdom was like one great garrison : the Danes could no sooner land in any quarter, than a sufficient force was ready to oppose them, and that without leaving the other partsnaked or defenceless. But Alfred did not trast solely to his land forees. He may bo considered as the creator of the English navy, as well as the establister of the monarchy: Sensible that ships are the mos natural bulwark of an island, a circumstance hitherto entirely overlooked by the Saxons, or English, as they began now to be generally called, he provided himself with a naval force and met the Danes on their,own element. A flect of 120 armed vessels was stationea upon the coast; and being provided with warlike engines, and expert seamen, both Frisians and English, maintuined a superiority over the encuy, and gave birth to that claim, which England atill supports, to the sovereigaty of the ocean.
In this manner did Alfred provide for the security of his kingdom; and the excellent posture of dofence every where established, together with the wisdom and valour of tho prince, at length restored the peace and tranquility of England, and communicated to it a consequence hitherto unknown in the monarchy. But it would convey a very imperfect idea of Alfred's merit, wero we to confine ourselves merely to his military and political talent. His judicial institutions, and his zeal for the encouragement of arts and sciences, demand our particular attention. Wo must now, therefore, consider him in a character altogether civil ; as the father of English law and English literature:

Thiough Alfred, in the early part of his reign, had subdued, settled, or expelled the.

Banee ne-a hody, straggling bands of that people afterwards continued to infest the lingdom with their robberies; and even the mative Engligh, roduced to extreme indigeace, by these and former depredations, abandoned themselves to a like disorderly life: they joined the robbers in pillaging the more wealthy part of their fellow citizens. These cvils required redress, and Alfred took means effectually to memove them. In order to render the exeeution of justice more strict and regular, he divided all England into coupties; these counties he subdivided into hundreds, and the hundreds into tythings. Every bouscholder was answerable for the behaviour of his family, of lis slaves, and even of his guests, if they resided above three days in his house. Ten neighbouning houscholders, answerable for each other's conduct, wera formed into one corporation, under the name of a tything decennary, or friborough, over which a person called a tythingman, headborough, or borsholder, presided. Every man was panished as an outlaw, who did not register himself in some tything; and no man could change his habitation, without a warrant and certificate from the borsholder of the tything to which he formierly belonged.
These regulations may seem rigorous, and are not perhaps neceasary in times wher men are habituated to obedience and justice. Bat they were well calculated to neduce a fiarce and licentious people, under the salutary restraints of law and government ; and Alfred took care to temper their severity by other institutions fisvourable to the freedom and security of the subject. Nothing can bo more liberal than his plan for the adminitrition of justice. Tho borsholder summoned his whole decennary to assist him in the decision of smaller differehces among the merabers of the corporation : in controversies of greater moment, the dispute was brought before the hundred, which consisted of ten decennaries, or a hundred families of free-men, and wus regularly assembled opce in four weeks, for the trying of causes. Their mode of decicision clains your atteation; twelve freeholders were chosen; who, háving sworn along with the mugistrate of the hundred to administer impartink justice, proceecied to the examination of the cause that was submitted to them. In this simple form of trial we perceive the origin of juries, or judgment by equals, an institution now almost peculiar to the English nation, adouirable in itself, and the best calculated for the preservation of man's natural rights, and the administration of justice, that liuman wisdom eyer slevised.

Beside these monthly meetings of the hundred, there was an annual meeting, appoint ed for the more general inspection of the police of the district ; iuquiring into crimes, correcting abuses in magistrates, and obliging every person to shew the decennary in which he was registered. In imitation of their ancestors, the antient Germans, the peopla on those occasions assombled in arms; whence an hondred was sometimes called a wapentake, and its court served for the support of military discipline, as well as the adininistration of justice. The next superior court to that of the hundred was the county-court, which met twice a-year, and cousisted of all the frecholders of the county, who had in equal yote is the decision of causes. To tho alderman and bishop, Alfred anded a third judge in each county, mader the name of sherift, who enjoyed equal suthority with the tivo former. His office also empowered him to guard the rights of
the crown in the county, and levy the fanes imposed; which, in an age when money atoned for aimost every violation of the laus of society, forned no incousiderable branets of the public revence.

In defaut of justice from all these coirts, an appeal lay to the king himself in council; and as the wisdom and jastice of Alfod were univerally revered, he wis soon overwhelped nith appeals from all parts of tiis dominions. In order to reneedy this incónveniecoe, he cuose the carls and sheriffs from amiong the mea most celebrated for probity and knowledge in the kingglon: he panished severely all malversation in office; be reimoved all whom he found unequal to the trust ; tude the befter to guide magistrates of all binds in the administration of justice, be frauned a body of laws; which, though now lost, served long as the basis of English jurisprudence, and is generally esteemed the ofigin of our Cosncos Law.

Alfred uppointed regular meeting of the stater of England triec a year in the city of London, which be himetf hat repaired nod beautified, and which thenceforth became the capital of the kiagdom. Every thing soon wore a new face under his wise and equitable goveramenh. Such eurcess attended bis legistation, and so exact was tho general police, that be is said to have hung up, by way of trial. golden bracelets, near the highrounds, and ame men tared to touch theas. Pat this great primee, though rigorous in the administratiou of justice, which he wiscly cousidered as the best means of repressing crimes, preservad the most sucred regard to the liberty of his people. His eoncern od this subject exteaded even to future times, and ought to endear his memory to every Engustaman. "It is just," sues the the his wil, "that the English stauld for ever semaia FREE AS THEIR OWN THOUGHES:

Atet providing for sthe security of bis kingdom, and tamiang his suljeets to the reatrauts of lave, Alifred esteaded his care to thuse things which aggrandize an nation, and make a poople happy. Sensible that good mornls and knowledge are almost insepanable in every nge, thapgh not in every individtral, he give great encouragement to the purd nuit of fearing. Ho invited over the most eelebrated scholars from all parts of Eurupe; he establisiod seliools every where for the instruction of the ignorant; he founder, or at leist repaired, the wivensity of Oxford, and endowed it with many priviloges, reves.
 Leni, to send their children to school; and hio give preferment, either in church orstate, to suah senly as bad made some proficiency in knowledge. Bat the most effectuat expedient empligyed by Affed for the evicairgetinent of learning was tif own example, and the progress whtcit he mude in saience. Notwithistanding the multiplicity of civil oblects nuich cugngod this attention, and althougha he foughit ia perion 56 battles by, sea and zand, this ill ststiow heco aud -legislotor was able to acquire, lyy lis unremitting indastrys, during a life uf no extraodinary length, more knowledge, and even to piraduce moro books, than upot specculative men, ite more fortanate ages, who bave depoted their whaletime to study. Ho compased a varicty of poems, fables, and apt stories, to lend the nntutored mial io the lure of letters, and bend the heart to the practice of virtuc: For the samig parpose he frealated from the Gireek the instructive fables of Axop.' He also gave Saxoc itranelations of thp histories of Orcsaius and Bede, and of the Consolations
of Philosophy, by Boctins, Alfred was no less attentive to the propagation of those mechanical arts, which have a more sensible, though not a more intimate connection with the welfare of a state. He introdaced and encouraged manufactures of all kinds, and suffered no inventor or irpprover of any useful or ingenious art to go unrewardedHe prompted men of activity and industry to apply themselves to navigation, and to push commerce into the most distant countries ; and he set apart a seventh portion of his own revenue for maintaining a number of workmen, whom he employed in rebuilding the ruined cities and castlos. The elegancies of life are said to bave been brought to him, even from the Mediterranean and the Indies; and his subjects sceing these desirable productions, and the means of acquiring richey by trade, were taught to respect those peaceful virtues, by which alone such blessings can be earned or insured. This extraordinary man, who is justly considered, both by natives and foreigoers, as the greatest prince after Charlemague that Europe saw for several ages, and as one of the wisest and best that ever adorned the annals of any nation, died in the year 901 , in the vigour of his age, and the foll strength of his faculties, after a life of fitty-three years, and a glorious reign of twenty-nine years and a half. His merit, both in public and private life, may be set in opposition to that of any sovercign or citizen in antient or modern times. He seems indeed, as is observed by an elegant and profound historian, to be the complete model of that perfect character, which, under the denomination of a sage, or truly wise man, philosophers have been so fond of delineating without the hopes of ever seeing realized.

Alfred was sueceeded by bis son Edward the Elder, being the first of that name who sat on the English throne. Though inferior to his father ia genius and erudition, he equalled him in military talents, and be had occasion for them. Ethelwald, his cousin german, son to king Ethelbert, Alfreds elder brother, dioputed the crown, and called in the Danes to support his clain. The death of Ethelwald, who fell in a battle with the Kentish men, decided the quarrel ; bnt Edward's wars with the Danes continued during the greater part of his reign, though he was successful in almost every engagement. He died in 9e5. Athelstan, Edirard's catural son, obtained the kingdom, in preference to his legitimate children. As he was arrived at an age more suited to the eares of government ; and the nation, exposed to foreigo and domestic wars, required a prince of vigour and abilities, the stain in his birth was overlooked.

No sooner was Athelstan secarely seated on the throne, thain he endeavoured to give it stability, by providing against the fisurrections of the domestic Danes. With this view he unapched into Northomberland, their most considerable settement ; and finding that they bore with impatience the English yoke, he judged it prudent to confer on Sitheric, a Danish nobleman, the title of king, and to give him his sister Editha in marriage, as a farther motive of attachment. But this policy, though apparently wise, proved the source of many troubles. Sitheric died within a twelvemonth after his elevation; and his two sons, by a former marriage, Anlaf and Godfrid, founding pretensions on their father's rank, assumed the sovereignty without waiting for the approbation of Athelstab. But they were soon expelled by that powerful monarch ${ }_{6}$ who was noVol. I.
tess hrave than politic. The former took shelter in Ireland, tha fatter in Scotland; where he was protected for some time, by the clemency of Constantine, who then swayed the Scottish sceptre. Continually solicited, however, and even menaced by whe English monarch, Constantine at last promised to deliver up bis guest ; but secretly detesting sueh treachery; he gave Godfrid a hint to make his escape. Incensed at Constantine's behaviour, though the death of the fugitive lad freed him from all apprehensions, Athelstan entered Scotland with a numerous army, and reduced the Scots fo such distress, that the king was happy to preserve his crown by thic most humble submission. Athelstan afterwards defeated the Scots, Welth, and Danes, in a general engagement at Brunshury in Northumberland. In consequence of this victory he enjoyed tranquility doring the rest of his reigo. He appears to have tieen one of the most able and active of-our antient princes : and his raemorable lew for the encouragement of commerce discovers a liberality of mind worthy of the most enlightened ages; That a merchant, who had made two voyages on his own account, to distant lands, should be. admitted to the rank of a lessor thane or gentleman.
Atbelstan was fucceeded by his brother Edmund ; who, oa his succession, met with some distarbances from tie Northumbrian Danes, whom he reduced to obedjence. He also conquered Cumberland from the Britons, and conferred that principality on Malcolm, king of Scotland, on condition that he should do homage to England for it, and protect the nortiern counties from all future incursions of the fureign Danes. Edmunds reign was short, and his death violent. As he was solemnixing a feast in Ciloucestershire, a notorious robber named Leof, whom he had sentenced to banishmeut, andacionsly entered the hall where his sovereigo dined, and seated himselfat one of the tables. Enraged at sach insolence, Edmand ordered him to be seized; but observing that the ruffian whis preparing to resist, the indignant monarch sprung up, and catching Liturby the hair, dragged him out of the fall. Meanwhile Leof having drawn bis dagger, lifted his arm with a furious blow, and stabbed the king to the heart, who immediately expirod on the bosom of his murderer, Edmund left male issue, but as his eldest son was too young to govern the kingulom, his brother Edred was raised to the throne. The heginuing of Edred's reigh, life those of his predecessors, was disturbed by the rebellion of the Northumbriun Dapes. Though frequently humblet, they were never entirely subdice, nor had they cver paid a mincore altegiance to the Finglish crown. Their obedience lasted no longer shin the preacut terror. Edred, fastracted by experieuce, took every prectution to prevant their future ingurrections. He settled Eaglish garrisuns in thicir most consiferable towns, and placed over them an English governor, to watch their motions, and cheek the first appearance of revolh. He also obligert Mrulcolin, king of Scotlund, to renew bis homage for Cumberland. ButEdred, though a brave and aclive prince, lay under the influence of the fowest superstition, and had blindly delivered over lis conscience to the guifance of Bunstan, abbot of Glastoubory, commonly called St Dunstan, whom he advariced to the highest oilices of state, and whio concculed beneath an appearanec of sanctity, the most insatiate and insolent ambition. In order to imposo on the credulity of mankind, this designing monk had long secluded himself from the

## A. D. 955 .

world in a miserable cell, where he is said to have had frequent confliets with the deefif: until one day when the infernal spirit, attempting to seduce him in the shape of n wo ? mas, Dunstan seized him by the nose with a pair of red liot piocers, atid held bim tiff the whole neighbourhood resounded with his bellowings. Satan, thus vanquished, darst inver more shew his face. This story, and others of the like nature, then seriously believed, obtained the abbot a reputation both with prince and people, which no real piety or virtue could possibly have procured him. Soon after his return from solitude, he was placed by Edred at the head of the treasury; and, sensible that he owed his advancement solely to the opinion of his integrity, he professed himselt a friend to the rigid monastic rules, which about this time began to prevail, and by which monks were. excluded from all commerce with the world and with women. He introduced them into the convents of Glastonbury atid Abingdon, and endeavoured to render them untversal in the kingdom.

In the prosecution of this design he met with much opposition from the clergy, and much support from the king. Edred intrusted him with the management of public affinirs, made him treasuren; obeyed his counsels with the utmost servility, and even submitted to receive corporal discipline at his hands.

In a little time, however, the power of the monks "received a check by the death of Edred, the dupe of their ambition. He left children, but in an infant state; the cforn wis therefore conferred on Edwy, his nephew, son to Elmund, his brother and predecessor. This prince, who was only seventeen years of wge ut lits accession, possessed an elegant person, and the most amiable and promising virtues. But netther the grace of his figure, nor the accomplishments of his mind, could screen him from the fary of the: moths, whom he unhappily offended in the beginning of his reign, Tho beuutifuf Algiva, his second or third consih, had made an impression on the susceptible heart of Ediry; and as he was at an age when the tender passious are most keenfy felt, he ventured to marry her, though within the degrees of affinity, prohitited by the church. The augrerity of the monks, made them particularly violent on this occasion : the king therafore entertained a strong aversion against them, and deternined to oppose their project of expelling the seculars from the convents. But he had soon reason to repent his inshacss, in provoking such danigerous epemies. On the duy of his coronation, while the nobility, asgembled in the great lilil, were indalging thenselves in riot and disorder, after the examplo of their German ancestors, Edwry retired to the queen's apartment, and gave loose to his foridness, which was but fecbly checked by the presence of her nimther. Punsfan conjectured the reason of the King's absence; and carrging nlong vith him Odo, Arehbishop of Canterbury, over whom he had gained an absoluke ascendarit, he burst into the rayal privacy; upbraided Edwy of lasciviousacss tore him from tho aris of his consont, and pushied him back ignomiaiously into the company of the mobles, loading the queen with the most opprobrious epithets. Though Edwy was young, and liud the jrejudices of the me to eucounter, hof found means to revenge this public intult. He aecised Dunstan of malversation in office, while at the head of the treasury ; and as that minister did not clear himiself of tho clvirge, the king banished

Litu the realm. But Dunstan's party were not idle during his absence. They poisoned the minds of the people to such a degree by declarations agaiast the king, and panegerics on the abbat's sanctity, that the royal authority was despised, and still more outrageopsly insulted. Arehbishop Odo ordered the queen to be seized; and after her face had been seared with a red hot iron, in order to destroy that fatal beauty which had ensnared the king, she was carried into Ireland, there to remain in perpetual exile. Edwy finding resistance ineffectual, was obliged to consent to a divorec, which was pronounced by the imperious Odo. But these were not the only evils which attended this unfortunate prinee and hisconsort. The amiable Elgiva was made prisoner lyy her persecutors, and cruelly murdered in returaing to the embraces of the king, whom she still considered as her husband. Nothing less than her death could satisfy the archbishop and the monks. Edwy was dethroned by the same influence, in order to make room for his brother Edgar , a boy of thirteen years of age. Dunstan returned to England, and took upou him the government of the young king and his party. He was first installed in the see of Worcester, next in that of London, and afferwards in that of Centerbury ; of all which he long kept possession. In the mean time the unhappy Edwy was excommunicated, and pursued by his eneruies with unrelenting vengeance. But his death soon frecd them from all inquietude, and left Edgar in peaceable possession of the throne.

The reign of Edgar is one of the most fortunate in the English annals. Though he ascended the throne in early youth, he soon discovered an excellent capacity for government. He shewed no aversion against war: he took the wisent precautions for public safety; and, by his vigilance and foresight, he was enabled to indulge his natural inclimation for peace. He maintained a body of troops in the north, to keep the matinous Northumbrians in awe, and to repel the inroads of the Scots. He also built and stpported a powerful navy, and, in order to habituate the seamen to the practice of their profossion, as well as to intimidate hís eneries, he stationed threc squadrons off the coasts of his kingdom, and coromanded them to make by turns the circuit of his dominions. The forejign Danes durst not approach a country which was so strongly defended: the domestic Danes saw destruction ta be the inevitable consequence of insurrection ; and the princes of Wales, of Scotland, and even of Ireland, were happy to appease so potent a monarch by submissions. But the means by which Edgar inore especially maintained his authority at home, and preserved public tranquility, was paying court to Dunstan and the monks, who bad violently placed him on the throne, and whose claim to superior sanctity gave them an ascendant over the people. He favoured their scheme of reformation, as it was called, but in reality, of dispossessing the secular canons of the monasteries: he consulted them in the administration of all ecelesiastical, and even of many civil affairs; and although the vigour of his genius presented him from being entirely guided by them, be took care never to disoblige them. Hence ho is represented by the monkish writers not only as a warrior and a politician, a character which he seems to have merited, but also as a saint, and a man of virtoe, though he was licentious in the highest degree, and violated every law human and divine. His very amours are a compound of barbarity and brutality. He broke open a convent, carried off a mun by
force, and oven committed violence on her person. Struck also with the charms of a nobleman's daughter, in whose house he was entertained, he demanded that she should pass that very night with him, without once consulting the young lady's inclinations. Bui his most remarkable amour was with the beautiful Elfrida; and as it is connected with the listory of the following reign, we shall relate it circumstantially. It will give you at once an idea of the manners of the age, and of the character of Edgar.
Elfrida, the only daughter and sole heiress of Olgar, carl of Devonshire, though educated in the country, and a stranger at court, had filled all England with the reputation of ber beauty. Edgar, who was pever indifferent to any report of this kind, sent Athelwold his favourite, to see if the young lady was indeed as fair as fame had represented her. Athelvold no sooner saw Elfrida, than he was inflamed with love, and determined to sacrifice to it his fidelity to his master: he therefore told Edgar, on his return, that the fortume and quality of Elfrita alone had been the cause of the adalation paid her; and that her cliarms, so far from being extraordinary, would have been entirely overlooked in a woman of inferior condition; "But", added he, when he found he had blunted the edge of the king's curiosity, "though she has nothing to claim the attention of a sovereign, her iumense wealth would, to a subject, be a sufficent compensation for the lomeliness of her person; and, althonghit could never produce on me the illusion of beauty, it might make her a convenient wife. Edgar, glad of an opportunity of establishing his fivourites fortune, not onlygave his approbation to the projected match, bot forwarded its success by reconmending him in the- warmest manner to the earl of Devonshire; so that Athelwold was soon made happy in the pos-ession of his beloved Elfrida. Dreading, however, the eyes of the king, he still foand soime pretence for detaining lis wife in the country. Dut all his precautions were insufficient to conceal his treachery. Royal favourites are never without enemies: Ddgar was soon informed of the trith; biut before he would execute vengeance on Athetwold's perfidy, he resolved to satisfy himseff fully in regard to Elfrida's beauty. He therefore told has deceiver, that he intended to pay hion a visit at his castle, and be introduced to his wife, whose beauty he had formerly heard so mach praised. Athelwold was thunderitruck at the proposal; but, as he could not refuse fuch an fionour, he only begged leave to go a few hours before his royal guest, that he might make proper preparation tor his reception. On his arrival hie felt at his ulfe's feat, discovered the whole secret, and conjured her, if she valued either her own honour, or his life, to disguise as much as pgosible that fatal beauty, which had tempted him to deceive his prince and friend. Elfrida promised compliance, though nothing appears to bave been farther from her thoughts. Shic kdorned fior person with the ugot exquiste art, and catted forth alf her charms; not desparing, it should seem, yet to reach that exalted station of which Athelvold's fondness had deprived her. The event was euswerable to ber wisties : she excited at once in Edgar's bosom the warmest love, and the keenest desire of revonge. The king, however, who could dissemble thosc possious, $n$ well as feel them, beheld her with seeming indiference, and having seduced Athelwold into a wuod,
under pretence of hunting, he stabbed him with his owa hand, took Elfrida to court, and soon after publicly married her.

This reign is remarkable for the extirpation of wolves from Eagland. Edgar took great pleasure in pursuing those ravenous avimals; and when he found they had all taken shelter in the mountains andforcsts of Wales, lee changed the tribute of money imposed on the Weleh princes by Athelston, into an annual tribute of 300 head of valves? a policy which oceavoned so much diligence in huating them, that the breed soon became extinct in the island.

Edgar was succeeded by his son Edward, commonly, called the Martyr, whom he had by his first wife, the daughter of earl Ordmer. The suecession of Edward did not take place without much opposition. Elfrida, his step mother, had a son named Ethelred, only seven years old, wliom she attempted to raise to the throne. But the prinipal nobility, dreading her imperious temper, opposed a measure which must increase her authority, if not put her in posscssion of the regency ; and Dunstan, to whom it was of great importance to have a king favourable to his cause, resolutely crowned and anointed Edward, over whom he hud already gained an absolute aseendant. His short reign was remarkable for nothing but a continual struggle between the monks and the secular elengy. He was treacherously murdered at the instigation of Elfrida, in order to make roomfor her son Ethelred,

Soon after the accession of Etheired, a prince without courage or capacity, Englaud was visited anew by the Danes. The wise regulations of Alfred, and the valour of his imnediate successors had long deterred these ravagers from approaching the British shores; and their settlements in France had required for a time, most of their superfluous hands. But a new race of inen having sprung up in the nortir regions, who could no long disburden themselves on Normandy, and England being ho longer governed by an Alfred or an Edgar, they ventured to renew their depredations. Etht elred, instead of rousing his people to defend with courage their prince and their property, meanly componnded with the enemy for his safety, by bribing them to depart the kingdom. That shameful expedient, which invited assailants instead of repelling then, was attended with the saccess that might have been expected; the Dancs agair returned, and were again bribed to depart. In the nacan time Etheliced, from a policy midident to weak princes, embraced the eruel resolation of massacring the Danes throughout all his dominions. Secret orders were accordingly given to commence the execution on the same day, and all the Danes werd destroyed without mercy. Evin Gumilda, sister to the king of Denmark, who had murried earl Paling, and embraced christianity, was seized and pat to death by Bthelred, after having seen her husband and children butchered before her face. This unhappy princess foretold, in the agonies of despair, that her murder would soon be revenged by the total ruin of the English nation: never was prophesy better fulfilled, nor ever did barbarous policy prove more fatal to its projectors. Sweyn, king of Denmark breathing vengeance fos the sliughter of his countrymen, landed speedily in the West of England, and desolated the whole
kingdom with firc and sword. The English, sensiblo what they had to expect from a barbarous and enraged encmy, attempted several times to make a stand; but they were suceessfully betrayed by Alferic and Eitric, governors of Mercia. The base and improitent expedtent of money was again tied, till the mation was entirely drained of it/ treasure, but without effect. The Danes continued their ravages, and Eheired, equally afraid of the violence of the enemy and the treachery of his own subjects, fted over to his brother-in-law, Richard duke of Normandy, who received him with a generosity that does honour to his miemory.

Sweyn died soon after Ethelred left England, and before he had time to establish himself in his newly acquired dominions, Ethelred was recalled; but his miscouduct: was incurable; on resuming the government, he discovered the same incapacity, indolence and eredulity, which had so often exposed him to the insult of his enemies; and the English found in Canute, the son and successor of Sweyn, an enemy no lese terrible than his father. An army was assembled against him, under the command of Firie and prince Pdmond. Edric, whom the infatuated kingstill trusted, continued his perfidious machinations; after endeavouring in viin to get the prince into lis power, he found means to disfipate the army, and then openly revolted to Canute with 40 vassals. Notwithstanding this misfortune, Edmond, whose, intrepidity never failed him, collected the remaining force of the kingdom, and was soon inta condition to give the enemy battle. But the king had so often experienced the perfidy of his subjects, that he lost all confidence in them: he therefore refused to take the field; so that the prince's vigorous measures were rendered altogether ineffectual, the army being discouraged by the timidity of their sovereign. As the North had already submitted to Canute's power, Edinond retised to L.ondon, determined there to maintain the small remains of English liberty. In the mean time his father died, after an inglorious reign of 3 s years. Ditheired left two sons by his first marringe : Edmond who succeeded him, and Edwy, whom Canute afterwards murdered. His two sons by the second marriage, A1fred and Edward, were conveyed into Normandy by queen Emma, immediatly after the death of their fither.

Edmond, who received the name of Ironside from his hardy valour, possessed courage and abilities sufficient to liave saved his country, not only from sinking under its present calainities, bat even to Lave raised it from that abyss of misery into which it was afready fallen, lad the Englisit, amiong their other misfortunes, not been infected with treacheryand disloyalty. Bit these rendered hisbest concerted schemes abortive, and his noblest efforts fruitiess: The traitor Edrie pretended to retura to his duty; and, as Edmond had no general in whom ho could repose more confidence, he gavo him a considerable command in the army. A battle was sooa after fought at Assington in Esbex. Edric deserted to the enemy in the beginning of the day, and occasioned the cotal defeat of the English arnys, with great slaughter of the nobility. The indefitigablo Vdinond, however, hat still resources. He asscubled a new army at Gloucester, and wis again in a condition to diapute the field ; when the Danish and English nobility, equally tired of the struggle, obliged their kings to come to terms. The kingdom was
divided between them by treaty. Canute reserved to himself the northern division. Mercia, East Anglia, and Northumberland; which he had entirely subdued: the southern parts were lef to Edmond, who, survived the treaty only a month. He was murdered at Oxford by two of his chamberlains, accomplices of Edric, whose treachery made way for the accession of Canute the Dane, to the throne of England; Edwin ayd Edward, the sons of Edmond, being yet in their infancy.

England was pow exposed to the ambition of Canute the Dane ; a prince both active and brave, and at the head of a numerous army, ready to take adyantage of the minority of Edwin and Edward, the sons of Edmond. Tho Einglish could therefore expect nothing but total subjection from Canute. But the Danish monarch, commonly so little scrupulous, shewed, on this occasion, an anxiety to conceal his injustice under plausible pretences. Before he scized the inheritance of the two young princes, he summoned a general assembly of the states of England, in order to fix the succession, and having suborned some noblemen to depose, that, in the treaty of Gloucester, it was agreed, "That Canute, in case of Edmund's decease, should succeed to the whole kingdom," the states, convinced by this evidence, or over-awed by his victorious arms, iumediately put the Dane in full possession of the government.

But although Canute had now attained the great object of his ambition, in the undivided sovereignty of England, he was at first obliged to make many sacrifices to it ; and to gratify the chief nobility, by bestowing on them extensive governments and joristictions. He also thought himself obliged, from political motives, to exercise some severities. In order to reward his Danish followers, he loaded the people with oppressive taxes ; and jealous of the two young princes, but sensible that he should make himself detested if he ordered them to be murdered in England, he sent them to his ally, the king of Sweden, whom he desired to get them privately dispateled, as soon as they urrived at his court. But the Swedish monarch was too generous to comply with sueh barbarous request. Afraid, liowever, to draw on himself the displeasure of Canute, by protecting the English princes, he sent them to be educated in the court of Solonion, king of Hungary : a strange place surely to seek for a preceptor. But the defouceless seek only a protector : and the sons of Edmond found one in Solomon. Edvin, the eldest, was married to that monarch's sister; but he dying without issue, Solomon gave his sister-in-law, Agatha, daughter of the Emperor Henry II. in marriago to Edward, the younger brother : and she bore him Edgar Atheling, (whomí we shall have occasion to mention) Margaret, afterwards queen of Scotland ; and Christina, who retired into a convent. The removal of Edmond's children into so distant a coumtry as Hungary, was regarded by Canute, next to their death, as the greatest security of his government. But he was still under alarm on account of Alfred and Edward, the sons of Etheired, who were protected and supported by their uncle, Richard duke of Normandy. Ricluard had even fitted out a fiect, on purpose to restore the English princes to the tlirone of their ancestors. In order, therefore, to break the storm, and to secure himsedf on that side, Canute paid his addresses to queen Emma, the duke's sistor, and the nuthef of these princes, who disputed his sway. He was listened to: Michard sent over Emma
to England ; where she was soon aftor married to Canute, the enemy of her former husband's fumily, and thé conqueror of that country which her children had a right to rule. But Canute promised that her children should still rule it ; though not the children of Ethelred ; and, although the English disapproved of the match, they were pleased to fiud at, court a sovereign to whom they were accustomed : so that the conqueror by this marriage, not only secured the alliance of Normandy, but acquired the confidence of his new subjects.

Having thus freed limself from the danger of a revolution, Canute determined, like a truly wise prince, by the equity of his administration, to reconcile the English yet farther to the Danish yoke. He sent back to their own country as many of his followers as could safely be spared ; he restored the Saxon customs ; he made no distinction between the Danes and Eaglish in the distribution of justice; and he took care, by a strict execution of law to protect the lives and properties of all his subjects. The Danes were gradually incorporated with the native English ; and both were glad to breathe a little from those multiplied calamities which the conquerors, no less than the conquered, had experienced in their struggle for dominion. The first use that Canute made of his tranquility was to visit Denmark, where he obtained a victory over the Swedes, by the valour of the English, under the command of earl Godwin, on whom he bestowed his daughter in marriage. In a second voyage to Denmark, he made himself master of Norway, and expelled the good Olaus from his kingdom.

Canute seems to have attained the height of his ambition; for, from this period, he appears not only to have laid aside all thoughts of future conquests, but to have held in contempt all the glories and pleasures of the world: a necessary consequence, of assiguing to human enjoyments a satisfiction which they cannot yield, and more especially of pursuing them at the expence of justice and humanity. During this change of mind it must have been that Canute, the greatest and most powerful prince of his time, being sovereign of Denmark, Norway, and England, put to the blush his flattering courtiers, who exclaimed in admiration of his grandeur, that every thing was possible for him. He ordered a chair to be brotght, and seated himself on the sea shore while the tide was rising: and as the waves approached, he said, in an imperious tone, "Thou sea! art under my dominion, and the land which I sit upon is mine : I elarge thee, approach no farther I nor dare to wet the feet of thy sovereign." He even sat some time in seetning expectation of submission : but as the sea still advanced towards him, and at last. began to wash him with its billows, he turned to his courtiers, and observed, that every creature in the universe is feeble and impotent ; and that power resides only with ONE Being, in whose hands are the elements of nature, and who can say to the Ocean, "Thus far shalt thou go and no farther !". But although Canute, sick of worldly greatness, began to turn his eyes towards a future state of existence, the spirit which prevailed inthat uge unfortunately gave a wrong direction to his piety. Instead of making reparation to the persons whom he had injured by former acts of violence, be built churches, endowed inonasteries, and appointed prayers to be said for the souls of those who had fallent in baule against him ; nay, more meritorious than all the rest ! he undertook a pilgrin)
mage to Rome. After his return from Rome, Canute porformed nothing memorable, except an expodition against Malcolm, king of Scotland, whom he Fumbled.

He died in 1035 and left the crown of England ta his son Harold Hare-foot, by his first wife, Alfwen, daughter to the earl of Hampshire, in prejudice of Hardicanute, his son by queen Emma, to whom he had promised the succession. Harold reigned only four years ; he was succeeded by his brother Hardicanute, whose reign was still shorter. Neither of these 'princes had any qualities that merit attention, nor did any thing memo-rable happen during their reigns. It will, therefore, be sufficient to observe, that on the death of Hardicanute, who fell a sacrifice to his brutal intemperance, the English shook off the Danish yoke, and recalled from Normandy Edward, son of Ethelred and Emma, surnamed the Confessor, to the throne of his ancestors.
This revolution was effected without bloodshed; and the mild and equitable government of Edward soon reconciled the Danes, no less than the English, to his sway. The distinction between the two nations vanished; but the English in vain flattered themselves, that they were for ever delivered from foreign masters; a little time convinced them that the evil was rather suspended than removed. Edward had been educated in Normandy; and having contracted many intimacies with the natives of that country, as well as an affection for their manners, the court of England was soon filled with Normans, who were distinguished by the royal favour, and had great influence in the national councils. He had also, it appears, though merried to a beautiful woman, made an indiscreet vow of virginity, which rendered his bed sterile, but ohtained to him from the monks the title of Saint and Confessor: and he had given his kinsman, Willian duke of Normandy, hopes of succeeding to the English crown. What use that enterprising prince made of his promise, real or pretended, we shall afterwards have occasion to see. In the mean time the English, and particularly earl Godwin, the most powerful nobleman in the kingdom, and who liad-hopes of exalting his own son to the throne, became jealous of the preference shewn to foreigners, and openly revolted. The rebels were reduced: the estates of Godwin and his son were confiscated; and they were obliged to flee the realm. But they soon after returned, and reduced the king to conditions, the most considerable of which was, that all foreigners should be banished the kingdom. Godvin's death, which bappened shortly after this treaty, prevented him from establishing that authority which he had acquired at the expence of the crown. But his son Harold, who succeeded him in his estates and offices, and who with an ambition equal to his father's, was superior to him in address and insinuation, proved no less dangerous to the unsuspecting and unwarlike E.dward, whose confidence he had obtained: and the death of Siward, duke of Northumberland, while itenfeebled the royal authority, gave still more consequence to the ambitious Harold. Siward, beside his loyalty and exploits in behalf of the erown, had ucquired honour to England by his successful conduct in the only foreign enterprise undertaken during this reign : and as it is connected with a memorable circumstance in the history of a neighbouring kingdom, as well as with the intrigues of Harold, it doubly deserves our attention. Duncan, king of Scotland, a prince of a gentle dis-
position, and some talents, but not possessed of a sufficient vigour to govern a turbulent nation, distractod by the animosities of the great, had laid himself open to the designs of Macbeth, a powerful nobleman, nearly allied to the crowa; and who, not contented with corbing the king's authority, carried yet farther his traiterous ambition. He, inurdered bis sovereign, usurped the crown, and chased Malcolm Kenmure, the prince and heir, into. England. Siward, whose daughter was married to Duncan, undertook, by Edward's orders, the protection of this unhappy family. He marched an army into Scotland, defeated and killed Macbeth in battle, and restored Malcolin to the throne of his ancestors. This service, added to his former connections with the royal fimily of Scotland, brought great accession to the authority of Siward in the North, and evabled him to be highly useful to Edward, in restraining the ambition of Godwin and bis-powerful family ; but as he had lost his eldest son Osborn in the action with Macbeth, it proved eventually fatal to his house, and hurtful to the crowis. The duke's second son Woltheof, appeared too young, on his father's death, to be entrusted with the government of Northumberland, and Harold's influence obtained that dukedom for Tosti his owu brother. There are two anecdotes related of Siward, which strongly mark his character, and are eminently expressive of that enthusiasm of valour long so predominant in the house of Northumberland. When informed of his son Osborn's death, he was at first inconsolable: but enquiring how he fell, and being told that he behased with great gallantry, and that his wound was in the breast, the feelings of the father seemed lost in thase of the soldier: his grief was transformed into joy. "Would to God," exclaimed be, "that I had as many sons as I have hairs, that I might lose them thus." And when he found his own death approaching, he ordered himself to be clothed in a suit of complete armour; and sitting erect on a couch, with a spear in his hand; "In this posture," said he, "the only one worthy of a warrior, I will meet the tyrant : if I cannot conquer, I shall at least face the combat." Tosti behaved so tyranically in his government of Northumberland, that the people rose against him, and expelled him by force of arms: a circumstance which contributed much tohis brother's aggrandizement. Harold was appointed by the king to punish the Northumbrians, and advanced with an army for that parpose; but being met by a deputation from Morcar, who had been elected duke, and finding that Tosti had acted in a manner unworthy of his station, he returned to the king, and generously persuaded him not only to pardon the rebels, but even to confirm Mercar in the dukedom. He afterward married the sister of that nobleunan, and got her younger brother, Edwin, elected into the government of Mercia. He also undertook an expedition against the Welch, whom he obliged to receive English governors. By these political, and fortunate steps, Harold soon found himself in a condition openly to aspire at the succession to the crown. He had gained the affections of his countrymen by his lenity to the Northumbrians; he had raised their admiration of his valour, by his conquest of Wales ; and so great was his influence that he laid almost all England under the command of himself or his friends. His competitors for the succession were Edgar Atheling, the sole surviving heir to the crown, who had been recalled from Hungary, and William duke of

Normandy, the king's cousin. But the first was a youth whose imbecility was thought sufficient to set aside his claim, and the second a forcigner. Edward's prepossessions hindered him from supporting the pretensions of Harold, and his irresolution from securing the crown to the duke of Normandy, whom he secretly favoured: he theréfore died without appointing a successor, being worn out with age and infirmitics, ayd more anxious about obtaining a heavenly, than settling his earthly inheritance.
Edward the Confessor was the first who touched for the scrophula, hence denominated the Kings' evil. The opinion of his sunctity procured belief among the superstitious vulgar, to this mode of care : and his successors regazded it as a part of their royalty to support the same idea. The practice was first dropt by the prince of the house of Brunswick; who wisely considered, that such a pretension must be attended with ridicule in the cyes of all men of cultivated minds, and even become the scorn of an ealightened populace. Posterity are more indebted to this prince for the body of laws, which he compiled, and which, on account of their mildaess, were long dear to our ancestors.

Though Edward lef the suceession undecided, it did not continue so. Harold immediately stepped into the vacant throne ; und so well had he taken his measures, that his accession was attended with as little opposition and disturbance, as if he had succeeded by the most indisputable hereditary title. The right of Edgar Atheling was scarce ever mentioned, and still less the claim of the duke of Normandy : the whole nation seemed joyfully to swear allegiance to the new king. The first danger that Hp:old experienced was from abroad, and from his own brother. Tosti, when expelled the government of Northumberlaud, had submitted to a voluntary banishtment in Flanders : but no sooner was he informed of the accession of Harold, to whose fortunate ambition he considered himself to have fallen a sacrifice, than he entered into a league with Halfagar king of Norway, who invaded Eagland with a flect of three hundred sail. Tosti himself had collected about sixty vessels in the ports of Flanders, with which he put to sea, and after committing some depredations on the south and east coasts of Eugland, he sailed to Northumberland, where he was joined by Halfager and his powerfal armament. The, combined fleets disembarked their troops at the mouth of the Humber ; and the carls: of Northumberland and Mercia were defeated in attempting to oppose the invaders. Harold was no sooner informed of this disaster than he hastened to the North; anx-1 ious for the safety of his people, and ambitions to shew himself worthy of that crown. which had been conferred upon him by bis countrymen. The English flocked from all quarters to his standard : so that he found himself in acondition to give battle to his enemies, as soon as hereached them, The two armies engaged at Stanford. The action, which was long und bloady ultimately terminated in the total rout of the Danes, and in the death of Tosti and Halfager.
Harold however, had' scarce time to rejoice on account of this vietory, before he received intelligenes that the duke of Normandy, having landed with a formidable force in the South of Exgland, determined to dispute with him the crown. The Norman priuce founded his claim to the English crown on a pretended will of Edward the Confessortin his favour. This elaim be fortifed with an oath extorted from Harold when suipwrecked
on the coast of France that he would never aspire to the succession, and by which he bound him-elf to support the pretensions of William. The will Harold knew was void of foundation, and the oath he totally disregarded, as it had not only been drawn from bimi by the fear of violence, hut was in itself unlanful; unless William had not only been appointed successor by the king, but chosen by the people; the English crown not being at the disposal of the sovereign. He therefore replied to the Norman amb assadors, who summoned him to resign the kingdom, that he was determined strenuously to maintain those national liberties with which he had been intrusted, and that the same moment should put a period to bis life and his sway. This answer was no other than what William expected. He knew the valour of Harold, and the power of the English nation; but he consulted only his ambition and his courage, The boldness of the enterprize he thought would astonish the enemy, and inspire his soldiers with resolution from despair, as well as from a desire of supporting the reputation of their countrymen; who had about this time revivct their antient fame, as we slall afterward have occasion to see, by the most hazardous exploits, and the most wonderful successes in the other extremity of Europe. Nor were these the only foundation of William's hopes. A military spirit had universally dillised itself over Europe; and the feudal nobles, whosa minds were elated by their princely situation, greedily embraced the most hazardous enterprizes, how little sowver they might be interested in the failure or success. Hence their passion for chivalry and their ambition to outshine each other in exertion of strength or prowess. William had long beeu distinguished among those haughty chieftains by his power, courage, and his address in all military exercises ; and every one ambitious of acquiring renown in arms, repaired to the court of Normandy, where they were entertained with that hospitality and courtesy which distinguished the age. The fame of the intended invasion of England had been every where diffused : the more perilous the attempt appeared, the more it suited the genios of the times : multitudes of adventurers therefore crowded to tender their services to William, impatient to acquire fame under so renowned a leader, or to support by new acts of valour, that reputation which they had already gained; so that the duke's army consisted of the flower of all the warriors of the, continent, determined to die or to conquer. The continental monarchs could surely have abstructed thesc supplies. But Philip I. of France, whose interest most it was, being a minor, Baldwin, earl of Flanders, William's father-in-law, who then held the reins of goverument, favoured the duke's levies both in France and Flanders ; and the emperor Henry IV, besides giving all his vassals leave to embark in this expedition, which so much engaged the attention of Europe, promised his protection to the duchy of Normandy daring the absence of the duke, and thereby enahled him to draw his whote strength to the attach of England. But William's most important ally was pope Alexander 11. who had a mighty influence over the warriors of that age; and who, besides being flattered by an appeal which William had male to the court of Rome in favoor of his undertaking, at a time when this pontif wanted to be the arbiter of princes, forcsaw that if the French and Norman armies were successfal in their enterprizes they would import into Engfand, yhich stilt mantained some degree of independence in ecVol. 1.

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## BRITAIN.

elesiastical matters, a more devoted reverence to the Holy Sce. He therefore declared immediately in favour of William's claim : pronounced excommunication against Harold and his adherents, and in order more particularly to encourage the duke, he sent him a consecrated bamer, and a ring with one of St. Peter's hairs in it. Thus, all the ambition and violence of this invasion were covered safely over with the broad mantle of pretended religion.
Thie Norman fleet, which consisted ot 500 vescels, great and small, and carried an army of 60,000 men, selected by William from those numerous supples that courted his service, had been assembled early in the summer, und put to sea soon after : but being long detained by contrary winds, the troops began to imagine that hieaven had declared against them, and that, notwithstanding the pope's benediction, they were destined to destruction. The wind, bowever, fortunately changed on the eve of the feast of St. Michael, the tutelar saint of Normandy; and the soldiers and their bold leader, who had an equil contempt of real, and a dread of imaginary dangers, fancying they saw the hand of providence in the cause of their former terrons, set out with the greatest alacrity, and safely arrived at Peresey in Susex ; where the troops quietly disembarked. The duke himself thid the misfortune to fath, ws he teaped astiore; a circumstance, Which consisdering the superstition of the times, might have been construed to his disadvantage, but which he had the presence of mind to turn in his favour, by calling aloud," I have raken passession of England !" and a soldier, runcing to a neighbouring cottage, plucked some thatel, which he presented to his general, as giving him seisin of the kingdom. The confidence of William and his followers was now so great, that when they heard even of Harold's victory over the Danes, instead of being discouraged they seemed only to long, with more impatience, for the arrival of the English army. They had not long oecastion to wait. Harodd was at York when he received intelligence of the Norman invasion, and hastened by quick marches to meet his competitor. But on reviewing his forces, he found them much diminished, though he had been reinforeed with fresh troops from London and other places. His victory proved his ruin: many of his bravest officers, and veteran soldiers, fell in the action; some returned from fatigue, and others secretly withdrew from discontent, because he had refused to dis tribute the Danish spoils among them: a conduct little suited to his usual generosity of temper, and which can only be accounted for from a desire of easing his people in the war that hung over them from Normandy, and which be foresarr must be attended with great expence. From these and other circumstances, Gurth the king's brother, a man of bravery and conduct, began to eatertain appreheasions of the event; and represented to the king, that it would be better policy to prolong the war than to risk a general action, us the widter was approacling, when the enemy would suffier many hardsliips, while the English, better sheltered, and becoming every day more incensed against their invaders, would hasten from all quarters to his assistauce, and render his nomy invinible ; of, if he thought it necessary to hazard a battle, he ought at feast not to expose his per-on, that some resource might still be left for the liberty and independency of the kingdom. But Harold, deaf to all these arguments, rejected his bro-

## BRITAIN.

ther's advice with disdain, and elated with past prosperity, as well as stimulated by his native courage, replied, that he would give battle in person, and couvince his subjects, that he was worthy of the crown which thicy had set unon his head. With this resolntion he drew near to the Normans, who had removed their camp to Hastings: IIe was even so confident of success, that he sent a message to the duke of Normandy, offering him a sum of money, if he would depart the kingdom without effusion of blood; and William, not to be behind him in vaunting, commanded him to resign the crown of England, to subinit their cause to the arbitration of the pope, or to fight him in single combat. Harold replied; that the God of battles would soon be the arbiter of whl their differences. Both armies now impatiently expected the awful decision; but night drawing on, it was deferred till morning. Daring this interval of darkness and suspence, the scene was very different in the two camps : the Euglish spent the night in riot and feasting; the Normans, in prayer and preparations for battle. As soon as day began to appear, the dake assembled his principal officers, and made them a speech suitable to the occasion. He next divided his army into three lines: the first consisted of archers and light-armed infintry ; the second was composed of his bravest battalions, heavy armed, and ranged in close order; the cavalry, at the head of which Willam placed himself, formed the third line, and was so disposed, that they stretehed beyond the infantry, and flanked each wing of the army. He commanded the signal to be given ; and the whole army, moving at once, and singing the celebrated song of Rowland, the fabulous nephew, but renowned captain of Charlemagne, advanced in order of batte. Harold, whose army was inferior to William's in number as well as in discipline, had seized the advaniage of a rising ground ; and having drawn some trenches to secure his tlanks, seemed inclined to act upon the defensive, and to avoid all encounter with the Norman cavalry, to which his strength in horse was very unequal. The Kentish men were placed in the front, a post which they always claimed as their due : the Londoners gaarded the standard; and the king, dismounting, placed bimself in the centre, at the head of his infantry, expressing his resolution to conquer or die. The first attack of the Norman foot was terrible: their archers sorely galled their adversaries ; and, as the Englisn ranks were close, the arrows did great execution. But Harold's army received the shock of the enemy undismayed; and after a furious strug gle, which long remained undecided, the Normans began to give ground. Confusion was spreading from rank to rank; when William, who found himself on the brink of rum, hastened with a select band to the relief of his broken forces. His presence restored the battle. The English were obliged to retire in their turn; but the dake finding they still made a vigorous resistance, aided by the advantage of ground, and animated by the exatuple of their valiant prince, ordered his troops to make a hasty retreat, and allure their antagonists from their station by the appearance of flight. The artifice succeeded. Impelled by the enthusiasm of valour and the heat of action, the troops of Harold precipitately followed the Normans into the plain; while William instructed his infantry at once to face about on their pursuers, and the cavalry to make an assault upon their wings. The English were thrown into disorder, and driven back
with loss to the hill; where being rallied by the generalship of Harold, they 'were again able to maintain the combat. William tried the same stratagem a second time, and with equal success. Yet he still found a large body of English forces that remained firm around their prince, and seemed determined to dispute the field to the last min ; when fortune decided a victory, which valour lad left doubtful. Harold, who had fought with unspeakable courage and personal prowess from diwn until eve, was shot into the brains with an arrow, while bravely defending the royal standard at the head of his guards. His two gallant brothers, Gurth and Leofwin, also were slain ; and the English army, dispirited by the loss of its leaders, gave way on all sides, and was pursued with great slaughter by the victorious Normans,

As the death of Harold placed a new race of princes on the throne, and jutroduced the language and laws of Normandy, it will not be improper in this place to examine the nature of the Anglo-Saxon government, which was completely overturned by this sudden and surprising revolution.

The Saxons, on their settlement in Britain, did not establish the same form of government with the other northern nations that seized the provinces of the Roman empire; but as they rather exterminated than subdued the natives, and were under few apprehensions from foreign enemies, they had no occasion to burden themselves with feudal services. They therefore retained eutire their civil and military institutions: they transplanted into this Island those principles of liberty and independency which they had so highly cherished at home, which had been transmitted to them from their ancestors, and which still continue to flourish among their descendants. Their original constitution was a kind of military demoeracy, in which the protection of the state was the voluntary care of its members, as every free man had a share in the government; and conquest was the interest of all, as all partook in the acquisitions. Their king, or chief, was only the first citizen of the community : his authority was extremely limited, and depended, as did his station, principally on his personal qualities. The succession was neither elective nor hereditary. A son who inherited his father's virtues and talents was sure to succeed to his sway; but if he happened to be weak, wicked, or under age, the next in blood was generally raised to the throne, or the person of most eminence in the state.

We owe to the masterly pen of Tacitus this account of the primitive government of the Saxons, who were a tribe of the antient Cimbri. Unfortunatly the Saxon annals are too imperfect to enable us to delineate exactly the prerogatives of the crown, and the privileges of the people, after their settlement in Britain: the goverument might be somewhat different in the different kingdoms of the Heptarchy, and mightalso undergo several changes before the Norman conquest; but of those changes we are in a great measure ignorant. We only know, that at all times, and in wll the kingdoms, there was a national councit, a Wittenagemot, or assembly of the wise men, whose consent was necessary to the enaction of laws, and to give sanction to the measures of public adminstration. Dut who the constituent members of that asseubly were has not hitherto been determined with certainty. The most probable conjecture however seems
to be, that it consisted of the nobility, dignified clergy, and all free-holders posscssing a certain portion of land. The Saxons were dividedinto three orders of men ; the nobles, the, free, and the servile. These distinctions they bronght into Britain with them. The nobles were called thanes, and were of two kinds, the greater and the lesser thanes. The latter seem to have had some dependence on the former, as the former had on the king, but of what nature is uncertain. The lower kind of freemen among the Saxons were denominated ceorles, and were chiefly employed in husbandry ; whence a husbandman and a ceorle came to be synonymous terms. They farmed the lands of the nobility or higher orders, and appear to have been removable at pleasure. But the slaves, or villains, were by much the most numerous class in the community; and being the property of their masters, were consequently incapable of holding any property themselves. They were of two kinds: household slaves, after the manner of the antients; and rustic slaves, who were sold and transferred, like cattle, with the soil. The long wars between the Saxons and the Britons, and afterwards between the different kingdoms of the Heptarchy, seem to have been the cause of the disproportionate number of these unhappy men; for prisoners taken in battle were reduced to slavery by the laws of war, and entirely at the disposal of their masters.
The higher nobility and dignified clergy among the Anglo-Saxons, possessed a oriminal jurisdiction within their own territories, and could punish without appeal such as they judged worthy of death. This was a dangerous privilege, and liable to the greatest abase. But although the Anglo-Saxon government seems at last to have become in some measure aristocratical, there were still considerable remains of the an-1 tient democracy. All the freeholders assembled twice a year in the county courts, or Shiremotes, to receive appeals from the inferior courts ; a practice.well calculated for the preservation of general liberty, and for restraining the exorbitant power of the nobles. In these courts they decided all causes ecclesiastical as well as civil, the bishop and aldermmn, or earl, presiding over them. The case was determined by a majority of voices, without much pleading, formality or delay; the bishop and earl having no farther aathority than to keep order among the frecholders, and offer their advice when necessary. Though it should therefore be granted, that the Wittenagemot was composed entircly of the greater thanes and dignified clergy, yet in a government where few taxes were imposed by the legislature, and few statutes enacted; where the nation was less governed by laws than by customs, which allowed much latitude of interpretation; the county courts where all the freeholders were admitted, and which regulated all the daily occurrenees of life, formed a wide basis for freedom.

The criminal laws of the Anglo-Saxons, as of most barbarous nations, twere uncommonly mild; a compensation in money being sufficient for murder of any species, and for the lite of persons of any rank, not exeepting the king and the archbishop, whose head by the laws of Kent, was estimated higher than the king's. The price of all kinds of wounds was also settled: and be who was catught in adultery with his neighbour's wife, was ordered by the laws of Ethelbert to pay him a fine, and buy him another wife ; a proof, though somewhat equivocal, of the estimation in which women were then held.

Thie punishments for robbery were various, but none of them capital. If any person could track his stolen cattle into another's ground, the owner of the ground was obliged to shew their track out of it, or pay the value of the cattle.

But if the punishments for crimes among the Anglo-Saxons were singular, their proofs were no less so. When any controversy about a fact was too intricate for their ignorant judges to unravel, they had recourse to what they called the judgment of God; or in other words, to chance. Their modes of consulting that blind divinity were various, but the most common was the ordeal. This method of trial was practised either by boiling water or red-hot iron. The water or iron was consecrated by many prayers, masses, fastings, and exorcisms ; after which the person accused either took up with his naked hand, a stone sunk in the water to a certain depth, or carried the iron to a certain distance. The hand was immediately wrapped up, and the covering sealed for three days; and if on examining it there appeared no marks of burning, or scalding, the person accused was pronounced innocent; if otherwise, was declared guilty. The same kinds of proofs, or others equally extravagant, obtained among all the nations on the continent ; and money, in like manner, was every where the atonement for guilt, both in a civil and ecclesiastical sense.

Though the affairs of the Scots were frequently intermixed with those of the AngloSaxons, and therefore partly related in the preceding pages, it may not be improper to give some concise view of their history, according to their own writers; since during this period it begins to have a little claim to authenticity. The Scotish historians, represent their ancestors as being totally defeated in a battle with Maximus the murderer of Valentinian the third. Their king Eugene was slain with the greater part of his nobility; and such of their countrymen as escaped the sword, were totally expelled from the island. Some of them took refuge in the Hebrides, and some in Scandinavia and Ireland, from whence they made frequent descents upon Scotland.

The Picts who were now in alliance with the Romans were at first mightily pleased with the victory they bad gained over their antagonists ; but being commanded to adopt the laws of the Romans, and to choose no king who was not sent them from Rome, they began to repent of their having contributed to the expulsion of the Scots; and in the year 491, when Autulphus king of the Goths sent over a body of exiled Scots to Britain under Fergus, a descendant of the royal family of Scotland, the Piets instantly joined them against the common enemy. The consequence of this was the Britons were pushed to the last extremity, and obliged to implore the assistance of the Saxons. When the Saxons became the enemies of the Britons, the Scots joined in a strict alliance with the latter ; and the famous king Authur is said to have been assisted by the Scots in all his battes with the Saxons : neither does it appear that this league was ever dissolved again, flough the united efforts of the Scots and Britons were not sufficient to preserve the independency of the latter.

The next remarkable event in the history of Scotland is the war with the Piets, whick: took place in the ninth century. The occasion of the quarrel was, that Dongal king of Scotland pretended a right to the Pictish throne ; which, however, was rejected by the

Picts ; upon which both parties had recourse to arms ; but when every thing was ready for the campaign, Dongal was drowned in crossing the river Spay.

At this time the dominions of the Scots comprehended the western islands, together with the counties of Argyle, Knapdale, Kyle, Kintyre, Lochaber, and a part of Breadalbane; while the Picts possessed all the rest of Scotland, and part of Northumberland; so that the Piets seem to have been by much the most powerful people of the two. However, the Scots appear to have been superior in military skill; for Alpin, the suecessor of Dongal, having engaged the Pictish army near Forfar, after an obstinate engagement defeated them, and killed their king, though not without the loss of a great number of his own men. The Picts chose Brudus, the son of their former king, to succeed him ; but soon after deposed and put him to death, on account of bis stupidity and indolence: His brother Kenneth shared the same fate on account of his cowardice ; till at last another Brudus, a brave and spirited prince ascended the throne. Having raised a powerful army, he began with offering terms of peace to the Scots; which, however, Alpin rejected, and insisted upon a total surrender of his crown. Brudus on this endeavoured. to procure the assistance of Edwin king of Northumberland. Edwin accepted the money; but pretending to be engaged in other wars, he refused the assistance which he at first promised. Brudus, not dismayed by this disappointment, marched resolutely against his enemies; and the two armies came to an engagement near Dundee. The superior skill of the Scots in military affairs was about to have decided the vietory in their favour. when Brudus bethought himself of the following stratagem to preserve his army from destruction. He caused all the attendants, and even the women who attended his army to assemble and show themselves at a distance as a powerful reinforcement coming to the Picts. This struck the Scots with such a panic, that all the efforts of Alpin could not recover them ; and they were accordingly defeated with great slaughter. Alpin himself was taken prisoner, and soou after beheaded by order of the conqueror. This execution happened at a place now called Pit-alpy, but in former times Bas-alpin, which in the Galic language signifies the death of Alpin. His head was afterwards stuck upon a pole, and exposed on a wall.

Alpin was succeeded by his son Kenneth II. who being a brave and enterprising prince, resolved to take a most severe revenge for his father's death. The dispirited Scots were exccedingly averse to any renewal of the war; while, on the other hand, the Picts were so much elated, that they male' a law by which it became death for any man to propose peace with the Scots, whom they resolved to exterminate ; and some of the nobility were expelled the council on account of their opposition to this law. The consequence of this was, that civil dissensions took place among them, aud a bloody battle wasfought between the opposite parties, before the Scots had thought of making any further resistance.

By these distractions Brudus, who had in vain endeavoured to appease them, was 50 much affected, that he died of grief; and was sueceeded by his brother Drusken. The new prince also failed in his endeavours to accommodate the civil differences ; so that the Scots, by gaining so much respite, at last began to recover from their consternation ;
and some of thom liaving ventured into the Pietish territories, carried off Alpin's fiead from the capital of their dominions, supposed to have been Abernethy. In the mean time, Kenneth found means to gnin over the nobility to his side by the following stratagem ; which, however ridiculous, is not incredible, if we consider the barbarishin and superstition of that age. Having invited then to an entertainment the king introdu ced into the luifl whice they slept, a person clothed in a robe made of the skins of fishes, which made such a laminous appearance in the dark, that it was mistaken for an angel or some supernatural messenger. To add to the terror of those who saw him, he denounced, thiough a speaking trumpet, the most terrible jadgewents, if war was not immediakely declared against the Piets the murderers of the late king. In eonsequence of this eelestial admonition, war whas immediately renened with great vigour. The Picts were not deficient in their preparations, and had nowy procurod some assistance from Eugland. The first thattle was foughenear Stirling ; where the Picts, being deserted by their Englishanxiliaries, were utterly defeated. Drasken escaped by the swiftness of this horse, and a few days after made application to Kenneth for a cessation of hostilities ; but as the Scottish monarch demanded a surreuder of afl the Pictish dominions, the treaty was instantly broken off. Kennett pursued his good fortunc, and conquered the counties, of Merns, Angus, and Pife ; but as he marched against Stirling, he'received intelligence that these counties had again revolted, and cut off all the garrisons which the had left, and that Drusken wis at the head of a considerable army in these parts. On this Kenneth hasteacd to oppose him, and a negotiation again took place. The resuit was equally unfavourable with the rest, Kenneth insisted on an absolute surrender of the counties of Vife, Merns, and Angus; which being refused, both parties prepared for a decisive battle. The engagement was yery bloody and desperate, the Piets fighting like mien in despair. Drasken renewed the battle seven times ; and at last was entirely defeated and killed, and the counties in dispute beenme the immediato property of the conqueror.

Kenneth did not fail to improve his victory, by reducing the rest of the Pietish territories; which he is said to have done with the greatest cruclty, and even to have totully exterminated the inhabitants. The eapital, called Camelen, (supposed to have been Aberncthy, ) held out four months; but was at last taken tyy surprise, and every living creature destroyed. This was followed by the reduction of the Maiden Castle, now that of Edinburgh; which was abandoned by the garrison, who fled to Northumberland.

After the reduction of these important places, the rest of the country made no great resistance, and Kenneth became master of all the kingdom of Scotland in the present extent of the word; so that he is justly to be esteemed the true founder of the Seottish monarchy. Besides this war with the Piets, Kenneth is said to have been very successful against the Saxons, though of thone wars we have very little account. Having reigned 16 years in peace after his subjugation of the Piets, and composed a cote of laws: for the good of his people, Kenneth died of a fistula, at Fort Teviot, near Duplinn in Perthshire. Before his time the seat of the Scots government had been in Argyleshire;
but bic removed it to Scoue, by transferring thither the famous black stone suppesed to be the palladium of Scotlind, and which was afterwards carried oft by Edward I. of England, and lodged in Westminster Abbey,

Reinneth was suceceded by lis brother Doanld, who is represented as a man of the Yorst clurracter; so that the remaining Picts, who hiad fled out of Scotland were encouraged to apply to the Saxons for assistance, promising to make Scotland tributary to the Saxon power after it should be conquered. This proposal was nacepted ; and the confederates invaded Scolland witha powerful arnay, and took the town of Berwick; however, they were soon after defrazed by Donald, whotook also their ships and provisions. This rapture proved their ruin; for some of the ships being laden with wine, the Scots indulged themselves so much with that liquor, that they became incapuble of defending themselves; the consequence of this was, that the confederates rallying their troops attacked them in that state of intoxication. The Scots were defeated With excessive slaughter; 20,000 of the eommon soldichs lay dead on the spot; the king and his prineipal nobility were taken prisoners; and all the country from the Tweed to the Forth becamo the property of the conquerors. Stitt, however, the confederates found thomselves unable to pursue their victory farther; and a peace was concluded on condition that the Saxohs should become masters of all the conquered conntry. Thus the Forth and Clyde hecame the southern boundaries of the Scotish dominions, It was agreed that the Forkh should from that time forward be called the Scots sea ; and it was made capital for any Scotsman to set his foot ou English ground. They were to erect no forts dear the English confines ; to pay un annual tribute of a thousahd pounds, and to give up 60 of the sons of their chief nobility as hostages. A mint was erected by the Saxon prinee named Osbreth, at Stirling; and a cross raised on the bridge at that place, with an inscription implying, that this place was the boumdary betiveen Scotland and England.

After the conclusion of this treaty, so humiliating to tho Scots, the Picts, finding that their interest had been entirely neglected, fled to Norway, while those who remained in England were massacred. Donald shared the common fite of unfortunate princes, being dethroned and shat up in prisou, where he at last put an cud to his own life in the year 838 .

Donald was succeeded by his nephew Constantine, the son of Kenneth Mac Alpin, in whose regign Scotland was firyt invaded by the Danes, who proved such formidable eaemies to the Englist. This invasion is said to bave Licen occasioned by fome exited Picts-who fled to Denmark, where they prevailed upon the king of that country to send his two broshers, Hungar and Hubba, to recover the Pictish dominions frotn Constantine These princes landed on the coast of Fife, where they committed the most horrid barbirities, not sparing even the ecelesiastics who had taken refuge in the island of May at the mouth of the Forth. Constantine defeated one of the Dunish armies cons"minanded by Flubbih, near the water of Leven : hut was hinself defeated and taken pris) iner by Hungar, who caused tim to be beheaded at a place called the Devil's cave, in the year 824.


Thite unfortonameaction cost the Scots 10, oon men : but the Danes seem not to have purchased tieir victory very catily, it they were obliged immedintely aftenwards to abandou thoir couguests and cetiec to tlieif oisn country. However, the many Danish monuments that arc still to be seen in Fifc, leave no room to doubt- that many, bloody scones bave been acted here betiveen the Scots and Danes, besides that abover mentioned.
(G7hege, wars tefacen the Danes and Scots, were carried oid with but lithe internission tal the tiume w D Doncan the firs, who suceended hith grabdfather Mailcolin in thie year 100if. Hivity suppressed an insurrection which beoke forth id the loginning of his
 harved under him, to oppise thie Danes, who fiad landed in Fife. The Danes trene cormmanded, by Sweyn king of Norway, anid eldet fon of Cunvta. IIf proceedel with alf the barbarity natural to his nation, patting to death unch, yomen, wid chit Iren thio fell in hijp whin. A battle wits foughe beticen the cwo nutions near Culfois, in which the Seots wero definted; but the Dases purelased their yietory so deaily, that thicy could not improve it; and Duncun relreuted to Porth, wlife Macbeth was sent to raise moreforcer. In the mean time Sireyn thid siege to Perth, which weas defended by Duncmi unt Bruquo. The Daties wrero so much detressed for want of provisions, that they at lat consented to treat for peace, provided thee prosing neecesities of the arnily were reliceved. The Seots historians inform is, thiat this treaty nas set on foot in order to amuse Sweyn, and gain time for tho stratagom which Duncan wif preparilig This was no oftict than a batbarous cointivitice of fufusigg intoxicating herbs into the liguors that were sont along with the ovier provisious to the Danish camp. These soporifics had their intended effect; and white the Dawes - were under their influence, Macbeth and Banquo broke ioto the camp, where they put alt to thio sivord, nid it was with diffeculty that some of Sireyn's attendants carricd him on board: and wre are told that his was the only ship of all the fleer that returned to Norway. It was not long, liowever, before-a fresh body of Dames landed at Kinghorn in the county of Fife; but they were entirely defeated by Mricherth ond Brictio.
Such of the Danes as escaped fled to their ships; but before they dopiaffed licy obtained Ieave to hary their dead in Iacheolm, a swall island lying in -he Forth, where one of their monuments is still to be secn.
Thus ended the formidable invasions of the Đanes; atter which Puncin applici Himseif to the administration of justrec, and the reformiation of the mamiers of hifis subjects These designs were however rendered abortive by the murder of Duacin, the isurpation of Macteth, und the civil conmotions which succeeded. Madeotm, who iras raised to the throue by the English valour, as we lave alreedy described, wasth Jang of Scotland at the time of the Norman invasion.

The illand during this period may be considered as divided into the same threo prosinces which are now denominased Seotland, lingland, and Wales, The' first of these appears to thive been inthitited by threc or perthaps four oi deen fixc disfifict rices of men, the three principal tribes by whom we lnow that this country was in-

## BRITAIN:

liahited, were the Picts and Seots, whinee limits have been airendy degcribed, int then Anglo-Sixous, who oecupher all to the south of the Frith of Forth. With the tro fonmer of these were undoubtedly uingled some British refugees, who fled northwat to escrape tho fury of theis conquerons, as well as many af the posterity of the Damits invaders, Thie Scots appenir to have becm cariy instricect in tha christim reljgon and to linve produced during this period seyeral ecolesiastics of eminept learning and piety. who firmly upposed many chicpachments of tha Roman bishopsh and laboured for the converion of their Saxon neighbours with assiduity and success.

The Picts wano instracted by St. Cutumtin, who is satd to have arcived foom Ircland in the year 505, to tase placed his principal residence in the istand of loun and there ta have establised an abbey and a university, which was long resorted to by the religious of many nations, and considered as the centre of the celebrated Cuddees. Those Culdees were a sort of monkish priests, formerly inhibiting Scothand and Ireland. Being remarkable for the religiods exercises of preaching and praying, they were called, by way of cminence, cultores Dei; i. e wasmipers of God, frou whotuce is derived the word culdecs. They made thoice of one of their own fraternity to be their spiritual head, who uas afterwards called the Scots bishop.
The Bcitons, previous to tue invasion of tho Saxous, are said to have been much degenerated from the piety of the primitive christians, and to have been sunk, both clergy and laity, in universal depravity: As, scourge for these evils, say the lifstorians of the times, the nation was so much dippoputited by is dreaditi pestitetace, that those who survived were scarcely sufficient ta bury the dead. Persisting in their vices notwithstanding this terrible calamity, they were punished with one still more awfol at the invasion of the Saxons; the wible istand, from sca 10 sca, seemed to be one conitived contlagrtion : bouses, publie buildings, and temples were buried in their ourn ruins; the priets were murilered on the attars; the bithop and his flock perished in oue promiscuous lates some were driven to the mountaias, and there massacred with the greatest barbarity ind their bodies exposed without interment. Those who at first escaped the barlyarity of ifie Saxpis, woro obliged to leave their fastoesses by famine, and subrat to thowil of the victors, whife others, who drended their fory and scorned theip scrvice, abandoned their country, and fled into foreign parts for refuge.

After the Britons had retired to Walcs fiey seem to have been roused from their former state of tuxury mud stoth; they cultivated tearning at the semmaries of Bangor and Landafl; tield several counels for the regulation of religious concerus; submitiod with reluctarice to the impositions of Rome, but at tho same, time rested contented with their own acquantance with religion, without seeking to disseminate the blessings of the Gospct among the umeuhivated, cruel, and oppressive Sa xons

Oór Saxon ancestors, were chiefly indelated for their convertion to the labours of certaln Scotish misstonaries, ne well us to those of Augustine and his companions. EthelBert king of keat, who reegnei invie sislly century, wis married to a chistian quecn of excuiplary piety. Stic so fil recoumented her religion to her husband by her conduct, as to previli on fim 10 - iffor is intraduction into bhis kingdom, Application baving

## BHITAIN

been tuade to pope Gregory, he deputed Augastine for this great work, who wat joived in Frauce by several Freach missionaries aequainted with the Eaglish rongue, and thereby capable of facilitating his design, He found on his arrivil, the same superstition as lad long previled ainong the nortbern nations, and will be described when wo survey those parts of Europo in which it chiefly abounded. After a little time ho porsuaded Etbelbert to profess himself a christini, and saw the example of the monarch, eageily imitated by lis subjects.
The sees of Canterbury and Roccliciter were soon after foundect, ond in process of time the christian name wab assmed by all the other, yingdoms of the Heptarclys.

The religion of Jesus wat however, too much adhlterated thy papai superstition, to work an effectual reformation in the condact of men, The most deplorable ignorance reigned both nmong cler iy and laity; tho great were trught thitt founding chorches and monasteries, would expiate the most atrocious crimes: while the poor sought salvation by the observance of unmeining cercmonics, and astupid assent to all the dogmas of their teachers. These times, liowever, producod three extraordinary men, whose
 Gildas, the British historian ; the vencrable Bede, an excmplary Saxon abbot; and the great Alfred, whose reputation as a king, a scholar, and a cliritian, still shines undimioistied by the lapse of ting, or the excellencios which have adorhed the charicters of porte of his sutecossors. In his time this conntry bint consiteratife commereiaf finportance, contained many large trading towns, and a greater mumber of intabitants than could have beea expected in such a hostile and turbalent period. London, York, Bristol, Exeter, and Norwich were great and populous cities; and tho number of freemen habituated to the use of arms is supposicd to have been norvas ereat as Fingland in sueceeding times, hils ever brought into tho field.



## CHAPTER V:

## IRELAND

Situation andextent, divisions, face of the country, natural history, curiosities, tra ailionary history, Mr. Whitakers conjectures, continuation of the Irish history to the Einglish bivation.

Tho island of Ireland is situated on the west side of England, between $6^{3}$ and $10^{\circ}$ of west longitude, and between $51^{\circ}$ and $65^{\circ} 90^{\prime}$ north latitude, or between the middle parailel of the eighth clime, where the longest day is $16 \frac{1}{8}$ hours, and the of th parallel, or the end of the tenth clime, where the longest day is $17 \frac{1}{2}$ hours.

The extent or superficial content of this kingdom is, from the nearest computation or survey, found to bein length $28 s$ miles from Fourbend north, to Missenhead south ; and from the east part of Down, to the west part of Mayo, its greatest breadth 160 miles ; and to contain 11,067,712 Irish plantation acres, which makes $17,997,86 \ddagger$ ecres of English statute measure, and is hed to bear proportion to England and Wales as 18 to so. Mr. Teapleman, who makes the length 875 , and the breadts 150 miles, gives it an mra of 97,457 square miles, with 127 inhabitants to each. From the east part of Wexford to St. David's in Wales, itis reckoned 45 miles, but the passigg between Donaghadee and Port-Patrick in Scotland is little more than 90 miles, and the passage from Dublin to Holyhead in North Wales, about 59 miles,

The most corumon manmer of dividing of Ireland is into four provinces, Leinster, Ulster, Coannught, and Munter.
I. Ulster lies on the northis 68 ruiles long. 98 broad, and 460 in circumfercuce. It contuits $+496,-05$ acres, 365 parisbes; 29 borough, 55 , baronios, 58 market towas, 6 bishoprics, Raphoe, Clogher, Dromore, Kimore, Down, and Derry ; and one archbishopric, Armagh. In 1781 while the duke of Dorset was lord lieutenant, tho inhabitants of Treland were mumbered, ind there were found in this provinee $\$ 60,638$ protestants and 158,020 Catiolies. It contains thie nine following cotnties whose namber of houses vith the names of thicir principal towns are here annexed.

$\log$

Concrins.
3. Antuin

58
4 Tyzone.
5 Fermanagh.
6 Armagh,

7 Down

Nexpen of Hoüske. 60788

16545
5674
13124

26090

26637
8 Monagian

9 Civan.

IRIVLAND.

> Carrictergus, Belfast, Lisburn, Antrim, Randaltione, Ballymonigh, Ballycaste, Connor, Leorne, Balfymony.

Omagh, Dunganion, Augher, Strabanc Stew-ardstown, Clogher.
Enniskilhen, Newtomi, Cutler, Lisnesken, Clably, Maguireciridite:
Arruagh, Clarlemont, Lurgan, Portadow, Tanderagoe, Lougligall, Legacurry, or Rich-hill,
Dontplatrich, Nowry, Dromoce, Kelifeagh, Bangor, Newtown, Hilsborough, Magherelin, Moim, Donaghedee, Rathifrytand Warrentown.
Mrougghai, Glazougli, Clownish, Carvich macross, Castleblanicy.
Cavin, Kilmore, Belturbet, Cootebill Killyehandrt
II. Leinster lies in the east, and is 104 miles in lengti), 55 in breadth, and 860 in circumference, comprehending $4,281,155$ acres, it contains 858 parishes, 58 boroughss 99 baronies, 69 market towns, 4 bishopries, Kildare, Leighlin, Menth, and Ossory, and one archbishopric, that of Dublin. At the time of the above mentioned numeration 2osos7 of its inhabitunts were protestants, and 417,916 catholics. It coutains the tivelvo following counties.

## Countres Numbin or Hovees.

1 Louth.
2 EratMenth
3 West Meath:
4 Eongford.
${ }^{5}$ Dublin.
6 Kildare.

8150
14000
9928
$-6057$
24145
8887

## Curir Towss.

Drogbeda, Dundalk, Carlingford, Ardec, Duileen.
Trim, Kells, Athboy, Navam, Duleek, Ran toath, Ardbraccan.
Mullingar, Athlone Kelbeggan, Kinnegad, Fore.
Longford, Granard, Landsborough, Johnstown.
Dublin, Swords, Newcastle, Balruddery, Einglass Glasnevin. Naas, Ahy, Kildare, Castedermet, Kily. cullen, Rathangan, Killeock, Monaste? even.


## IRELAND.



Caria Towns.
Limerick, Killmallock, Askeaton, Rathkeal, Nerrcastle, Hospital, Bruff, Kilfinay.
Trales, Dingle, Iconch, Ardfer, Agliadae, Killaracy, Caste Island, Lixnaw, Itoivell.

Ennts, Killatoc, Bryansbidige, Kiltenoff Six-milebridge, Newmarket, Corresiil
IV. Connaught lies in the west of Ireland, is 90 iniles $10 n g$, 80 broad, and 500 in circumference. It contains $3,681,746$ tacres, 330 paristies, 10 boroughs, 48 baronite, S bishoprics, Clonfert, R1phim, and Killals, and one arehbishopific, Taam; in $1 \% 51$ it had 21,604 protestants and 981,780 catholics, and it contains the five following counties.

Cobstirs:

1. Galway.

If Roscommon:
3 Mayo.
4 Sligo.
5 Leitrim.

Nummen or Hovises.
15576
6780
15089
5970
3156

Cuntriowns:

> G ilway, Loughrea, Aticury, Tuan, Clenfert, Eyrecourt, footh

Roscommon, Abbybogte, Tulak, Elphin, Ballinasloe, Castereagh, Auhlane:
Castlelar, Ballinrobe, Foxford, Killala, Neuport, Ninola, Ballina.
Sligo, Coloony, Achonry, Letrim, Jametown, Carrick.

The numerous rivens, cnchanting lakes, spacious bays, commodious lavens, harbours and creeks, with which Ireland abounds, greatly earich and beautify this counitry. The Shannon issues from lough Allen, in the connty of leitrim, serves as a bounitary betveen Connumght and the three other provinces; and, after a course of 150 miles, forming in its progress many beautiful Jakes, fulls into the Atlantic Ocean, betisech Kerry-point and Loop-head, where it is nine miles broad, The navigation of thils river is interrupted by a ridgo of rocks spreading quite across it, south of Killatoe: but this might be remedied by a short canal, at the expense of 10 or 18,000 ; and communication might also be made with other tivers, to the great benetic of the nation. Tle Bain falls into the ocean near Coleraine; the Boyuc fails into St, Georges Channel at Drogheda, as toes the Lilfcy at the bay of Dublin, and is only, remarkatie for satering that capital, where it forms a spacious harbour. The Barrow, the No/ and the Suir, water the south part of the kingdom, and, after uniting their streams below Ross, fall into the Channel at Waterford-haven.

But the bays, havens, harbours, and creeks, which every where indent the coust, form the chief glory of Ireland, and render that country beyond any country in Europe best fitted for foreigo commeree. The most considerable tare those of Carrickfergis, Strangiord, Dundrum, Carlingford, Dundalk, Dablin, Waterford, Dungyrvan, Cock, Kinsale, Batimore, Glandore, Dumnamus, Bantry, Kermare, Dingle, Shannonmouth, Galway, Sligo, Donegall, Killebegs, Lough-Swilly, and Loughoyle.
freland contains a vast number of lakes, or, as they were formerly called, loughs, particularly in the proyinces of Ulister and Connaught. Many of them produce large quantities of fine fish ; and the great lake Neagh, between the counties of Antrim, Down, and Armagh, is remarkable for its petrifying quality. Some of the Irish lakes afford the most beautiful and romantic prospects, particularly that of Killarney, which takes its name from as small town ln the county of Kerry. This lake, which may be divided into three, is intirely surroumled vith mountains, rocks, and precipices, the immense declivities of which are covered with woods, intermixed with ever-greens, from near their tops to the lakes themselves; among which are a number of rivulets tumbling over the precipices, some from heights of litte less than 300 fect . On the top of dne of the surrounding mount ins, is a small round lake, about a quarter of a mile in diameter, called the Devil's Punch-Bowl. From the surfice of the lake to the top of the cavity, or brim of the howl, may be about $\$ 00$ yards; and when viewed from the circular top, it has a most astonishing appearance. The depth of it is vastly great, but not uriathomable, as the matives pretend. The discharge of the superfiuous waters of this bowl, through a cham into the middle lake, forms one of the finest cascades in the world, visible for 150 yards. The echoes among the bills surrounding the southeri parts of the lake, which is mostly inclosed, are equally delightful and astonishing. The proprietor, the earl of Kenmore, has placed some camon in the most proper places, for the amusement of travellers; and the discharge of these pieces is tremendous, resembling most the rolling of a violent peal of thunder, which seems to travel the surrounding scenery, and die away among the distant mountains. Here also musicat instruments, especially the horn and trumpet, afford the most delightful entertainment, and raise a concert superior to that of a hundred performers. Among the vast and craggy heights that surround the lake, is one stupendous and frightful rock, the front of which towards the water is a most horrid precipice, called the eagle's nest, from the number of those birds, which have their nests in that place.

The Irish Language has been more happy in distinguishing the size of mountains than perhaps any-other. A knock signifies a low hill, unconnected with any other eminence; slieve, marks a eraggy high mountain, gradually ascending and continued in several ridges; a bienn, or binn, signifies a pinnacle, or mountain of the first magnitude, ending in a sharp or abrupt precipice. The two last are often seen and compounded

- toyether in one and the same range. Ireland, however, when compared with some other countries, is far from being mountainous. The mountains of Mourne, and Iveagh, in the county of Down, are reckoned among some of the highest in the kingVot. I.
dom; of which Slien Denard has been calculated at a perpendicular height of 1056 yards. Many other mountains are found in Ireland, which contain bods of minerals, coals, stone, slate, and marble, with veins of iron, lead, and copper.

The chief forests in Ireland lie in Leinster, the king's and queen's counties, "and these of Wexford and Carlow. In Ulster there are great forests, as in the county of Donegall, and in the north part of Tyrone: also in the county of Fermanagh, along Lough-Earne, and in the north part of the county of Down, wherein is some goof timber; and the oak is esteemed as good as any of the English growth, and as fit for ship-building.

The climate of Ireland differs not much from that of England, excepting that it is more moist, the seasons in general being much wetter. From the reports of yarious registers, it appears that the number of days int which rain had fallen in Ireland was much greater than in tho same years in England.
"The circumstance, says, Mr. Young, which strikes meas the grentest singularity of Ireland, is the rockiness of the soil, which should seem at first sight against that degree of fertility; but the contrary is the fact. Stone is 50 general, that I have good reasoa to believe the whole ishand is one vast rock of different strate and kinds, risiug out of the sea. I have rarely heard of any great depths being sunk without meeting ivith it. In general it appears on the surface in every part of the kingdom; the fattest and most fertile parts, as Limerick, Tipperary, and Meath, thave it at no great depth, almost as much as the more barren onics, May we not recognise in this the tand of bounteous providence, which has given perbaps the most stony soil in Europe to the moistest climate in it: If as much rain fell upon the clays in England (a soil very rarely met with in Ireland, and never without much stone), as falls upon the rocks of her sister island, those lands could not bo cultivated. But the rocks here are clothed with verdure; those of limestone with only a thin covering of mould, have the softest and most beautiful turf imaginable."
"Therockiness of the soil in Ircland is so universal, that it predominates in every 50rt. One cannot ube sith propricty the terms cley, loam, sand, \&c. it must he a stony clay, a stony loam, a graveliy sand. Clay, especialiy the yellow, is much talined of in Ireland, but it is for want of proper discrimination. I have once or twifec seen almost a pure clay upon the surface; but it is extremely rare. The true yellow clay is usually found in in thin stratum, under the birface mould, and over a rock; harsh, tenmcious, stony, strong loams, difficult to work, are not uncoinmon, but they are quite diferent from English clays."
"Friable sandy loams, dry, but fertile, are very common, and they form the best soilsin the kingdom for tillage and sheep. Tipperary and Roscomimon abound partieulariy in them. The most fertile of all are the builoek pastures of Limerick, and the banks of the Shainnon in Clare, called Coreasses. These are a mellow, patrid, friable Joam."
"Sand, which is so common in England, and yet more common through France, Germany, and Poland, quite from Gibraltar to Petersburgh, is no where mot with in

Irelantl, except in narrow slips of tillocks, upon the sen-coast. Nor did I ever meet with or hear of a challky soil."
"Besides the great fertility of the soil, there are other circumstances, which come withtn my sphere to mention. Few countries can be better watered by large and beaufiful rivers ; and it is remarkable that by much the finest parts of the kingdom are on the banks of these rivers. Witness the Suir, Blackwater, and Liffy, the Boyne, the Nore, the Barrow, and part of the Sbannon; they wash a scenery that can hardly be exeeded. From the rockiness of the country, bowever, there are few of them that have not obstructions, which are egreat impediments to inland navigation."
"The mountains of Ireland give to travelling, that interesting variety, which a flat country can never abound with; and, at the same time, they are not in such number as to confer the eharacter of poverty which usually attends them. I was either upon or very near the most considerable in the lingdom, Maugerton, and the Reeks in Kerry ; the Galties, in Cork; those of Mourne, in Down ; Crow-Patrick, and Nephin, in Mayo; those are the principal in Ireland ; and they are of a character in beight and sublimity, which should render them the object of every traveller's attention. The soil, though rocky, is extremely fertile, perhaps beyond that of England itself, when properly cultivated. Pastarage, tillage, and meadow ground abound in this kingdom; but of late, tillage was too much discountenanced, though the ground is excellent for the culture of all grains; and in some of the uorlicrn parts of the kingdom, abundance of hemp and Ilax are raised, a cultivation of infinite advantage to the linen manufacture. Ireland rears vast numbers of black cattle and sheep, and the Irish wool is excellent. The prodigions supplies of butter and salt provisions (fish excepted) slipped at Cork, and carried to all parts of the world, ifford the strongest proof of the natural fertility of the Irish soil:

The bogs wherowith Ireland is in sonie places overgrown, are not injurious to the healtb, as is commonly imagined; the watery exhalations from these are neither so abundant nor 50 noxious is those from marshes, which become prejudicial from the various animal and vegetable substances which are left to putrify as soon as the waters are exhaled by the sun. Bogs are not, as one might suppose from their blackness, masses of putrefaction ; but, on the contrary, they are of such a texture, as to resist putrefiection above any other substance wo know of. A shoe, all of one piece of leather, very neatly stitched, was taken out of a bog some years ago, yet entirely fresh ; from the very fashion of which, there is scarce room to doubt that it had lain there some conturios. Butter, called rouskin, hath been found in holloned truaks of trees, where it had-been hid so long, that ifwas become hard and almost friable, yet not devoid of unctuosity ; that the length of time it had been buried was very great, we learn from the depth of the boge wlich was ten feet, that had grown overit. But the common plenomenonof timbertrees dug out of these bogs not only sound, but also so embalmed as afteryards to defy

- \&e injurfes of time, demoristrate the antiscptic quality of them. The horns of the moosedeer must have lain many centuries in a bog ; for the Irish histories do not recognize the existence of the unimal wherein they grow, Indeed, human bodies have, in many
places, been dug up entire, which must have lain there for ages. The growth of hogs, however, is variable in different places, from the variety of conditions in the situation, soil, humidity, and quantity of vegetable food ; in some places it is very rapid, in others very slow ; and thorefore their altitudes cannot afford any certain measure of time." In the manufacturing counties of the north, peat-fuel has become so scarce, that turburic let from five to eight guineas an acre. In some places they are so eradicated, there does not remain a trace of them, the ground being now converted into rich meadors any sweet pastures.

The subterraneous caverns in this country, those naar Kilkenny are very remarkable scarcely less curious than those of Antiparas in the Archipelago. Their internal appearances impress upou the spectators theidea of grand gothic structures, gaily diversified with innumerable crystalline and white petrifaction;, pendant from the roof like icicles, or encrusted on the sides and floor in the stile of rustic ornament. The passages into some of the caverns are sovery low, that the curious have been obliged to creep through them; in these they have procceded until they liave heard the noiso of a aubterraneous river, but none liave ventured farther.

The Giant's Causeway, in the county of Antrim, has been accounted the greatest natural curiosity in Ireland, being the most remarkable one of its kind in the knowa world. The name of it may naturally convey to us the idea of some stupendous work of art; and as such it seems to have been considered in the days of ignorance, when the name was first applied ; modern philosoply however looks on it with a different eye. To conceive a proper idea of this unparralleled curiosity, we may imagine an approach to it from the sea; its first appearance is that of a bold rocky shore, with extensive ranges of shelving, on which people may walk. The rocks, instead of being disposed in lamimae, or strata, form basaltes or angular columns. The columns generally are pentagonal, or have five sides, and are so elosely attached to each other, that, though porfectly distinct from top to bottom, scarcely auy thing can be introduced between them. This extraordinary disposition of the rocks continues to the water's edge, and under the sea, it also obtains in a small degrec on the opposite shore of Scotland.

The crystallization of salts in the works of creation, as well as under a chemical procese, assumes certain regular and determined forms, as cubes, various sorts of pyramids, parallelopipede, \&c.; and we might imagine that this celebrated promontory, made up of these innumerable massive colomns of stone, owing their origin to some similar operations in nature, wero not at all more wonderful than the crystallization of salts, exeept as their stupendous size impresses such little beinge as we are rith amuzement; but the causeway is stil more curions in the little than tho great Fbe columns. themselves are not cach of one solid stone in an upright position, but composed of several short lengths exictly joined, not with flat surfaces, as in worlis of art, but, what is most extraordinary, they are articulated into each other as a ball in a socket, the one end of the joint having a cavity into which the couvox end of the opposite is exacry fitted; this is not visible but hy disjointing the two stones. The depth of the concavity or coavexity is generally from three to four inches; and what is still farther remarkable
of the joint, the convexity and the corresponding concavity is not conformed to the external angular figure of the column, but exactly round, and as large as the size of the column will admit. It is still further remarkable, that the articulations of these joints are frequently inverted. In some the concavity is upwards, in others the reverse.
.. The animal, regetable, and mineral prodnctions of Ireland so nearly resemble those of England, as not to require any particalar description. It is therefore sufficient to observe, that rabbits are said to be more numerous in Ireland than in England, and that lisio are very plentiful on its coast.

The opinion that no venomous, animals can subsist in Ireland is now generally rejected as a fable.
The antient history of this island is involved in so much obscority, that it has been the object of contention among the antiquarians for upwards of a century and a half. The Irish historiuss pretend to very great antiquity. According to them, the island was first intrabited about 992 years after the flood. At that time Partholanus, the son of Scara, landed in Munster, on the 14th of May, with 1000 soldiers, and some women from Greece. This royage be had undertaken on account of his having killed bis father and mother in his native country. The same historian informs us, that a great number of lakes broko ou: in Ireland during the reign of Partholanus, which had no existence whea he came into the island, with many other particulars not worth mentioning. But tho most surprising circumstance is, that about 500 years after the arrival of this Greetan colony, all of them perisbed by a plague, not a single person remaining to tell the fite of the rest. In which cave, it is wonderful how the catastrophe should hieve been knuys.

Aifer thic extinettion of this fist colany, Ireland remained a perfect wilderness for 30 years; when unother colony arrived from the east, under the direction of one Nemedius. He ser sail from the loxine sea with 30 transports, each manned with 40 heroes; and at last arrived on the consts of Ireiand, after a very tedious and strange nitvigation. Duriog his reigo also many hakes were formed in the country, which had no existence before; the most material circumstance, however, was an unsuccesfut war is which he was engaged with some African pirates, who in the end enslaved his people.
The victors proved such insupportable tyrants, that' the Irish found themselves under a necessity of quitting the island altogether. They embarked on board e fieet of 1180 ships, under the command of the three grandsons of Nemedius, viz Sinon Breac, To Chath, and Briatan Maol. The first returned to Gicece, the second saited to the firtliorn parts of Europe, and the third landed in the north of Scotland, ant' from him thic islund of Britain is said to have token its mame, and the Weleh their origin.

About 216 jeirs affer the death of Nemedius, the descendatis of Simon Breac returned from Greece into Ireland. They were conducted by five privecs of great reputation, who divided the island into five kingdoms, nearly equal in size: these : Miv. I.

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kingdoms were called Mranster, Lainster, Connaugit, Meath, and Ulater; and the sulpects of these kings are callod by the Irish fistorians Firbolgs.

Ihs Firbolgs were, in process of time, expelled or totally subdued, after the loss of 100,000 men in one bartle, by the Twith de Mamms, a nation of necromancets, wha catue from Attica, Desotia, ailo Achaia, into Denuark ; from Denumrk' to Scothand: sud from Scotland to Ireland. Theso necromaneen were to completely skilled in thaic urt that they could even restore the dead to life, and bring again into the fich those warriors who had been slain the day before. They had also some curiosities whif possessed a ronderful virtue : those nere a skord, a spear, 8 cinldron, and a moble chair ; on which last were crowned first the kinys of Irelond, and, peterwards those of Scotland. But neither the powerfal virtues of these Danish cmiovities, nor the more powerfut spells of the magic art, were able to preserve the Tuath de Dannas from being stibided by the Gadelians when they invaded Ireland.
The Gadelians were deseended from one Gathelus, from whence they derived, their name. He was a man of great consequeaçe in Fgypt, and intimutely acqueinted with Moses, the Jewish legislator. His mother was Scota, the daughter of Pharach, Ly Nial, the son of a Scythian monarch, cotemporary with: Nimrod. The Gadelians, cailed also Scots, from Scota above mentioned, conquered Ireland about 1800 before Christ, mider Ifeber and fleremon, two sons of Milesius, king of Spain, from whom were deacended all the kings of Ircland down to the English conquest, and who are therefore styled by the Fishl historians princes of the Milesian race.
Frow this period the Irish listorians trace a gradual refinement of their countrymen from a state of the grossest barburity, until a monarch, named Oilaun Fodia, establikhed a Jegular form of government, crected a grand seminary of karning, and intituted the Fes, or triennial convention of provincial kings. piects, and poets, at Feamor, or Tarah in Meath, for the establishment of laws, and regulation of government. But whatever were the institutions of this monarch, it is rehnowledged that they proved insufficient to withstand the wildness and disorder of the times. To Kimbath, one of his stecessors, the urnalists give the hynour of reviving them, besides that of regulating Ulster, his fumily province, and adorning it with a stately palace at Eamannin, near Atrnagh.
His inmediate successor, called Hugony, is still more celebrated for advancing the work of reformation. It secens, that, from the earliest origin of the Irish nation, the istand bad been divided into thie five provincial kingdoms nbove mentioned, and four of these had been subliect to the filth, who was noninal monnrech of tlie whole island. Theso four, however, proved such obstinate disturbers of the pence, that Hugony, to break their poiner, parcelled out the country into $e^{5}$ dynasties, binding them by oath to accept no other monarch but ons of his own family. This precaution proved ineffectual. Hagany, himself died a viotent death, and all his successors for a series of ages nere assassionted, scarcely with one exception.
Aboat 100 before Clirist, the pentarchal government was restored, and is said to have been succeeded by a considerable revolution in politics. The lísh bards had for many
ages dispensed the aws, and the whole nation subtimitted to their decilions; bot as their lavs were exceedingly obscure, anid could be interpreted only by themseives, they took Gecasion from thence to oppress tho people, until at last they were in danger of being totally, extenninated by a general insurrection: It this ensergency they fed to Con-vocar-Mue-Nessor, the reigning monarch, who promised them his protection in case -kicy reformed ; bat at the sume time, in order to quiet the just complaints of bis peopla, he employed the most eminent sinong them to compile an intefligible, equitable and distinct body of laws, which-were, receised with the greatest joy, and dignified, with the natue of celestial decisions. These decisions seem to have produced but very litule reformation aniong the people tin general.

We are now presented with a new series of barbarities, murders, factions, and anarchy ; and in this disordered situation of affinis it was, necording to the Irish historimes, that the chieftuin mentioned by Tacitus' addressed himself to Agricola, and encouraged him to make a descent on Freland. This scheme happened not to suit the views of the Roman general at that time; and therefore was not adopted : and so confident are these Listorians of the strergth of their country, ever in its then distracted state, that they treat the notion of its being suldured by a Romang legion and some auxiliaries (the force pro-, posed to Agricola), as utterly extravagant ; acquainting us at the same time, that the lrish were so fir from dreading u Roman invasion, that they sailed to the assistance of the Picts, and having made a successfal incursion into South Britain, returned home with a considerable booty.

In the same state of barbarity and confusion the kingdom of Ireland continued till the introduction of Christianity by St. Patrick, abouf the middle of the fifth century. This missionary, aceording to the adversaties of the 1risht antiquity, first introduced letters into Ircland, and thur laid the foundation of a future civilization. On the other lonod, the advocates for that antigquity maiotain, that the Iriah had the knowledge of letters, and liad male considerable progess in the arts before the time of St. Patrick; though they allow, that he introducal the Roman character, in which his copies of the seripture and liturgies vere yritten. To enter finlo the dispute would be contrary to our plan. It is sufficient to observe, that, exeepting. by some of the Irish themselves, the history already given is generally reekoned entirely fabolous, and thought to have been invented after the introduction of Christianity. An origin of the Irish nation hath been found out much nearer than Asin, Greece, or Egypt; namely, the island of Britain, from whence it is now thought that Ireland was first peopled. A dispute hath arisen concerning the place from whence the first emigrants from Britain set sail for Ireland. The honour of being tie mother country of the Irish hath been disputed between the North and South Britons; Mr. Macpherson hath argued strenuously for the former, and Mr. Whitaker for the latter. For an account of their dispute, however, we must relee to the works of those gentlemen. Mr. Whitaker clailns the victory, and chailenges to himself the honour of being the first who clearly and truly demonstrated the onigin of the lrish.

The name of Ireland, according to Mr. Whitaker, is obviously derived from the workiJar or Eir, which in the Celtic language sigaifies "west." This word was some-
tines pronounced Iver, and Hiver; whence the names of Iris, Ierns, Juerns, Iverns, Hiberna, and Ireland; by all of which it hath at some time or other been snown.
About 850 before Christ, according to the same author, the Belga crossed the chammel, invaded Britain, and seized the whole extended line of the southern coast, from Kent to Devonshire. Numbers of the former inlabitants, who had gradually retired bofore the enemy, were obliged at last to take shipping on the western const of Eugland, andpassed over into the uninhabited isle of Ireland. These were aftervards joined by another body-of Britons, dríven out by the Belga, under Divitiacus, about 100 before Christ.
For two centuries and a half afterwards, these colonies were continailly reinforced with fresh swarms fross Britain ; as the populousness of this island, and the vicinity of that, invited them to settle in the one, or the bloody and suceessive wars in Britain during this period naturally induced them to relinquish the other: and the whole circuit of Ireland appears to have been completely peopled about 150 years after Christ; and: as the inhabitants had all fled equally from the dominion of the Belge, or for some other cause left their native country, they were distinguistied among the Britons by one general and very opposite name, viz. that of Scuites, or Scots, "the wanderers, or tefugces."
Mr. Whitaker also informs us, "that in the times of the Romans, Irclamd was inhabited by 18 tribes; by one upon the northern, and threc on the southern shore, seven upon the western, six on the castern, and one in the centre."

* Along the eastern coast, and the Vergivian or internal occan, were ranged the Damnnii, the Voluntii, and the Eblani, the Carcii, the Menapii, and the Coriondii. The first inhabited a part of the two counties of Antrim and Down, extending from Fair-heack, the most north-casterly extremity of the Island, to Isamrum Promontorium, or the point of Arnglass baven, in the county of Down ; and having the Logia or Lagan, which falls into Carrickfergus bay, within their possessions, and Dunum or Down-patrick for their capital : the Voluntii possessed the coast frem the point of that haven to the river Bavinda or Boyne, the remainder of Down, the breadth of Armagh, and all Louth; having the Vinderus or Carlingford river in their dominions, and the town of Laberus near the river Deva (Atherdee in the county of Louth) for their metropolis. And the Elbani reached from the Boyne to the Laebins, Laev-ui, Liffy ; residing in Fast-Meuth, and in the large portion of Dublin county which is to the north of this river; and acknowledging Mediolanum, Eblana, or Dublin, for their principal town : the Cancii spread from the Liffy to the Letrim, the Oboca of the antients; hadd the rest of Dablin county, and such parts of Wieklow as lie in the north of the latter; and orrned Dunum or Rath Downe for their chief city : the Menapii occupied the coast betvist the Letrim and Cancarne-point, all the rest of Wicklow, and all Wexford to the. point ; their -chief torn, Mehapia, being pleced upon and to the east of Modoirn, Slanus, or Slane:and the Coriondii inhabited at the back of the Cancii and Menapii, to the west of the Slane and 1iffy, and in all Kildare, and all Catterlogn; being limited by the Bloyne and Barrow on the west, the Eblani. on the north, and the Brigantes on the sonth.".
"Upon the southern shore, and along the verge of the Cautabrian occan, lay the Fri-"
gantes, the Vodix, and the Iberriii. The first orned the rest of Wexfond and all $\mathrm{Wa}_{\mathrm{a}}$ teiforl; extending to the Mackwater, Aven-More, or Dabrona, on the south-west having the great month of the Barror with their territories, and Brigantia, Waterford, or some town riear it for their first city; and giving the name Brigas to the Suir or Swire, their limitary stream on the north, and the appeltation of Bergie to their own part of the county of Wexford: the Vodie possessed thie shire of Corthe from the Blackuater to the Ban, the river Kinsale, and the Dobona or Duluna of the antients; and affixed the name of Vodium Promontoriun to the point of lallycotton island: And the Ibernii inhatited the remainder of Corke, and all that part of Kerry which lies to the south-east of 'Dinglesound ; having Ressiua or Thaune for their capital, the Promonturium Austrinum or Misam-Head about the middle of their dominions, and the river lbemus or Dingle sound for lieir nontlern barrier; and leaving their nauns to the three divisions Ibaund, Neare, and Iverogh."
" Upon the western stare of the istand, and along the Great Brittannic os Atlantic ocean, were the Lacanii or Lacenii, the Velaborii, and the Cengani, the Anterii, the Nagrater, the Hardinii, and Venienii. The Lucenii inhabited the peninsula of Jand that lies atung the river liberous or Dingle sound, and perhaps some adjoining parts of Kerry: the Felaborii ranged nlong the small remainder of the latter, and over the whole of Limerich, to the Senus or Shannon; having the Durius or Casheen flowing through their dominions, and lligia, Limerick, or some tont near it for thicir metropolis; and the latter was probably thint city near Limerick, the site of which is still famous, and retains the appellation of Cathair, or the fortress; and where the remains of streets, and other marks of a town, may yet be traced. The Cangani lived in the county of Clare; Maculicum, near the Shannon, perhaps Feacle or Melic, being their principal town; a heudland in the bay of Galway, near Glaniny, being denominated Henisatum Promiontorium : and the adjoining isles of Arran called Insulæ Cangana: the Anterii were wettled in the comnty of Galway; from the sinus stretching as far as the Libavs, of the river that bounds the shire in that part ; and possessing the sonall portion of Mayo which lies to the south of it; and these were subject to Anteriam, antiently Aterith, and now Athenree; and hase left their name to the division of Athenree: the Nagnatie occupied the rest of the large county of Mayo, all Sligo, and all Roscommon, all Letrim as far as Logh Alin, on the south-east; and all Fermanagh to Balyshamion and Logh Erne ; being bounded by the Rhebius or river of Balyshannon, and the lake Rhebius or Logh Erne ; having a deep bay, called Magnus Sinus, that curves along Mayo, Sligo, and Letrios counties ; and acknowledging Nagnat, Necmaht, or Aheemaht, the town of the Nagnate, for their capital : and the Hardinii and Venienii were confederated together under the title of Venienian mations, extended from Balyshunnun to the North cape, and possessed all Donnegalle, exeept the two whole divisious of Raphoe and Enis-Owen, and the eastern part of Kilmacrenen : the Venicnii lay along the fumediate margin of the shore, giving name to the Promontorium Venicnium, or Cape Morn, and to the Insula Venienia or North Arran island: and their metropolis, Rheba, was seated upon the lake Rhebius, and in the country of the Hardinii on the south-cast,"

Vol. I.

- 3 I
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## IRELAND.

"Upon the Northems shure, and along the margis of the Dencaledonian occan, wers only the Robogdii; inhabiting the rest of Donnegalle, all Derry, and all Antrim to the Fair-Head, and the Domnin ; and giving their own name to the former and the division of Raphoe; and they had the rivers Vidua or Shipharbour, Arigta or Logh Swilly, Dara-bonn or Logh Foile, and Banma or Ban, in their territories; and acknowledged Robogdium, Robogh, or Raphoe for their chief city."
"The central regions of the island, all Tyrone, the remainder of Fermanagh, and Letrim, all Monaghan, and the rest of Ardmagh ; all Cavan, all Longford, and all West-Meath; and all the King's and Quecn's county, all Kilkempy, ond all Tipperary, were planted by the Scoti : the Shamnon, Logh Allin, and Logh Erae, were their great boundaries on the west; the Barrow, Boyne, and Logh Neagh, on the east; the Swira and Blackwater on the south; and a chain of mountains on the north. And the two greatest of their towns were Rheba, a city seated like the Rbeba of the Venicnians, upou the lake and river Phebius, but on a different part of them, and somewhere in the north of Cavan; and Ibernia, a town placed a little to the east of the Shannon, and somewhere in the county of Tipperary."

Ireland is admitted by its own historians to have been a continued scene of civil commotion, massacre, and usurpation, till their internal strife was a little interrupted by the invasion of the Danes, about the end of the eighth century. At this time we are told that monarchical power was weaker, by reason of the factions and assuming disposition of the inferior dynastics; but that the evils of the political constitution had considerably subsided, by the respect paid to religion and learning. The first invasions of the Danes were made in small parties for the sake of plunder, and were repelled by the chieftain whose dousinions were invaded. Other parties oppeared in different parts of the istand, and terrified the inhabitants by the havoe they committed. These were in like manner put to flight, but never failed to return in a short time : and thus was Ireland harassed for the space of 90 years, before the inbabitants thougbt of putting an cad to their intestine contests, and uniting agaiust the common enemy. The northern parties, either by force or treaty, gradually obtained some small settlements on the island, till at length Furges, a warlike Norwegian, landed with a powerful armatnent in the year 815 . He divided his fleet and army, in order to strike terror in different quarters. His followers plandered, bunned, and massacred, without merey, and persecuted the clergy with peculiar cruclty. The Danes already settled in Ireland flocked to lis standard, and be was thus enabied to seat himself in Armagh, from which lie expelted the clergy, and seized their lands. The Jrish in the mean time were infatuated by their private quarrel, till at last, after some ill-conducted and unsuceessful efforts, they sunk into a state of abject subunission, and Furges was proclaimed monarch of the whole island.

The new king proved such a tyrant, that he soon became intolerable. A conspiracy was formsed agoinst lim; and he was seized by Milachline, prince of Meathi, in a time of apparent peace. An uhiversal insurrection ensued; the Danes were massacred or dispersed; thiir leader comiemned to death for lis -cruelties, and drowried in a lake. The forkigners, however, were not exterminated, but the remains of them were allowed to coutimue on the iodatid as subjects or tributaries to some particular chieltains.

A new colony soon arrived, but under pretence of peaceable intentions, and a design of enriching the country by commerce. The Inish, through an infatuated policy, suffered them to become masters of Dublin, Limerick, Waterford, and other maritime places, which they enlarged and fortified with such works as had been unknown in Ireland. The Danes did not fail to make use of every opportunity of enlarging their tecritories, and new wars quickly ensued. Thin lrish were sometimes victorious, and sometimes not; but were never able to drive out their enemies, so that they continued to be a very distinguished seet, or tribe, in Ireland. The wars with the Danes were no sooner at an end, than the natives, as usual, tumed their arms against each other: the country was harassed by the competitions of the chiefs; laws and religion lost their influence, and the most horrid licentiousness and immorality prevailed: thus the whole island seemed ready to become a prey to the first invader, when an attempt was made upon it by Magnus, king of Norway. This attempt miscarried, through his own rashness; for, having landed without opposition, he advanced into the country without apprehension : the consequence was, that he was surrounded and cut to pieces, with all his followers. Ilis death, however, proved of lit\$e benefit to Ireland, the same disorders whictr had gradually reduced the kingdom to a state of extreme weakness, still continued to operate, and to facilitate the success of the English invasion, which bappened in the reign of Heary II,

During the interval between their conversion to Christianity and their subjection to England, the Irish were considered as the most learned nation in Earope. Their learning, bowever, consisted in the discussion of subtile metaphysical questions, a scanty-stock of Grecian literature, a very slight acquaintance with Hebrew, and a knowledge of the more simple and elementary parts of geometry. Among the Irish literati, the highest place is due to John Scatus Erigena, the ornament of the court of Charles the Bald, an eminent philosopher and learned divine, whose erudition was accompanied with uncommon marks of sagacity and genius, and whose various performances, as well as his translations from the Greek, gained him a shining and lasting reputation.

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215
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## BRITISH EMPIRE.

## CHAPTER VI.

Gneat Buizain and Iurland.- - Front the conguest 1066, to the signing Mogna Charta 1215.

NOTIING could exceed the astonistiment of the Euglish nation, when made acquaninted with the issue of the unfortunate battle of Hastinss, with the death of their king, and the slanghter of their principal nobility. And William, in order to terminate an enterprise, which be knew ceterity anal vigour only coald render finaily successful, ins stmotly put his army in motion, and advanced by forced raarches to London. His approweh incereased the general slarm, and the divitions alreedy prevalent in the Eoglish councils. The superior clergy who cven then were mostly French or Normans, begau to declare in bis favour; and the pope's ball, by which his undertaking was avored and consecrated, was now offired as a reason for genenal submission. Other causes rendered it difficult for the Engli-h nation, destitute as it wns of a bead, to defend their liberties in this critical emergency. The boily of the peoplo haut, in a great measure, lost their antient pride and independent spirit, by their mecot and long subjection to the Danes ; and as Camute had, in the course of his adtuinistration, nuich abated the rigours of conquest, and governed them equitably by their orn laws, they regarded with less terror a forcign sovereign ; and decmed the inconvenienees of admititing the pretensions of William less dreadfur than those of bloodhhed, war, and resistance. A repulse, which a party of Londoners reseired from 560 Nomman hone, rencwed tho terror of the great defent at Hastings: the easy submission of sill the intabitants of Kent was ant edditional disizoriragement to them; and the burning of Somthwark before their eyes, made the citizens of London dread a like fate for their capital- Few men longer entertuined any thoughts but of immediate safety and self-preservation.
Stigard, arehbighop of Canterbury, met the' conqueror at Berkhamstead, and made submission to him ; and before to reached London, all the chief nobility, with the weak Edgar Atheling, their lauful but deservedly neglected prinee, came into William's caup, and declared their intention of yielding to his authority. They requested him to accept the crown, which they now considered as vacant ; and orders were immediately issued to prepore every thing for the ceremony of his coronation. It was accordiogly performed in Westminster abboy, in presence of the most considerabie nobility and gentry, both English and Norman, with seeming satisfaction. This appearance of satisfaction, on the part of the former, if it contained any sincerity, must have been the effect of the conciliating manner in which the coronation ceremony was conducted. The duke of Normandy took the usual oath administered to the Anglo-Saxon kings at their innuguration; namely, "to preserve inviolate the constitution and government according to the laws," before the crown was placed upon his bead, and affer the conacnt of eill present had been usked and obtained.

William, thus possessed of the throne, by it pretented will of king Edwaid, and an irregular election of the people, abetted by force of arms, retired to Barking in Essex; where be received the sabmissions of all the nobility, who liad attended his coronation, and whom he, generally confirmed in the possession of their lands and dignities, forfeiting oinly the estates of Harold, and those of his most nctive adtherents. Every thing wore the appearance of peace and tranquillity. The new sovereign seemed solicitous to unite in an amicable manuer the English and the Normans, by, intermarriages and alliances ; and all bis subjects, who approached his person, were received with affability and respect. No signs of, suspicion appeared even in regard to Edgar Atheling, the natural heir to the crown. On the contrary the king confirmed bim in the honours of earl of Oxford, conferred on bim by Harold, and affected on all occasions to treat him with the greatest kindness, as nephew to the Confessor, his friend and benefactor. He also confirmed the liberties and immunities of London, and all the other cities of England; and seemed, in a word, desirous of resting every thing on antient foundations.

In bis whole administration be bore the semblance of the lawful prince, not of the conqueror; so that the English began to flatter themselves they had only changed the succession of their sovereigns, a matter which gave them little concern, without injury to the form of their government. But William, notwithstanding this seeming confidence and friendship, which he expressed for his English subjects, took care to place all real power in the hands of the Normans, and still to keep possession of that sword to which he eventually owed his crown. He every where disarmed the inhabitants: he luilt fortresses, in all the principal cities, where he quartered Norman soldiers; he bestowed the forfeited estates on the inost powerful of his captains, and he established funds for the payment of his troops. While his civil administration wore the face of the legal magistrate, his military institutions were those of a master and a tyrant. And by this mixture of rigour and lenity, he so subdued and composed the minds of the people of England, that he ventured to visit his native country within six months after bie had left it.

During the absence of William, the Normans whom he had settled in England oppressed their English neighbours; and thus provoked them to make an insurrection. These disturbances ceased on his return, and he not only pardoned the rebels who submitted themselves to his mercy, but ordered ail his English subjects who had been arbitrarily expelled by the Normans, to be restored to their possessions. The public discontents, however, daily increased ; and the injuries committed and suffered on both sides, rendered the quarrel between the victors and the vanquished mortal The insolence of imperious masters dispersed throughout the kingdon, seemed intolerable to the natives, who took every opportunity to gratify their vengeance, by private murders and open rebellion.

Morcar and Edwin, with the assistance of Malcolm, king of Scothnd, made an atfempt on the north, but were soon obliged to cast themselves on the clemency of the eonqueror.

The three sons of Harold landed in Devonshire but found a body of Normans ready Vox. I.

## BRITISH EMPIRE.

to opposo then, and being defeated in several rencounters, sought ahelter in their versels, and returned to their asylam in Ireland.

A fresh insurrcetion was the same year exeited in the north, where the Northumbnans and Xorkshiremen, slew tho governors of Darham and York, and received at the same time some Danish succours, under the command of Osbert, brother of Sweyn. king of Denuark, und being abetted by Edgar Atheling, who had sought' refuge in Scotland, were easily excited to a general revolt.

Aif these attempts, however, were rentered abortive, by the vigitance of William, and Edgar Atheling himself, growing weary of exile, again submitted, and was suffered to live unmolested in Eugland.

William's seeming clemency, however, procgeded only from political considerations, or from his esteem of iudividuals : his heart was hardened against all compassion toward the English as a people ; and he scrupled no measure, how violent soever, which seemed requisite to support his plan of tyrannical administration. Acquainted with the restless disposition of the Nortiumbrians, who had began to revolt, and determined to incapacitate them from ever more molesting him, he issued orders for haying waste that fertile country, which, to the extent of 60 miles, lies betweea the Humber and the Tees. The houses were reduced to sshes by the unfeeling Normans: the cattle were seized and driven away ; the instruments of husbandry were destroyed; and the inhabitants were compelled cither to seek a subsistence in the southern parts of Scotland, or to perish miserably in the woods from cold and bunger, which many of them chose rather to do than abandon their native soil. The lives of 100,000 persons are computed to have been sacrificed to this piece of barbarous policy ; which, by seeking a remedy for a temporary evil, inflicted a lasting wound on the power and populousness of the nation.

But William was now determined to proceed to extremities against all tho natives of England, and to redace them to a condition in which they should be no longer formidable to his goveromeat. The insurrections and conspiracies, in different parts of the kingdom, had involved the buik of the lantholders, more or less, in the guitt of treason ; and the king took advantage of executing agaiust them, with the utmost rigour, the laws of forfeiture and attainder. Their lives were commonly spared, but their estates were confiscated, and either annexed to the royal domain, or conferred with the most profuse bounty on the Normans and other forcigners. Against a people thus devoted to destruction, any suspicion served as the most undoubted proofs of guilt, It was crime sufficient in an Englishman to be opulent, noble or powerful; and the policy of the king, concurring with the rapacity of needy adventurens, produced an almost total revelution in the landed property of the kingdom. Antient and honourable fumilies were reduced to beggary. The nobles were every where treated with ignominy and contempt: they had the mortification to see their castles and manors possessed by Normans of the meanest condition, and to find themselves excladed from every road that led either to riches or preferment.

The government which William substituted for that of the Anglo-Saxons was a rigid' fcudal monarchy, or military aristocracy, in which a regular chaia of subordination
and service was estublishod from the sovereign to the slave, and which, like all feudal goveruments, was attended with a grievous depression of the body of the people, who were daily exposed to the insults, violences, and exactions of its nobles, whose vassals they all were, and from whose oppressive jurisdictions it was difficult and dangerous to sppeal.

This depression, as might be expected, was more complete and bumiliating in England, under the first Anglo-Noranan princes, than in any other feudal, government. William, by his artful and tyrannical policy, by attainders and confiscations, became, in the course of his reign, proprietor of alnost all the lands in the kiogdom. The lands, however, he could not retain, had he been even willing, in his own hands; be was under the necessity of bestowiog the greater part of them on his Norman captains or nobles, the coapsanius of his conquest and the instruments of his tyranny, who had led their own vassals to battle. Dut these grants he clogged with heary feudal services, and payments or prostrations, which no one dared ta refuse. IIe was the general of a victorious army, which was still obliged to continue in a military posture, in order to secure the possessions it had seized. And the Anglo-Norman barons, and tenants in capite by knight's service, who ouly held immediate of the crown, and with the diguified clergy, formed the national assembly, iumosed obligations yet more severe on their vassals, the inferior landholders, consisting chiefly of their subaltorns and unhappy Eaglish gentlomen, as weil as oa the body of the people, for whom they seemed to have ho bowels of compassion.

The state of England in the latter part of the reign of William is thus described by an historian who was alnost cotemporary, with that prince. "The Normans bad now fully executed the wrath of heaven upon the English. There was hardly one of that nation who possessed any power ; they were all involved in servitude and sorrow; insomuch that to be called an Englishman was considered as a reproach. In those miscrable times many oppressive taxes and tyrannical customs were introduced. The king limself, when he had tet his lands at their full value, if another caaie and offered more, and afterwards a third, and offored still more, viofated all his former agreements, and gave thein to him who offered most; and the great men were inflamed with such a rage for money, that they cared not by what means it was acquired. The more they talled of justice, the more injuriously they acted. Those whom they called justiciaries were the fountains of all iniquity. Sneriffs and judges, whose peculiar duty it was to pronounce righteous judgmants, were the most eruel of all tyrants, and greater plunderers than commen thieves and robbers."

The licentiousness of the Nommans was equal to their oppression. They thouglit that all things ought to be subservient to their will and pleasure, and therefore not only seized the possessions of the vanquished, but invaded the honour of their matruns and virgins. Hence many young ladies, who dreaded such violence, were induced to seek shelter in convents, and even to take the veil as a farther security to their virtue.
William's noxt regulations regarded the church. He deposed Stigard, the primate, and several other English bishops, by the assiatance of Ermoufgy, the pope's legate ; and as

It was a fixed maxim in this reign, as well as in some of the subsequent, that no native of the island should ever be advanced to any dignity, ecclesiastical, civil, or military, the king promoted Lanfrunc, a Milanese monk, to the see of Canterbury. That prelate professed the most devoted attachment to Rome, which therefore daily increased in England, and became very dangerous to sonie of William's successors; but the arbitrary power of the Conqueror over the English, and his extensive authority over the Normans, Kept them from feeling any inconvenience from it. He retained the clergy in great subjection, as well as his lay subjects, and would athow no person of any condition or character to dispute his absolute will and pleasure. None of his ministers or barons, whatever might be their offences, could be subjected to spiritual censures, until his consent was obtuined. He prohibited his people to acknowledge any one for pope, whom he himself had not received; and he ordered, that all ecclesiastical canons, voted in any synod, should be submitted to him, and ratified by his authority, before they could be valid.

But the English had the cruel mortification to find, that their king's authority, how wurthy soever of a sovereign, all tended to their oppression, or to perpetuate their subjection. William had even entertained the difficult project of totally abolishing their language. He ordered the English youth to be instracted in the French tongue, in all the schools throughout the kingdom. The pleadings in the supreme courts of jodicature were in Freach ; the deeds were often drawn in the same language, the laws were composed in that idiom. No other tongue was used at court: it became the language of all fashionable societies ; and the natives tiemselves affected to excel in it. To this attempt of the conqueror, and to the foreign dominions so long annexed to the crown of England, we owe that predominating mixture of French at present to be found in our language. The attention of William was now called to the continent, where Fultre, count of Anjoth, had seized of the province of Maine, which had fallen under the dominion of Normandy, by the will of Hubert the last count. This was the first continental quarrel in which the English were involved, in consequence of their monarch's Norman possessions, we shall refer the history of these disputes to a more advanced part of this work, and confine our attention for the present to the immediate concerns of the British isles.

The peaceable state of William's affairs now gave him leisure to finish an undertaking which proves his great and extensive genius, and does honour to his memory. It was a general survey of all the lands of England ; their extent in each district, their proprietors, tenures, value ; the quantity of meadow, pasture, wood, and arable land which they contained; and in some counties, the number of tenants, cottages, and slaves of all denominations, who lived upon them. This valuable piece of antiquity, called Domesday book, is still preserved in the exchequer, and helps to illustrate to us the antient state of Eogland.

William, like all the Normans, was much attached to the manly amusement of hunting ; and his passion for this amusement he cruelly indulged at the expence of his unhappy subjects. Not contented with those large forests, which the Saxon kings possessed in all parts of England, lue resolved to make a new forest near Winchester, the
usual place of his residence. Accordingly; for that purpore, he laid waste the country for an extent of 50 tniles in Hampshire, expelling the inhabitants from their houses, seizing their property, and demolishing churches and couvents, without making the sufferens any compensation for the injory. He also increased the rigour of the game laws, now become so grievoas.

This monarch's death was occasioned by a quarrel, not altogether worthy of his life. A witticism gave rise to war. Willam, who was become corpulent, had been detained to bed some time by sickness while in Normandy, a circumstance which gave Philip I. of France occasion to say, with that vivacity natural to his country, that he was surprised his brother of England should be so long in being delivered of his big belly, William, enraged at this levity, swore, by "the brightness and resurrection of God," his usual oath, that, as soon as he was up, he would present so many lights at Notre Dame, as would give little pleasure to the king of France, alluding to the usual practice, at that time of women carrying a torch to church after child-birth. Accordingly, on his recovery, he led an army into the isle of France, and laid every thing wasto with fire and sword. But the progress of these hostilities was stopt, by an accident which put an end to the English monarch's life. His horse starting aside, he bruised his belly on the pummel of his saddle; and this bruise, joined to his former bad habit of body, brought on a mortification, of which he died, in the 6sd year of his age. He left Normandy and Maine to his eldest son, Kobert ; he wrote to Lanfranc, desiring him to crown William king of England; and he bequeathed to Henry, the youngest of the three, the possessions of his mother Matilda.

William II. surnatned Rufus, or the Red, from the colour of his hair, was instantly crowned king of England, in consequence of his father's recommendatory letter to Lanfranc, the primate: and Robert, at the same time, took peaceable possession of Normandy, But this partition of the Conqueror's doninions, though apparently made without any violence or opposition, occasioned in England many discontents; which seemed to promise a sudden revolution. The Norman barons, who generally possessed large estates both in England and their own country, were aneasy at the separation of those territories, and foresaw that as it would be impossible for them to preserve long their allegiance to two masters, they must necessarily resign their antient property or their new acquisitions. Robert's title to Normandy they esteemed incontestible ; his clain to England they thought plausible ; and they all desired that this prince, who alone had any pretensions to unite the duchy and kiugdom, might be put in possession of both. A comparison between the personal qualitics of the two princes also led the malcontents to prefer the elder. Robert was brave, open, sincere, generous; whereas William, though not less brave than his brother, was violent, haughty, tyrarnical, and seemed disposed to govern more by fear than the love of his people.

Odo, bishop of Baicux, who had been released from prison on the death of the conqueror, enforced all these motives with the dissatisfied barons, and engaged many of them in a formal conspiracy to dethrone the king, Expecting immediate support from Normandy, the conspirators bastened to put themselves in a military postire:

Vol. 1.
and William, 'sensible of his perilous situation, endeavoured to provide against the threatened danger, by gaining the affections of the native English; who zealously embraced his cause, upon receiving some general promises of good treatment, and leave to hunt in the royal forests, having now lost all hopes of recovering their antient lilerties. Dy their assistance the king was enabled to subdue the rehels: but the Norman barons, who had remained faithful to him, only were the gainers. He paid no regard to the promises made to his English subjects, who still found themselves exposed to the same oppressions which they had experienced during the reign of the conqueror, and which werc augmented by the tyrannical temper of the present moment. Even the priviloges of the church, which were beld so sacred in those days, formed but a feeble rampart aguinst the usurpations of William; yet the terror of bis authority, confirmed by the suppression of the late insurrections, kept every one in subjection, notwithstanding the murmurs of the clergy, and preserved general tranquillity in England. An accident put an end to his life, in the year 1100 . He was engaged in hunting, the sole amusement, and, except war, the chief occupation of princes in those rude times, when this accident happened Waiter Tyrrel, a French gentleman, remarkable for his address in archery, attended him in that recreation, of which the new forest was the scene; and as William had dismounted after the chace, Tyrrel, impatient to shew his dexterity, let fly an arrow at a stag, which suddenly started before him. The arrow, glancing aguinst a tree, struck the king to the beart, and instantly killed him; while Tyrrel, without informing any one of the accident, put spurs to his horse, hastened to the seashore, embarked for France, and joined the crusade in an expedition to the Holy Land: a penance which he imposed on himself for this involuntary crime, and which was deemed sufficient to expiate crimes of the blackest dye. As Williain Rufus was never married, and consequently could leave no lawful issue, the kingdom of England now belonged to his brother Robert, both by the right of birth and of solemn compact, ratified by the nobility. But as prince Henry was hunting in the new forest when the king was slain, be immediately galloped to Winchester, secured the royal treasure, was saluted king, and proceeded to the exercise of the sovercign authority. Sensible, however, that a crown usurped against all the rules of justice would sit very unsteady on his head, Henry resolved, by fair professions at least, to gain the affections of all his subjects. Besides taking the usual coronation oath, to maintain the constitution, and to execute justice, he passed a charter, which was calculated to remedy many of the grievous oppressions complained of during the reign of his father and his brother : and he promised a general confirmation and observance of the laws of Edward the Confessor.

Ia order farther to establish himseif on the throne, the king recalled archbishop Anselm, and reinstated him in the see of Canterbury. He also married Matilda, daughter of Malcolur III. king of Scotland, and niece to Edgar Atheling. And this marriage, more than any other measure of his reign, tended to eadear Henry to his English subjects; who had felt so severely the tyranny of the Normans, that they reflected with infinite regret on their former liberty, and boped for a more equal and mild administration, when the blook of their native princes should be united with that
of the new sovercigns. But the policy and prudence of Henry I. man great hazard of being frustrated by the sudden appearance of his brother Robert, who retumed from the Holy Land about a month after the death of William II, took possestion of Normandy, without resistance, and made preparation for asserting his title to the crown of Eugland.

The great reputation which Robert had acquired in the East favoured bis pretensions; and the Norman barons, still impressed with apprehensions of the consequences of the separation of the duchy and kingdom, discovered the same discontent which lad apt peared on the accession of Rufus. Henry was therefore in danger of being deserted by all his subjects ; and it was only through the exhortations of archbishop Anselm, that they were engaged to oppose Robert, who had landed at Portsmouth. The two armies continued some days in sight of each other, without coming to action; and by the interposition of the same prelate, an accommodation was happily brought about between the brothers. In this treaty it was agreed, that Robert should resign his preterisions to England, and receive an annual pension of 3000 marks; that if either of the princes died without issue, the other should succeed to his dominions; that the adherents of each should be pardoned, and restored to all their possessions, and that neither the king nor the duke should thenceforth countenance the enemies of each other. But these conditions, though so favourable to Henry, were soon violated by his rapacity and ambition. He restored indeed the estates of Robert's adherents, but took care they should not remain long in the undisturbed possession of thern. Various pretonces were formed for despoiling and humbling all who, in his opinion, had either inclination or abilities to disturb his government.

Henry soon after passed over into Normandy, on pretence of settling some disputes between his brother and his barons, brought over that generous but unfortunate prince a prisoner, and kept him in custody all the remainder of his life. He died in the castie of Cardiff in Wales, after enduring a captivity of 28 years. Thus did Henry seek the enlargement of his dominions at the expence of justice, mercy, and fraternal affection.

But his public prosperity was much overbalanced by a domestic misfortune. His son William, who had attained his 18th year, had accompanied him into Normandy, but perished in his return, with all his retinue. The royal youth was anxious to get first to land; and the captain of his vessel, being intoxicated with liquor, heedlessly ran her on a rock, where she was immediately dashed to pieces. Besides the prince, above ont hundred and forty young noblemen, of the principal fumilies of England and Normandy, were lost upon this occasion. The king was so much affected by the news, that he is said never to have smiled more. As prince William left no childreb, Henry had no legitimate issue, except his daughter Matilda, whom he had betrothed, when a child, to the emperor Henry $V_{\text {: }}$, who also dying without children, the king bestoned his daughter on Geoffry Plantagenet, the eldest son of the count of Anjou, and endeavoured to secure her succession by having her recognized heiress of all his dominions; and he obliged the barons both of Normandy and England to swrear fealty to her. After six years she aras delivered of a son, who received the name of Henry; and the king, farther to insure
the succession, made all the nobility renew the oath of fealty, which they had already sworn to her, aud also to swear fealty to her infant son. The joy of this event, and the pleasure of his daughter's company, made Henry take up his residence in Normandy; where he died, in the 67 th year of his age, and the 35 th year of his reign, leaving bis daughter Matilda lieiress of all his dominions. He was one of the most able and accomplished princes that ever filled the English thronc, possessing great qualities both finental and personal. His learning, which procured thim the name of Beauclerc, or the fine scholar, would have given him an ascendancy in any condition.

The aversiou of the feudal barous against female succession prevailed over their good faith, and prepared the way for the usurpation of Steplien, count of Boologne, son of the count of Blois, and grandson of the conqueror, by his daughter Adela. Stephen was a prince of vigour and ability : bat the manner in which he had obtained the crown of England, obliged him to grant exorbitant privileges to the nobility and clergy, who might be said to command the kingdom.

The barons built and fortified castles ; garrisoned them with their own troops ; and, when offended, bid their monarch defiance, while wars between themselves were carried on with the utmost fury in every quarter. They even assumed the right of coining money, and of exercising, without appeal, every act of jurisdiction; and the inferior gentry, and the people, finding no guardianship from the lavs, during this total dissolution of sovereign authority, were obliged to pay court to some neigbbouring chieftain, and to purchase his protection, not only by yielding to his exactions, but by assisting him in his rapine upon others.

The reign of Stephen was one continued series of commotions. He was himself taken prisoner by the empress, at the battic of Lincoln; but she lost by her haughty behaviour all the advantages that she had attained by her successes. Stephen was soon after exchanged for earl Robert, Matilda's brother, who was no less the soul of one party, than Stephen was of the other. Henry, the son of Matilda, proved a more formidable competitor for the crown of England than his mother had ever been. By the right of lis mother, the decease of his father, and his marriage with the divorced queen of France, be was possessed of very extensive continental dominions, and so great was the respect entertained for bim in this island, that the archbishop of Canterbury refused to anoint Eustace, Stephen's son, as his successor, and made bis escape beyond sea to avoid the fury of the enraged monarch. As soon as Henry was informed of these dispositions in the people, he invaded England. Stephen advanced with a superior army to meet him, and a decisive action was every day expected; when the great men on both sides, terrified with the prospect of further bloodshed and confasion, interposed with their good offices, and set on foot a negociation between the contending princes. The death of Eustace, which happened during the course of the treaty, facilitated its conclusion, and an accommodation was at last settled, by which it was agreed, that Stephen should possess the crown during his life; that justice should be administered in his name, even in the provinces that had submitted to his rival ; and that Henry, on Stephen's death, should succeed to the kingdom of England, and William, Stephen's son, to Boulogne and his patrimonial estate.

## BRITISH EMPIRE.

The death of Stephen, which took place next year (1154), prevented those jealousies and feuds, which were likely to happen in so delicate a situation.

Henry was received in England with the acclamations of all orders of men, who joy. fully swore to him the oath of allegiance: and he began his reign with re-establishing justice and good order, to which the kingdom had been long a stratger. For this purpose, he dismissed all those fareign mercenaries retained by Stephen; and that he might restore authority to the laus, he caused all the new erected castles, which had proved so many sanctuaries to rebels and free-booters, to be demolished. In order yet farther to conciliate the affections of his subjects, he voluntarily confirmed that clarter which had been granted by his grandfather, Henry I.

The usurpations of the clerky had now become so many and great, that they were an insupportable burden upon the laity of England. They not only drew to themselves immense revenues for averting the wrath of heaven from other offenders, but themselves practised with impunity the most atrocious wickedness. To suppress these enormities, a council of barons and nobles were assembled by the king, at Clarendon, who voted the following laws without opposition.
"That no chief tenant of the crown shall be excommunicated, or have his lands put under au interdict, without the king's consent ; that no appeals in spiritual causes shalf be carried before the Holy See, nor any clergymen be suffered to depart the kingdom, unless with the king's permission ; that laymen shall not be accused in spiritual courts, except by legal and reputable witnesses; and lastly, that clergymeñ, accused of any crime, shall be tried in the civil courts." These constitations gave rise to a very violent contest between the king and the church, which was terminated at length by the murder of Becket, the imperious archbishop of Canterbury, and the subsequent submission of Henry to the see of Rome.

The next affair which engaged the attention of Henry was the conquest of Ireland. The state of that islant, as has been already observed, was at that time exceedingly favourable for an iavasion. The monurch enjoyed little more than a titular dignity over a number of chitftains, who all assumed the title and state of royalty, paid a precarious tribute to their superior, and united, if they were disposed to unite with him, rather as his allies than lis subjects. Lcinster was sulject to Dermod, a fieree, laughty, and oppressive tyrant. His stature and bodily strength made him admired by the lower order of his suljects, and his donations recommended him to the elergy; but his tributary chieftans felt the neight of his pride and tyramy, and to them his government was extremely odfous. Ilaving seized the wife of O' Ruxre, King of $I_{\text {ceitrim, }}$, he was expelled his dotainions, aud obliged to seek refuge in England. Here his character was woknown, and he was regarded as an injured prince, driven from his throne by an iniquitous confederacy. He procured the assistance of Richard Sirongbow, earl of Chepptow, Robert Fitzstephen, and Maurice Fitzgerald, three able warions, whose ese teres were chiefly situated in Wales, obtained possession of his former dominions, and setted his Euglish allies in Wexford and other parts of Ireland. Thus commenced the settiement of the English in Ireland, which was followed by a war between the settlers and tise matives, in which the formef were generally victorious, Henry was unsilling Vol. I.

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his sulyects should conquer for themselves, and therefore landed at the head of 500 knights and 4000 soldiers, and in a progress which he made through the island, had little other occupation than to receive the hoinage of his new subjects. He left most of the Irish chieftains or princes in possession of their antient territories ; be bestowed lands on some of his English adventurers ; and after a stay of a few mouths, returned to Britain, where his presence was much wanted; having annexed Ireland to the English crown.

Heary seemed now to have reached the pinnacle of human grandeur and felicity. His dangerous controversy with the church was at an end, and he appeared to be equally happy in his donestic situation, and his political government. But this tranquility was of shast duration. Prince Henry, at the instigation of Lewis VII. his father-inlaw, insisted that his father should resign to him either the kinglom of Eagland, or the duchy of Normandy: and the King's two younger sons, Greoffrey and Richard, also leagued with the court of France, by the persuasions of their mother, queen Eleanor, whose jealousy when in years was as violent as her amorous passions in youth.

Thus Europe saw with astonishment, the best and most indulgent of parents obliged to maintain war agninst his whole family; and what was still more extraordinary, several princes not ashamed to support this absurd and unnatural rebelliou ! Not only Lewis King of France, but William king of Scotland, Pbilip earl of Flanders, nnd scyeral other princes on the continent, besides many barons, both English and Nornan, espoused the quarrel of young Heary and his brothers.

In order to break that alarming confederacy, the king of England humbled hinself $s o$ far as to supplicate the court of Rome. Though sensible of the danger of ecclesiastical authority in temporal disputes, he applied to the pope to excommonicate his enemies, and by that means reduce to obedience his undutiful children, whom lve found such reluctance to punish by the sword. The bulls required were issued by Alexander III. but they not having the desired effect, Henry was obliged to bave recourse to arms: and he carried on war successfully, and at the same time, against France, Scotland, and his rebellious barons in England and Normandy.

Meanwhile, the English monarch, sensible of his danger, and of the effects of superstition on the minds of the people, went bare-footed to Becket's toinb; prostrated himself before the shrine of the saint; remained in fasting and prayer during a whole day; watched all night the holy reliques ; and assembling a chapter of the monks, pait a scourge of discipline into each of their hands, and presented his bare shoulders to the laslies which these incensed ecelesiastics not sparingly inflicted upon him. Next morning be received absolution; and his generals obtained the same day a great victory over the Scots, which was regarded as a proof of his final reconciliation with heaven, and with Thomas à Becket. The victory over the Scots was gained near Alnwick; where their king was taken prisoner; and the spirit of the Engtish rebels being broken by this blow, the whole kingdom was restored to tranquillity.'

It was deemed impious any longer to resist a prince, who seemed to be under the immediate protection of heaven. The clergy exalted anew the merits and the powerful untercession of Becket ; and Heury, instead of opposing their superatition, po-

## , BRITISH EMPIRE.

hitically propagnted an opinion so fivourable to his interests. Victorious in all quorters, crouned with glory, und absolute master of his Englist dominions, he hastened over to Nownmady ; where a peace was concluded with Lewis, and an accommodation brought about wilh his sons.

Having thus, contrary to all expectation, extricated himself from a situation, in which his throne, was exposed to the utmost danger, Heary occupied himself, for several years in the admulnistration of justice, enacting of laws, and in guarding against those inconvepiences, which ceither the past convulsions of the state, or the political institutions of that age, rendered unavoidable.

The success which had attended him in all his wass, discouraged his neighbours from attempting any thing against trim; so that he was enabled to complete bis internal regulations without disturbance from any quarter. Some of these regulations deserve particular notice.

As the clergy, by the constitutions of Clarendon, which Henry endeavoured still to maintain, were suljected to a trial by the civil magistrate, it seemed but just to afford theni the protection of that power to which they owed obedience: he therefore enacted a law, that the murderers of a elergyman stionid be tried before the justiciary, in the presence of the bistop or his official; and besides the asual punishment for murder, should be suljected to a forfeiture of their estates, and a confiscation of their goods and chatels. He alsu passed an equitable law, that the goods of a vassal should not be seized for the debt of his lord, unless the vassal was surety for the debt; and that in case of insolvency, the rents of the vassals should be paid to the creditors of the lord, pot to the lord himself.

The partition of England into four divisions, and the appointment of itinerant judges, learned in the law, to go the circuit in each division, and to decide the causes in the counties, after the example of the commissaries of Lewis VI, and the missi of Charlemagne, was another importunt ordinance of the English monarch; a measure which had a direct tendency to corb the oppressions of the barons, and to protect the inferior gentry or sinall landholders, and the conmon people in their property. And that there might be fewer obstacles to the execution of, justice, he was vigilant in demolishing all tho new erected custles of the nobility in England, as well as in his foreign dominions. Nor die he peruit any fortress to remsin in the custody of those he found reason to suspect.
But lest the kingdom should be weakened by thls peaceful policy, Henry publisted a. famous decree, called an assize of arms ; by which all his sulbjects were obliged to put themselves in a situation to defend themselves and the réalm. Every person possessed of a single knight's fee, was ordered to have a coat of mail, a helmet, a shield, and a lance: and the same accoutrements were required to be provided by every one, whether nobleman or gentleman, for whatever number of knight's fees he might hold. Every free layman, who had rents or goods to the value of 16 marks, was to be armed in like mimner; every one that hud ten marks was obliged to have an iron gorget, a cap of iroo, and a lance; and all burgesses were to have a cap of iron, a lance, and a coat thickly quilted with wool, tow, or some such materials, call a wambois.

The domestic troubles of Henry were not yet at an end. Philip II. of Prance basely encouraged the sons of the English monarch in another unnatural rebellion agenst their father. Young Henry and Geoffry, the two eldest princes, soon after died, but the war wasjcarried oa by Richard, the third son, who was assisted by his younger brother John. Their father was obliged, at an advanced age, to arm in his own defence, and at last reduced to consent that Richard should receive the bomage and fealty of all his subjects, that his associates should be pardoned, and that the king of France should be reimbursed the expences of the war.

But the mortification which Henry, who had been accustomed to give law to his enemies, received from these bumiliating conditions, was light, in comparison of what he experienced from another cause on that occasion. When he demanded a list of the persons, to whow he was to grant an indemnity for confederating with Richard, he was astonished to find at the head of them the name of his favourite son John, who had always shared his confidence, and who, on account of his influence with the king, had often excited the jealousy of Richard. Overloaded with cares and sorrows, and robbed of his last domestic comfort, this unhappy father broke out into expressions of the otmost despair : he cursed the day of his birth; and bestowed on bis undotiful and ungrateful children, a matediction, which lie could never be brought to retract. The more his heart was disposed to friendship and affection, the more he resented the barbarous return which his four sons had successively made to his parental care; and this fatal discovery, by depriving him of all that made life desirable, quite broke his spirit, and threw him into a lingering fever, of which he soon after expired, in the 58 th year of hir age, at the castle of Chinon, near Saumur in Normandy.

The reign of Richard I. was chiefly employed in romantic projects, and furnishes but few events that are iateresting to Englishmen. Influenced more by ambition than zeal, be drained the resources of the nation in preparing for a crusade ngainst the Saracens and Turks, in which hesspent more than three years. The exploits he performed in Sicily and Palcstine, his quarrel with Philip of France, and his long imprisonment in Germany, are all foreign events, and will therefore be related in olher parts of this work.

Philip took advantage of his absence to excite his brother Jahn to lay claim to the suvereiga authority, and was extremely chagrined when the feturn of Richard caused his ambitious and perfdious policy to fail of its effects. A war now commenced between England and France, whifh produced nothing of importance, and was just ready to be succeeded by peace, when Richard was unfortunately slain by an arrow, before an inconsiderable castle, which he bessieged, in hopes of taking from one of his vassals, a great mass of gold which bad been found hid in the earth.

The reign of his successor, Jobn, commenced with the murder of his nephew Authur, the son of Geoffiry, whora Jotn is said to have stabbed with his own hand. The misfortunes of the English king immediately followed upon this crime. A war with the Bretons, and an arraignment before the king of France were its immediate consequences. In the course of three years be was stripped of nearly all his continental dominions, and fuqud that his arrival in England completed bis diagrace. He saw himself universally
despised by the barons, on account of his pusillanimity and baseness; and a quarrel with the clergy, drew upon bim the contempt of that order, and the indigation of Rome. The papal chair was then filled by Innocent III. who having been exalted to it at a more early period of life than usual, and being endowed with a lofy and enterprising genius, gave full scope to his ambition, and attempted, more openly than any of his predecessors, to convert that ghostly superiority, rliich was yielded thim by all the Extropean princes, into a real dominion over them; strongly inculcating that extravagant maxim, "That neither princes nor bishops, civil governors nor ecclesiastical rulers, havo any lawful power, in church or stare, but what they derive from the pope." To thin pontiff an appeal was inde relatice to the appomtment of an archbishop of Canterbury. Tro primates had teen elected; one by the monks or canons of Christ-church, Caaterbury, and one by the suffragan bishops, who lad the king's approffation. The pape declared both elections void, and commanded the monks, under penalty of excommuaication, to choose for their primate cardival Langton, mn Englishman by birth, but educated in France, and connected by his interests and attachmeats with the see of Rome. The monks complied ; and John, inflamed with rage at such an usurpation of his prerogative, expelled them the convent; swearing by God's teeth, his usual oath, that if the pope gave him any further disturbance, he would banish all the bishops and clergy of England. Innocent, however, knew his weakness, and laid the kingdom under an interdict; at that time the grand instrument of vengeance and policy emploged against sovereigns by the court of Rome.

The execution of this sentence was artfully calculated to strike the senses in the higloest degree, and to operate with irresistible force on the superstitious winds of the people. The tation was suddenly deprived of all exterior exercise of its religion; the altars were despoiled of their ornaments; the crosses, the reliques, the images, the statucs of the snints, were laid on the ground ; and, as if the nir itself had been profaned, a aind might pollute them by its contact, the priests carefully covered them up, even from their own approach and veneration. The use of bells entirely ceased in all the churches ; the bells theniselves were removed from the steeples, and laid on the ground with thie other sacred atensils. Mass was celebrated with shut doors, and nooe but the priests were admitted to that holy institution. The laity partook of no religious rite, except baptism of new born infints, and the communion of the dying. The dead were not interred is consecrated ground; they were thrown into ditches, or buried in the common fields ; and their obsequies were not attended with prayers, or any hallowed ceremothy. . The people were prohibited the use of meat, as in Lent, mid debarred from all pleasires and amusements. Every thing wo e the appearance of the deepest distress, and of the most immediate apprectensions of divine vengeance and indignation.

Innocent having thus mude trial of his power, carried still ferther his ecclesiastical vengeance against the king of England, who was now both despised and hated by his subjects of all rapks and conditions. He gave the bishops of London, Ely, and Worcester, authority $\omega$ deaounce agdinist John the sentence of excommunication. His subjects -were absolved from their oith of allegiance, and a sentence of deposition soon followed. But as this last senteace required an armed force to execute it, the pontiff piteched

[^8].3 N
on Pisilip. II. King of France, as the person into whose band he could most properly entrust so terrible a weapon; and he proffered that monakch, besides the remission of all his sins, and, endless spiritual benefits, the kingdom of England as the reward of his babour.

Preparations for bostilities were making both in England and France, when John averted the storm, by means more conformahle to his character than mauly resistance. He came disarmed into the presence of the legate Pandolfo, who had been cmployed to, negociate, with the courts of London and Paris, swore fealty to the pope, and bound hinself to pay him a yearly tribute of 7 CO marks for, Fngland, and 300 for Ireland.

Though John was thus delivered from ecclesiastical censure, he was obliged to submit to his barons, and sigu that celebrated charter, which is justly considered as the first great bulwark of British liberty. They had entered into a confederacy, laid waste the royal domains, and reduced the king to such an extremity, that he beld a conference with them at Rumnemede; between Windsor and Staines, and there consented to comply with their requests. The most valuable stipulation in the charter, which was signed. at Runnemede, was the following conoession; "No man shall be apprehended, or imprisoned, or disseised, or enalared, or banished, or any other way destroyed; nor will, we go upon. lim, nor will we send upon him, except by the legal judgment of his peers, or by the law of the land."

The stipulations next in importance seems to be the following; To no man will we sell, to no man will we delay right and justice." The better to secure the execution of this charter, the barons stipulated with the king for the privilege of choosing 95 members of their own order, as conservators of the public liberties; and no bounds were set to the authosity of those noblemen, cither in extent or duration. If complaint was made of the violation of the charter, any four of the conservators might admonish the king to redress the grievance, and if: satisfaction was not obtained, they could assemble the shole council of 25 . This august body, in conjunction with the great council of the nation, was emposered to compel him to observe the charter; and in case of resistance, might lexy war against him. All men thronghout the kingdom were bound, under penalty of confiscation, to swear obedience to the 25 barons ; and the frecholders of each county were to chose 12 knights, who should make report of such evil custonis is required redress, conformable to the tenor of the great charter.

The uge which elapied between the conquest and Magna Charta, was the thost enlightened part of the long night of barbarism. The companions of bishop Beeket were many of them men of solid learning and good sense, possessing those qualities in such an etninent degree, as to render them instructive and entertaining even to modern readers, Unfortunately, however, they wrote only in Latin, and therefore contributed nothing to the polishing the Eaglish tongue.

It is now necessary to conclude this chapter, by noticing the suecession and domestic Listory of the Scottish hings.

Malcolin Kenmore, who was cotemporary with William I. was the firm friend and ally of Edgar Atheling. He comployed the interval of peace which succeeded his war with the Conqueror, in eodeavouring to civilize his countrymen, by the introduction of

## * BRITISH EMPIRE.

French and English manners. 'His conduct in this instance, though highly patriotic and praise worthy, has been censured by some Scottish historians, as encouraging laxury, and eaused him mach uneasiness in the time of his life. He was slain at the siege of Alnwick, in 1098 , but in wbat manner is variously related.

He was succeeded by the usurper Donald Bane, who found himself obliged to surrender the Northern isles to the Danes, and was nevertheless deposed by Digar, the son of his predecessor. Edgar, after reigning nine years in firm friendship with Eugland, died in 1107, and was succeeded by his brother Alexander I. surnamed the Fierce, from the impetuosity of his temper. Alexander laboured hard to suppress the exorbitant power of the nobles, was very severe in the execution of justice, and faithfully served king Henry I. in his wars with the Welch. He was succeeded in 1124 by his younger brother David, who took part with the empress Maud against Stephen, by whom he was defeated at the battle of the Standard. Malcolm IV. surnamed the Maiden, sueceeded in 1153 , be was a weak prince, and died in 1165. His brother William ungenerously encouraged the sons of Henry in rebellion against their father, was defeated by that king, and compelled him to do homage even for his Scottish dominions.

Richard 1. released him from this homage, on the payment of 10,000 marks, and he continued a faithful ally of the English till his death, which bappened in 1914.

## CHAPTER VII.

Great Beitara and Iereand —rom the signing of Mogna Charta to the accession of Herry IV.

WHEN John consented to the stipulations of his barons, he only dissembled till he should fiad a favourable opportunity to revose all his concessious, and in order to fácilitate such an event, sent abroad eurissaries Thedhist foreign mercenaries, and procured a bull from the pope, annulling the charter, absolving the king from his oath to ofserve it, and denounciag a general sentence of excommunication against every one who should persevere in maintaining such treasonable pretensions.

John now pulled off the mask : he recalled all that he had done ; and as bis foreigu nercenaries arrived along with the bull, he expectel nothing but universal submistion. But our gallant ancestors were not so easily fightened out of their rights. Langton, the primate, though he owed his elevation to an encroachment of the court of Rome, refused to obey the pope in सeblifing the sentence of excommunication agalust the barons. Persons of all ranks, among the clergy as well as laity, seemed defermined to maintain, at the expence of their lives, the privileges granted in the great charter. John had therefore nothing to rely on for re-establishing his tyranny, but the sword of his Brabançons: and that unfortunately proved too strong, if not for the liberties of England, at least for its prosperity. The barons, after obtaining the great charter, had sunk into a kind of fatal security; laving not only dismissed their vassals, but taking no rational measures for re-assembling them in any emergency; so that the king found limself master of the field, without any adequate foree to oppose him. Castles were defended, and skirmishes risked but no regular opposition was uade to the progress of the royal armies; while the ravenous mercenaries, incited by a cruel and incensed prince, were let loose against the houses and estates of the barons, and spread devastation over the whole face of the kingdom. Nothing was to be seen, from Dover to Perwick, but the flames of villages reduced to ashes, and the consternation and uisery of the helpless inhabitants.

In this desperate extremity, the barons, dreading the total loss of their liberties, their lives, and their possessions, had recourse to a remedy no less desperate. They offered to acknowledge as their sovereign, prince Lewis, eldest son of Philip Augustus, king of France, provided be would protect them from the fury of their enraged monarch. The temptation was too great to be resisted by a prince of Philip's ambition. He sent over instantly a small army to the relief of the barons, and afterwards a more numerous body of forces, with his son Lewis at their head, although the pope's legate threatened him with interdicts and excommunications, if he presumed to invade the dominions of a prisce under the immediate protection of the Holy See. Assured of the fidelity of his subjects, these menaces were little regarded by Philip.

The French monarch, however, took care to-preserve appearances in his violences, and only appearances. He pretended his son Lewis had accepted the offer from the English barons, without his advice, and contrary to his inclinations ; and that the ar-
mies sent into England were levied in that prinees rame. But these artifices were not emploged by Plilip to deceive. He knew that the pope had too mach penctration to be so easily imposed upon, and that they were too gross even to gull the people, but be knew, at the sanerime, that the marner of conducting any measure is of as much conseguence as the measure itself, and that a violation of decency, in the eye of the word, is more criminal than a breach of justice.

Lewis no sooner landed in Englanid, than John wis deserted by his foreign troops, whe, being principally French, refusedf to serve against the heir of their monarch; so that the barous bad the melancholy prospect of succeeding in their purpose, and of escaping the tyranny of their oan king by imposing on themselves and the nation a foreign yoke. But the inprindent partiality of Lewis to his countrymen increased that jealousy, which it तैas so natural for the English to cuitertuin in theif present situation, and dif great hurt to his chuse. Many of the dissatistied burons returned to the king's party; and Joho was preparing to make a last effort for his crown, when death put mit end to hif troubles and tis crimes, in the 49 the year of his age, aind the 18 th of his reign. His character is nothing tut a complication of vices, equally mean and odions; ruinotis to hiuself, and destructive to his people. But a sally of wit lupon the usual corpulency of the priests, more than all lis enormities, made him pass with the clergy of that age, for an impious prince. "How plump and well fed is this animal $\mathrm{f}^{\text {" }}$ exclaimed he, one day, "when he had caught a very fat stag: " and yet I dare-swear he has never heard mass,"

Jobn was sueceeded ly his son Heary III. only nine years old at his father's death ? and for once a minority proved of singular service to Eugtand. The earl of Pembroke, who, by his office of marshal, was at the head of the military power, und, consequently, in perilous times, at the head of the state, determined to support the authority of the infant prince.- He was chosen protector; and, fortunately for the young monarch, and for the nation, the regency could not have been entristed into more able or more faithful hands.

In order to reconcile all clases of men to the government of his pupil, ho made him renew and confirur the great charter. And he wrote letters in Henry's name, to all the malcontent barons, represcoting that whatger animosity they might have harboured against the late kiag, they ought to retain none against his son, who had now succeeded to hifs throue, but neitien to his resentments nor to his principles, and was resblvod to avoid thelf pathe which had led to such dangerous extremities a exhorting thinm, at the same time, by a speedy return to their duty, to restore the independency of the skingdom, and secure that liberty for which they haid so realously contended, and which was now' confirmed to them by a second charter. These arguments, enforced by itie/elaracten of Pembroke, had a mighty influence on the bamos. Most of them secretly negociated with him, and many of them openly returnet to their duty. Levis, therefore, who liad made a journey to France, and brought over fresh succours with him from thit tingtom, found his party much weakened on his return; and that the death of John, contrary to all expectntion, had blasted his favourite designs. He laid sieges toovever, to Dover, which was gallantly defended by Hubert de Borgh. In the meais Vol. 1.
fine, the French arinye corrmanded by the coint de Perche, wasitotilly defeated by the earl of Pembirokey before the costie of Linculn: and four bundred Nnights, with many persons of superior rani, weie made priamers hei the Eigglist, Leivis, when ifformed of this fatal event, returned-to London, which was the centre and lifo of his party, He thero rcceived intolligence of a new disaster, whieh extinguigthed all his hopesi A French ileet, with $n$ strong reinforcement on boirnl, liat beeui repalsed in the coast of Kent, and obliged to take shelter in their own harhour.
4. The English barons, after this second adrantage griaded ovor the French by the royal porty, histened from all quarters to make peace with the protector, and proveot; by ath carly submission, those attainders to which they were exposed or necount of their tebelLion; whilo Levis, whose catuse was now totally desperate, began to be anaxicas foirg 日ib' sefety of his person, and was glad, on any toternbte condition, to make lis escipe froantí country, where every thing wis lecouse hostile to hias: homecordiagly concluded wtrenty with Pembroke, by which he pronised to avecuate the Kingulom; only stipulating ih return, en indempity to his adhercens, ar restitation of their honoure aid fortunes, ath the free and equal enjoymient of those/libertick, Yhich had beon granted to thie rest of the aationt. Thus was happily terinipated de ciallatin, which scemed to spring frotu the most incurable hatied and jealorisy, and had thirctienct to inske Enghand a provtace of Fratace.

The pradence and equity of the protector, after the expmision of the Prenets, contributed to cure entirely thiose woinds which had been marle by intestine disdord:in He received the rebellious birous into fiven; olirerved strictly the terns of peace which the thad granted thena' ; restatod thein to their; possestionsy and endeavourod, by an - equal biehaviour, to bury all past animisities in ferpetual oblivion. ${ }^{\text {a }}$ But, unfortunately for the kingdom, this greit und gout man did not tong/forvive the pacification stand Menry, whien be cime of sige proved in/wenk ind contenptible prince - England was again involved is civil firoils, which it wonld be equally idle and impertinent to whiter; as they were neither followed, durihg many years by any event of iaportanee to society, nör attended with zuy eireumstançes whith ean throw fight imph the truttan eharacter: Thicir causes and consequences were alike iesigoificantic it is necessary, however, to observe, that the king baving dntrivid Eleanoc, ilatighter of the conntiol Provehce, was* "torrounided by a mulfitadel of itmigers, froui flat mid other countrios, whom he cad Tressell with tho fondest affection, huil oariched by un impritient feuserositya)/ Thie/ insolence of these foreiguers is suid to hive arisch to such in beight; that when, on hecount et their outrages or Appressions ith appeal mas made to the lavi they scropled not to
 funtempt of the Iughishe constitutioh roused the rtsedtinent of the barons, innd temped zuch to "gerivise flic generit disconment arhing from the preference shiewn to strungergy
 but ua insu t. Yet no reuponstrance or complaint could ever prevnil on, the timg to

 ed more tulecible to the Eioglish; had miny thing bevn done for the berefit of the nation';
 Iry to himself or the peblien. Neiftier of these? hovever, was tho caserpials improdefoce igoveried thb poliey wiffortine marked his measmes. He deelarod i war sagainst Fhance, and imader in expedition into Guieune; upon the iavitation of his ettierrin-daw, NTo prounised to jotit binin-with all lits forees; but be ing worstel at Tailelouing be sas Deserted ty bis alliteg lost awlint remsined to hím of Poitoo, and was obj)iged to resump with diegnace into Eangland.
Wewat of economy, and antilfjudged liberality, wero the greent defocts of Ueriry's domestio ndministration. These lept him alwiys, needy, and obliged binp continally to Whams this bacons' for mones; under different pretenceshaf heir discontents were theteby Alperoased, vand he was still a begigars, Fvoin theforelhis foreiga expedition, lik delits lint fibecome so troublesome, the he sold all his plate and jenels, it order to discharger thans

 Apgustos arele brought tó wale, the ditikens are able to be tho purehnsers.' Thpse eperus who wstume to theinisdees the thanie of barons, abaund in everg thing opialo we arever
 sactions dipue the cilfacis.
24. Many, hovever, as were tho frievances that the Boglish, doring this teiga, had reason to conaplain of in thein sivil goverainait, they seem to have bren still lens burthenapime thau those which proceedol fioun spirituat usurpations: and abases; apil whíh Afenry, who relied on the pope for the stipport of his tottering unthosity, never fafled ito conntonneef All the clief bevefioes of tho kingdom weres conferred on Italians, Ggreht intubers of whom xero,sent over to be provided for: and non-residence and plashatities wire caried to so emproious a height. that Mansel, the Jing's claplain, is curpiputed to haved beld, at one time, 700 eceleciastical liviugs. The pape exacted the Trevempe of at varaut tenefices; the goth of ati ectesialical revenues, without exexptionat the thirid of such as exceeded 100 marks a yegr, mud the tuiff of such as were
 We pivanaded a-righe to- intherit alf money got by usarg, and ho levied volutary conItributians ort the peoples
Wint the most oppressive expedient employed ty the coart of Mome, in order to dimin anopey floinv Raglanch was that of embarking Henry ia a project for the conquest iof Sicily: On the death of the emperor Frederic 11. the succession of that idand de-
 And asy Maiafiny, the puperor's antural sou, under pretence of govecring tho kingdom uturing the mioprity of tho somng' prinow. Lad farmed a scheme for nsurping the noreFelienty, Finocunt IV F Iad id goot apology for exerting thar supctiority with the papas ctriniod over sicily, mad it thif wimo tinid of getaifying bis hatrod againgt the louse of Suibial
 appointod in all his gaterprisos, by the hetivity and artifieus or Mainfiny und finding

to Richard, earl of Cornwall, brother to Henry III. and supposed to be the richest subject in Europe, Richard had the prodence to reject tie dangeraus present, buit wot the power to prevent the evil. The same offer being aftersards mude to the king in fivour of his second son Edmund, that weak monarch was led by the levity and thoughtlensness of his disposition, to embrace the insidious propasal, and imniense sume mere drained from England, under pretence of canrying this project into execution a fir the pope took that opon himself. But the money was still found jnsufficient: the conpurat of Sicily was as remote as ever Heary, therefore, seasible at léngth of the chrat, mas obliged to resign into the pope's hamds that cromn which he had more than purclaseds but which it was never intended either he or his family should inberit. The canl of Corawall hat uow season to value hioself on his foresight, in refusing the fraudutent bargain with Rome, and in preferring the solid hopours of an opulent and povefful prince of the blood in England, to the empty and precarious glory of a forcigp digaity; but be had not always firmness sufficient to adbete to this resplutione Ilis inimense weath made the Gerinan princes cost thefreye on him us a conididate for the enpires offer the death of William of Holland; and his vanity and ambition for ance prevalled oover bis Prudence and his avarice s he weat over to Germany, was tempted to expend vast sums on lis clection, and succeeded so far as to be chosen by a fuction, and crowired ait Ais-la-Chapelle; but having no personal or family comnections in that country, fe never could attain any solid powers be therefore found it necessary to return dato Dagland, after having lavished away the frogality of a shole life, in onder to procure a isplendid title.
England, in the mean wille, tras, involved in new troubles, The weakness of Heniry's government, and the babsence of his brother, gave reins to the factions and turluient spinit of the baroas. They deinanded an extension of their privih sleges, and if we may credit the listorians of those times, had formed a plan of so many limitations on the rayal authority, as swould bave reduccd the king to a mere; cypher. Henry would agree to nothing but a renewal of the great charter; which, at the desire of the barons, was ratified in the following manner. All the prelates and abhots were nisembled, they held burning tapers in their hands; the ereat chartee was read before them; they denounced the sentence of excommunication against every one who should ciolute that fundaniental lav ; they threw their tapers on the ground, and exclaimed, in. May the sonl of every ove, who incurs this sentence, so stink land corrupt in hell." The king also bore a part in the ceremony, and suhjoined, "So help me God 11 will teep all these articles inviolate, as I am a mun, as I am a Christian, as I am a knight, and as I am a king crowned and anointed." This tremendons ceremony, hovever, was no sponer over, than the king forgot his engagements, and the bavons reneired their pretensions. At the head of the malcontents was Simon de Mountfort, carl of Leicester, a man of great talents and boundtess ambition, who had married Eleanor, tho king's sister, and hoped to wrest the sceptre from the feeble and irresolute hand that held it. He represented to his associates the necessity of reforming the state, and of putting the execution of the laws into other hands than those which had litherto been found, from repeated experience, unfit for that important charge After so many submissious/ and
fruitless pronties, the king's word, be satd, could no tenger be relied on, and his inability to violatel national priviegos could thencefonh only insure their preservationi These observations, which were founded in truth, rathl catiroly conformable to the sentiments of thiose to whom they wereladdressed, bad the desired effect. The barons resolved to take the uidiminstration lito theit own hands; anil Ifoury laving sumationed a parliament at Oxford, found himself a prisoner in his national council, and was obliged to submit to the terms prescribed to him, called the provisions of Oxford. Aecording to these provisions, twelve bacons werc solected from among tho king's ministers ; 19 more were chosen by the parligrient; and to those of barons unlimited authority was granted to reform the state. Leicester was ht the head of this legislative body to which the supreme power was in rcality transferred : and their finst step soened- uell calculated for the end which they professed to have io view. They ordered that fout kuights should be chosen by pach county ; that they should make inquiry into the: grieyances of which their neighbourhood had reason to complaia, and should attend the ensuing parliament, in order to give information to that assembly, of the state of their purticular counties.
© The eari of Leiecster and his associates, however having advanced so far as to satisfy: the nution, instcad of continuing in the same popular course, immediately provided for the extension and continuation of their own exorbitant authority, at whe expence both of the king and the people. 7. They enjoyed the supreme power near threo years; and visibly amployed it, not for the refotination of the states their original preteace for assuming it, but for the nggrandisement of themselves and fatuilies. The treach of trust was evident to all the world : every order of men in England felt it, and ruurmured against it; and the pope, ia order to grin the fasour of the nation, absolved the king and all his subjects from the oath which they had taken to observe the provisions of Oxiord.

As soon as Menry received the popo's absolution from his oath, with threats of excommumication against all his opponents, he resumed the goverament; offering howevef, to maintain all the regulations made by the reforming baroms, exeept thoso which entirely amaiailated the royal authority. Bat theseshaughty chieftains could not peaceably resign that uncontrouled power which they had so long enjoyect. Many of thean adopted Leicester's views, which beld in prospect nothing less than the thruae itself., The cist war was reaewed in nill iss horrors : and after several fruitess neguciations, the collected force, of the two.partios met near Lewes in Sussex, where the royat arny was totally defeated, and the king and prince Edward made prisoners.
No soonor hat Leicestor obtained this victory, and got tho rogal fumily in his pofict, than he acted assole master, and even tyrunt of the kingdom: he scizert tho estates of no less than 18 barons, as his share of the spoit gained in the battle of Lewes ; lie cogrossed to himself the ransom of all the prisoners, and, whit his barons, with wantoh insolence, that it was suficient for them that he had saved them, by that victory, fiom the forfeitures and attainders which lougg over them. All the officera of the crova were named by him; the whole authority, as welt as arms of the statp, were lodgred in bis hunds

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But it was impossible that things could remnin long in this equivecal situation. It became necessary for Leicester cither to descend to the rank of subject, or mount up to that of a sovereign : and he could do neither without peril. He summoned a new parliament; which, for his own purposes, he fixed on a more democratical basis then any called stince thie Norman conquest, if not from the foumdation of the monarclyy ho ordered returns to be made, not only of two laights from every shire, but also of deputics from the bormughs: and this introduced into the national council a second order of men, hitherto regerded as too mean to enjoy a place in throse august assemblies, or to have any siare in the governmeat of the state. But although , we are indebted to Leicester's usurpation for the first ride outline of the house of commons, his policy only forwarded, by some years, min institution, for which the general state of society had already prepared the mation; and that house, though derived from so invidious an origin, when summoned by legal princes, soon proved one of the most useful members of the constitu(ien, and gradually rescued the kingdom, as we athall have oceasion to see, both from aristocratical and regal tyramy." It is fut just, however, to observe, that as thas necessary, and now powerful branch of our constitution, owed its rise to usurpation it is the only one of the three that has latterly given an usurper to the state. The person to whom I allude is Oliver Cromwell; nad I will be so bold as to affirm, that if ever Fng land be again subjected to the absolute will of one man, unless from abroad, that man must be a member of the house of commons. The people are alike jealous of the poiver of the king and the nobiles; but they are themselves greedy of dominion, and can only possess it through their representatives. A popular member of the lower house, therefore, neods only ambition, eiterprise, and a favourable coujaneture, to overturn the throne ; to strip the nobles of their dignities ; aid, while he blows the trampet of Hiberty, to tell his equals they are slaves.
: Leicester's motive for giving this form to tho parliament, was a desire of crushing his rivals ainong the powerful barons; and trusting to the popularity acquired by such a measure, he made the carl of Derby be accused in the king's name and ordered him to be seized and committed to prison, without being brought to any legal trial. Several Otber barons were threatened with the same fite, and deserted the confederacy, The royalists flew to arms; prince Edward made liis escipe : and the joy of this young hero's appearance, together with the oppressions under which the nation laboared, soon produced him a force which Leicester was unable to resist. + A battle uns fought near Evesham, where Leicester was slain, and his army totally routed. When that nobleman, who possessed great military talents, observed the wast superiority in numbers, and excellent digposition of the royalists, hie exclafaed, "The Lord have mercy on our souls ! for I sce our bodies are prince Edward's: he has learned from me the art of war."

Another particular deserves to be noticed. The old king, disguised in armour, hiving been purposely placed by the rebels in the front of the battle, had received a wound, and was ready to be put to death, when he weakly, but opportunely, cried out, ${ }^{4}$ Spare my life! I am Henry of Winchester, your king. His brave son flew to hifs sescue, and put bim in a place of safety. The victory of Evesham proved decisive in
fivour of the rogal party, but was usod with moderation. Although the suppression of so extensivel a rebellion commonly produces à revolation in goverament, and strengthens as well as enlarges the prerogatives of the crown, no sacrifiees of national liberty were zxacted upon this oceasion. The elemency of this victory is also remarkable; no blood was shied upon the scaffold. The mild disposition of the king, and the prudence of the prince, tempered the insolence of powery and gradually restored_order to the several members of the state. The affairs of England were no sooner settied thon prince Edwatd, seduced by a thirst of glory, undertook an expedition into the Holy Land; where he sigualined himself, by many acts of valour, and struck such terror finto the Saracens, that they employed an assassin to murder bin. The ruffian wounded Edward in the arm, but paid for his temerity with his life. Mean while the prince's absence from Eugland was productive of many pernicious consequences, which the old king, unequal to the burdēn of goverimient, was little able to prevent. He therefore implored his gallant son to returi, and assist him in swaying that sceptre, which wis ready to drop from his feeble hands. Edvard obeyed; but before his arrival the king expired, in the 64 th year of his age, and the 56 th of his reigu, the longest in ahe English amnals.
(The most obvious feature in the character of Henry III, is his weakness. From this source, rather than from insincerity or treachery, arose his negligence in observing his promises ; and hence, for the sake of piesent conveniency, he was easily induced to sacrifice the lasting advantages arising from the trust and confidence of his-people. A beiter head, with the same disposition, woold have prevented him from filling into so many errors: but (every good has its allay !) with a worse heart, it would have en abled him to maintain them.

Prince Edward had reached Sicily, in his return from the Holy Land, when be ioceived intelligence of the death of his father, and immodiately proceeded homeward. But a variety of objects claim attention, before I carry farther the transactions of our own island, which now become truly important. The reign of Edward I. forms a new era in the listory of Britain.
As soon us Edward returned to England, where his authority was firmly established, by bis higa character, both at home and abroad, be applied bimself assiduously to the correcting of those disorders, which the civil commotions, and the loose administration of his father, hiad introduced into every part of governaient. His policy, though severe, was equally liberal and prudent. By an exact distribution of justice, and a rigid execution of the laws, he gave at once protection to the inferior orders of the state, and diminished the arbitrary power of the nobles. He made it a rule in bis own conduct to abserve, except upon extraordinary occasions, the privileges secured to the barons by the great charter, and he insisted on their observance of the same charter towards their vassals; the made the crown be regarded as the grand fountain of justice, and the general asylum against violence and oppression. By these wise measures, the state of the kingdom was soon wholly changed; order and tranquillity were restored to socicty, and vigour to government.
Now it was, that the enterprising spirit of Edward began more remarkably to shew

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## BRIHSH EMPIRE.

A. D. 1276-5284.
ikelf. He undertook an expedition oggainst Lewellyn, prince, os Wules, who had forsuerly joined the rebellious barons, and whosa two brothers, David and Roderic, thad fled to Edward for protection; eraving his zssistance to recover their possessions, and seconding his attempts to enslave their native country. The Welch prince bad tno resource against the superior force of Ediward, but the inaccessible situation of his mountains, which had hitherto protected his forefathers against all the attempts of the Saxon and Norman conquerors. He accordingly retired with the bravest of his sulyjects among the hills of Snowden.
But Edward, wo less vigorous than cautious, pieroed into the heartiof the country, and approached the Welch army in its last retreat. Having carefilly secured every pass belind him, he davoided putting to trial the valour of a nation, proud of its antient independency: he trusted to the more slow but sure effects of famine for success; and Lewellya sas at length obliged to subinit, and receive the terms imposed upon liint by the Euglish monarch. Thesé terms, though sufficiently severe, were but ill observed byithe victors : the English oppressed and insulued the inhabitants of the distriets which repre yieided to them. The indiेgnation of the Welch was roused: they flow to arms ; and Edward again entered Wales with an army, not displeased with the occasion of making his conquess fimal. This army he committed to the command of Roger Mortimor, while he himself, waited the event in the caste of Rudlalan şand Lewellyn, having ventured to leave his fortresves, wat defeated by Mortimor, and stain, togethee with 2000 of his followers. All the Weleh nability submitted to Pdward, and the laws of Eugland were establistied in. that principality. In order to preserse his conquest, Edward had recourse to a barbarous policy. He ordered David, boother to Lewellyn, tud his successor in the principality of Wales, to be hanged, drawn; and quartered, as a traif tor, for taking armstin defence of his native econtry, which he lad once unhappily deserted, and for maintaining by force his own hereditary anthority. He also orderd all the Weleh bards to be collected together and put to death; from a belief, and no absurd one, that be slomid more casily subdte the independent spirit of the peopie, when thels minds ceased to be roused by the ifleas of military valour and antient glory, preserved in the traditional poems of these minstrels, and recited or sung by then on all public occasions add days of festivity.
It is now necessary to attend to the affiurs of Seotlanch, Williain II, who died in the years 1214 was succeeted by his son. Alexander II. a youth of 16 . He earied on' a very cruel war with John, in consequence of pretensions to the northern English counties ; he was the faituful ally of Lewif, as long as that prince was able to maintain his gronnt in Euglabd. In the year 1egI he capoused the priacess Margary of England, und remainod, during her life, on good termsi' with hen father Henry III. After the death os the queen, scoldness commeaced between the two courts, whichidid not, bowever, produco hostilities on cither side. His son and successor, Nexander III: ascerided the throne in 1249. The next year he married the daughter of Henry, who thought this a proper opportunity to cause him to do butnage for allh Scotiond; but was disnppuinted in nis ambitious designs, through the good sense and firmness of the young prince. $\mathrm{H}_{\mathrm{F}}$ *7s together with bis queen, inprisoned is, the castle of Edinburgh. by tirc turkutent
ftmily of the Cummins, who hind at this time obtained the real command of Scotland. Being delivered from this bondago by his father-in-law, he at length triumphed over all opposition, was restored to the exercise of royal authority, which he employed with great wisdom and moderation, suppressing internal commotions, enlarging his dominions by procuring from Magnus, king of Norway, the cession of the Northera isles, and remained the peaceable neighbour and faithful ally of the English, till he was killed, in the year 1985, by his horse rushing down the-black rock, near Kinghom where he was hunting.

As Alexauder left no male issue, nor any descendant except Margaret of Norway, his grand-daughter, who did not long sarvive him, the right of succession belonged to the descendants of David, carl of Ifuntington, third son of king David I. Of that line two illustrious competitors for the cronn appeared; Rubert Bruce, son of Isabel, earl David's second daughter, and John Maliol, grandson of Margaret, the eldest daughter. Each clatin was supported by a powcrful faction, and as the dispute was esteemed equally weighty and intricate, the Scottish parliament, or at least the English party, resolved to refer the decision to Edward I. The English monarch, upon pretence of examining the question with the utmost splemnity, summoned all the Scottish barons to attend him to the castie of Norhani, a place situate on the southern bank of the Tweed, and having gained some, and intimidated others, he prevniled on all that were present, not excepting Bruce and Baliol, the two priacipal competitoss for the succession, to acknowledge Scotland a fief of the Einglish crown, and to swear fealty to him as their sovereign lord; be then demanded and received possession of the disputed kingdom, that he might be able to deliver it to him whose right should be found preferable. He soon after gave judgment in favour of Baliol, who was not only the least formidable, but possessed the best claim, nccording to the modem ideas of the right of inheritance. Baliol renewed the oath of fealty to Eugland, and was put in possession of the kinglom. Thus far Edward scemed to have preserved some uppearance of jostice, but the subsequent part of his condact toward Scothand will not admit of any vindieation.

Having thus establistual his unjost pretensions to the feudal superiority of Scotlant, he next aspired to the absolute sovercignty of that country : he attempted to provoker Baliol by iodiguities, to rovise him to rebellion, and to rob him of his crown. Dilliot, unable to bear these oppressions, entered into a leagre with France, that he might the better maintaia his independency.

Edward was obliged to have frequent recourse to parliamentary supplies, in onder tot enable him to retluce Scotland by arms, and in the Qsd year of his reign, issued writs tó the sheriffs, enjoining them to send to parliarient two knights of the shire, and two de-1 puties for each borough within their county, provided wittr sufficient powers̀ from their community, to consent to what levies were necessary for thelsupport of government./ in 1 ?

Edward employed the supplies granted by his jeople in warlike preparations ngminst his northern neighbours : he cited Baliol, as lis vassal, tol apiear in an Eiglish iparliaal ment, to be held at Newcastie. But that prince, having now received pope Celestinest dispensation' from his oath of fealty, renounced the liomage which hiditieen doneitd

Vol. 1.

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Fogland and set Fivard at defience. This bravado was but il supported by the oft litiry operations of the Scots. Elward crossed the Tweed without opposition, at the head of 30,000 foot, and 4000 horse. Berwick was taken by assault ; the Scottisl) army yas totally routed uear Dunbar; the whole southem part of the kingdom was subdued; and the timid Daliol, discontented with his own subjects, and overawed by the English, instead of making use of these resources which were yet left, hastenced to make his subuissions to the conqueror: le expressed the deepest penitence for his disloyalty to his liege lord; and he made a solemn and irrevocable renunciation of his crown into the hands of Ejward. The Eaglish monarch marched as far north as Aberdeen and Elgin, without meeting a single enemy. No Scotsman approached him, but to pay him submission and do lim homage. Even the turbulent Highlanders, ever refractory to their own princes, and averse egainst the restraints of law, endeavoured by a timely obedience to prevent the devastation of their country; and Edwand, flattering hinself that he had now obtained the great object of his wishes, in the final reduction of Scotland, left earl Warrenne governor of the kingdom, and returned with his victorious army inta Euglank:

Hereva few pariculars are necessary. There was a stone, to -which the popular superstition of the Scots paid the highest veneration. All their kings were seated on it when they received the right of innuguration. Antient tradition assured them, that their nation should always govern where this stone was placed; and it was carefully freserved at Scone, as the true palladium of their monarch, and their ultimate resource under all misfortunes. Edward got possession of it, and carried it with him into England.

He also gave orders to destroy all the records, and all those monuments of antiquity which might preserve the memory of the independency of the kingdom of Scotland, and refute the English claims of superiority. The great seal of Baliol was broken, and that prince bimself was carried prisoner to London, and committed to close custody in the tower. Two gears after be was restored to liberty, and submitted to a voluntary banishment in France; where, without making any fatther attempt for the recovery of his royalty, he died in a private station.

In tne mean time England had been robbed of Guinne by the French king, who employed an artifice similar to that which Edward had practised against the Scots, The king of England having made several unsuccessful efforts to recover the province, entered into an alliance with the earls of Holland and Flanders, and hoped that when he should enter France at the head of his English, Dutch, and Flemish arunics, Philip would purchase peace by the restitution of Guinne.

But in order to set this wast machine in motion, considerable supplies were necessary from parliament ; and these Edward readily obtained both from the lords and commons. He was not so fortunate in his imposition on the clergy, whom he always bated, and from whom he demanded a fifth of all their moveables, as a punishment for their adherence to the Mountford faction. They urged the pope's bull in opposition to all such demands; and Edward, instead of applying to Bonifice VIII, then pontiff, for a ro-
laxation of his mandete, bohily told the ccelesiastics, that since they refused to support the civil government, they weic unworthy to receive any benefit from it, and he accordingly put them out of the protection of the laws.

But, though by this method he brought them to submission, thése supplies were not sullicient for the hing's necessities. He was obliged to exert his arhitrary power, and lay an oppressive hand on every order of inen in the kiugdom. The people murmured, and the barons mutinied, notwithstanding their great personal regard to Edward, Ho was obliged to make concessions; to promise all his subjects a compenstation for the losses they had sustained, and to confirm the great charter, with an additional clause, in order to secure the nation for ever against all imposition and taxes withont consent of parliament. These concessions our ancestors had the honour of extorting, by their belduess and perseverance, from the ablest, the most warlike, and the most ambitious monarch that ever sat upon the throne of England. The validity of the great charter Was never afterwards formally disputed.

Earl Warrenue haxing returned to England, on account of his ill state of health, had left the administration of Scotland entirely in the bands of Ormshy sad Cressingham, the officers next in rank; who, instead of acting with that prudence and moderation necessary to reconcile the Scottish nation to a yoke which they bore with such extreme relactance, exasperated every man of spirit by the rigour anal severity of their government.

Among these William Wallace, whose heroic exploits are worthy of just panegyric, but to whom the fond admiration of the Scots has ascribed many fabulous acts of prowess, mndertook and accomplished the desperate project of delivering his native country from the dominion of foreigners. He had been provoked by the insolence of an English officer to put him to death, and finding himself on that nccount obnoxious to the conquerors, he fled into the woods, and offered himself as a leader to all whom the oppressions of the Euglish governors had reduced to the like necessity. He was of a gigantic stature, and endowed with wonderful strength of body ; with invincible fortitude of mind; with disinterested magnamimity ; with incredible paticnce, and ubility to bear hunger, fatigue, and all the severities of the seasons; so that he soon acquired among his desperate associates, that authority to which his virtues so eminently entitled him. Every day brought accounts of his gallant actions, which were received with no less favour by his countrymen than terror by the enemy. All men who thirsted after military fume were desirous to partake of his renown : his successfui valour seemed to tindicate the nation from the ignominy under which it had fallen by its tame submission to the English; and although no nobleman of note venturcd yet to join the party of Wallace, he had gained a general contidence and attachment, wifch birth and fortune alone were not able to confer.

So many fortanate enterprises brought the valour of the Scottish chrieftrin's followers to correspond with his own: and he determined to strike a decisive blow agginst the English government. Ormsby, apprised of this inteution, fled hnstily into England; and ult the other officers of his nation imitated his example. Their terror added courage to the Scots, who betook themselves to arms in every quarter. Mayy of the prineipal barons
openly countenanced Wallace's party: and the nation, shaking off its fetters, prepared to defend, by one united effort, that liberty which it had so unexpectedly recovered from the hands of its oppriessors.

Mean while Warrenne, having collected an army of 40,000 men in the North of England, in order to re-establish his authority, suddenly entered Annandale, before the Scots had united thicir forces, or put themselves in a posture of defence; and many of the nobles, alarmed at the dangor of their situation, renewed their oaths of fealty, and received a pardon for past offences. But Wallace, still undaunted, continned obstinate in his purpose. As he found biniself unable to, give battle to the cnemy, be marched northwards, with an intention of prolonging the war, and of torning to his advantage the situation of that mountainous and barren country. Warrenne attacked him in bis camp near Stirling, on the banks of the Forth, where the English army was totally routed. Cressingham, whose inspatience orged this attack, was slaill; Warcone was. obliged to retire into England, and the principal fortresses in Scotland surrendered to the congueror.

Wallace was now universally revered as the deliverer of his country, athd received from his followers the title of regent or guardian of the kingdom, a dignity which he weil deserved. Not satisfied with expelling the enewy, he urged his army to march inito England, and revenge all past injuries, by retaliating on that hostile vation. The Scots, who deemed every thing possible with such a leader, joyfully attended his call. They broke into the northern connties during the winter season, laying every thing waste before them ; and after extending their ravages on all sides, as far as the bishopste of Dorham, retiracd into their owt country loaded with spoits, and crowned with alory, under the victorious Wallace.

Edward was in Flanders, when he received intelligence of these events ; and having already concluded a peace with France, he hastened over to England, in assured hopes, not only of wiping off every disgrice, but of recovering the iuportant conquest of ScotJand, which he had always considered as the chief glory of his reign. With this view, he collected the whole military force of England, Wates, and Ireland; and with an arany of 100,000 combatants, entered the devoted kingdom.

Scotland was never at any time able to withstund such a force. At present it was without a head, and tora by intestine jealonsies. The clevation of Wallace was the object of envy to the nobles, who repined to see n private man raised above them by his rank, and stil more by his reputation. Sensible of these evils, Wallace resigued his authority; and the chief command devolved upon men more etuinent by birth, though less distinguished by abilities, but under whom the nubles were more willing to serve in the defence of their country. They fixed their station at Falkink, were Ndrard came up with them, and the whole Scottish army was broken and chased off the fiedd with great staughter.

The subjection of Scothand however wis not yet accompli-hed. The English aroy, affer reducing all the southern province, was obliged to retire for want of provisions : and the Scats, no less enraged at their present defeat than elevated by their past victorics, still maintained the contest for liberty. They were again victorious, and again sub-
dued. Wallace alone maintained his independency, amidst the universal slivery of his countrymen. But he was at length betrayed to the English by his friend, sir John Monteith: and Edward, whose natural bravery and magnanimity should have led hiom to respect like qualities in an enemy, ordered this illastrious patriot to be carried in cbains to London; to be tried as a rebel and traitor, though he had never made submission or sworn fealty to England, and to be executed on tower-hill. He could not thiak his favourite conquest secure whilst Wallace was alive. Hence the unvorthy fate of a man, who had defended for many years, with signal ralour and perseverance, the liberties of his native country.

But the barbarous policy of Edisard failed of the purpose to which it was directed. The cruelty and injustice exercised upon Wallace, instead of breaking the spirit, only roused more effectually the resentment of the Scots. All the envy, which, during this lifetime, had attended that gallant chieftain, being now buried in bis grave, he was universally regarded as the champion of Scotland, and equally lamented by all ranks of men. 'The people were every where disposed to rise against the English government: and a new and more fortonate leader soon presented himself, who conducted them to liberty, to victory, and to vengeance.

Robert Bruce, son of that Robert, who had been one of the competitors for the crown of Scotland, had succeeded, in consequence of his father's death, to all his pretensions; and the death of John Baliol, which happened about the same time in France, seemed to open a full carcer to the genius and ambition of this young nobleman. He had formerly served in the English arny; but it is said by some bistorians, that in a private conference held with Wallace, after the battle of Falkirk, the flame of patriotism was suddenly conveyed from the breast of one hero to that of another. Bruce regretted his engagement with Edward, and secretly determined to seize the first opportunity of rescuing from slavery his oppressed country. The time of deliverance seemed now come. He hoped that the Scots, without a leader, and without a king, would unanimously repair to his standard, and seat him on the vacant throne. Inflamed with the ardour of youth, and buoyed up by native courage, his aspiring spirit saw ulone the glory of the enterprise, or regarded the difficulties that thost attend it, as the soarce only of greater glory. The miseries and oppressions which he had beheld his countrymen suffer in their unequal contest for independency; the repeated defeats and misfortunes which they had undergone in the struggle, proved but so many incentives to bring them relief, and to lead them, boiling with revenge, against the haughty victors.

In consequence of this resolution, and some suspicions that Edward was apprised of it, Bruce suddenly left the English court, and arrived in a few days at Dumfries in Annandale, the chief seat of his family interest. There a number of the nobility were happily assembind, and among the rest John Cummin, to whom he bad formerly communicated his designs, and who had basely revealed them to Edward. The noblemen were astonished at the appearance of Bruce, and yet mote when he told them, that he was come to live or die with them in defence of the liberties of his country; and loped with their assistance, to redeem the Scottish name from all indignities which it had so

Vol. I.
long suffered from the tyrapny of their imperious masters, It were better, he said, if heaven should so decree it, to perish at onee like brave men, with swords in their hands, than to dread long, and at last undergo the fate of the unfortunate Wallace. The spirit with which this discourse was delivered, the bold sentiments which it conveyed, the noveity of Bruce's declaration, assisted by the graces of his youth and manly deportment, made deep impression on the minds of the nobles, and roused all those principles of indignation and revenge, with which they had long been secretly actuated. They declared their' onanimous resolution to use the utmost efforts in delivering their country from bondage, and to second the courage of Bruce in asserting his and their undoubted rights against their common oppressors. Cummin alone, who had privately taken his measures with Edward, opposed the general determination, by representing the great power of the Euglish nation ; and Bruce, already informed of his treachery, followed him out of the assembly, and runring him through the body, left him for dead. . Sir Thomas Kirkpatrick, one of Bruce's friends, asked him on his return, if the traftor was slain. "I believe so," replied Bruce. "And is that a matter," cried Kirkpatrick, "to be left to conjecture? I will secure him." He accordingly drew bis dagger, ran to Cummin , and stabbed him to the heart.

The murder of Cummin affixed the seal to the conspiracy of the Scottish nobles. They had now no resource left, but to shake off the yoke of England, or perish in the attempt. The genius of the nation roused itself from its long dejection; and Iruce, flying to different quarters, excited his partizans every where to arms. Ife successfully atzacked the dispersed bodics of the English; got possession of many castles; and having made his authority be acknowledged in most parts of the kingdom, was solemnly crowned at Scone, by the bishop of St. Andrew's who had zealously embraced his causc. The English were again driven out of the kingdom, except such as took shelter in the fortresses still in their hands; and Edward found that the Scots, already twice conquered by his valour, were yet to subdue.

Conscious, however, of his superior power, as well as superior skill in arms, this great monarch made light of his antagonist. He thought of nothing but victory and vengeance. He sent a body of troops into Scotland, under Aymar de Valence, his general ; who falling unexpectedly upon Bruce, threw his army into disorder, and obliged him to take shelter in the Westeru Isles. Edward himself was advancing with a mighty force, determined to make the now defenceless Scots the victims of his severity, when he unexpectedly sickened and died at Carlisle ; enjoining with his latest breath his son and successor to prosecute the war, and never to desist till be had finally subdued the kingdom of Scotland. But that, as we shall have occasion to see, the second Edward was little able to accomplish.

The character of Edward I. as a warrior and pulitician, has already been sufficiently delineated. We shall therefore forbear touching again on those particulars, and conclude this account of his reign with his merit as a legislator, which has justly obtained him the honourable appellation of the English Justinian. The numerous statutes passed during his reign settle the chief points of jurisprudence; and, as sir Edward Coke observes, truly deserve the name of establishments, because they have been more constant,

## BRITISH EAFPIREIF

standing, and durable laws, than any turde sinee. The regular order maintained in hif udinimistrations also gave the common law an opportunity to refine itself, brought the judgest to a certainty in their determinations, and the Inwyers to precision in their pleading:

He regalated the jurisdiction of the iseveral courts ; established the office of justice of peace, completed the division of the court of excliequer into four distinct courts, each of which mannged its separate branch, without depentence opon any one magistrate; and as the lawyers afterwards invented a method of carrying busineis from one court to unother, the severat courts pecame rivats and clechs on each other; a circunstafice which tended very much' to improve the practice of the law in this country. But although Eadrand took so moch care that his subjeets should do. justiee to each other, we caanot ascribe it to his love of equity, for in all his transactions either with them or with his neighbours, be always desired to have his own hands free: and his violences upon both were not few.

No pince ever ascended the English throne with more advantages than Edward II. $11 e$ was in the g3d year of his age, and universally beloved by the people, both on account of the sweetness of his own disposition, and as the son and successor of their illustifous monarch. He was at the head of a great arny, ready to subject the whole island to his sway; and all men promised themselves tranquillity and happiness under his government.

But the first act of his reign blasted all these bopes, and shewed him totally unqualified for his high station. Instead of prosecuting the conquest of Scotland, according to the desire of his father, he returned into England, after a few feeble efforts, and iumediately distanded hís forces ; although Robert Bruce tiad before this time emerged from his olseurity, and was become sufficiently formidable to make more vigorous measures necessary.

The next step taken by Edward was no less weak and imprudent. He recalled Piers Gaveston, a youthfut favourite, whom the late hing had banished the realm on account of lis ascendancy over this prince; and whom, on his death-bed, he had made him promise never moro to entertain. Gaveston was the son of a Gascon kuight of some distinction, and by his strining accomplishments had early insinuated bimself into the affections of young Edward, whose heart was easily caught by appearances, and strongly disposed to friendship and confidence. He was endowed with the utmost elegance of shape and person; was noted for a five mien and easy carriage; bad distinguished himself in all warlike and genteel exercises, and was celebrated for those quick sallies of wit in which his countrymen usually excel. Dittle wonder that such a person was thought necessary to a gay monarch, whose foibles lie was able to flatter: but a wise king will have no public favourite, and still less a foreign one. Edward experienced this danger.

Gaveston no sooner arrived at court than the was loaded with tienefit, and exalted to the lighest honours. The king bestowed upon him the earidom of Cornwall, which had escheated to the crown, by the death of prince Edmund, son of Richard, king of the Romams. He married him to his own niece, and seemed to enjoy no pleasure in
his royalty, but as it served to add lustre to this object of his fond idolatry. The haughty barons, already justly dissatisfied with Edward's conduct in regard to Scotland, were caraged at the superiority of a minion whom they despised. Nor did they take any care to conceal hhoir animosity. Mean while Gaveston, instead of disarming envy by the moderation and modesty of his belaviour, displayed his power anit influence vith the utmost ostentation. Eivery.day multiplied his enemies ; and nothing was wanting but time to cement their union, and render it fatal both to him and his mastor.

The union' was at length effected by Thomas earl of Laneaster, cousin-germian to the king, and first prince of the blood. He put himself at the head of that party among the barons, who desired the depression of this insolent stranger. The confederated nobles bound themselves by oath to expel Gaveston : they took arms for that purpose, and Edward was obliged to banish him. But he was afterwards recalled, reinstated in his former consequence, and became more than ever the object of geveral detestation among the nobility., on, account of his ostentation and insolence. A vew confederacy was formed ugainst him: he was again banished, and again recalled by the fond deluded monarch. Au universal revolt took place: Edward and his fivourite were hunted from comer to corner; and Gaveston at last fell by the hands of the pubtic executioner.

After the death of Gaveston, the king's person became less obnoxious to the peopler The discontents of all men seemed to be much appeased; the animosities of faction no longer prevailed; and England, it stas hoped, would now be able to take vengeance on all her enemics, but especially on the Scots, whose progress was become the object of general resentment and indignation.

Soon after Edisard's retreat from Scotland, Robert Brace made limself master of the whole kingdom, except a few fortresses. He daily reconciled the minds of the nobility to bis dominion; he enlisted under his standard every bold spirit, and he euriched his followers with the spoils of the enemy. Sir James Douplas, in whom commenced the greatness and renown of that uarlikie family, secended Robert in all his eriterprises. Edward Bruce, the king's brotier, also distinguished himself by his valour; and as thie dread of the English poirer being now abated by the feeble conduct of Edward, even the least eanguine of the Scots began to entertain hopes of recovering their independency. They obtained a truce, which was of short duration, and ill observed on both sides. But short as it was, it served to consolidate the power of the king, and introdace order into the civil government. War was renewed witi greater fary than ever. Not content with defending himself, Robert made saccessful inroads into England ; subsisted his needy followers by the plunder of the couatry, and tuught them to despise the military genius of a people, who had long been the object of their terror.

Edvard, ut length roused from his lethargy, had marched an army lato Scotland ; and Robert, determined not to risk too much sgainst a superior force, had ugain retired to his mountains. The English monarch advanced beyond Edinburgh ; but being destitute of prorisions, and ill supported by his nobility, he was obliged to return home, srithout gaining any advantage over the enemy. The seeming union, however, of all parties in England, after the death of Gaveston, opened again the prospect of reducing

Scotland, and promised ar lappg.conclusion to a war, in which both the interests and the passions of the nation were so deeply engaged:
Edward assembled forces from all quarters, with a view of finishing at one blow this importait enterprise. He summoned the most warlike of his vassale from Gascony; he enlisted troops from Fhandens, and other foreign countries; he invited over great numbers of the disorderly trish, as to a certain prey; he joined to them a body of Weleh, who were actuated by like motives; hee collected the whole military force of Eugland, aide ehtered Scotland at the head of an army of near 100,000 men. The Seotish army did not exceed 30,000 combatants, but being composed of men who had distinguifhed themselves by many aets of valour, who were rendered desperate by their situation, and who vere inured to all the varieties of fortöne, they might justly, under such a leader as Aruce, be csteemed equal to a far more numerous body. Robert, however, leff as little as posible to the superior gallantry of his troops. He poasted himself strongly at Bumackhburn, about two miles from Stirling; the only fortress in Scotland that remained in the hands of the English, and which was on thie point of surrendering. He had a rixulet in front, a hill on his right flank, and a morass on his left. In this situation he waited the approach of Edward. The English army arrived in sight towards evening, and a siuart combat immediately commenced between two bodies of cavalty. Bobert, who was at the head of the Scots, engaged in a single combat with Henry do Bohum, a gentleman of the family of Hereford, and at one stroke cleth his antagonist to the clia with a battleave, in sight of the two araies. The Englibh horse fled with precipitation to their main body, and night prevented any farther hostilities.
Mean while the Scots, encourgeed by this favourable ovent, and glorying in the prowess of their prinec, prognosticated a happy issuc to the contest of the ensuing day; and the Linglish, confident in their numbers, and elated by past successes, longged for an opportanity of revenge. The darkness, though but of a few hours, was borve with impatience: and Edward, as soon as light appeared, drew up his forces, and advanced againgt the Scots. Both armins engaged with great artour, and the dispute was fierce and bloody. Sir James Douglas lad broken the Finglieh" cavalry; but their line of infantry was still firm, when a stratagem decided the fortune of the field. Bruce had collected a number of waggoners arid sumpter boys, und furnished them with standards. They appeared upon the heights towards the left. The English mistook them for a fresth arny coming to surround thiem; a panic seived them; they threw down their arms and fled. The Scots pursued with great slaughter as far as Berwick; and besides an inestimable booty, took many persons of quality prisoners, with atiove 400 gentlerien, whom Robert treated with great humanity, and whose ransom was a new accession of wealth to the victotious arny. Eidward thimself very narrowly escaped, by taking shelter in Duubar, whence he passed by sea to Berwick. Such was the great and decisivo batle of Bannockburn, which secured the independency of Scotland, fixed Bruce. on the throne of that kingdom, and may bo deemed the most signal blow that the English monarchy had received since the Normanu hivasion. The number of slain is not certainly known, but it must have been rery great ; for the impression of this defeat in
Vol, I.
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the minds of the English was sa strong, that no superiority of force could encourage thew to keep the field against the Scots for some vears:

In order to avail himself of his present successes, Robert entered England; ravaged, all the northern counties without opposition ; and, elated by bis contimued prosperity, now entertained hopes of making the most important coaquests at the expence of the Euglish. He sent over his brother Edward with an army of 6000 -men into Ireland, and he himself followed soon after with*a more numerous body of troops. But a grievous famine, which at that time desolated both Britain and Lrelond, reduced the Scottish army to the greatest extremity; so that Robert was obliged to return with his forces much diminished, into his own country. His brother, who assumed th: title of king of Ireland, after experiencing a variety of hardships, was defeated and slain by the English near Dundalk ; and Robert became sensible that be had attempted projects too extonsive for the force of his narrow kingdom.

England was not yet in a state of domestic tranquillity. The king's principal favourite after the death of Gaveston was Hugh le Despeneer, or Spenser, a young man of Fuglish birth and noble family, possessed of many exterior accomplishinents, but destitute of that moderation and prudence which was necessary to avoid the eavy of tho great.

Lancaster and his adherents regarded him as their rival, ond formed plans fo"tho destruction of him and his father. They betook thenselves to their arms, enterct London with their troops, and giving into the parliament an accusation against the Spensers, who were both of them absent, they procared, by menaces and violences, a sentence of perpetual exile against these ministers. Edrard conceded to every thing that was demanded, till his furces were in the field, and then pulled off the mask. Lancaster was condemned by a court martial, and led to execution, About 20 more of the conspirators were executed, many were imprisoned, others escaped beyond sea. The for feitures were generally seized by young Spenser, whose rapacity in this instance exposed him to universal hatred. In sucb a situation no success could be expected trom foreign wars.

Edward, therefore, after making one more fruitless attemipt agninit Scotland, whence he retreated with dishonour, found it necessary to terminate hostilities with that kingdom, by a truce of 13 years. This truce was so much the more seasonable for England, as the nation was at that time threatened with hostilities from France. Charles the Fair had some grounds of complaint against the Eoglish ministers in Guienne, and seemed desirous to take advantage of Edward's weakness, in order to confiscate all his foreign dominions.

Alter an embassy by the earl of Kent, the king's brother, had been tried in vain, queen Isabella obtained permission to go over to Paris, and endeavoured to ardjust matters with her brother. She there found a number of English fugitives, the remains of the Lamcastrian fistion ; and their common hatred to young Spenser soon begat a secret friendship and correspondence between them and that primecss, who envied the fivuorite his influcace with the king. Anoong these refugees was Poger Mertimer, a potent baron in the Welch marches, who had been condemned for high treason, but had made his
escape from the tower. His consequence introdueed him to Isabella, and the greecs of his person and address advanced him quickly in ber affections. He became lier confidant and comsellor in all her melisures ; and gaining ground daily upon fier heart, he engaged her to sacrifice at last to her passion, all thie sentiments of honour and fidelity to her husband. Hating now the man she had injured, and whom she never loved, she entered ardently into ill Martimer's conspiracies ; and having antfully tot into her hands the young prince, und heir of the monarchy, she resolved on the utter ruin of the king as well us of his favourite. "She engaged her brother to take part in the sume criminal purpose : her court was daily filled with exiled barons: Mortimer lived in the most declared intiuncy with her, and a correspondence was secretly carried on with the malcontent party in England.

When Edward was informed of these nlarming cifcnmstances, he required the queen speedily to return sith the prince. But Isabella publicly replied, that she would never set foot in the kingdom, until Hiugh Spenser was for ever removed from his presence and councils. This declaration procured ber great popularity in Fogland, and drew a decent veil over all ber treasonable enterprises. She no sooner arrived with her son in Enghand than the king was entirely deserted. He fled to Wales. The elder Spenser, now earl of Winchester, and governor of the castle of Bristol, was delivered by the garrison into the hands of his enemies ; and being instantly condemned, without any trial, witness, or accusation, to suffer deatb, he was hanged on a gibbet in his armour. His unhappy, but more criminal son, soon after shared the same fate: and the king, disappointed in his expectations of succour from the Welet, was seized among the mountains, where hei hid eadeavoured to conceaf himself, and confined in Kenilworth castle. Mean white the queen, taking advantage of the prevailing delusion, scummoned in Edward's naine a parliament at Westminster; where the king was accused of incapacity for government," and by the authority of her partizans deposed. The prince, a youth of 14 years of age, was placed on the thirone, and the queen was appoised regent during his minority.

The earl of Lancaster, formerly earl of Leicester, to whose custody the dethroned monarch had been committed, was soon touched with sentiments of compassion and gencrosity towards his sovereign; and beside using him with gentleness and humanity, be was supposed to have entertained more honourable intentions in his fivour. The king wis therefore taken out of his hands, and delivered over to lord Berkeley, Montravers, and Gournay, who were entrusted each for a month with the charge of guardiug bim. While in the custody of Berkeley, Edivard was still treated uith gentieness and respect dae to his rank and his misfortunes ; but when the turn of Montravers and Gouruay came, every species of indignity was offered him, as if their intention had been to break entirely the unhappy priuce's spirit, and to employ lis sorrows and ufllictions, instead of imore violent means, as the instruments of hils murder. That method of laying Edward in his grave, however, appearing too slow to the impatient Mortimer, he sent orders to Gournay and Montravers to dispateh the king secretly; and thiese ruftians cuntrived to make the manner of bis death as cruel as possible. Taking advantage of the indispositiun of Berkeley, in whose costody be then was, bat who was incapacitated
by sickness from attending lifs chauge, they camo to Berbeloy eastle, and put themselves in possession of the king's person. They threw bim on a bed, lield lim dawn violently with a table, which they flang over him, and thruist finto his fondament a horn, through which they burnt his bowels with a red hot iron. But although outward marks of violence were prevented by this expedient, the atrocious deed was discovered to all the guards and attendants, by the screams of the agonizing king.

Mortimer, the queen's gallant, very soon became the object of pablic odium. The hatred of the nation daily increased both against hitm and queen Isabella. Cónscious of this, they subjected to their vengeance whomsoever they feared, in order to secure their usurped power. The earl of Kent, the young king's uncle, was iniquitously condemned and executed ; the carl of Lancaster, Kent's brother, was thrown into prison; and many of the prelates and nobility were prosecuted under different pretences. These abuses could not long escape the observation of a prince of so much'discermment as young Edward, nor fuit to rouse his active spirit aguinst the murder of his fatber, and the dishonour of his mother. But he was besieged in such a manner by the creatures of Mortimer, that it became necessary to conduct the project of bringing that felon to justice, with as much secrecy and caution as if he had been forming a conspiracy against his sovereign.

He comumnicated his intentions, however, to some of the nobility, who readily entered into his views ; and they surprised the usurper in the castle of Nottingham, and dragged him from an apartment adjoining to the queen's; while she, in the most pathetic manner, implored her sonf to spare the gentle Mortimer! A parliament was immediately summoned for his condenuation ; and he was sentenced to die, from the supposed notoriety of his crimes, without any form of trial. He perished by the hands of the hangman, at the Elmes near London : and the queen was confined, during life, to her house at Risings; where she languished out $\frac{5}{}$ years of sorrow rather than of penitence.-

Edward having now taken the reins of government into his own hands, applied himself with industry and judgment, to redress all those grievances, which had either proceeded from want of authority in the crown, or the late abuses of it. He issued writs to the judges, enjoining them to administer justice, without paying any regard to the arbitrary orders of the great: and as thieves, robbers, murderers, anid crimimals of all kinds, had multiplied to an enormous degree during the public convulsions, and were openly protected by the powerful barons, who made use of them against their enemies, the king set himseif seriously to remedy the evil, after exacting from the peers a solemn promise in parliament, that they would break off all connexion with such malefisctors. The ministers of justice, animated by his example, employed the utmost diligence in discovering, pursuing, and punishing criminals; and the disorder was by degrees corrected.

In proportion as the government acquired authority at home, it became formidable to- the neighbouring nations ; and the ambitious spirit of Edward sought, and soon found an occasion of exerting itself. The wise and valiant Robert Bruce, king of Scot land, who had recovered by arms the independency of his country, and fixed it by
treaty, was now dead. and hned left David, his kon, a minor, utaler the giardianslip, of Randolph, earl of Murray, the cumpanion of his victories. About this time Edward Baliol, sou of Jolnn, furmerly erowned king of Scotland, was discovered in a Prench prison by lond Beaumout, an Euglish baron, who, in the right of his wife, claimed the earldom of Buchan in Scotland ; and deeming Baliol a proper instrument for his purpose, procured him his liberty, and induced thim to revive his claim to the Scottish cruvt. Many other English noblemen, who had obtained estates during the subjection of Scotland, were in the same sitnation with Beaumont. They also saw the utility of Buliwl, and began to think of recovering their possessions by arms, and they applied to Edward for bis concorrence and assistance. Edward was ashamed to ayow their entterprise. He was afraid that violence and injustice would ever be imputed to him, if he attacked with superior force a minor king, and a brother-in-law, whose independent title had been so lately acknowledged by sulemn treaty; but he secretly encouraged Daliol in his claim, coninived at his assembling forces in the North, and gave countenance to the nobles who were disposed to join him. A force of near 3000 men was assembled, with which Baliol and his adherents landed on the coast of Fife.

Scotland was now in a very different situation from that in which it had appearelunder the victorious Robert. Besides the loss of that great monarch, whose genius and authority preserved entire the whole political fabric, and maintained union among the uaruly barons, lord Doaglas, impatient of rest, had gone over to Spain in a crusadeagainst the Moors, and there perished in battle. The eand of Murray, long declining through years and infirmitics, had lately died, and been succeeded in the regency by Donald, earl of Mar, a man much inferior in tulents; so that the military spirit of the Scots, though still unbroken, was left without a guide. Buliol had valour and activity, and his followers being firmly united by their common object, drove back the Scots whoopposed his landing. He marched into the heart of the country; and with his smald party defeated an army of 40,000 men, under the earl of Mar, of whom 12,000 are said to lave been stain.

Baliol, soon after this victory, made bimself master of Perth, and was crowned at Scone; while young Bruce, his competitor, was sent over to France with his betrothed wife, Jane, sister to king Edward. Scotland was subdued by a handful of men. But Baliol lost the kingdom by a revolution as sudden as that by which he had acquired it:His imprudence, or his necessities, making him dissniss part of bis English followers, he was unexpectedly attacked near Annan by sir Archibald Douglas, and other chieftains of Bruce's party. He was routed; his brother, John Baliol, was slain; and he, himself was chased into England in a miserable plight.

In this extremity, Baliol had again recourse to the English mpnarch, without whose ascistance he was now become sensible he could neither recover nor keep possession. of. his throne. He offered to acknowledge E.dward's superiority; to renes the homage for Scotland; and to espouse the princess Jane, if the pope's consent could be obtained for dissolving her former marriage, which was not yet consummated. Ambitious of retrieving that important superiority, relinquished by Mortimer during his minority; Ed Vel. I.

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ward willingly accepted the offer, and put bimself at the head of a powerfut army in order to reinstate Baliol in his throite, The Sicats met him with an' army more numerous, but less united, and ivorse supplied with arms and provisions. A batile was foughit at Halidown-hill, a little north of Derwick; where about 90,000 of the Scots fell, and all the chief nobility were either killed or taken prisoners.

After this fatal blow, the Scottish nobles bad no recorme but in submission. Baliol was acknowledged king by a parliament nssombled at Edinburgh ; the superiority of England was again recoguized: many of the Seottish nobitity swore fealty to Edward; who, leaving a considerable body of troops with-Baliol to complete the conquest of the kingilon, retarnod to England with tho remainder of his army. Bat the English forces were no sooner withdrawn, than the Scots revoltod aggainst Daliol, and retirned to thein former attegiance under Brace. Edward tras again obliged to nssemble ait army, and to march into Scotlanid. The Soots, tanght by experience, witherew into their hills ahtl fastaesses. He destroyed the loouses, and ravaged the estates of those whom he culled rebols.

But this severity only confirmed them more iu their obstinate antipathy to England and Baliol; and being nogr rendered desperate, they soon re-conquered their country from the English. Edward made anew hifs appearance in Scotland, and with like suecess: He found every thing hostile in the kingdom, except the spot on which be was evicimped; and atthough lie marchel uncontrouled over the low countries, the nation itseff was farther than ever from being broken or sabtived. Besides being supported by their pride or anger, passions difficult to tathe, the Scots were encouraged amid all their calamities, with daily promises of relief from France; and as a war was now likely to break ont between that kingdom and England, they had reason to expect a division of the force which had so long overshelnied and oppressed them.

With this war with France commenced that series of hostlities, which was searcely interrupted for the space of a whole century, and drained both nations of men and mioncy, to a degree which materially affected their internal prosperity; but as the scene of the contests was in France and the adjoining provinces, we shall defer our relation of them till we have'described these countries.

In the year 1346, David Bruce, king of Scotland, whom his countryinen had recalled, was strongly solicited by his ally, Plulip, to invade the northern counties of England. He arcordingly assembled a great army, and carried his ravages as far as Durham. He was there met by queen Plitippa, at the head of a body of 19,000 men, which slie committed to the command of lord Percy. A fierce engagement ensued; and the Scots were broken, and chased off the field with great slaughter. Fifteen thousand of them were slain, among whom were the chancellor and earl-marsbal. The king himself was taken prisoner, together with many of the principal nobility.

The great successes of Edward in his foreign wars had excited a strong emulation among the English nobility; and this prevailing spirit was this year farther promoted by the institution of the military order of the garter. A story prevails, though not supported by antient authority, that the countess of Salisbury dropped her garter at a courtbatl ; that the king took it, and observing some of his courtiers to suite, held up thio
trophy, and calted oit, Honi soit qui mal y pense. Evil be to him that evil thinks, And as every incident of gallantry was in those days mognified into a matter of importance, lie instituted the order of the garter, in conmemoration of this event, though not without politital views, and gave these words ns the motto of the order.

A dump was, hoivever, suddenly thrown over the triumplant festivity of the English cours, by a destructive pestilence, "hich about this time invaded Britain, after having desolated the greatest part of the earth. It made its appearance first in the north of Asia; encircled all that vast continent, visited Africa; made its progress from oud end of Europe to the other ; and is comprited to have sisept away near a third of the inhabitauts in every eountry through which it pussed. Above 50,000 persons are said to have perished by it in London alone.

In the year 1857 Edward had the satisfaction to behold the two neighbouring potentates, with whom he was engaged in in wir at the same time, prisoners in his capital. The hing of Seotland, who had been 11 years in that condition, was soon ufter releised, for the runsom of 100,000 marks stelling; and that prince delivered the sons of all the principal nobility as hostages for the payment.
.Jolnn, king of France, who had been taken by Edward the black prioce, at the batthe of l'olctiors, was set at liberty, in consequence of a treaty of peace ; but many difficulties arising about the execution of sorite of the articles, lie took the honourable resoldtion of cousing over to England in person, in order to adjast them. His council endeavaaring to dissuade him from this design, which they represented as rash and impolitic ; and hisinuated that he ought to clude, ds fir as possible, the execution of so disadvatyfageous a treaty. "Though justice and good faith," replied Johin, "were banished from the rest of the earth, they ought still to retain their habitation in the breasts of princes." And he accordingly came over to his former lodgings in the Savoy, where bie sumo-after sickened and died.

The latter part of the reign of Edward was distinguished by misfortunes abroad, and decay of authority at home. The latter was clietly pecasioned by his extravagant aftachment to Alice Pierce, a young lady of wit and beauty, whose influence over him had given such general disgust, as to become tho object of parliamentary remonistrauce.
The indolence natorally attexdant on years and infirmitics thad also mato Edward refigu the aduflistration into the hands of his son the duke of Lancaster, whase mipiopular manners and proccedings weakened extremely the affections of the people-to thicir soverejgo. Mean while the prince of Wales died, leaving behind a character adorned with many cininent virtues. The King survived this melancholy event onfy abnit ig months, leaving for lis successor Richard, the son of the black prince.

Đuring the reign of E.dward III. the doctrines of the reformation were preached at Oxtondity.John Wieklitu;, a secular priest of great learning, ability, und integrity, Ifo was bora abont the year 1394, in the parish of Wyeliff, near Richmond, in Yorkslifel; he iras eilọcated at Oxford, first at Queen's, and afterwards at Merfon college! Whe vossoled /great eredit in the unisersity; for having taken the degree of doetor of divi-
uity, be read public lectures with great applase; in which be frequently exposed the impositions of the mendicant friars. He also published a defence of Edward IHI. against the pope, who had insisted on the homage to which his predecessor John had agreed. This defence was the cause of his being introduced into court, and of bis being sent one of the ambassadors, in 1374, to Pruges, whicie they met the pope's numelos, in order to adjust some disputed points relative to the authority of the holy see. He was presented by the king with the living of Latterworth in Leieestershire, and obtaiued, in 1375 , a prebend in the church of Westipury in Gloucestershire, and contiaued, till the death of Edward, to propagate his doctrines without molestation.

Richard 11. was a weak prince, but bis weakness was not immediately perceived or felt by the nation. He was only at his accession a boy of 11 years of age, from whom consequently little could be expected. The habits of order and obedience, which the nobility had been taught by the third Fdward, still influenced them ; and the authority of Richard's three uncles, the dukes of Lancaster, York, and Gloucester, sufficed to repress for a time that turbulent spirit, to which the great barons were so often subject during a weak reign. The different characters of those three princes rendered them also a couuterpoise to each other; so that there appeared no new circumstance in the domestic situation of Fingland, which could endanger the public peace, or give any immediate appreliensions to the lovers of their country.

But this flattering prospect proved delusive. Dicontents and dissensions soon took place among all orders of men. The first tumult was of the popular kind. In order to repair the expences of some fruitless armaments, the parliament had recourse to a poll tax upon every person, male and female, above 15 years of age. The great body of the people, many of whom were in a state of slavery, were grievously oppressed by this tax, and traced up to the first origin of mankind from one common stock, their equal right to liticrty, and to all the benefits of nature. They often repeated their favourite distich,

> When Adam dev'd, and Eve span, Who was then a gentieraan?

When the discontents of the populace were thus prepared, the insolence of a taxgatberer, and the spirit of a blacksmith, blew them into a flame. While the blacksmith was at work in a village of Essex, the tax-gatherer came into his shop, Fand demanded paymeat for his daughter. The father replied, that she was below the age preseribed by the statute : the tax-gatherer affirmed she was a full grown woman, and in proof of his assertion, attempted on indecency which incensed the blacksmith to such a degree, that he knocked the ruffian dead with his forge hammer. The bystanders applauded the action, and exclaimed that it was foll time for the people to take rengeance on their tyrants, and nssert their native rights. They flew to arms : the flame of sedition spread from county to county ; and before the goverament had the least intimation of the darger, the disorder had grown beyond all controul or opposition.

These mutinous peasants, to the number of 100,000 , assembled on Blaok-heath, un-
der their leader, Wat Tyler; and sent a message to the king, who had taken shelter in the tower, that they desired a conference with him. Richard sailed down the river in a barge for that purpose ; but on approaching the shore, he discovered such symptoms of tumalt and insolence, that he judged it prudent to return. Finding, however, that the tower would be no security against the laviess multitude, and afllicted at the ravages and cruelties of the rioters, who had broken into the city of London ; plundered the merchants, and cut off the heads of all the gentlemen they could seize; the young king found it necessary to go out, and ask their demands. They required a general pardon; the abolition of slavery; freedom of commerce in market towns, without toll or impost; and a fixed rent on lands instead of the services due by villainage. These requests were highly reasonable: but the behaviour of Wat Tyler, their leader, who, in making his demands, frequently brandished his sword in a menacing manner, so incensed William Walworth, lord mayor of London, that he lifted. up his mace, or, as others say, his spear, and struck Tyler a violent blow, which brought him to the ground, where he was instantly run through the body by another of the king's train. The mutineer's, seeing their leader fall, prepared themselves for revenge; and the king and his whole company must have perished on the spot, had not Richard discovered an extraordinary presence of mind in that extremity. He ordered his attendants to stop, advanced alone towards the enraged multitude, and accosting them with an affable and intrepid couatenance, "What ! my good people," said he, " is the meaning of this commotion? be not coneerned for the loss of your leader, I am your king : I will become your leader: follow me into the ficld, and you shall have whatever you desire." Over-aised by the royal presence, they implicitly followed him: and be peaceably dismissed them, after granting them their demands.

Richard's conduct on this occasion, consitering that he was only 16 years of age, raised great expectations in the nation; bir to propertion as he advanced in years, thex gradually vanished, and his want of capacity, or at least of solid judgment, appeared in every measure which he adopted.

His first expedition was against Seotland, into which he marched at the head of an army of 60,000 men. The Scots did not pretend to make resistance against so great force : they abandoned, without scruple, their rugged territory to be pillaged and laid waste by the enemy, and made an incursion into the more fertile provinces of England, where they collected a rich booty, and returned in tranquillity to their own country.

The English monarch, however, wandered over great part of the comparatively barren hingdom of Scotland, and led his army back into England, without taking vengeance on the enemy for their derastation. His impatience to return, and enjoy his usual pleasures and amuserments, over-balanced every higher consideration, and made even revenge a motive too feeble to detain him.

Richard, like most weak princes, now resigned himself wholly to the direction of a fayourite, Robert de Vere, earl of Oxford, a young nobleman of dissolute manners, whom he loaded with riches, with titles, and with dignities. He first created him marqais of Dublin, and afterwards duke of Ireland, with a parliamentary grant of the sovereignty of that kingdom for life. The usual, and but too often just complaints, againes

## Vol. I.

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the inso.ence of favsurites, were soon loudly echoed, and greedily received in all parts of England.

A civil war was the consequence: the royal party was defeated; and Richard was obliged to resign the government into the hands of a council of 14 , appointed by the parliament. The duke of Gloucester, who had been at the head of this insurrection, next catered an accusation against five of the king's ministers, who were declarel guilty of ligh treason; and as many of them as could be seized nere executed. The duke of Ireland made his escipe beyond sea, as did Michnel de la Pole, earl of Suffolk, who had discharged the office of lord high chancellor: both died abroad.

This humiliation of Richard did not continue long: in less than 12 montis he was reconciled to bis uncles, and exercised the regal authority in its full extent.

The next eight years passed away undistinguished by any remarkable event. The. King, addicted to vulgar pleasures, spent bis whole time in feasting and jollity; and dissipated in ldee shew, or lavished upon worthless favourites, the revenues, which the people expected to see him employ in undertakings for the public honour and advantage.

Richard perceived that his uncle, the duke of Gloucester, strongly disapproved of this conduct, and declared himself, on all occasions, the enemy of his minions. He suspected, or affected to believe, that Giloucester aspired to the crown, and ordered him unexpectedly to be arrested, and carried over to Calais, where he was soon after murdered.

The destruction of the duke of Gloucester uras followed by a misunderstanding among his enemies ; and the duke of Hereford, in particular, went so far as to aecuse the duke of Norfolk in parliament of having spoken disrespectfully of the king. Norfolk denied the charge ; and offered to prove his innocence by duel. The challenge was accepted ; but while the nation was expecting the event, the king stopped the duel, and decided the cause, by banishing Hereford for 10 years, and Norfolk for life.

The sentence pronounced upon these two noblemen appears to have been impartial, but it surely was not equitable. The one was condemned without being charged with any offence; the other without being convicted of any crime. It was also unpopular. Richard's conduct in this affair was considered as a mark of the pusillanimity of his temper : and the weakness and fluctuation of his councils, at least, appear on no occasion more evident.

Henry duke of Hereford, being a man of great prudence and self command, behaved himself with so much humility atter his condemnation, that the king promised to shorten the term of his exile four years; and also granted him letters patent, ionpowering him, in case any inheritance should accrue to him during the interval, to enter into immediate possession. But Hereford, who was son to the duke of Lancaster, had no sooner left the kingdom, than Richard's jealousy of the power and riches of that family revived; and he grew sensible, that by Gloucester's death, he had only removed a counterpoise to the Lancastrian interest, which was now become formidable to the throne. We therefore took every method to sully abroad, the repatation of Henry dake of Fiereford, and to ob-etruct his alliances, by representing him as guilty of treasonable practices; and when the
duke of Lancaster died, he revoked his letters patent to Henry, and retained possession of the family estate.

These instances of rapacity and severity, and the circumstances with which they were accompanied, torew upon Richard the universal odium of the people. Hereford, now duke of Latscaster, bad formerly acquired the esteem of the public by his valour and abilities. He was connected with most of the principal nobility, by blood, alliance, of friendship; his misfortune added double lustre to his merit ; all men made his case their own : they eatered into his resentments ; and they turned their eyes towards him as the only person who could retrieve the lost honour of the nation, or reform the abuses of government.

While the minds of men were this disposed, Richard went over to quelf an insurrection in Ireland, and thereby ituprudently afforded his exiled cousin an opportunity of gratifying the wishes of the nation. Henry landed at Ravenspur, in Yorkshire, accompanied by only 60 persons. But he was suddenly joined by the earls of Northumberland and Westonoreland, two of the most potent barons in England, and the malcontents in all quarters flew to arms. He solemnly declared that he had no other purpose in this invasion than to recover the duchy of Lancaster, unjustly detained from him; and be entreated his uncle, the duke of York, who had been left guardian of the kingdom, not to opposes a loyal and humble supplicant in the recovery of his legal patrimony, His entreaties had the desired effect. The guardian embraced his cause, and he immediately found himself master of England.

Richard no sooner received intelligence of this invasion, thath he hastened over from lreland, and landed at Milford haven, with a body of 20,000 men. But even that suall arny was seized with the spirit of disaffection, and the king found himself almost entirely deserted. In this extremity he fled to the Isle of Anglesey, where he proposed to embark for France, and there wait the return of their subjects to a sense of their duty. But before he had an opportunity of carrying his design into execution, the earl of Northumberland waited upon bim from the duke of Lancaster, with the strongest professions of loyalty and submission; and Richard was so credulous as to put himself in the power of his enemy : he was carried about in an abject manner, exposed to the insults of the populace ; deposed, confined in prison, and afterwards murdered.

Thus died a weak prince, whose reign was oppressive and inglorious, but his death proyed the begiming of much greater calnmities then the fation had ever cidured since the Norman invasion.

The condition of Scotland after the capture of David Bruce was far from happy. The heirs of their families were deposited in the hands of the English as pledges for the dis clarging of the ransom for the king, but so many difficulties arose from the inutual ha tred of the two natione, that the affair, after various negociations, remained unsettled at the time of his decease : he died in 1571, and was socceetd by Robert II, the first monarch of the unfortunate house of Stuart. His reign was disturbed by continual hostilities with the English, and is rendered remarkable for a very strict league betireen France and Scotland, which served, more than any thing to inflame the auimosity which Lad-long subsisted between the two British nations.
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## BRITISH EMPIRE.

On the death of Robert II. which happened in 1390, the crown devolved upon his el dest sou Robert III. He confirmed the truce which had lately been made with Eng. land, and renewed the treaty with France; but the beginuing of his reign was disturbed by the wars of the petty chieftains against each other : he lost much of his popularity by introducing the title of duke, and appearing well disposed for friendship with Richard II. In the beginning of this period, the state of Ireland wat tolerably happy. John, who had a partiality for that island, governed his Irish subjects by a regular code of laws, which were deposited in the exchequer of Dublin; he made a new and more ample division of the king's lands into counties, where sheriffs and many other officers were appointed. John de Grey, bishop of Norwich, the governor, is raid to have managed their affairs so happily, that during the violent contentions between John and his barons, Ireland enjoyed an unusual degree of tranquillity.

In 1019, the commotions were renewcd, through the immeasurable ambition and turbulence of the English barons, who despised all controul, and oppressed the inhabitants in a terible manner. The disorders in England during the reign of Henry III. enconraged them to despise the royal authority; they were ever the secret enemies and sometimes the avowed adversaries of each other, and in many places where they had obtained settlements, the natives were first driven into insurrections by their cruelty, and then punished with double cruelty for their resistance.

Matters continued in this deplorable state till the latter part of the reign of Edward I. when the disorders of the realn were in some degree checked, though by no means terminated or subdued. The incursions of the natives were repressed, and the English lords began to live on better terms with each other; when the Scottish invasion, under Edward Bruce, filled the island with all the horrors of war and famine. The defeat and death of Bruce did not put a stop to the disturbances of this unhappy country. The contentions of the English with each other and with the Irish, and of the lrish among themselvcs, still continued to rage with unabated violence, and rendered abortive every attempt to promote good order or civilization. In 1567 was passed the fanious statute of Kilkenny. The preamble to this act recites, that the English had become mere Irish in their language, names, apparel, and manner of living; had rejected the Finglish laws, and submitted to those of the Irish, with whom they had united by marriage alliance, to the ruin of the commonwealth : it was therefore cnacted, that marriage, nurture of infants, \&c. with the Irish, should be considered and punished as high treason. Again, if any man of English race shall use an Irish name, the Irish longuage, or the Irish appard, or any mode or custom of the Irish, the act provides, that he shall forfeit lands and tenements, until be hath given security in the court of chancery to conform in every particular to the English manners, aud if he bath no lands, that he shall be impiisoned till the like security be given. The Irish law was pronounced to be pernicions, and an innovation lately introduced ampng the English subjects ; and it was therefore ordained, that in all their controversies they should be goverued by the common law of England, and that whoever should submit to the Irish-jurisdic tion, should be adjudged guilty of high treason. As the English had beeu accustomed to make peace or war with the bordering Irish at pleasure, they were now expressly
prohibited from levying sar, without special warrant from the state. It was also made highly penal for the Euglish to permit their Irish neighbours to graze their lands, to present them to ecclesiastical benefices, or to receive them into monasteries or religious houses ; to entertain their bards, who perverted their imagination by idle tales; or their news-tellers, who seduced them by false reports. It was made felony to impose or cess any forces upon the. Euglish subject against his will. And as the royal liberties and franchises were become sanctuaries, for malefactors, express power was given to the king's sheriffs to enter into all frapechises, and there to apprehend felons and traitors. Lastly, because the great lords, when they levied grces for the public service, acted with partiality, and laid unequal bardens upon the subjects, it was ordained, that four wardens of the peace in every county should adjudge what men or armour every lord ot tenant should provide. The statute was promulged with great solemnity; and the bishops, the better to enforce obedience, denounced an excommunication on those who shold presume to violate it in any instance. From this time the breach between the two nations became still wider, disorders increased, and the influence of the English daily declined.
In this period, the purity of stile was less cultivated, and the study of the latin classics greatly declined, but a few eminent menappeared, who enlarged the circle of the sciences by a laborious attention to experimental philosoply. Among these philosophers, the first place is due to Roger Bacon, a Franciscan friar; who was born near Ilchester, ih Soppersetshire, in the year 1 114 , and died, after being greatly persecuted for his learning, in 1294. The reader will be astomished to find, that this great luminary of the 13 th century was a profound linguist and grammarian; that he was well versed in geography and astronomy ; and that he understood the theory and practice of perspectives, the use of convex and concave glasses, the camera obscura, burning glasses, and telescopes, with the art of making them ; that he knew the great error of the kalendar, nssigned the cause, and proposed the remedy; that he understood chronology, that he was au adept in chemistry, and was really the inventor of gunpoweler ; lastly, that he was an able physician, mathematician, logician, metaphysician, and theologist.

## CHAPTER VIIL.

## Great Britain and Ireland- Fiom the acceasion of Henry IV. to the accession of Henry VII.

THE beginning of the reign of Uenry IV. the stile assumed by the dake of Iancaster, was stained by many acts of violence and blood. Ail who opposed his title fell a sacrifice to his rigid policy, and superstition was called in, toswell, by new crimes, the horrid catalogue. While a suibject, lienry was believed to have strongly inibitied the priaciples of Wickliffe, who had died in peace in the reign of Itichard 11, but findling himself possessed of-the throne by so precarious a title, this politic prince thought superstition a necessary engine of public authority. A law was accordingly enatted, that when aay heretic, who relapsed, or refised to abjure his opinions, was delivered over to the secular arm, by the bifi, p and his commissaries, be should be conmmitted to the tlames by the civil mmitrate, before the wiole people. This weapon did not long remain unemployed in the hands of the clergy. Williau Sawtree, a clengyman in London, had been condemned by the convocater at Canterbary; his sentence was ratified by the Liuse of peers; and then he euffired the vilance of fire, becanse he, refused to think as the charch directed, in opposition to dis own cunscience and the word of Giod.

But all the prudence and precantion of IVenry conld int shield him from numerous alarms. He was threatened from France with an invasion, which was only prevented by the disurders in that country; and the revolution in Fogland was speedily: followed by an insurrection in Wales. Osen Citendear, deseendedifrons the anticnt prinees of that country, had liecome ohnoxious, on acconit of tis attarduent th Richard; and Regituald, luril Grey ot Ruthyn, who was coloefly cono cted with the new king, and whe enjosed a groat furtone in the marehes of Wales, thonght the ofportu nity tavonrable for oftricssming, his u i bhoor, and taking possession of his estate. Cilctulour, I rowoked at the iajusirce, and still nore at the indimitv, recovered no-sessions by the sword. Heary seat dasotanace to ficey, the Welch tawk part with Gilendour: a tevtious and troublesoave was was kinulted, which Gilenfor r tone sutainef be his vatour and activit, aided by the natural st ength of he conntrs, anif the antamed spinit of the inhabitant-.

The Scuts aloo vere tempted liy tiese disurders to unake incunions into Enyland; and Hesry, desirous of taking rexenge mpon them, contucted un army is far north as Edinburgh. Lut finding that the Scots would neither submit nor give hium battle, he returned, without effecting any thing of consequence. Next seastri, however, Archibald, carl of louks, whs, a the head of 12,000 men, attended bs many of the priscipul nobitity of Scothand, had made an irruption into the northern counties, was overtake by the Percis of Nonthumberlani on his return, at Homeldon, on the borvers of England, whete a fierce batte ensued, and the Scots were totally routed. Douglas himself

## A. D. 1405.

was taken prsoner, as were the caris of Angus, Murray, Orkney, and many others of the Scottish nobility and gentry.
When Henry received intelligence of this victory, he sent the earl of Northumberland orders not to ransom his prisoners; "- privilege which that nobleman regurded as his right, by the then received laws of war. The king intended to detain them, that die nitybta be able, by their means, to make an arfvantageous peace with Scotiand. But by this selfosh policy, he gave fresh disgost to the pouerful fumily of Nortinumberland The impatient spirit of Harry Percy. commonly known by the name of Hetspur, and factious disposition of the earl of Worceser. younger brother of the eart of Northumberland, inflanied the discontents of that nobleman; and the precarious tiile of Henry tempted Northumberland to seek revenge,' by overturning that throne which he bad at first established. He entered into a corrospondence with Glandour ; he set the cart of Douglas at liberty, and made an alliance with that martial chicftain. Dut when war was ready to lireak out, the earl of Northumberiand was unfortumately seized with a sud-

- dea illness at Berwick; and young Percy, taking the conmand of the troops, marched towards Shrewsbury, in order to join his forees with those of Gilendour. The king had happily a small arny ou foot, with which he intended to act against the Scots ; and kuouing the importance of celerity in all civil wars, he instantly hurried down, in order to give battle to the rebels. He approached Percy near Slirenshury, before that noblemau was joined by Glendonr; and the policy of ose leader, and impatience of the other, ande him hastea to a zeneral engugement. The armies were nearly equal in nomber, consisting of about 12,000 men each; and we scarcely find any batile in those ages, where the shock was more terrible or more constant. Heury exposed bis person in the thickest of the fight; and the prince of Wales, bi- gallant son, whose ailitary atchievements became afternarls so tamous, and who here perfurmed his noviciate in arms, sigaalized hiuself in a reusarkable manner.

P'ercy supported that renown which he had acquired in many a bloody combat; and Doughs, his antient enewy, and now his friend, still appeared his rival, amid the horror an.l eonfiusi.n of the fight. This nolderomen periormed feats of valour which are alunst incredible: the seened determined the king of Fangland slould tall thut day by his arm : he soupht him alt over the field; and as Heary had accoutred several captains it the raval earb, in order t5 eneourage his troops, the suord of Douglas readered that honour fatal to many. Put while the armits were contending in this furnous manner, the death of Hlotspar, accomplisbed by an unknosn hand, decided the vietury ; thie toyalists prevailed. There are said to bave failen on both sides near $\$ 306$ genkenen.

The earl of Northumberland, having recovered from bis sickness, had levied a fresh aruy, suil was on his march to join his son : but being opposed by the earl, of Westmoreland, he came with a small retinue to the king at Yurk: he pretended that bis sole intcution iu arnuing was to mediate between the parties. " Henry thought proper to adunit the apolugy, and even grauted him a pardon for his offeace. All the other tobels were treated with equal lenity; and, except the carl of Worcester and sir Richard Vernon, who were regarded as the chief authors, of the insurection, no, perspured-

## beitish empies.

265. gaged in that daigerous conspiracy seems to have perished by the hands of the executioner.
This rebellion wis no sooner quelled than another was ready to break out, supported by the carl of Nottingham and the archbishop of York. But it was discovered before it wus ripe for execution, and the earl and the archbishop were both beheaded. Nortiumberland also was concerned in this second rebellion, but made his eqcape into Scotland, whence returning to commit new disorders, be was slain at Bramham, along with lord Bardolf. The defeat of Glendour, and the stbmission of the Weleh, which happened soon after, freed Henry from all his domestic enemics ; and a fortunate event, which had throwa the lieir to the crown of Scotland into liis hands, made him also secure on that quarter. Robert III. hing of Scotland, though a prince of stender capacity, wis extremely inmocent and inoffensive in lis conduct. * But Scotland at that time was stilf less fitted than England for cherishing a sovereiga of such a character. The duke of Albany, Robert's brother, a pritice of a boisterous and violent disposition, had assunied the government of the state ; and not satisfied with present authority, he entertainel the criminal purpose of extirpating his brother's children, and of acquiring the crown to ' lis own family: he threiv into prison David, his eldest nephew, who there perishoil by hungor; so that James, the younger brother of David, alone stood between the tyrant and the throne. Robert, therefore, sensible of his son's danger, embarked hinion boand aship, with a view of sending him to France, and of trusting bim to the protection of that friendly power. Unfortunately, however, the vessel was taken by the English; und although there subsisted at that tine a truce between the two kingdonis, Henry refused to restore the young prince his liberty. Bat be made some amends for this want of generosity, by bestowing on James an excellent education, wlich afterwards qualified him,When he mounted the throne, to reform, in some measure, the rude and barbarons manners of his native country.
5 The remaining part of the reign of Menry IV. was chiefly spent in regulating the affairs of his kingdom; which he at length brought into much order, by his valour, prodence, and address. In his latter years, however, he began to turn his eyes cowards thise bright projects, which his more fortunate son conducted so successfully against the French monarchy; but his declining health prevented him from attempting to put any of them in execution. Afflicted for some years with violent fits, which frequently deprived him of all sensation, and threatened his existence, he was carried off by one of then at Westminster, in the 46 th year of his age, and the 13 th of his reign.

The precarious situation of Henry IV. had so much infected his temper with jealousy, that he entertained unreasonable suspicions of the loyalty of his eldest son; and during the latter years of his life, be excluded that prince from all share in publie business. The active spirit of young Henry, restrained from its proper employment, broke out in extravagancies of every kind. Such a course of life naturally threw him among companions unbecoming his rank, but whose irregularities be seconded and indulged; he was detected in many sallies, which to severer eyes appeared totally unworthy of his itation.

But the nation in general considered the young prince with more indulgence. They
observed so many gleams of generosity, spirit, and magnanimity breaking through the cloud, which a wild condect threw over his character, that they never ceased hoping for his amendment. And the first steps taken by young Henry, after the death of his father, confirmed all those prepossessions entertained in his favour: he called together his former companions; nequainted them with his intended reformation; exhorted them to imitate his example; but strictly prohibited them, until they had given proofs of their amendment, from appearing any more in his presence: while the wise ministers' 'of his father, who had checked his riots, were received with all the marks of farour and confidence: they found that they had unknowingly been paying the highest court to him. The satisfaction of those who feared an opposite conduct was augmented by 'their surprise; so that the character of the young king appeared brighter than if it had never been shaded by any errors. Henry's first eare was to banish, as much as possible, all party distinctions. The instruments of the violences of the preceding reign, who had been advanced from their blind zeal for the Lancastrian interest, more than fromtheir integrity or abilitics, gave place every where to men of more honourable character; and virtue and talents seemed now to have a spacious field, in which they might display themselves to advantage.

There were, however, two capital errors in the public conduct of Henry V. The first of these was the persecutions of the Lollards, or followers of Wickliffe, who were now become a formidable body, and excited the envy and malignity of the elergy. At the head of this sect was lord*Cobham, who was indicted for heresy and condemned, but made his escape from the tower before the day appointed for his execution. After a variety of distresses he was seized and hanged as a traitor, and his body was burnt oni the gibbet, in consequence of the sentence pronounced against him as a heretic.

The second great error of Heary was his prosecuting an unjust claim to the crown of France. This occasioned a war, which drained the nation of immense treasures and numerous armies, and at last terminated in the loss of almost all our continental possessions. During, however, the reign of Henry V. the most astonishing advantages were obtained over France, particularly at the justly celebrated battle of Agincourt. To crown all the other prosperities of Henry, his queen wis delivered of a son, who was called by his father's name, and whose birth was celabritod by rejoicings no-less pompous, or less simcere, at Paris than at London. The infant prince seemed to be uniyensally regarded as the hetr of both monarchies. But the glory of Henry, when near its height, was suddenly restrained by the hand of nature, and all his towering projects vanisbed into alir : he was seized with a majady, which the surgeons of that age wanted skill to treat with judgment, namely, a'fistula, whifch proved mortal. Whien he found his end approaching, he sent for his brother the doke of Bedford, the earl of Warwick, and a few more noblemen, whom he had honoured with his confidence. To them he delivered, in great composure, his last will with regard to the government of his kingdum and frimily. He left the regency of France to his eldest brother, the duke of Bedford; that of England to his younger brother, the duke of Gloncester: and the care of Ihis sun's perison to the earl of Warwjek.

Henry V. possessed many eminent virtues, and his abilities were equally conspicuous Vol. I.
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in the cabinet and in the field. The boldness of his plans was no lens remarkable thou his peramal valour m carrying them into execution; be lad the talent of nitachine his friends by affability, and of gaining his enemies bv address and clemency ; liv exterior figure, as well as his deportment, was engaging; his stature sonewhat alave the 'middle size, his; countenance beautitul, his mroportion elegant ; and he excelled in all warlike and uanly exercises. Catherine of France, widow of Heary V, married soon after lia death sir Oweo Tudor, a gentleman of Wales, said to be desceniled from the antient princes of that comntry. She bore fim two sons: the clidest of , nhom was creal el curl of Rielmond, the s cond earl of Pembroke. The family of Tudor, first raisat to distinction by this aliance, aterward mountel, as we shall have occasion to see, the throne of Eugland.

The minority of Henry VI, eave ofcasion to lis great men to enter into many disputes for power, and the animosity which had risen among then, increaved in vinlence after the death of the dake of Bedford, in 1435 : they wore theal divildal into two parties, one headed by the aluke of Gloucester, and the other by the cardinal of Winchester.

In proportion as Ifenry advanced in sears, his feehle character became more fully known in the couft, and wax no longer ambiguous to either faction. Ot the mot harnless, inoffensive, simple manners, but of the most slenier caparity, be was fitted, both by the softness of his temper, and the weakness of his understaniling, to be perpetially governed by those who surrounded him: and it was easy to fonsere, that his reizu would prove a perpetual minority. As he had now reached the age of manhool, it was matural to think of choowing him a ouern: and each partv was ambitiucs of anakng him receive one from their hand, as it was probable this circumstance would decide for cver the victory between them. The cardinal of Winchester proved successtul ; and Henry was contracted to Margaret of Anjon, duughter of Reguier, titular king of Sicily, Naples, and Jerusalem, descended trom a count of Ayjou, who haid leit these magnificent titles to his postcrity, without any real power or possessions. She was the most arcomplished princess of that age, both in body und mind; and seemed to possess those qualities, which would enahle her to acquire en ascendant over Hemry, and to supply all his defects and weaknenses. The, treaty of marriage was ratified in England: and Margaret, on her arrival, f.il immediately into close conncctions with the cardinal and his party; who, furtified by her powerful patronage, resolved on the fiual ruin of the duke of Gloucester.

This gencrous prince, worsted in all court intrigues, for which his temper was not suited, but $p$ issessing i) an eminent degree the favgur of the public, had already received from this rivals a cruel mortification, which it was impossible a person of his spirit could ever furgive althe ush be had bitherto borne it without violating public peace: his dhachess, d ughter of Richard lord Cobham, had been accused of witchcraft, and it was ir : ded, that there was found in her possession a wasen figure of the king, which he and her associates, sir Roger Bolinbroke, a priest, and one Mary Jordan of Eye, in leed in a magical manner before a slow fire, with the intention of making Ifenrg's furce und viguur naste away by the like insensible degrees. The uature
of this erme, as the philosophic Itume ingenionsly observes, so opposite to all common sense, secons always to exenpt the accosers from observing the rules of common sense in their evidence. The prisonern were pronomeed guilty: the duchess was condemned to do pranance, and to suffer perpetoal imprisonasent ; and her supposed accomplices were exceutes. Dut the people, contrary to their ustal practice on such marvellous tiails, acpuited the unhappy sufferers, aud ascribed these violent procecdings soldy to the malice of the duhe's caraites.

The candiasal of Winchester and his party, therefore, became sensible that it was necessary tu destrov a wan. whase pmpharity wade him dangerous, and uhose resentment they had sur mueh canse to appreloent : he was accused of treason, and throun iuto prison, where he was soom atter found drad in bed : and although his body bore no outward marks of viulace, no one doubted tout he had fallen a vietim to the vengeance of his cuentics.

The Easlish were expelled from all their continental dominions except Calais, and though there was neither peace nus truee, the war was thus in a manner brought to a conclusion.

The more IIenry was known, the more his authority was despised ; and as the English had abandoned their dominions in France, and were now engaged in no fureiga wars, ment of restless and ambitions spirits took occasion to disturb his government, and tear, with intestine commotions, the bowels of their native country.

But the miseries of Henry and of England did not arise solely from these causes : a pretender to the eaown appeared; and a title which had never been disputed during the prosperous reign ot Heary V., was now called in question under lis feeble successor. This competitor was Richard duke of York, descended by his mother from Pbilippa, ouly daughter of the dake of Clarence, second son of Edward III, and consequently stoud in the order of succession before the king. who derived his descent from the duke of Luncater, third son of that monarch. Such a claim could not, in many respects, have talien into more dangerons hands. The duke of York was a man of valour and abilitics, abich he had found frequent opportunitics of displaying, In the right of his father, the earl of Cambridge, he bore the rank of first prince of the blood; he pos-

- sessed an immense fortune : ond was allied by marriage, or otherwiee, to mott of the principal fauilies in the kinglom: be was generally beloved by the people; whase discontents, at this time, rendered every cqubination of the great more dangerous to the throne.

The administration of government was now in the hands of the queen and the earl of Suffolk, who bad attracted universal odium. Margaret was still regarded as a French woman, and a latent enemy to the kiagdom, who had betrayed the interests of England, in frovour of herं fumily and her country. Suffolk was considered as her accomplice ; and the murder of the duke of Gloucester, in which both were known to have been concenied, rendered them yet more obnoxions to the nation. The partizans of the duke of York took advantage of these cances of popular discontent, to impench the earl of Suffolk in parliament of various crimes and misdemeanors; and the kinge in order to save his minister, bailished hiu the kingdom for five years. Plat his eneraies,
sensible that he still possessed the queen's confidence, and would be recalted on the firas 'favourable opportunity, cmployed a captain of a ship to intercept him in his passage to France : he was accordingly seized near Dover; his head was struck off on thic side of a long-boat, and his body thrown into the sea.

The duke of Somerset succeeded to Suffolk's power in the administration and credit with we queen; and $1 s^{\text {the }}$ be we person under whose government the French provinces had been lost, the people, who always judge by events, soon thade him equally the object of their animosity. In consequence of these discontents, the house of commons presented a petition to the king, praying lim to remove the duke of Somerset for ever from his person and councils; and as Ifenry fell about this time into a distemper which increased his natoral imbecility, the queen and the council, unable to 'resist the papular party, were obliged to yield to the torrent. They sent Somerset to the 'tower, and appointed the duke of York lientenant of the kingdom, with powers to 'open and hold a session of parliament; and that assembly created him protector doring pletsure.
${ }_{4}$ In the mean time Heary recovering from his distemper, so far as to be able to maintain the appearance of royal authority, his friends urged him to resume the governmerit, and to annul the regency of Richarit, to release Somerset from the toirer, and to commit the administration into the hands of that nobleman. The duke of York, sensible of his danger, levied an army, in order to support his parliamentary coutmission, but without advancing any pretensions to the crown, though his title was generally acknowledged. A battle was fought near St. Alban's where the Loncastrians were routed, and the dukes of Somerset and Northumberland slain : the king himself was made prisoner by the duke of York, who treated him with great tenderness; and Henry was obliged to resige, what he valued little, the whole authority of the crown into the hapids of his rival.

Richard, however, did not yet lay clain to the royalty; he was still content with the title of protector; and an outward reconciliation took place between the parties. A solemn procession to St. Paul's was appointed, in order to make known this umity to the people. But a contest for a crown could not be thas peaceably accommodated. Each party watched only for an opportunity, of subverting the other; and the stmallest incident, without any formed design, was sufficient to dissolve the seening harmony. Two servants of the rival houses quarrelled ; their companions took part in the fray; a fierce combat ensued; and both parties, in every county in England, openly made preparations for deciding the contest by arms.

A battle was fought at Blore-heath, on the borders of Staffordshire; where the Lancastrians were defeated, and chased off the field with considerable loss. But that victory was not sufficient to decide the fate of England; and fortune soon shifted sides. When the two armies approached each other near Ludlow, and a general action was every hour expected, sir Andrew Trollop, who commanded a choice body of seterans, deserted to the king; and the Yorkists were so much dismayed at that instance of treachery, which made every man suspicious of his fellow, that they separated without striking a blow.

Ia this extremity' the duke of York fled' to Ireland, where he had formerly acquired mueth
A. D. 1460 .

DRITISH EMHIRE
popularity ; and his partizans in Enghand kept themselves every where in readiness to sise on the first summons from their leaders. That summons was given by the earl of Warwick, governor of Calais, the most extraordinary man of his time; and, from the subsequient events, commonly known by the appellation of the King-maker. He landed in Kent, where he was joined by several persons of distinction; and as the people bore him an unlimited affection, his army increased every day: he entered London annd the acelamations of the populace; he sdvanced to neet the royabarny, which hastened from Coventry to attack him; and a battle was fought at Northampton, where the Lancastrians were totally routed. Henry himself, that cmpty shadous of a king, was again made prisoner, and unce more carried in triumph to his capital. A parliament was now summoned at Westminster, where the duke of York soon appeared from Ireland, and put in his claim to the crown. Ite advanced towards the throne; and addressing himself to the loouse of peers, pleaded his cause before them as his natural and legal judges: he gave them a dedaction of his title by descent; mentioned the cruetties by which the house of Lancaster had paved its way to sovereign power; insisted on the calamities which had attendet the goverament of IIenry; and exborted them to return to the right path, by doing justice to the lineal beir; then respectfully left the house, as no one desired hins to seat limself on the throne. Such a degree of moderation is not perhaps to be paralleled in history; and was little to be expected in those violent and licentious times, from a prince who had a victorious army at his command.

The peers, on their part, discovered an equal share of firmness and composure. They called in some of the most considerable members among the commons to assist in their deliberations: and after liaving beard, in several successive days, the reasons alleged for the duke of York, they declared his title certain and indefeasible; but in consideration that Henry had enjoyed the crown, witiout dispute or controversy, during a course of years, they determined that he-shoud continue to possess the title and dignity of king during the remainder of his life ; that the administration of government, in the mean while, should remain with llichard, and that he should be acknowledged the true and lawfut heir of the monarcly. The dake acquiesced in this decision; and Heury himself, being a prisoner, could not well oppose it.

The duke of York, however, enjoyed bat a short while the honour of this new settlement, and never attained the envied litle of king. After the unfortunate battle of Northamptos, queen Margaret had fled with her iufint son to Durham, and thence to Scotland; but soon returning, she applied to the nurthern barons, and employed every argyment to procure their assistance : her affivility, insinuation, and address, talents in which she excelled, aided by caresses and promises, wrought a powerfal effect ou all who approacted her. The admiration of her great quadities was succeeded by compassion towards ber helpless condition. The nobility of that quarter enterod warmly inte ber cauce; and she soon found herself at the head of an army of 20,000 men collected with a celerity which was neititer expected by her friends, nor apprehended by ber enemies.

In the mean time, the duke of York hastened northward with a body of 5000 men, Vol. I:

## 270

BRYTISH EMPIRE.
A. D. 1461.
to suppress, as he imagined, the beginning of an iusurrection. He met the queea near Wakelield: and though he found bimself so much out-numbered by the encmy, his pride woald ax.t permit hin to fly before a woman: ha gave battle, was killed in tha action ; an I his boly being found among the slain, his head was cut off by Margaret's orders, and fixed on the gates of York, nith a paper croma upon it, in derision of lis pretended title ; his second soh, the earl of Rutloni, was taken prisoner, and barbarously murdered, in cool blood, by lord Clifforl, in revenge for the death of his father, who had fallen in the battle of St. Alban's. The earl of Salisbury also was taken prisoner, and immediately beheaded, with several other persons of distinction. This inluman practice, thus began, was continued by both parties fiom a vindictive spitit, which affected to conceal its enormity under the pretence of retaliation.

Immediately after this important victory, queen Margaret marched torards London, where the earl of Warwick was left with the command of the Yorkists. On the approach of the Lancastians, that nobleman led out his army, reinforced by a strong body of Londoners, ani gave battle to the queca at St. Alban's. Margaret was agrin victorious, by the treachery of one Loselace, who commanded a considerible body of the Yorkists, and withirew from the combat. She had the pleasure of seeing the formidable Warwick fly before ber, and of rescuing the king, her husband, from captivity. But Margaret's triumph, though glorious, was of short duration, and not ultogether complete.

Warwick was still in possession of London, on which she had made an unsuccessful attempt ; and Edward, earl of Marche, eldest son of the late duke of York, having gained an advantage over the Lancastrians at Mortimer's cross, near Hereford, adranced upon her from the other side, and was soon in a condition to give her battle with superior force. She was sensible of ber danger, in such a situation, and retreated with ber army to the North ; while Edsard entered the capital, amid the acclamations of tho citizens, and immediately opened a new scene to his party.

This young prince, who was remarkable for the beauty of his person, for his bravery, his activity, his affability, and every popular quality, found himself so high in public fivour, that he resolved no longer to confinc himself within those narrow limits which had been found by experience so prejurlicial to his father's cause: he determined to assume the name and diguity of king ; to insist openly on his claim, and thenceforth to treat the opposite party as traitors and rebels to his lanful authority. But a oational consent, or the appearance of it at least, seemed necessary to precede so bold a measure; and for this purpose, instead of convening a parliament, which might have been at tended with dangerous consequences, the populace were asseinbled in St. Jobn's fields, An harangue was pronounced to this mixed multitude by Warwick, setting forth the title of Edward, and inveighing against the tyranny and usurpation of the house of Lancaster ; after which the people were asked, whether they would have Henry or Edward for their king. They universally exclaimed, "Edward of York." This popular election was ratified by an assembly of lords and bishops, and the new king was proclaimed uuder the title of Edward IV.

Young Edward, now in his 20th year, was of a temper. well fitted to make his way
through such a scene of war, havoe, and devestation, as wis prescuted before himt : ho was not only bold, active, and enterprising, but his bardness of heart, and severity of character, rendered him impiegnable to all those movements of compassion, which might relax his vigour in the prosecution of the most blooly designs upon his enemies : hence the scaffold, as well as the field, during this reign, incessantly smoked with the noblest blood of England. The animosity between the two conteuding families was now become implacabie ; and the nation, divided in its affections, took different symbols of party. The atherents of the house of Lancaster chose, as their mark of distinction, the red rose; those of York assmmed the white: and these civil wars were thus known over Europe by the name of the "quarrel between the two rowes,"

Queen Alargaret, as we bave observed, had retired to the North. There great multitudes flocked to her standard; and she was able, in a few wecks, to assemble an army of 60,000 men. The king and the earl of Warwick hastened with an anny of 40,000 to check her progress. The two armies met at Towton, and a fierce and bloody battle ensued. The bow, then commonly in use, was soon laid aside, anid the sword decided the combat, which terminated in a complete victory on the side of the Yorkists. Edword issued orders to give no quarter ; and the routed army was parsucd as far as Tadcaster, with great bloodshed nad confusion. Above $\$ 6,000$ men are said to have fallen in the battle and pursuit. Henry and Margaret had remained at York during the action; but learning the defeat of their army, and being sensible that no place in England could now afford them shelter, they fied with great precipitation into Scotland.

We must here say a few words concerning the state of that country. The Scots, notwithstauding the animosity between the two nations, bad never made any vigorous atteropts to take advantage either of the wars which Enghand carried on with France, of of the civil commotions which arose from the competition for the crowa.

James I. who thad been long a prisoner in England, and had received bis education there, was liberated by a treaty in the year $1+24$. In the same year he narried an English lady, Joan Beaufort, grand-daughter of John of Gaunt, duke of Lancaster. He maintained a constant friendsbip with the English nation, and employed his reign in recovering that portion of his paternal estate, depressing the nobility, and reforming abuses.

He protected and encouraged tearning and learned men, and even kept a diary in which be wrote down the names of all the learned men whom he thought deserving of Lis encouragement. James himself wrote some poetry ; and in music was such an exeellent composer, that he is with good reason looked upon as the father of Scols-mnsic, which has been so much admired for its elegant simplicity; he introduced organs inta his chapely, and a much better style of architecture into all buildings, whetier civil of religious, Neither did he confine his cares to the fine arts, but encouraged and pros tected those of all kinds which were useful to society; and, in short, he did more towards the civilization of his people, than had been done by any of bis pretecessons

He, bowever, used so much severity, that he was at last murdered, in the ycar $1+37$ The perpetrators of this murder were the earl of Athol; Robert Grahame, who wha
connected with the carl, and who was discontented on account of his losing the estate of Strathern, which had Leen re-annexed to the cromn ; and Robert, grandehild sud bein to the earl of Athol, and one of the king's domestics.

The king had di-missed his army, nithout even reserving to limself a body-guard, and was at supper in a Dorimican convent in the neighbourhood of Perth. Grahame had for some time been at the head of a gang of outlaws, and is said to have brought a party of them to Perth fa the dead of the night, where he posted them near the couvent. Walter Straton, one of the king's cup-bearers, went to bring some wine to the kigg while at supper; but percciving arned men standing in the passages, he gave the alarm, and was immediately killed. Catharine Douglas, one of the queen's maids of bonour, ran to bolt the outer door; but the bar was taken away by Robert Stuart, in order to facilitate the entrance of the murderers. The lady thrust lier arm into the staple; but it was instantly broken, and the conspirators rushed in upon the king. Patrick Dunbar, brother to the earl of March, was killed in attempting to defend his sovercign, and the queen received two wounds in attempting to interpose herself betwixt her husband and the daggers of the assassins. Janes defended himself as long as he could; but at last expired under the repeated strokes of his murderers, after having received 96 wounds.

The minority of his son and his successor James 11. and the distractions incident on it, prevented the Scots froun molesting Enghand.

But when the quarrel between the rival houses of York and Lancaster was become incurable, unless by the total extinction of onc of the parties, James 11. who had now risen to man's estate, was tempted to make use of that opportunity, in hepes of recoverjug those places which the Finglish had conquered from his ancestors: he invested the castle of Roxburgh, and had provided himself with some pieces of cannon, in order to forward the siege ; but one of them unhappily bursting, as be was firing it, put an end it once to his life and his undertaking : his son and successor, James III. was yet a minor; and the disturbances common oo minorities ensued in the government. The queen dowager, Anne of Gueldors, aspired to the regency; the liouse of Bouglas opposed her pretensions : so that the queen of England, when she arrived in Scotland, found there a people little less divided by faction than those from whom she had fied.

The Scottish council, however, agreed to assist Margaret, on her offering to deliver up to them the important fortress of Berwick, and to contract her son in marriage with a sister of James their king. And Margaret, with her northern auxiliaries, and some succours from France, ventured once more to take the field, and to make an inroad into Englanil. But she, was able to penctrate uo farther than Hoxliam : 'there she was attacked by lord Montacate, brother to the earl of Warwick, and warden of the suarches, who totally routed her motiey army. All who were spared in the field suffereit on the scaffold.

The fate of the unfortunate royal fumily, after this overtironr, was, it is said, equally singular and affecting. Margaret fled with her son into a forest, where she endeavoured ko cenceal berself, and was beset during the darkness of the night by robbers, who de-

## A. D. 4465 .

BITITISH EMTPIRE. $-273$
spoiled her of her jewels, and treated lier with the utnost fadignity. She tmade her escape, however, while they were quarrelling about tho booty; and wandered some time with her son in the most unfroquented thickets, spent with hunger and fatigue, and ready fo sink bencath the loath of terror and affiction:

In this wretched condition sho was met by a robber, with his sword uaked in his hand; and seeing no means of escape, she soddealy embraced the bold resolution of trusting entirely to his faith and generosity. "Approach, my frlenid," eried she, presenting to him the young prince, to you I cominit the siticty of your king 's sonn" " Struck with the singularity of the evont, and charmed with the colifidence reposed in him, the robber became her protector. By lis favour she duclt concealed in the forest, tilt she found an opportaiky to make her escapa into Flanders; whence she pussed to her father in France, where she lived several years in privacy and retirement. Henry was less fortunate in finding the means of escape: he lay concented during 19 months in Lanceashire ; but was at list defectod, delivered up to Edward, and throwa into the toiver.

This young king EAfuard IV. white in the height of disipation, had resolved to marry, in order to secure lis throne by issue, as well as by allianges; and he had cast bis eycs on Bona of Savoy, sister to the queen of France. The negotiation was comaitted to the earl of Warwick, who went over to Paris, where the princess then resided: his proposals were accepted, and the treaty was fully concloded. Notling remained but the ratification of the terms agreed on, and tho bringing of the princess over to Ehgland. Meenwhile the charms of lady Elizabeth Gray, one of the finest and most accomplished women of her time, biad inflamed the lieart of Edward. Her husband, sir Johin Gray of Groby, had been slain in the second battie of St. Alban's, fighting on the side of Lancaster, and his estate contiscated ; and when the king came accidentally, after a hunting party, to the house of her father, sir Richard Woodville, to whom she had retired, she threw herself at lifs feet, and entreated thin to take pity on hier impovertished and hicpless children. The sight of so much beauty in distress strongly affected the susceptible Edward. Love insensibly stole into his heart, under the disguise of compassion. He raised the fair supplfeant from the ground with assuranices of favour ; and as his passion was increased by the winning conversation of Elizabeth, he soon found himself reduced to that posture and stile of solicitation, which had been so lately hers. But all his solicitations were in vain, she obstinately refused to gratify his passion; and the young and gallant monarch found for once a virtue which his fondest assiduities could not bend. Initamed' by gpposition, and Milled with veneration' for such bonourable sentiments, Edward lost sighit of all but love. He offered to share his thirone, as well as his heart, with the woman whose beauty of persora, and dignity of character, seemed so well to entitle liereco both : and the marriage was privately celobrated at her father's seat in Northamptenshire.

Warkick; who was still at Paris, no sooner received intelligence of the King's marriage, than, he retarned to England inflamed with rige and indignation, at being em'ployed in a deceitful treaty, and kept a stranger to the intentions of the prince, who owed every thing to his friendship. The king was sensible that Warwick bind heen ill used; Vol. I.

4 A
but his pride, or false shame, prevented bim from making an apology: and that noblemun was permitted to depart the court in the same bot temper that he came. The advancement of the queen's relations into offices of power and trust, to the exclusion of those of Warwick, whom she regarded as her mortal enewy, heightened his discontent, and made him to resolve to ruin the king he had made. In order to effect his parpose, Warwick drew over to his interest the duke of Clarence, the king's second brotier, by offering him in marriage his eldest daughter, and co-beiress of his inmense fortume. Many of the antient nobility envied the sudiden growth of the Woodviltes. They associated themselves with Warwick; who, finding his own name insufficient, and being chased to France, after some ineffectual struggles, entered into a league with queen Margarel, his inveterate enemy.

Ou his return to England, he was juned bs the whole body of Lancsastrinas. Both parties now prepared for a general dectision by arias ; and a decisive action wes every moment expected; when Edward, finding himself betnayed by the marquis of Montague, and suspicious of his other commanders, suddenly abandoned his army, and fled to Holland. Heary VI, was taken from his confinement in the tower, and placed once more upon the English throne ; and a parliament, called under the influewee of Warwick, declated Edward IV, an usarper.

But this revolution was only the effect of the giddiness of factioni. Warwick was no sooner at the helm of government, than his popularity began to decline, though he appears to bave been guilty of no unpopular act; so fugitive a thing is public favour ! The young king was emboldened to return. He landed at Ravenspur, as Heury IV. had tormerly done upon a like occasion; and although he brought with him only 9000 men, he soon found himself in a condition to face the earl of Warwick, wha had taken post at Barnet. The city of London opened its gates to Edward; who thus became at once master of his capital, and of the person of his rival Henry, doomed to be the perpetual sport of fortune. The arrival of queen Margaret, whose presence would hinve been of infinite service to her party, was every day expected. In the wean time the duke of Clarence, Warwick's son-in-law, deserted to the king, and carried along with him a body of 12,000 men. Dht Warwick was now too far advanced to retreat; and as he rejected with disdain all terms of peace offered him by Edward and Clarence, he was obliged to hazard a general engavernent. The battle was fought with great obstinacy on both sides. The two aruies, in imitation of their leaders, displayed uncommon aets of valour, and the contest for vietory remained long undecided; but an accident threw at last the balance on the side of the Yorkists. Edward's cognizance was a sua, Warwiek's a star with rays; and the mistiness of the moming readering it difficult to distinguish then, a body of the Lancastrians were attacked by their friends, and driven of the field. Warvick did all that experience, conduct, or valour could suguest, to re-t trieve the mistake, but in vain. He bad engaged on foot that day, contrary to his usual practice, in order to shew his troops, that he was resolved to share every danger with them ; and now sensible that all was lost, unless a reverse of fortune could be wrought by some extraordinary effort, he rushed into the thickest of the engagement, and fell, eovered with a multitude of wounds. His brother, the marquis of Montague, underwent
the same fate; and as Edward had issued orders to give no quarter, a great and undistinguished slaughter was made in the pursuit.

Queen Margaret and her son, prince Edward, now about 18 years of age, landed from Frince the same day on which that decisive battle was fought. She bad hitherto sustained the shocks of fortune with surprising fortitude ; but when she received intelligence of her husband's captivity, and of the defeat and death of the earl of Warwick; her courage failed her, and she took sanetuary in the abbey of Beaulieu, in Hampshire. Encouraged, however, by the appearance of Tudor, earl of Pembrnke, and several other noblemen, who exhorted her still to hope for success, she resumed her former spirit, and determined to assert to the last her claim to the crown of England. She accordingly put herself once more at the head of the army, which increased in every day's roarch, and advanced through the counties of Devon, Sumerset, and Gloucester. But tie ardent and expeditious Edward overtook ber at Tewksbury, on the banks of the Severn, where the Lancattrians were totally routed. Margaret and her son were taken prisoners, and brought to the king, who asked the prince in an imperious tone, how he dared to invade his dominions. "I came hither," replied the undaunted youth, more mindful of his high birth than his present fortune, "to revenge my father's wrongs, and rescue my just inberitance out of your hands." Incensed at his freedom, inttead of admiring thi boldness of his spirit, the ungenerous Edward barbarously struck him on the face with his gauntiet, and the dukes of Clarence and Gloucester, lord Hastings, and sir Thomas Gray, taking this blow as a signal for further violence, hurried the prince aside, and instantly dispatched him with their daggers. Margaret was thrown into the tower, where ber husband Henry had just expired. Whether he died a natural or violent death is uncertain; though it is generally believed that the duke of Gloucester killed bim with his own hand.

The hopes of the house of Lancaster being thus extinguished, Edward projected an invasion into France, in order to recover the dominions lost under his predecessor. Having received a considerable supply, he passed over to Calais, with an army of 1.500 men at arms, and 15,000 archers. Though he was deserted by his ally, the duke of Burgundy, his presence so alarmed the French king, as to induce him to propose an accom nodation.

A truce was concluded, on terms by no means honourable to France; Lewis stipulated to pay the king of England immediately 75,000 crowns, in ordor to defray the expence of his armament, on condition that he should quietly withdraw his troops; and 50,000 crowns a-year during their joint lives.

This treaty reffected little honour on either of the monarchs. It discovered the imprudence of the one, and the pusillanimity of the other. But as Lewis made interest the sole test of his honour, he had over-reached Edward, by seading him out of France on such easy terms. The most honourable article on the side of Lewis was the stipulation for the liberty of queen Margaret, who was still detained in custody by Edward. Lewis paid 50,000 crowns for her ransorn; and this princess, who, in active seenes of life, had experienced so remarkably the vicissitudes of fortune, passed the remainder of her days in tranquillity and privacy. Margaret seems neither to have possessed the vivtues
or bech suljoct to tho weaknesses of-her sex; and slie was as much tainted with the fer rocity, as endowed with the courage of the age in which alie lived.

The dark and uarelenting disposition of Richard, duke of Giloucester, the futore scourge of Enyland, began more particulariy to discover itself after Edward's return from France. The duke of Clarence, by all his services in deserting Warwick, had never been able to regain the king's friendship, which he lad forfeited by his former confederacy with that nobleman. He had also the misfortuse to oflend his brother Gloucester, who secretly conspired his ruin. Several of his friends were accused and executed, under frivolous pretences, in hopes that his resentacat would betray him into measures which might furnish matter for an inpeachment. He fell into the snare. Instead of securing his own life against the present danger by silence and reserve, he was open and loud in asserting the innocence of liis friends, and in exclaining against tho iaiquity of their prosecutors. The king ordered him to be"committed to the tower; and he was sentenced to die by the house of Peers, the supreme tribunal of the nation, for arraigning public justice, by maintaining the innocence of men, who had been condemned ia courts of jodicature. The only favour which the king granted himwas the choice of his death, and he is said to have been privately drowned in a butt of Malinsey.; a whimsical choice, which leads us to suppose that he was passionately fond of that liquor.

Tae remaining part of Edward's reign was distinguished by no remarkuble evont. He sunk again into indolence and pleasure, from which he was once more roused by tha prospect of a French war. While making preparations with that view, ho was scized with a siolent distemper, of which be died, in the fod year of his age.

He was a prince of more vipour than prudence; and consequently less fitted to prevent ilts by wise precaution, than to remedy them after they toak-place. As a man, le possessed many accomplishments : his virtues were few, his vices a numerous catalogue.

Edward IV. left two sons ; the prince of Wales, now Edward V. in his thirteenth year, and Richard, duke of York, in his ninth. The duke of Gloucester, their uncle, nhose sanguiany disposition we have had occasion to notice, was appointel regent by Edward's desire, and chosen protector by his own artifices. He had already got the tro young prinecs into his possession, contrary to the inclination of their mother, who seenied struck, with a kind of presage of their future fate ; and his eye was fixed upon the throne, though not only the sons of Edward, but those of the duke of Clarence stood between him and it.

An attempt to exclude or destroy so many persons, possessed of a preferable right, may seem equally iuiprudent and impracticable. But a man like Gloucester, who had abandoned all principles of honour and humanity, was soon carried by his predominant passion beyond the reach of fear or precaution : and having so far suicceeded in his views, he no longer hesitated in removing the other obstructions in his way. He ordered earl Rivers, the queen's brother, sir Richard Gray, her son by her former husband, and sir Thomas Vaughan, who possessed a considerable place in the young king's houschold, and was firmly attached to his person, to be thrown into prison, and executed without any form of trial. His next step was to draw into his views the duke of Buck-
ingham and lord Hastings. With the first he suceeeded ; but the last remained firm to his allegiance to the children of Edward, wha had ever honoured him with hls fiiendship. His dentir was therefore resoived upon; and for that purpose a council was sumboned in the tower, whither that nobleman, suspecting no herm, repaired without hesitation. Glouccater, on taking bis place at the council board, appieared in the easiest and most facetious humour imaginable ; but making a pretence soen after to retire, as if called away by urgent business, he returned, knitting his brows, grindiag his teeth, and exhibiting, by frequent change of countenance, symptoms of inward perturbation. A general sifence ensued : every one dreading some terrible catastrophic, and all gazing with loaks of doubt and auxiety upon eitch other. Richard at last relieved them froan their awful suspensc. " What pumishment do they deserve," said he, " who have conspired against my life?" "The death of traitors," replied lord Hastings. "These traitons," cried Richard, "are the sorceress, my brother's wife, and that witch Shore, his mistress. with others, their associates. See to what a condition thoy have reduced me by theie spells and incantations $\Gamma$ laying bare his arm, all shrivelled and decayed. The amazement of the cooncil ficreased, it being well known this infirmity had attended liim froni his childhood; and lord Hastings, who, since Edward's death, was engaged in an intrigue with Jane Shore, was naturally alarmed' at such an accusation. "Certainly, my lord," said he, with some hesitation, "if they are guilty of such crimes, they deserve punistiment." "And do you," exclained Richard, "reply to me with your ifs ? You know their guilt: you are yourself a traitor, and the elbief abettor of the witch Shore ; and I swear by St. Paul, that I will not dive until your head is brought me II He struck the table with his hand, armed men rushed in at the signal : Hastings was seized ; burried away; and instantly beheaded ou a log of wood, which accidentally lay in the court-yard of the tower.

Richard having thus got rid of the man he most fcared, and of all who were most likely to oppose his viers, ordered lord Stanley, the archbishop of York, the bishop of Ely, nad other couicellors of whom be was suspicious, to be committed prisoners to the tower ; and in order to carry on the farce of accusation, he commanded the goods of Jane Shore to be scized, and summoned her to answer before the council for sorcery and witcheraft. But as beauty was her ouly witchcraft, and conversation her most dangerous spell, no proofs were produced against her which could be received, even in that ignorant age. Her persecution, however, did not end here. Thiough famed for virtue, she had proved unable to resist temptation, and had left her husband, a goldsmith in Lombard street, to live with Edward, who solicited her favours. But while seduced from her fidelity by this gay and amorous monarch, she still made berself respectable by her other virtues. She never sold her infuence. Her good offices, the genuine dictates of her heart, waited not the solicitation of presents, or the hopes of reciprocal twefit; to protect the oppresset, and relieve the indigent, were her highent pleasures. Xet all her amiable qualities could not save her from the bittemess of shame, cruelly imposed upon her by a barbarous tyrant. Riebard ordered her to be tried in the spiritual court for adultery. The charge was too notorious to be denied. Slie pleaded guilty, and was condemned to do public penance in a white sheet at St. Pauls after wall-

## BRITISH EMPIRE.

ing harefooted throaghi the city. Her future life was lone and wretclied. She experienced intold age and poverty, the ingratitude of thowe courtiers whom she haid raised into fivoor. Not ones of all the multitodes she had obliged, bad the humanity to bring Ler consolafiun or redief.y Her fruilties as a woman; amid a court inured to the most atrocious-crimes, were thiought, poffeient to jostify all violations of friendship touards her, and atl neglect of former obligations; ; and she was perraitted to tanguish out her days in solitude and want.
So many uctu of violence, exercised agnainst all the nearest comections of the late king, prognosticated thie severest fate to this defenecles cliildren; and after the murder of Hastings, Richard no longer minderalsolret of bis intention to usurp the crovin. As a colcur to tiis pretensions, he not only nrighoined that his two nephews were illegitimate, but also his two brothers, Ediwind IV. amf the duke of Clarence; that bis mother had admitted different lovers to lier bed, nho were the fathers of these children; that their resemblunce to those gallants was a sufficient proof of their spurious birth; and that he alone, of all her sons, as appeared by lis features, was the true offspring of the duke of York.
The place chosen for promulgating this foul and impudent assertion was the pufpit, before a large congregation, and in Richart's presence. Dr. Sbaw, a sycophant, entircly at his devotion, was appointed to preach at St Paufs who enlarged on crery circumstance that could diseredit the birth of Edward IV. the divke of Clarence, and of all their children. He then broke out into a panegyric on the duke of Gloucester, exclaining " It is be who carries in his fice, in his soul, the iange of virtue, and 'the marks of a true descent $!^{1}$. And it was expected, as soon as the doctor ithad pronomeced these vords, that the tudience would cry out, "God saive king Richard" a salutation which would immediately have been laid hold of as a popular consent and finterpreted to be the voice of the nation. But the audience kept a profound silence; and disappointed both the protector and his preacher: Ricliard, bowever, lad gone too far to recede from bis criminal and ambitious purpose. Anothicr place was chosea for a popalar barangue: a place where a popular speaker never fails to persuade, and where a voice may be obtained for any measure, however atfocious or' absurd. The citizens of London, with the rabble at their heels, were assembled in Guid hall, where the duke of Buckinghain addressed them in an elegant harangue, setting forth the title and virtecs $0^{\prime}$ the protector, and "God save king Richind !" was at last retarned by the mob The sentiments of the nation were now thought sufficiently declared; the voice of tho people was the voice of God! Richard was prevailed upon, though with seeming reluctaince, to accept of the crown; and he thenceforth reted as legitimate and lawful sovereign.
This ridiculous farce, as is said by most historians; was followed by a scene truly tragical; the murder of the two young princes. . Bichard gave orders to sir Robert Brakenhury, constable of the tower, to put bis nephews.to denth; but shat rentloman refused to bear any part in the infemons office. The uturper thert selit for sir Jamea Tymell, who promised obedience, and the government of fle torer was given him fur one night. He chose three associates, whom he emploged to execute his barbarous
commission, and conducted them, aboub midnight, to the door of the chamber where the princes were lodged. They were in bed, and fallen into a profound sleep. The ruffians suffocited them with bolaters and pillows, and afterwards shewed their naked bodies to Tyrfoll, who ordered thom to bo buried at the foot of the stair-case, under a heap of stones. These circumstances were confessed ty the perpetrators, in the following reign.

It is necessary to admonish the reader, that the accounts bere given concerning the conduct of Richard have been called in question by some modern writers. They not only exculpate him from the charge of the murder of bis nephews, but assert that the, marriage of Edward IV, with Elizabeth. Wood-ille was illegal, by: reason of a prior contract, and that therefore Richard, in laying clain to the crown, only vindicated his hereditary right.

Richard having thus extirpated all whom he feared might disturb his government, endeavoured to gain by fivours those whom he thought could give stability to his throne. Severnl noblemen received new honours; and lord Stanley was set at liberty, and made steward of the household.

But Richard's danger arose from a quarter whence he least expected it. The duke of, Backinghan did not think limself sufficiently rewarded for his service in promoting the usurpation: he observed the general detestation of Richard; and, by the advice of Morton, bishop of Ely, he turned his eye towards the young eari of Richmond, now an exile in Brittany, as the only person capable of freeing the nation from the tyranny under which it groaned.

Henry, earl of Richmond, was grandson of sir. Owen Tudor and Catharine of Frunce, relict of Henry V. By bis mother he was descended from Jobn of Gaunt, duke of Lancaster, son of Edward III, and was the only remaining branch of that fam ly, which bad so long contended for the crown. In order to strengthen his interest, a match was concerted between him and Elizabeth, eldest daughter of Edward IV. Money was sent over to him, for the porpose of levying foreign troops; and the queen-dowagor promised to join him on his first appearance, with all the friends and partizans of her family.
But so extensive a conspiracy, though laid on the solid foundations of good sense and sound policy, could not escape the jealous and vigilant eye of Ricbard.

He soon received intelligence that his enemies, headed by the duke of Buckingham, were forming some designs, against him. The duke, unable to resist the force of lichard was obliged to seek safety in retreat ; be was discovered, condemned, and executed, and the otiser conspirators, who had taken arins in diffirent parts of the kingdon, when informed of this misfortune, despaired of success, and immediately separated themselves. Mean time the carl of. Richmond appeared on the coast of England, with a body of 5000 men : thut hearing of the fute of Buckiugham, and the dispersion of lis friends, he returned to the coast of Brittany.

Richard, thus triumphant in every quarter, and fortified by an unsuccessful attempt - to detirone him, ventured at last to summon a parliament ; a measuro which his muln
tiplied crimes, and flagrant usurpation, had hitherto induced hisi to decline. The parliament had no choice left but to recoguize his authority, and acknowledge his right to the crown. His son Edward, a youth of 12 years of age, was created prince of Wales: and the king passed some popular laws, in order to reconcile the nation to his government.

All Richard's other measures teaded to the same object. Ilis queen being now dend, be proposed, by means of a popal dispensation, to marry the princess Elizabeth, the true heiress of the erown, and intended for the carl of Hichmond, if his enterprise had succeeded. And, strunge as it may sound in civilized ears, the queen-dowager neither scrupled this alliance, which was very unusal in England, and regarded as incestuous, nor felt any borior at the thougbt of inarrying her dauglter to the murderer of ker three sons, and of ber brother.

But the earl of Richmond, alarmed at an alliance which must prove fatal to all his hopes, and encouraged by the Euglish exiles, resolved upon a new invasion. All men of probity and boaour, he was assured, were desirous to prevent the sceptre froin being any longer polluted by that bloody and faithless hand which held it. In consequence of these representations, lie set sail from Harfleur, in Normandy, with a retime of about 2000 men , and landed at Milford haven, in Wales. The Weleb, who considered him as their countryman, flocked to his standard; and his cause immediately wore a favourable aspect.

Fichard, who knew not in what quarter he might expect the invader, had taken post at Nottingham, in the centre of the kingdom, and having given comnissions to different persons in the several counties, whom he impowered to oppose his enemy, he proposed in person to haste, on the first alara, to the place most exposed to danger. The Welch governors had already deserted to Heary. But the danger to which Richard was chiefly exposed, proceeded not so much from the zeal of his open enemies, as from the infidelity of his pretended friends. Scarce any nobleman was sincerely nttached to his cause, except the duke of Noriolk; and some, who had feigned the greatest loyalty, were only watching for an opportunity to betray and abandon him. Among these was lord Stanley; who raised a numerous body of his friends and retainers in Clieshire and Lancashire, but without openly declaring himself, his son being in the tyrant's poner. And although Henry had received seeret assurances of Stanley's friendly intentions, the armies on both sides knew not what to infer from his equivocal behaviour. When they met at Bosworth, near Leicester, Henry's army consisted of 6000 men, Richard's of double that number; and he hastened to decide by arms the quarrel with his competitor. Soon after the battle began, lord Stanley appeared in the field, and declired for the earl of Richmond. This measure had a proportional effect upon both armies : it inspired unusual courage in Henry's soldiers ; it threw Richard's into dismay and confusion. The intrepid tyrant, now sensible of his desperate situation, cast his cyo across the field, and descrying his rival at no great distance, attempted to decide the vietory by a blow. He killed with his own hand sir William Brandon, standard-bearer to the earl; be dismounted sir John Cheney; and he was within reach of Henry himself, who de-

## BRITISH EMPIRE.

elined not the combat, when sir William Stanley broke in between them, and surrounded Richard with his troops. Though overichelmed by numbers, he still maintained the combat; and at hast sunk amid beaps of slain, who had fallen by his arm.

This'battie was entirely decisive ; the king not only being sinin, but the whole royal army totally routed and dispersed. The victorions troops, in a transport of joy, bestowed on their general the appellation of king; and "Long live Henry VII !" sesounded from all quarters, and was continied with repeited acclamations. In prder to give some kind of form to this military election, the ornamental crown, which Richard wore in battle, was placed upon Hénry's head: his titie was confirmed by the parliament ; and his marriage with the prineess Elizabeth, which took place soon after, unifed thio jaring clains of the houst's of York anit Lancaster. Thus enided the nicsu of the Phantagenets, who had sat upwards of $\$ 00$ years upon the thrune of England, and thus the civil wars, which had so long desolated the kingdom.

Though the period, the evente of which' we have now recorded, is justly considered as darker than cither of the two preceding, yet in it the English lunguage began to he more cultivated, and authors of considerable eminence were not ashamed to pulilish their productions ia their mother tongue. Among these, the highest rank is due to Gicoffiry Chaucer, the fither of English poetry, who flouristied in the reigns of Edward III. Richard It, and Henry IV. He added to a lively genius and a learned edication a thorough knowledge of life and manners: he was perfectly a man of the world; had frequently visited France and Italy, and sometimes under the advantage of a public character : he had studied the Italian and Provengal poets, wis intimitely acquainted with both languages, and attempted successfully all the Kinds of poctry then in use.

Chaucer, however, had many disadvantages to struggle with, from which his cotemporaries were in a great measure free. William the Conqueror had attempted to extirpate the English tongue. The Norman language was ordered to bo used in all public writings, and taught in all pablic sehools. It was also the dialect of the court. That badge of slavery was only abolished by Edward III. It had continued almost 300 years. Chaucor had therefore to create, or at least to form a new dialect. This circumstance ought atways to be attended to in contemplating the writings of our venerable bard ; as it alone can account for that prodigious disparity, observable, after all his diligence, betireen the progress of English manners, and of the English language. Had things continued to proceed' in their natural order, Chauccr's style would now have been nearky as intelligible as that of Shikespeare.
: But this dawn of English literature and English refinement was deeply obscured by the civil wars that followed, and which continued, with little interruption, till the accession of Henry VII.

Polite literature was soon after cultivated in Scotland, by the unfortunate monarch James I. ; but Ireland still mained in too distracted a state to permit that civilization should there make ? . cxtensive progress.

Vol. I.

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## CHAPTER IX

Great Buitain and Imerand From the accession of Henry VII. to the death of Henry VIII

HENRY V1I. the first prince of the house of Tudor, ascended the throne ai England, as we have already seen, in consequeuce of the victory at Bosworth, and the death of Richard III. His title was confirmed by the parliament: his merit was known; and his marriage with the princess Plizabeth, eldest daughter of Edward IV. united the jarring claims of the houses of York and Lanenster, and seemed to give universal satisfaction to the nation : he had therefore every reason to promise himself peace and security.

But Henry, although in many respects a prudent and politic prince, had unhappils imbibed a violent antipatly against the adherents of the house of York, which no time or experience was ever able to effice. Instead of embracing the present fovourable opportunity of abolishing party distinctions, by bestowing bis smiles indiscriminately on the friends of both families, he carried to the throne all the partialities tcat belong to the head of a faction. To exalt the Lancastrian party, and depress tha retainers of the house of York, were still the favourite ideas of his mind. The house of York was generally beloved by the nation; and for that very reason it becume every day more the object of Henry's hatred and aversion; bence his amiable consort was treated with contempt, his government grew unpopular, and his reign was filled wiht plots and insurrections.

The first insurrection was headed by the viscount Lovel, sir Humphry Stafford, and Thomus his brother, who had all fought in the cause of Ricbard, and against whom, among many others, the parliament, at Henry's instigution, hid passed an act of attainder; though it is not conceivable how men could be guilty of treason for supporting the king in his possessions against the enrl of lichmond, to whom they bad never sworn allegiance, and who haid not even assumed the title of king. Enraged at such an instance of severity, they left their sanctuary at Colehester, and fleir to arms. The king sent the dake of Dedford against them with a chosen body of troops, and a promise of pardon to suich as would return to their daty. Lovel, afraid of the fidelity of his followers, privately withdrew, and fled to Flanders. His arny submitted to the king's clemency. The other rebela, who bad undertaken the siege of Worcester, immediutely dispersed themselves. The two Staffords took sanctuary in the church of Colnham, a village near Abingdon; but it was found that that clarch had not the privilege of proteeting rebels, they were taken thence: the elder was executed at Tyburn, the younger obtained a pardon.

This rebellion was immediately followed by another, of a more dangerous nature, as it laid deeper hold of the public discontents. Henry's jealousy confined in the tower

Edward Plantagenet, earl of Warwick, son of the duke of Clarence. This umlempy prince had been formerly detained, in a like confinement, at Sheriff Hutton in Yorkshire, by the jealousy of his uncle Richard. A comparison was drawn between Henry and that tyrant, and as the tower was the place where Edward's children were supposed to have been murdered, a fate not more gentle was feared for Warsjick. While the compassion of the nation was thus turned towards youth and innocence, exposed to oppression, a report, was spread, that Warwick had made his escape. A gene al joy commumicated itself from face to face, and many seemed desirous to join him: Such a fivourable opportunity was not neglected by the enemies of Henry's government. Oae Richard Simon, a priest, of Oxford, and a zealous partizan of the house of York, attempted to gratify the popular wish, by holding up an impostor to the vation. For this purpose be cast his eyes upon Lambert Siunch, a haker's son, who beling endowed with understanding beyond his years, and address above his condition, secmed well calculated to personate a prince of royal extraction. Simnel was tanght to assume the name and character of carl of Warwick: and he soon appeared so perfect in many private particulars relative to that unfortunate prince, to the court of king Edward, asd the royal family, that the queen-dowager was supposed to bave giren bim a lesson But how apt socver father Siman might find his pupil, or whatever means he might take to procure him instructions, he was sensible that the imposture would not bear a close inspection; he therefore determined to make trial of it first in Ireland.

That island was zcalously attached to the house of York, and bore an affectionate regard to the memory of Clarence, Warwick's father, who had resided there as lord lietltenant : and Henry had been so impolitic as to allow it to remain in the same condition in which he found it. All the officers appointed by his predecessor still retained their authority; so that Simnel no sooner presented himself to Thomas, earl of Kildare, the deputy, and claimed his protection as the unfortunate Warwick, than that credulous nobleman belisved his tale, and embraced his causc. Other noblemen, to whom hu communicated the fiction, were no less sanguine in their zeal and belief; the story diffused itself among the people of inferior condition, maturally more violent and crudulous, who listened to it with still greater ardour; and the inhabitants of Dublin, with one consent, tendered their allegiance to Simnel, as the true Plantagenet. They lodged the pretended prince in the castle of Dublin, crowned him with a diadem taken from a statue of the Virgin, and publicly proclaimed him king, under the appellation of Edward VI. The whole island followed the example of the capital: not a sword was drayn in favour of Henry. The king was a good deal alarmed, when he received intelligence of this revolt. Though determined always to face his enemies, he scrupled at present to leave Eugland, where be suspected the conspiracy had been framed, and where he kuew wany persons of condition, and the people in general, were disposed to give it countenarce. He thercfore held frequent consultations with his ministers and counsellors relative to the measures most proper for tho safety of his kingdom, and the means of discovering the origin of the imposture. In consequence of these deliberations, the queen-dowager was taken into custody, and confined in the numery of Bermondsey for life. Unwilling, however, to accuse so near a rclation of a conspiracy against thin, the king alleg-
ed, that she was thus punished for yielding up the princess Elizabeth, now quecn, to the tyrant Richard, after she had been secretly promised to him. Henry's next step was no less deliberate. He ordered Warwick to be taken fiom the tower, led in proceseion through the streets of London, eonducted to St. Panl's, and there exposed to the view of the whole people. This expedient had its fall effeet in England, but in Treland the people still persisted in their revolt: and Henry bad soon reason to apprehend, that the attempt to disturb his government was not laid on such slight foundations, as the means employed sécmed to indicate.

John; earl of Lincoln, son of John de la Pole, duke of Suffolk, and of Eliznbelb, eldest sister of Edward IV. was engaged to take part in the conspiracy. This noblemon, alarmed at the king's jealousy of all eminent persons of the York party, and more especially at his rigour towards Warwick, had retired into Flanders, where lord Lovel was arrived a little before him. He resided some tine in the court of his aunt, the duchess of Burgundy, by whom he had been invited over. Margaret's bosom flamed with ithdignation against the oppressor of her family: and she determined to make hiut repent of his unreasonable enmity. After consulting with Lincoln and Lovel, she therefore hired a body of 2000 veteran Germans, under the command of Martin Swart, a brave and experienced officer, and sent them over along with these noblemen, to join Simnel in Ireland. The courage of the Irish was much raised by this accession of military force, and the countenance of persons of such high rank; so that they formed the bold resolution of invading England, where they believed the spirit of disaffection to be no less prevalent than in Ireland. They accordingly landed at Foudrey, in Lancashire, and were joined by sir Thomas Broughton, a man of great interest in that county; but the people in general, averse against an association with Irish and German invaders, convinced of Simnel's imposture, and kept in awe by the kings reputation in arms, cither remained in tranquillity, or gave assistance to the royal army, which was advancing towards the enemy. The carl of Lincoln, thercfore, who commanded the rebels, finding no hopes but in victory, determined to bring the matter to a speedy decision; and Henry, emboldened by his native courage, no less than by the superiority of his uumbers, intrepidly advanced to the combat. The two armies met at Stoke, in the county of Nottingham, where a bloody and obstinate battle was fought. All the leaders of the rebels were resolved to conquer or die, and they ingpired their troops with the like resolation. They were at last, however, obliged to give way : and if Henry's victory was purchased with loss, it was' entirely decisive. Lincoln, Broughton, and Swart, perished in the field of battle, together with -4000 of their followers. Lovel is supposed to have undergone the saise fate, as he was never more heard of. Simnel and his tutor Simon were taken prisoners. Simon was committed to close custody for life; and his sacred character only could have saved him from a severer fate. Simnel was foo contemptible either to excite apprehension or resentment in Henry: he was therefore pardoned, and employed as a scullion in the king's kitchen; froin which coadition he was afterwards advanced to the rank of one of his majesty's filconers.

In the year 1493 the tranquility of Henry was disturbed by a young man, who bas been gencrally distinguished by the name of Perkin Warbee; he is said to have been the son

## DRITISH EMPIRE:

of a Jew of Tournay, to have been born in England, and after passing through a variety of adventures, to-have been recommended to the duchess of Bargundy, sister of Edward IV, as a proper person to gratify het revenge, by ussuming the aume and character of one of the murdered princes.

The accounts of his birth, education, and carly adventures; are so extremely contradictory and unsatisfactory, that many have preferred the opimion that he was the personhe pretended to te-Richard, duke of York, and mow, by hereditary right, the fourth of that name king of England. Whether he was only a pretender, or really that exiled and unfortunate prince, is a question, which will probably be never decided; we may, however, safely affirm, that neither his imposture, nor his personal identity, were ever proved by such arguments as cuforce conviction. His first. publie oppearance was in: Ireland, where he drew to himself many partizans. Having received an invitation from. Charles VIII, he visited the court of France, and was theio received with every mark of respect. From France, the tide of adinimation and credulity diflused itself into England: and sir George Nevil, sir John Taylor, and above 100 gentlemen more. went over to Paris, in order to offer theii services to the supposed duke of York, and to share his fortunes. He afterwards relired to the duchess of. Burgunds, who at last professed herself, and evinced that he was her nephew, assigned him an equipago suitable to his pretended birth, appointed hihs a guard, engaged every one to pay court to him, and on all occasions bonoured him with the appellation of The Wbite Rose of England.
5. The impostor's story was immediately published, for the satiafaction of the nation: and as soon as Henry's projects were matured, he made the conspirators feel the weight of his resentment. Almost in the same instant, lie arrested lord Filzwaltar, sir Simon Mountford, and sir Thomas Thwaites, who were convictel of high treason, for promising to aid Perkin, and presently executed. Sir Willian Stanley, the lord high chamberlain, wans also arrested ; but greater and more solemn preparations were thought necessary for the trial of a man, whose nuthority in the mation, and whose donestic iutimacy with the king, as well as his former services, seemed to secure bim against any aceusation or punishment.
Henry, however, was deternined to take vengeang on all his enemies. He therefore won over sir Robert Clifford, Perkiu's particular confidant, who, returning to Eng; land, on a promise of pardon, accused Stanley as his chief abettor; and after six weeks delay, which was interposed, in order to shew tho king's lenity and coolness, the chamberlain was brought to his trial, coudemued, and beheaded.
1 The fate of Stanley made a great impression on the minds of the people, and struck Perkin's adherents with the deepest dismay; as they found, from Clifford's desertion, that all their secrets were betrayed. The jealous and severe temper of the king kept men in awe, and quelled not only the movements of scdition, but the very murmurs of faction. A general distrust took place ; all mutual confidence was destrojed, even between particular friends.

Henry, io the mean time, elated with success, and little anxious of dispelling those terrors, or gaining the affections of the nation, gave every day more and more Vol. I.

* 4 D.
rein to his rapacious temper, and employed the arts of perverted law and justice, in order to extort fines and compositions from his subjects. His goverament was in itself highly oppressive; but it was so much the less burdersome, as he took care, like Lewis XI. to restrain the tyranay of the nobles, and permitted no one to be guilty of injustice or oppression but himself.

Perkin, now finding his correspondence with the nobility cut of, by Henry's sigilance and severity, and the king's authority daily gaining ground with the people, resolved to attempt something which might revive the drooping hopes of his party. With this vies. be gathered together a band of outlaws, pirates, robbers, and neelssitous persons, of all uations, with whom he put to sea, and appeared ofi the coast of Keut; but finding tlif inhabitants determined to oppose him, he retumed to Flanders, and afterwards made a descent upon Ireland.

The affairs of Ireland, however, were now in so good a posture, that he there met with little success, and being tired of the savage life he was obliged to lead, while skulking among the wild natives, he bent his course towards Scolland, and presented himself to James IV, who then reigned in that kingdom. Perkia had been previously recommended to this prince by the king of France; and the insinuating address and plausible behaviour of the youth himself, seetn further to lave gained bin credit with Jumes, whom years had not yet taught distrust or caution, and who carried his confidence so far, as to give him in marriage the lady Catherine Gordon, daugliter of the earl of Huntley, a young lady eminent both for beauty and virtue.

The jealousy which then subsisted between the courts of Eagland and Scolland was a new recommendation to Perkin; so that James, who had resolved to make an inroad into England, attended by some of his borderers, carried the impostor along with him, in hopes that the appearance of the pretended prince might raise an insurrection in the northern counties. But in this expectation he found bimself deceived. Perkin's pretensions were now become state, even in the eyes of the populace : no Englishman of any condition joined him. James, after repeated incursions, attended with various success, therefore, found it necessary to conclude a truce with Hepry, Perkin being privately ordered to depart the kingdom.

Ireland once more afforded acctreat to the impostor. There he hid himself for some time in the wilds and fastnesses : but impatient of a condition which was both disagrecable and dangerous, he held a consultation with his followers, Horne, Skelton, and Astley, three broken tradesmen, and, by their advice, resolved to try the affections of the Cornish malcontents, who had lately risen in rebellion, on account of an oppressive tax, and whose motinous dispositions still subsisted, notwithstanding the lenity that had been siewn them. No sooner, therefore, did the pretended prince appear at Bodmin, is Cornwal, than the populace, to the number of 5000 , flocked to his standand; and Perkin, elated with this appearance of success, took on bim, for thie first time, the appellation of Richard IV. King of England. That the expectations of lis followers tuight not be suffered to languish, he presented himself before Exeter; and by many fair, though fruitless promises, invited that city to join him. The iahabitants shut their gates against kive, and he laid siege to the place.

## A. D. 1498 -150 g .

BHITISH EMELAK.
Fienre was happy to hear that the impostor had landed in England, and prepared himself with alacrity to attack him ; for, as he usually said, he desired only to sce his enemies. Perkin, informed of the king's preparations, immediately raised the siege of Exeter; although his followers now amounted to the number of 7000 , and seemed still resolute to maintain his cause. he himself despaired of success, and secretly withdrew to the sanctuary of Beaulieu, in the New Forest. The Cornish rebels submitted to the king's mercy, und found it was not yet exhausted in their behalf; a few of their chiefs excepted, they were dismissed with impunity. Henry was more at a loss how to proceed with regard to Perkin bimiclf. Some counselled him to make the privileges of the claurch Fleld to reasons of state ; to drag the impostor from the sanctury, and inflict on him the pumishment due to his temerity. Dut Heary did not think the evil so dangerous as to require such a violent remedy. He therefore employed some sagecions persons to persuava Perkin to deliver himself into the ling's hands, under promise of Pardon. He did so: and Henry conducted bim in a kind of mock triumph to London.

But although the impostor's life was granted him lie was still detained in enstody , aud laving loroke from his kecpers, he was afferiwarls confined in the tower, where this babits of restless iutrigue and enterprise followed him. Ife found means to open at correspondence with the earl of Warwick, who was confined in the same prison ; and he engaged that unfortunate prince to embrnce a project for his escape, which Perkin offered to conduct, by murdering the lieutenant of the tower. The conspiracy did not escape the king's vigilance ; and Perkin, by this new attempt, after so many enormities, having rendered himself totally unworthy of mercy, was arraigned, condemned, and hanged of Tyburn. Warwick was also brougit to trial, found guilty, and executed.

The king's throne was now reckoned perfectly secure, and foreign prinees paid hinh defereace and attention.

The prince, whose alliance Henry valued most, was Ferdinand of Spain, whose vigorous and steady policy, always attended with success, had rendered him, in many respects, the most considerable monarch in Europe. And the king of England had at last the satisfaction of completing a marringe, which had been projected and negotiated, during the course of seven years, between Arthur, prince of Wales, and the Infanta Catherine, fourth daughter of Ferdinand and Isabella; he near 16 years of age, slie 18. But this marriage proved umprosperous. Prince Arthur died a few months after the celebration of the nuptials; and the king, desirous to continue his alliance with Spain, and ałso unvilling to restore Catherine's dowry, obliged his second son, Henry, now prince of Wales, to be betrothed to the Infanta. Prince Henry made all the opposition of which a youth ouly 12 years old could be supposed capable; but as the king persisted in his resolution, the marriage was at last concluded between the parties. It was productive of the most inuportant consequences.

Another marriage was also celebrated the same year, which, in the next age, gave birth to great events : the union of Margaret, Henry's eldest daughter, with James IV. of Scotland. When this alliance was deliberated on in the English council, some objected that England might, in consequence of such marriage, fall under the dominion of Scotland. "No!" replied. Henry, "though Scotland should give an heir to the En-
glish erown, that kingdom will only become an zecession to England;" and the event has proved the justice of the observation.
In The situation: of Henry's affairs, both at bome and abroad, was now in every respect fortunate. All the efforts of the European princes, as we shall afterwards have ocession to see, were turned to the side of Italy; and the various events which there arose, made Henry's ulliance be cagerly courted by each party, yet interested him so little, as never to touch him with concern or anxiety. Uncontrouled, therefore, by apprehension, or opposition, he gave full scope to his natural passion, being increased by ige, and encouraged by absolute authority, broke through all restraints of shame or justice.

He had found two ministers, Enipson and Dudley, perfectly qualified to second his rapacious and tyraunical inelinations, and to prey upon his defenceless people. These instruments of oppression were both lawyers ; the first of mean birth, of brutal manners, und of unrelenting temper ; the second better bom, better edocated, and better bred, but equally unjust, scvere, and inflexible. By their knowledge of law, they were-qualified to pervert the forms of justice to the oppression of the innocent: and Henry supported them in all their iniquities. The sole purpose of the king and his ministers was to amass money, and bring every one under the lash of their authority.
nin But while Henry was curiching himself with the spoils of his oppressed people, he did not neglect the political interests of the nation. Philip, archduke of Austria, and Jiis wife Joan, heiress of Castile, being thrown upon the English coast on their passage to Spain ; Henry entertained them with a magnificence suitable to his dignity, and at an expence by no means agrecable to his temper. But, notwithstanding so much seeming eordiality, interest in this, as in all things, was the only rule of his conduct. He resolved to draw some advantage from the involuntary visit paid him by his royal guests; and while he seeined only intent on displaying his hospitality, and in furnishing the weans of amusement, he concluded a treaty of commeree, highly beneficial to England.
Henry's viems dit not terminate hicre; from the interest of the nation, he turned them to his own. Edmund de la Pole, carl of Suffolk, nephew to Edward 1V, and brother to the earl of Lineoln, slain at the battle of Stoke, had retired to Flanders in disgost. The king did not neglect the present opportunity of complaining to the archduke of the roception which Suffolk had met wittin in his dominions. "I really thought," replied Philip, "that your greatness and felicity had set you far above apprehensions from a person of so little consequence: but to give you satisfaction, I shall banish him my state." "I expect that you will carry your complaisance further," said Henry; "I desire to bave Suffolk put into my hands, where alone I can depenid on his submission and obedience." "That measure," observed Philip, "will reflect dishonour upon you, as well as myself. You will be thought to have used me as a prisoner." "Then," replied Henry, " the matter is settled; I will take upon me that dishonour, and so your honour is safe." Philip found himself under the necessity of complying; but he first exacted a promise from Henry that he would spare Suffolk's life.

Henry survived these transactions about two years, but nothing memorable occurs in the remaining part of his reign. His declining health made him turn his thoughts towards
that future state of existence, which the severities of his government had rendered a very dismal prospect to him. In order to allay the terrors under which he laboured, he, endeavoured to procure a reconciliation with lieaven, by distributing alms, and founding religious hoases. Remorse even seized him at times, for the abuse of his authority by Einpson and Dudley, though not to such a degree as to make him stop the rapacious hand of those oppressors, until death, by its nearer approaches, appalled him with new terrors ; and thea he ordered, by a general clause in his will, that restitution should be made to all those whom he had injured. He died of a consumption, as his favourite palace of Richmond, in the 5 ed year of his age, and the esd of his reign ; which was, on the whole, fortunate for his people at home, and honourable abroad.

No prince ever ascended the throne of England with moro advantages than Henry VIII. His title to the crown was undisputed ; his treasury was full ; lis subjects were in tranquility; and the vigoar and comeliness of his person, his freedom of manners, his love of show, and his dexterity in every manly exercise, rendered his accession bighly popular, while his proficiency in literature, and his reputation for talents, made his character respectable. Livery thing seemed to prognosticate a happy and prosperous reign.

The first act of Henry's administration confirmed the public hopes ; it was the prosecution of Empson and Dudley, the two unfeeling ministers whom his father had employed in his extortions. They insisted, and perbaps justiy, that they had acted solely by royal authority; but the jury was so far moved by popular prejudices, as to give a verdict against them ; and Henry, at the earnest desire of the people, granted a warrant for their exceution.

Having punished the instruments of past oppression, the king's next concern was to fulfil his former engagements. He had been affianced, during his father's life-time, to the Infanta Catharine, his brother's widow, and notwithstanding some seruples on that step, he now agreed that their nuptials should be celebrated. We shall afterwards have occasion to observe the extraordinary effects of this marriage, and of the king's remorse, either real or pretenided.

- Some princes have been their own ministens, but almost every one has either had a minister or a favourite. Wolsey was both to Henry ; being admitted to the youthful monarch's pleasures, he took the lead in every jovial conversation, and promoted, notwith standing his religious habit, all that frolic and gaiety, which he found to be agreeable to the age and inclinations of the king.

During the intervals of amusement, he introduced business and stateraffairs, and in sinuated those maxims of conduct, which he was desirous his master should pursuc. Hy these means lre insensibly acquired that absolute ascendancy over Henry, which distinguished his administrition; and the people saw, with concern, every day, new instances of his uncontrouled authority.

The doke of Buckingham, lord high constable of England, the first nobleman in the Kingdom, both in family and fortune, baving wantonly given disgust to Wolsey, soon - found reason to repent his imprudence. He was desceaded, by a fenfate, from the duke of Gloucester, youngest son of Edward III.; and being infatuated with judicial astroVol. I.
logy, he consulted with a Carthusian friar, named Hopkins, who flattered him with hopes of ascending one day the English throne. He bad even been so unguarded as to utter some expressions against the king's life. The cardinal made these the grounds of an impeaclument ; and although Buckingham's threats seem to have proceeded more from indiscertion than deliberate malice, he was brought to trial, condeuned, and executed. The office of high constable, which this nobleman inherited from the Bohuns, earls of Hereford, being forfeited by his attainder, was never afterwards revived in Emeland.

The nest memorable event in the domestic history of this reign, is the divoree of queen Catherine. The king's scruples in regard to the lanfuluess of his marriage, increased with the decay of the queen's beauty. She had borne him several cilildren, but they were all dead except the princess Mary; and Ifenry was passionately fond of male issue. He consulted his confesson, the bithop of Lincoln, on the legality of marrying a brother's widow, and found that prelate possessed with some doubts and difficulties. He next proceeded to examine the question by his own learning and study, being himself a great divine and cassist; and having had recourse to the works of his oracle, Thomas Aquinas, be discovered that celebrated doctor had expressly declared against the lawfiluess of such marriages. The archbishop of Canterbury was now applied to, and desired to consult his brethren. All the prelates in England, except Fisher, bishop of Rochester, unanimously declared, under their hand and seal, that they decued the king's marriage unlawful. Wolsey also fortitied his master's scruples; and the charms of Anne. Boleyn, maid of honour to the queen, earried home every argument to the heart of Henry, more forcibly than cven the suggestions of that powerful favourite.

This young lady was daughter of sir Thomas Bolcyn, who had been employed by Henry in several embassies, and was allied to all the chief nobility in the kingdom. She had been carried over to Paris in early youth, by the king's sister, when espoused to Lewis XII. of France ; and the graces of her mind, no less than the beauty of her person, had distinguished her even in that polished court. The time at which she retumed to England is not certainly known ; but it appears to have been after the king had ene tertained doubts conceraing the lavfulness of his marriage. She immediately caught the roving and amourous eye of Henry ; and as her virtue and modesty left him no tiope of lieentious indulgences, he resolved to raise her to the throne, which her accomplishments, both natural and acquired, seemed equally fitted to adoru.

Dut many burs were yet in the way of Henry's wishes. It was not only necessary to obtain a divorce from the pope, but a revocation of the bull which had been granted for a marringe with Catherine, before he could marry Anne : and he had to combat all the interest of the emperor, whose aunt he was going to degrade. The king of England, however, did not despair of success. He was in high favour with the court of Rome, and he deserved to be so. He had not only opposed the progress of the Lutheran tenets, by all the influcace which his extensive and almost absolute authority conferred upon hinf, but he had even written a book against them ; a performance in itsrlf not contemptible, and which gave so much pleasure to Leo X. that he conferred upon

## BRITISH EMPIRE.

Henry the title of Defender of the Faith. Sensible therefore of his importance, as the chief pillar of the church, at a time when it stood in much seed of support, he confidently applied to Clement VII. the reigning pontiff, for a dissolution of his marriage with Casherine. The pope seemed at first favourable to Heary's inclination ; but bis dread of displeasing the emperor, whose prisoner he had lately been, prevented him from coming to any fixed determinations. At last, however, he empowered Campeggio and Wolsey, his two legates in England, to try the validity of the king's marriage. They accordingly opened their court at London, and proceeded to the examination of the matter.
The first point which came before them, and that which Henry wanted chiofly to establish, was Arthur's consummation of his marriage with Catherine; and although the queen protested, that her virgin honour was yet untainted, when the king received her into his bed, and even appenled to his Grace, the title then taken by our kings, for the truth of her assertion, stronger proofs than were produced could not be expected of such a fact, after solong an interval. But when the business seemed drawing near to a close, and while Henry was in anxious expectation of a sentence in his favour, all his hopes were suddenly blasted. Campeggio, on the most frivolous pretences, prorogued the court; and Clenient, at the intercession of the emperor, revoked the cause soon after to Rome.

This finesse occasioned the fall of Wolsey. Anne Boleyn imputed to him the failure of her expectations ; and Henry, who entertained the highest opiaion of the cardinal's capacity, ascribed his miscarriage in the present undertaking, not to misfortume or mistake, but to the malignity or infidelity of that minister. The great seal was taken from lim, and given to sir Thomas More, a man of learning, virtue, and capacity. He was indicted in the Star Chamber; his lands and goods were declared forfeited; his houses and furniture were scized, he was pronounced without the protection of the laws, and his person liable to be committed to custody. The king's heart, however, relented, and the prosecution was carried no further; but the cardinal was ordered to remove from court, and his final ruin was hanging over him.

* The parliament laid hold of the preseat opportunity to pass several bills, restraining the impositions of the clergy; and Henry was not displeased, that the pope and his whole militia should be made sensible of their dependance upon him, and of the willingness of his subjects, if he was so disposed, to reduce the power and privileges of ecclesiastics.

Amid the anxieties with which he was agitated, he was often tempted to break off all counection with Rome : and Ame Boleyn usod every insinuation, in order to make him proceed to extremities with Clement; both as the readiest and surest means of her exaltation to the royal dignity, and of spreading the new doctrines, in which she had been initiated under the duchess of Alençon, a warm friend to the Reformation. But Henry, notwithstanding these inducements, had still many reasons to desire a good agreement with the sovereign pontiff: Having been educated in a super--stitions veneration for the holy zee, he dreaded the reproach of heresy; and he abhor-
red all alliance with the Lutherans, the chief opponents of the papal power, because Luther, their apostle, had handled him roughly, in an answer to his book in defence of the Romish communion.

While Henry was fluctuating between these contrary opinions, two of his courtiens fell accidentally, one evening, into company with Dr. Thomas Cranmer, fellow of Jesus college, in Cambridge, a man distinguished by his learning, fite still more by his candour; and as the affair of the divoree became the subject of conversation, he observed, that 'the best way, either to quiet the king's conscience, or to obtain the pope's consent, would be to consult all the universities in, Europe with regard to that controverted point. When Henry was informed of this proposal, he was delighted with it, and swore with great violence, "By God! Cranmer has got the right sow by the ear." The doctor was immediately sent for, and taken into favour ; the universities were consulted, according to his advice ; and all of them declared the king's marriage invalid.

Ciement, however, lying still under the influence of the emperor, continued inflexible; and as Henry was sensible, that the extremities to which he was pushed, both against the pope and the ecclesiastical order, must be disagrecable to Wolsey, whose opposition he dreaded, he renewed the prosecution against his antient favourite.

The cardinal, after his disgrace, had remained for some time at Richmond; but being ordered to remove to his see of York, he took up his residence at Cawood, in Yorkshire, where he rendered himself extremely popular in the neighbourhood, by his affability and hospitality. In this retreat he lived, when the earl of Northumberland received orders to arrest him for high treason, and conduct him to London, as a prelude to his trial. On his journey, he was seized with a disorder, which turned iuto a dysentery; and it was with much difficulty that he was able to reach Leicester abbey, "I am come to lay my bones among you," said Wolsey to the abbot and monks, who came to receive him: and he immediately took to his bed, whence he never rose more. "O! had I but served my God," cried he, a little before he expired, " as diligently as I have served my king, he would not have descrted me in my grey hairs." His treason, indeed, seems rather to have been against the people than the prince, or even the state; for although the violence and olstinacy of Henry's character ought perhaps to apologize for many of the cardinals public measures, his continued extortions upon the subject, by the most iniquitous methods, in what he called his Legantine court, admit of no alleviation.

Thus freed from a person whom he considered as an obstacle in the way of his inclinations, and supported by the opinion of the learned in the step which he intended to take, Heary ordered a parliament, together with a convocation to meet; in which he was acknowledged, "the protector and supreme Head of the church and clergy of England;" and being now fully determined in his own mind, relative to a matter which bad long engaged his thoughts, and resolved to administer cecleslastical affairs without farther recoarse to Rome, as well as to abide all consequences, he privately celebrated his marriage with Anne Boleyn, whom he had previously created marchioness of Pembroke. Cranmer, now become archbishop of Canterbury, annulted soon after the king?.
marriage with Cutherine, a step which ought to have preceded his second nuptials, and ratified that with Anne, who was publicly crowned queen, with all the pomp and dignity suit d to such a ceremony. And, to complete the satiffaction of Henry, on the conclusion of this troublesome business, the queen was safely delivered of a daughter, who received' the tume of Elizabieth, and whom we sliall afterwards see swaying the Englisli sceptre, with equalelory to herself and happiness to the people.
When intelligelie was couveyed to Rome of these transactions, the conclave was all in a rage, and the pope was urged by the cardinals of the imperial faction, to dart his spiritual thunders against Henry. But Clement was still unwilling to proceed to extremities: he only declared Cranner's sentence mull, and threatened the king with excommunication, if he did not pat things in. their former conditions, before a day named.

In the mean time, Henry was prevailed upon, by the mediation of the king of France, to submit his cause to the Roman consistory, provided the cardinals of the imperial faction wero excluded from it. The pope consented ; and promised, that if the king would sigo a written agréement to this purpose, his demands should we fully complied with. But on what slight incidents often depend the greatest events! The courier gppointed to cariy the Ling's written promise, was defained beyond the day fixed; news arrived at Rome, tyent a libet had been published in London against the Holy See, and a farce acted before the king in derision of the apostolic body. The pope and cardinals entered into the consistory inflamed with rage; the marriage between Heary and Catherine was pronounced valid; the king was declared excommunicated, if he refused to adhere to it, and the rupture with England was rendered final.
The English parliament, assembled soon after this decision, of the court of Rome, conferred on the king the title of "Theonly supreme head of the church of England upon earth," is they had already invested him with all the real power belonging to it, a ineasure of the utmost consequence to the kingdom, whether considered in a civil or ecclesiastical view, and-which forms a metworable cra in our constitution. The legislature, by thus aeknowledging the king's supremacy in ecclesiastical matters, and uniting the spiritual with the civil power, introduced greater simplicity into government, and prevented all future disputes about the limits of contending jurisdictions. A doof was also opened for checking the exorbitancies of superstition, and breaking those shackles, by which human reason, policy, and industry, had so long been circumscribed; for, as a profound bistorian thas justly observed, the prince being head of the religious, as well as of the temporal jurisdiction of the Kingdom, though he might sometimes be tempted to employ the former as an engine of government, could have no interest, like the Rtoman pontiff, in encouraging its usurpations.

But England, though thus happily released from the oppressive jurisdiction of the pope, was far from enjoying religious freedom. Liberty of conscience was, if possible, more confined than ever. Henry not only retained his aversion against luther and his doctrine, but so many of his early prejudices lung aboat lini, that the idea of heresy still filled him with horror. Separate is hie stood from the catholic chureh, be con--tinued to value himself on maintaining its dogmas, and on guarding with fire and swurd
the imaginary parity of his speculative opinions. Alt who denied the king's supreinecy, the legitimacy of his daughter Elizabeth, or who embraced the tenets of the reformers, were equally the objects of his vengeance.
Auroug the latter were many unhappy persons, who had greedily imbibed the Latheran doctrines, during Henry's quarrel with Rome, in hopes of a total change of worship: and who, having gione too far to recede, fell martyrs to their now faith. Among the former were Fisher, bishop of Rochester, and sir Thomas More, IP. fchancellor, who acfused to acknowledfe the king's supremacy, and died upon the scaffold with heroie constancy. More, who was n man of a gay humour, retained his facetiousness eveb to the last. When he laid his head on the block, and saw the executioner ready with liss weapon, "Stay, friend," said he, " till I put asite my beard; for ${ }^{6}$ added he, " it uiever committed treason."

Although Heary thas punished both protestants and catholics, his most daugerous enemies, he was sensible, were the zealous adherents to the untient religion, nud more especially the monks, who; haring their immediate dependunce on the Koman pontiff, apprehended their own ruin to be the cortain consequence of abolishing his anthority in England. The king therefore determined to suppress the monasteries, as so many murseries of relicllion, as well as of idleness, superstition, and folly, and to put firmelf in possession of their ample revenues. In order to effect tiis purpose withsome colour of jastice, he appointed commissioners to visit all religious honres, and these mea brought reports of such frightful disorders, levitness, ignorance, priesteraff, and unnatural lusts, as filted the nation with horror against instituktons lheld sacred by their ancostors, and jately objects of the most profound venoration. The lesser monnsteries, said to have been the most corrupted, to tho number of 376 , were at onec suppressed by parlinment; and their revenues, goods, chattels, and plate, were granted to the king.

The convocation, which sat at the same time with parliament, passed a vote for a neir translation of the bible, none being yet published by authority in the English language ; and the Reformation seemed fast gaining ground in the kingdom, though the king still declared himself its eneny, when its promoters, Cranmer, Latimer, and others, Inet with a severe mortification, which seemed to blast all their hopes, in the untimely fate of their patroness, Anne Boleyn.

This lady now began to experience the decay of the king's affections, and the eapriciousness of his temper. Henry's passions, which had subsisted in full force, during the six years that the prosecution of the divgrec lasted, and seemed only to increase under difficulties, had scarcely obtained possession of its object, when it sunk iuto-lungour, succeeded by disgust. His love was suddenly transferred to a new mistress. The charms of Jane Seymour, maid of honour to the queen, a young lady of exquisite beanty, had entirely captivated him ; and he thought of nothing but boiv to raise her to his bed and throne. This peculiarity in Henry's disposition, procending perhaps from un aversion against the vice of gallantry, involved him in crimes of a blacker dye, than those which he sought to avoid by forming a legal connexion. Before he could marry Jane, it was necessary to get rid of his once beloved Anne, now become a ber in

## BRITISH EMPIRE.

the way of his felicity. That obstacle, hotrever, was-soon removed. The heart is not mone ingenious in suggesting apologies for its deviations, than courtiers in finding ex-- pedients for gratifying the inclinations of their princes. The queen's enemies, among Henry's courtiers, immedianely sensible of the nlienation of the king's affections, acconsplibied ther ruin by flatterfig his new putsion. They represented that freedorif of whinners, which Ange, had aequired in France, as a dissolate levity : they indirectly accused her of a crimal correspondence with sevetal gentlemen of the bed chamber, and even with her own brother ! and thicy extolled the virtues of Jatio Sevmour. Henry believed all, becanse he wishied to be convinced. The queen was cominitted to the tower, impeached, trought to tral, conilemined without evidence, and executed without remorse. History affords os no reason to call her innocence in question ; and the king, by marrying her known rival, the day after her execution, made the motives of his conduct sufficiently evident, and left the world in little doubt about the iniquity of her sentence.

If firther arguments should be thought necessary in support of the imbocenco of the unfortunate Ame Doleyn, her serenity, and even checrfulness, while under confinement and sentence of death, oughit to have its weight, us it is perhaps unexampled in a iroman, and could not well be the associate of guilt. "Never priuce," says she, in a Tetter to Heary, "had wife more loyal in all duty, and in all true uffection, than you have ever found in Anne Boleyn : with whith hame and place I could willingly have contented myself, if Giod, and your grace's pleasure, had been so pleased; neither did I at any time so far forget myself in my exaltation, or received queenship, but that I elways looked for such an afteration as I now find ; for the ground of my preferment being on no surer foundation than your grace's fancy, the least alteration I knew was fit and sufficient to draw-that fancy to some other object." In another letter to the king, the says, "You have raised me from' a private gentlewoman to a marchioness ; from a tmarchioness to a queen ; and since you can exalt me no higher in this world, you are resolved to send me to heaven, that I may become a saint !"

This gaiety continued to the last. The mbruing of her catastrophe, conversing with the lieutenant of the tower, on what she was going to suffer, he endeavourgd to comfort her by the shortness of its duration. "The executioner indeed," replied stee, "I am told is very expert; and I have but a slender neek," grasping it with her band and smiling. The queen's brother and three gentlemen of the bed chamber, also fell victions to the kitig's suspiclons; or rather, were sacrifiecd, to hallow his nuptials with Jane Seymour.

The Cutholies who had been the chief instruments of these tragical erents, did not reap so with advantage from the fall of queen Anne as they expected. - The friends of the Reformation still maintanined their credit with the king; and articles of faith were drawn up by the convocation, under 'Henry's eye, more favourable to the new than the old religion, but still more conformable to the ideas of the loyal theologists, than agreeabte to the partizans of either. Prudence, however, taught the protestants to be silent, and to rest satisfied with the ground which they had guined. The disappointed catholics were less quiet. The late innovations, particularly the dissolution of the smaller,
monastenes, and the imminent danger to which all the rest were exposed, bad bred discontents anong the people.

The Romish religion, suited to vulgar capacity, took hold of the multitude by powerful motives : they were interested for the souls of their forefithers, which they believed mĥst now be, during many ages, in the torments of purgator; for want of masses to relieve them. The expelled monks, wandering about the country, encouraged these prejudices, to rouse the populace to rebellion, And they assembled in large hodies in different parts of the kingdom; particularly in Lincolnshire and the northern counties. But by the pradent conduct of the duke of Norfolk, who commanded the king's forces, and who secretly favoured-the cause of the rebels, but not their rebelhous measures, tranquillity was bappily restored to the kingdom, with little effusion of blood.

The suppressiou of these insurrections was followed by an event which completed Henry's domestio felicity : the birth of a son, who was baptised under the name of Edward. Bat this happiness was not without allay: the queen died two days after. A son, however, had been so long and so ardently desired by Henry, and was now become so necessary, in order to prevent disputes with regard to the succession, the two princesses being declared illegitimate, that the king's sorrow was drowned in his joy. And his authority being thus confirmed at home, and his consideration inereased abroad, he carried into execution a measure on which he had been long resolved, the utter destruction of the monasteries.

The better to reconcile the minds of the peopie to this great innovation, the impostures of the monks were zealously brought to light. Among the sacred repositories of convents, were found the parings of St. Edimund's toes ; some coals that rossted St. Lawrence; the girdle of the blessed Virgin, shewn in 11 different places ; two or three heads of St. Ursula; and part of St. Thomas of Canterbury's shirt, much reverenced by big-bellied womes. Some impostures of a more artificial nature also wert discovered ; particularly a miraculous crucifix, which had been kept at Boxley in Kent, and bore the appellation of the Road of Grace, the eyes, lips, and head of which moved on the approach of its votaries. The crucifix was publicly broke at St. Paul's cross; and the springs and wheels. by which it had been secretly moved, were shewn to the whole people. The slirine of SL. Thomas of Becket, commonly called St. Thomas of Canterbury, was likewise destroyed, though much to the regret of the populace. So sulperstitions was the vencration for this saint, that it appeared in one year, not a penvy had been offered at God's altar ; at the Virgin's, only, four pounds one shilling and eightpence; but at that of St. Thomus, nine hundred and fifty four pounds six shillings and three-pence.

The exposure of such enormous absurdities and impieties took off much of the odium from a measure in itself rapacious and violent. The acquiescence of the nobility and gentry was farther procured by grants of the revenues of convents, or leases of them at a reduced rent ; and the minds of the people were quieted, by being told, that the king would have no farther occasion to levy taxes, but would be able, during war as well as peace, to bear from the abbey lands the whole expence of government. Henry also.
settied ponsions on the ejected-monks, and erected six new bishoprics ; which sileneed the murmurs of such of the secular clergy as were not altogether wedded to the Romish oommunion.
Aiter renouncing the pope's supremacy, and suppressing monasteries, the spirit of opposition, it was thought, would, lead the king to declare war against the whole doctrine and worship, as weil as discipline, of the church of Rome. But although Henry, since he cance to years of maturity, had beed gradually changing the tenets of that theological system in which he had been educated, he was no less dogmatical in the few which jet remained to him, than if the whole fabric had been preserved eatire, and so great was his scholastical arrogance, though he stood alone in bis belief, that he thought bimself entited to regulate by his own particulan standard the religious faith of the nation. The chanceltor was diccordingly ordered to open the parliarment mith informing them, that it was his migesty's cearnest desire to extirgate from bis kingdom all diversity of opinion in matters of relgion. In consequence of this desire; abill; coustiting of six articles, called by the protestants the Bloody Bitl was drawn up according to the King's. ideas; and having passed through both houses, reccived the royal assent. In thia mature was established the doctiane of the:real presence, or stransubstantiation; the comp munion in one kind, or with bread only ; the perpetual obligations of vows of chastity ? the utility of private masses; the celibacy of the clesgy, and the necessity of auricular confession. The violation of cither of these articles was made punishable with death; and n devial of the real presence, to the disgrace, of comman sense, could not be atoned for ly the most humble recantation-in an instance of severity unknown evea to the liguisition,
QThe aftigirs, of religion being thns, settled, the king began to think of a new uife; and the duke of Cleyes had great iatercst with the princes of the Smalcaldig temgue, whose ailiance was considerced as advantagoous to Rngland, Henry solicited in mackinge Amey daughter uf that duke of flatterige pleture of this princers: drawa ty Hans, Hoibeip, co-operated with these politigal motives to detormine tho king in his choice ; aed Anne was sent over to England But Heary no sopner saw her, than lig swore she ivas of great Flanders mares, and declayed he never could. bear her any nficis tion. He resolved, howover, to consumanate liis marringe, notwithstanding lis disilikes seasible that ascontrory conduct would be highly rescated by loer friends und fanilyor He therofose toht Croanelle his minigter since the death of Wolsey, and who had bera instrumental in fonving the match, that, "as matters land gones so far, he must put bis neck into the goiks." But aithougla political considerations had induced Honey to coms sumanate at leash in oppearance his marriage, with Aang of Cleycs, thay ceutd nos save bim from viestu:. Itis avertion agniust her fincreasct exery day a and Cromuclt, though trill secuingly in favous, saw his own ruin, and the queen's disgrace, fast afp
 An unforeseen cause accelerated both: The king liad fixed lis affoctions on - Cathatine Hound, niece to the sluke of, Norfolk; and, as usual, he ketermined ta

enmity with Cromwell, made use of his niece's insinuations against that minister; who was a promoter of the Reformation, as he formerly had of those of Anne. Bolegn against Wolsey. Cromwell was accused of heresy and treason, committed to the tower condemned and executed. He was a man of low birth, but worthy, by his integrity and abilities, of the high station to which lie was raised; worthy of a better master and a better fate.

The measures for divorcing Henry from Anne of Cleves were carried forward at the same time with the bill of attainder against Cromwell. Henry pleaded, that when he espoused Anne, he had not inwardly given his consent; and that, notwithstanding the near approach he bad made, he had not thought fit to consummate the marriage. The convocation sustained these reasons, and soleninly aunulled the engagement between the king and queen. The parliament, ever obsequious to Henry's will, ratified the decision of the church. The marriage of the king with Catherine Howard, which followed soon after his divorce from Anne of Cleves, was regarded as a favourable incident by the catholic party; and the subsequent events corresponded with their expectations. The king's councils being now directed by the duke of Norfolk and bishop Gardener, a furious persecution was begun against the protestants. The law of the six Articles, which Cromwell had, on all occasions, taken care to soften, was executed with rigour ; and Dr. Barnes, and several other clergymen, were prosecuted, and brought to the stake.

But Henry's attention was soon turned to prosecutions of a very different kind; and on a subject which affected him still more sensibly than even the violation of his favourite theological statute. He had thought himself extremely happy in his new consort. The elegant person and agreeable manners of Catherine, had entirely captivated his heart, and he had publicly, in his chapel, returned thanks to heaven for the felicity which the conjugal state afforded him. This happiness, however, was of short duration. The queen had led a dissolute life before marriage. She had abandoned herself to the footman of her grandmother, the old duchess of Norfolk, while her maid was in the same chagiber, and even along with her in the same bed. The proofs of this licentiousness were positive. There was also room to believe, notwithstanding her declaration to the contrary, that she had not been faithful to the king's bed; for it appeared, that one Colepepper had passed the night with her alone since her marriage, and that she had taken Derham, one of her old paramours, into her service. When these proofs of Catherine's incontinence were laid before Henry, he was so deeply affected, that be remained for some moments speechless, and at last burst into tears. The natural ferocity of his temper, however, soon returned; and he assembled a parliament, the osual instrument of his tyranny, in order to satiate his vengeance. A bill of attainder was voted against the queen and the viscountess of Rochford, who had conducted her criminal amours. A singular bill was also passed at the same time, making it treason in any person to conceal the incontinence of a queen of Eugland; and farther enacting. That if a king of England should marry any woman who had been incontinent, taking her for a true maid, she likewise should be deened guilty of treason,
in case she did not previously reveal her shame to him. And the queen and lady Itochford were beheaded on Tower hill, though their guilt had preceded the framing of that statute.

The disorders of Ireland, which had been checked, but not eradicated, by Henry VII, broke out in the present reign with a violence, which was increased by the late innovations in religion. Henry was of opinion that a greater splendour of title, would flatter the Irish, and promote their more perfect submission, exchanged his stile of Iord of Ireland for that of king; and his proclamation for that purpose was this year communicated to parliament. He also gratified some of the chieftains of that island with titles ; and the vigour of his administration restored tranquillity to his Hibernian territories.

The affairs of England became from this time so closely connected with thove of Scotland as to render it necessary to take a retrospective view of the history of the latter kingdom.

James IV. after his nuptials with the English process, appears to have enjoyed a tranquillity almost unknown to his predecessors; and began to make a considerable figure among the European potentates. He applied himself to the building of ships; one of shich, the St. Michael, is supposed to have been tie largest then in the world, He worked with his own hands in the building it; and it is plain from his conduct that he was aspiring to be a maritime power, in which design he was encouraged by the number of excellent seamen which Scotland then produced. The first essay of his arms was in favour of his kinsman, John, king of Denmark, whom he powerfully supported in lis coutest with the Swedes. He then turned bis attention to the Flemings and Hotlanders, who had insulted his flag, and committed many acts of piracy on his subjects.

He gave the command of a squadron to Rarton, who trented all the Dutch and Flemish traders that fell into his hands as pirates, sent home their heads in hogsheads, and at length retarned to Scotland with a large number of prizes. So much was James then respected on the continent, that we know of no resentment shewn by the court of Spain (to whom the Netherlands then belonged) on this occasion. This naval prosperity of Scotland brought a long succession of heavy calamities upon that country.

James having granted a letter of marques against the Portuguese to sir Andrew Barton, he is said to have plundered many English ships, on pretence of their being Portuguese property, and to have made the navigation of the narrow seas dangerous to Englishmen, In consequence of this infraction of the law of nations, Henry VIII. granted letters of marque to the two sons of the earl of Surry. These gallant commanders fell in with Barton, defeated and slew him in a violent engagement, and brought his crew prisoners to London.

To revenge the loss of this gallant commander, James'invaded England with an tirny of 50,000 men. He was defeated at the battle of Floddenfield by the earl of Surry, and lost upon this occasion his own life, as well as those of great numbers of his subjects.

From the year 1513 , when this event took place, to the year 1596 , when James Y . nssumed the administration, Scotland experienced all those inconveniences which usually attend on a long minority, This young prince, when he became possessed of the supreme authority, displayed if laudable desire to suppress that spirit of rapine and violence which pervaded every part of his dominions; his severity was, however, in too many instanees, mixed with eruelty, and therefore gained him the dislike of many of his nolálity.

- In the mean time, the doctrines of Luther met vith a very favourable réception in Scotland, where they were introdaced very soon after thicir promulgation in GemanyJames was very strongly attached to the elergy, and thercfore easily induced to encourage their persecuting zein, while the nobility, on the contrary, repioed at the immense property which had been accumulated by the church, and thercfore cagerty embraced the party of the Reformers. Tius every day widened the broach betweeti ties sovereigu and his subjects, and prepared the nation for those calamities it was speedily to suffer.

Had the king of Scotland flattered the pride of Heary, by, following his example in ceclesinstical affinirs, he would have been supported in his measurcs wilh the whole force of England; whereas he now had that force to oppose, and a dissatisfiect people to irule. Flushed, lowever, with in advantage gained over a detachment from the Euglish army toy lord Hume, he marched at the head of 30,000 men to meet their main body, commnaded by the duke of Norfolk, wha had sudvanced as far as Kelso ; and as that nobleman retreated on the appronch of the Scottish army, the king resolved to ceiter Epgland, and take vengeancel on the invader. But his notility, ulisbatisfied on account of the preference shiern to the clergy, opposed, his resolution, and refused to attend him. Equally enraged and surprised at this mutiny, he reproached timm with cowardice, he threatened punishment; and, still determined to make some impression on the enemy's country with the forces that adbered to him, ho dispatched 10,000 men to ravage the western border. They entered England near Solway Frith, while ho hiuself followed, at a small distance, ready to join thepr upon occasion. But this expedition also proved unsuccessful, and eveir higbly uufortunate: and from a cause allied to that which had ruined the former enterprise. The king of Scotland, become pecvish by disappointment, and diffdent of all his nability, deprived lord Maxwell of the command of the army, and conforred it on Oliver Sinclair, a private gentloman! The Scots, displeased with this aitevation, were preparing to disioand; when a small body of English forces appearing they suddenly took to Alight, and were all either killed or made prisohers. This disasten bad suche an cficet on the haughty aind of James, that he would admit of no counsel or consolation, but abandoned bimself wholly to despair: All the passions that are inimical ta human life, shame, rage, and despoudency, took hold of him at once. His body wasted daily by sympathizing with his anxious /mind; and he was hrought to the werge of the grave, when lis queen was safely delivered of the celebrated and unfortumate Mary Stuat. Having no for mer issue liviug he anxjously inquired whether his coneort bad brought him asson or a daughter, and being told, a daughter, he turned trimself in his bed, and said, "Thie

## BRITISH EMPIRR.

crown came with a woman, and it will go with a worman! Miny woes anrait this unhappy kingdom: Henry will make it his own cither by force of arms or by marriage." He expired soon after uttering theso sorrowful words. What James liad foretold came in part to pass: Henry was no sooner informed of the victory at Solvay, and the death of his nephere, than be formed the project of uniting Scotland to lis own dominions, by marrying prince Edward, his only son, to the heiress of that kingdom. For this purpose he called, together such of the Scottish nobility as were his prisoners, and offered them theic liberty, without ransom, provided they would second his views. They readily agreed to a proposid so favourable to theroselves, and which seemed so natural, and so advantageous to both kingdoms ; and by their means, notwithstandiag the opposition of cardinal Beaton, archbishop of St. Andrews, who had placed himself at the head of the regency, by forging a will in the name of the lite king, the parliament of Scotland consented to a treaty of marriage and union with Eugland.

Henry now finding himself at peace with all his neighbours, began to look out for another wife; and by espousing Catherine Par, relict of lord Latimer, he confirmed what had been foretold in jest, that he would be obliged to marry a widow, as no reputed maid would ever be persuaded to incur the penalty of his statute respecting virginity. Cathe-- rine was a woman of virtte and good sense: and though somewhat inclined to promote the Reformation, a circumstance which gave great joy to the protestant party, she delivered her sentiments with much caution in regard to the new doctrines. Hemry, however, whose favourite topic of conversation was theology, by engaging ber frequently in religious disputes, found means to diseover her real principles ; and bis unwieldy corpulence and ill health having soured his temper, and increased the severity of his uaturally passionate and tyrannical disposition, he ordered an impenchment to be drawn up against her; and the greatest prudence and address only could have saved her from the block. Having happily got information of the King's displeasure, Catherine replied, when he next offered to converse with her on theological subjects, that such profound speculations were little suited to the natural imbecility of her sex; observing at the same time, that though she declined not discourse on any subject, however sabline, when proposed by his majesty, she well knew that her conceptions could serve no other purpose than to afford him a momentary amusement ; that she found conversation apt to langwish, when not revived by some opposition, and had ventured, at times, to feign a contrariety of sentiment, in order to afford bim the pleasure of refuting ber. And she ingeniously added, that slic atso proposed by this inuocent artifice to engage the King in arguments; whence she had observed, by frequent experience, that she reaped much profit and instruction. "And is it so, sweetheart?" said Henry, "then we are friends again !", embracing her tenderly, and assoring her of his affection. The chapcellor, liowever, ignorant of this reconciliation, came hext day to arrest Catherine, pursuant to the king's warrant, but was dismissed by Henry with the opprobrious appellations of knave, fool, and beast. So violent and capricious was the tcumper of that prince.

But altiough the queen was so fortunate as to appease Henry's resentment against herself, she could not save those whom she most respected. Catherive and C'ranmer Vol. II.
excepted, the king punished with unfeeling rigour all others, who presumed to differ from him in religious opimions ; but more especially in the capital tenet, transubstantiation. Among the unhappy victims committed to the flames for denying that absurd doctrine, was Anne Ascue, a young woman of siagular beauty and merit, comected with the principal ladies at court, and even the queen. She died with great tranquillity and forlitude, refusing to earn by recantation a pardon, though offered ber at the stake.

Nor did Henry's tyrannical and persecuting spirit confine its vengeance to religious offenders; he was no less severe against such as excited his political jealousy. Among -these were the duke of Norfolk, and his gallant son, the earl of Surrey. The duke had readered considerable services to the crown; and although understood to be the head of the catholic party, he had always conformed to the religion of the court. He had acquired an immense fortune, in consequence of the favoirs bestowed upou him by Henry, and was conlessedly the first subject in England. That eminience drew upon him the king 3 jealousy. As Henry found his death approaching, he was afraid that Norfolk might disturb the government during his son's minority, or alter his religioussystem. The cart of Surrey was a young nobleman of the mast promising hopes, distiaguished by every accomplistment which could adorn a scholar, a courtier, or a soldier of that age. But he did not olways regulate his conduct by that caution and rescrve which his situation required: and as he had declined all proposals of marriage among the nobility, Henry imagined that he entertained hopes of espousing his eldest daughter, the princess Mary. The suspicion of such a dangerous ambition was enough. Both he and his father, the duke of Norfolk, were committed to the tower, tried for high treason, and condemned to suffer death, withont any evidence of guilt being prodnced against either of them; unless that the earl had quartered the arms of Edward the Confessor on his scutcheon, which was considered as a proof of his aspiring to the erown, altbough the practice and privilege of 50 golog had been openly avowed by himself, and maintained by his ancestors. Surrey was immediately exccuted, and an ordes was issued for the execution of. Norfolk; but the king's death happening in the interval, nothing further was done in the matter.

Henry's health had long been declining, and his approaching dissolution had been foreseen by all around him for some days; but as it had been declared treason to foretel the king's death, no öne durst inform him of his condition. lest he should, in the first transports of his fury, order the author of such intelligence to immediate pumishment. Sir Anthony Denny, howserer, at last ventured to muke known to liin thie awful truth. He signified lis resignation, and desired that Cranmer might be sent for. The primate came, though not before the king was speechless; but as he still seemed to retain his senses, Cranmer desired him to give some sign of his dying in the faith of Clurist. He squeezed the primate's haud, and immediately expired, in the 56 th year of his age, and 38th of his reiga; affording, in his end, a striking example, that composure in the homr of death is not the inseparable characteristic of a well spent life, nor vengeance in this world the universal fite of blood-thirsty tyrants. Happily, we know that there is a state beyond the grave, where all accounts will be settled, and a tribunal before which every one must answer for the deeds done in the flesh;

## BRITISH EMPIRE:

otherwise we should be apt to conclude, from seeing the same things happen-to the just and to the unjust, to the cruel and to the merciful, that there was no eye in heaven that regarded the actions of man, nor any arm to punish.

But 'the history of this reign yields also other lessons, which come home to the breast of every Englishman, and which he ought to remember every moment of his existence. It teaches us the most alarming of all political truths; " That absolute despotism may prevail in a state, and yet the form of a free constitution remain." Nay, it even leads us to a conjecture still more interesting to Britons, "That in this country an ambitions prince may most successfully exeroise lis tyrannies, under the shelter of thpse barriers, which the constitution thas placed as the security of national freodom, of our lives, our liberty, and our property." Henry changed the national religion, and, in a great measure, the spirit of the taus of England. He perpetrated the most enormous violeaces ugainst the first mea in the kingdom; he loaded the people with oppressive taxes, and he pillaged them by loans, which it was known he never" meant to repay; but he never attempted to abolish the parliament, or even to retrench any of its doubtful privileges. The parliament was the prime minister of his tyramical administration. It. authorised his oppressive taxes, and absolved him from the payment of his debts : it gave its sunction to his most despotic and sanguinary measures; to measures, which, of hiuself, he durst not have carried into execution; or which, if supposed to be merely the result of his own arbitrary will, would have roused the spirit of the nation to assert the rights of bumanity, and the privileges of a free people: and law would have been given to the tyrant's power, or some arm would have been found bold enough to rid the world of such a scourge, by carrying vengeance to his heart.

## CHAPTER X .

## Giesat Beimars - During the raigne of Edtuard V7. and Mary.

HENRX VIII. by his will, made near a month before his death, left tie crown, first tQ prince Edward, his son by Jane Scymour ; then to the princess Mary, his daughter by Catherine of Arragon; and lastly to the princess Elizabeth, lis daughter by Ame Boleyn, though both princesses had been declared illegitimate by parliament. These particulars are necessary to be meationed bere, in order to the better understanding of the disputes which afferward arose in regard to the successioo.

Edward VI. being only nine years of age at the time of his fatber's death, the gorernment of the kingdom was committed to 16 executors; among whom was Cranmer, archbishop of Canterbury, the chancellor, chamberhin, and all the great officers of state. They chose one of their number, namely the carl of Herford, the king's maternat uncle, instantly-created duke of Somerset, to represent the rojal majesty, uader the title of protector ; to whom dispatches from English ministers abroad should be directed, and whose nawe should be employed in all ordens and proclamations. Him they invested with all the exterior symbols of regal dignity; and he procured a patent from the young king, which invested bim also with regal power,

This patent, in which the executors are not so much as mentioned, being surreptitiously obtained from a minor, the protectorship of Somerset was a palpable usurpation; but as the executors acquiesced in the new establishment, and the king discovered an extreme attachment to his uncle, who was a man of moderation and probity, few objections were made to his power or titie. Other causes conspired to confirm both.

Somerset had long been regarded as a secret partizan of the Reformers, become by far the most numerous and respectable body of men in the kingdom; and, being now freed from restruint, he scrupled not to discover his intention of correcting all abuses in the antient religion, and of adopting still more of the protestant innovations. He also took care that the king should be educated in the same principles. To these Edward soon discovered a zealous attachment; and all men foreseeing in the course of his reign, the total abolition of the eatholic faith in England, they began early and very generally to declare themselves in fivour of those tenets, which were likely to become in the end triumphant, and of that authority by which they were propagated.

In bis schemes for advancing the progress of the Reformation, the protector had always recourse to the counsels of Cranmer, whose moderation and prudence made him averse against all violent changes, and deternined bim to draw over the people, by insensible gradations, to that system of doctrine and discipline which he esteemed the most pure and perfect. The fabric of the secular bierarcliy was left and maintained.
eafire; the antient liturgy was preserved, as far as was thought consistent with the new principles; many ceremonies, become venerable from age and preceding use, wero retained; and the distiactive habits of the clergy, according to their different ranks, were, continued.

As soon as the English government was brought fo some degree of composure, Somerset made preparations for a war with Scotland ; determined to execute, if possible, that project of uniting the two kingdoms by marriage, on which the late king had been so intent, and which scemed once near a happy issue, but whith had boen defeated by the intrigues of cardinal Beatois. This politic and powerful prelate, though not able to prevent the parliament of Scotland from agreeing to the treaty of marriage and union with Eugland, being then iut the lands of the protestant party, afterwards regained his authority, and acquired sufficient influence, not only to oblige the earl of Arran, who had succeeded him in the regency, to renounce lis anliance with Heary VIII. but also to abjure the principles of reformation, to which be seemed zealously attached, and to reconcile himself, in 1543, to the Romish communing, in the Franciscan church at Stirling.

The fatal effects of this change in the religious and political sentiments of the regent, were long felt in Scotland. Arran's apostacy may even perhaps be considered as the remote cause of all the civil broils which afflicted both kingdoms in the subsequent century, and wrich terminated in the final expulsion of the house of Stuart, of which the infant queen of Scots was now the sole representative.

The southern and most fertile parts of the kingdom were suddenty laid waste by an English army. Various hostilities ensued, with various suceess ; but without any decisive event. At last, an end was put to that ruinous and inglorious warfare, by the peace concluded betveen Henry VIII, and Francis I. at Campe, in the year 1546; the French monarch generously stipulating, that his Scottish allies should be included in that treaty. The religious consequences were more serious and lasting and their political influence was great.

The Scottish regent consented to every thing that the zeal of the cardinal thought necessary for the preservation of the established religion. The reformers were every where cruelly persecuted, and many were condemned to that dreadful punisbment which the church had appointed for its enemies. Among those committed to the flames was a popular preacher, named George Wishart; a man of honourable birth, and of primitive sanctity, who possessed in an eminent degree the talent of seizing the attention and engaging the affections of the multitude. Wishart suffered with the patience of a martyr; but he could not forbear remiarking the barbarous triumph of his insulbing adversary, who beheld from a window of his sumptuous palace the inhuman speotacle : and he foretold, that in a few days the cardinal should, in the same palace, lie as low, as now he was exalted high, in opposition to true piety and religion.

This prophecy, like msny others, was probably the cause of the event which it foretold. The disciples of Wishart, enraged at his.cruel execution, formed a conspiracy against Beaton; and having associated with them Norman Lesly, eldest son of the earl of Vol. I.
-4. 1

Rothes, who was instigated by revenge on account of private injories, they surprited the cardinal in his palace or castle at St. Andrew's, and instantly put him to death. One of the assassins, named James Melvil, before be struck the fatal blow, turned the point of bis sword to him, "Repent thee, thou wicked cardional of all thy sins and iniquities ; but especially of the murder of George Wishart, that instrument of Christ for the conversion of these lands. It is his death which now cries for vengeance. We are sent by God to infict the deserved punishment upon thee."

The conspirators, though only 16 in number, took possession of the castle, after turning out, one by one, the cardinal's formidable retinue; and being reinforced by their friends, they prepared themselves for a vigorous defence, and sent a messenger to London, craving assistance from Henry VIII. The death of that priace, which happened soon after, blasted all their hopes. They received, however, durigg the siege, supplies both of money and provisions from England ; and if they bad beca able to hold out only a few weeks longer, they would have escaped that severe capitulation to which they were reduced, not by the regent alone, but by a body of troops sent to his assistance from France. Somerset entered Scotland at the head of 18,000 mea ; while a fleet of 60 sail, one half of which consisted of ships of war, and the other of vessels laden with provisious and military stores, appeared on the const, in order to second his operations, and supply his aray. The earl of Arran, regent of Seotland, had for some time observed the storm gatiering, and was prepared to meet it. He bad summoned together the whole force of the kingdom; and his army, double in number to that of the enemy, was posted to the greateat advantage on a rising ground, guarded by the banks of the river Eske, a little above Musselburgh, when the protector came in view. Alarmed at the sight of a force so formidable, and so happily disposed, Somerset made an overture of peace to the carl of Atran, on conditions very admissible. He offered to withdraw bis troops and compensate the damage he had done by bis inroad, provided the Scottish regency would engage to keep their young queen at home, and not contract ber to any foreign prince, until she should arrive to the age of maturity, when she might chuse a husband without the consent of her council. But this moderute demand was rejected by the Scottish regent with disdaib, and, merely on account of its moderation, it was imputed to fear; and Arran, confident of success, was afraid of nothing but the escape of the Einglish army. He therefore left his strong camp, as soon as he saw the protector begin to move toward the sea, suspeeting that he intended to embark on board his fleet; and passing the river Eake, advanced into the plain, and attacked the English army near the village of Pinkey, with no better success than his rashness deserved. Having drawn up his troops on an eminence, Somerset had now the advantage of ground on his side. The Scottish army consisted chiefly of infantry, whose principal weapon was a long spear, and whose files, for that reason, were deep, and their ranks close. A body so compact and firm easily resisted the attack of the English cavalry, broke them, and drove them off the field. Lord Grey, their commander, was dangerously wounded; lord Edward Seymour, son of the protector, had his horse killed under him, and the royal standard was near falling

## A. D: 1548.

BRITISH EMPIRE.
into the hands of the enemy. But the Seots, being gafled Ly the protector's artillery in front, and by the fire from the ships in flank, white the Erglish arctiers, and a body of foreiga fusiliers, poured in volleys of shot upon them from all quarters, they at last began to give way: the rout became general, and the whole field was soon a scene oi confusion, terror, flight; and consternation. The pursuit was long and bloody. Ten thousand of the Scots ure said to lave fallen, and but a very inconsiderable number of the conquering eneay.
This victory, however, which seemed to threaten Scotland with final subjection, wes of no real utility to Euguand. It served only to make the Scots throw themselves inconsiderately into the arms of France, and send their young queen to be educated in that kingdom ; a measure universally regarded as a prelude to her marriage with the dauphin, and which effectunlly disappointed the views of Somerset, and proved the source of Mary's accomplishments as a woman, and of her misfortunes as a queen. The Scottish nobles, in taking this step, hurried away by the violence of resentment, seem to bave forgot that zeal for the independency of their crown, which had made theas violate their engagements with Heary VIII. and oppose with so much ardour the arms of the protector.

The cabils of the English court obliged the duke of Somerset to return, before he could take any effectual measures for the subjection of Scotland; and the supplies which the Scots received from Frence, enabled them, in'a great measure, to expel their invaders, while the protector was employed in re-establishing his authority, and in quelling domestic insurrections. His brother, lord Seymour, a man of insatiable ambition, had married the queen dowager, and openly aspired at the governinent of the kingdom. In order to attain this object, he endeavoured to seduce the young king to his interest ; found means to hold a private correspondence with him, and publicly éccried the protector's administration. He had brought over to his party many of the principal nobility, together, with some of the most popular persons of inferior rank; and he had procided arms for 10,000 men, whom it was conipated he could muster from among his own domestics and retainers. Though apprised of all these alarging circumstances, Somerset shewed no inclination to proceed to extremities. He endeavoured, by the most friendly expedients, by reason, entreaty, and even by loading Seymour with new fivours, to make him desist from such dangerous politics. But finding all his endeavours ineffectual, he began to think of more scrious remedies; and the earl of Warwick, who hoped to raise his own fortune on the ruin of both, inflamed the quarrel between the brothers. Dy his advice lord Seymour was committed to the Tower, attainted of ligh treason, condemaed, and executed.

The protestor had now leisure to complete the reformation, the great work which he had so successfully began, in conjunction with Craniner, the primate, and which was now the chicf object of concern throughout the nation. A committee of bishops and divines had been appointed by the privy-councit to compose a liturgy ; they had executed the nork committed to them, as already observed, with judgment and moderation ; and they flattered themselves, that they had framed a service in which every denomination of christians might concur. The form of worship, which was nearly

## BRITISH EMPIRE.

the same with that at present authorised by lars, was establistied by pariifment in all the churches, and uniformity was ordered to be observed in all the rites and ceremonies.
I No institaton can be imagined less favourable to the interests of mankind than that of the monastic life ; yet was it followed by many effects, which, having ceased with the suppression of monasteries, were much regretted by the people of Engiand. The monks, by always residing at their convents, in the centre of their estates, spent their money in the country, and afforded a ready market for commodities. They were also acknowledged to bave been in England, what they still are in kingdoms where the Romish religion is established, the best and most indulgent landlords ; bcing limited by the rules of their order to certain modes of living, and consequently having fexer motives for extortion than other men. The abbots and priors were besides accustomed to grant leases at an under value, and to receive a present in return. But the abbey lands fell under different mavagement, when distributed among the principal nobility and gentry; the rents of farms were raised, while the tewants found not the same facility in disposing of the produce. The moncy was often spent in the capital ; and to increase the evil, pasturage in that age being found nore profitable thain tillage, whole estates were laid waste by inclosure. The farmers, regarded as an useless burden, were expelled their habitations ; and the cottagers deprived even of the commons, on which they had formerly fed their cattle, were reduced to beggary.
These grievances of the common people occasioned insurrections in several parts of England; and Somerset, who loved popularity, impradently encouraged them, by endeavouring to afford that redress, which was not in his power. Tranquillity, however, was soon restored to the kingdom, by the vigilance of lord Russel and the carl of Warwick, who cut many of the unhappy malcontents in pieces, and dispersed the rest. But the protector never recovered his authority. The nobility and gentry were in general dtspleased with the preference which be seemed to have given to the people ; and as they ascibed all the insults to which they liad been lately exposed, to bis procrastioation, and to the countenance shewn to the mulitude, they apprebended a renewal of the same disorders from bis passion for popipular fame. His enemies even attempted to turn the rage of the populace agaiost liim, by working upon the lorer close among the eatholics ; and having gained over to their party the lord mayor of London, the lieutenant of the Tower, and many of the great officers of the state, they obliged Somerset to resign the protectorship, and committed him to custody. A council of regency was formed, in which the earl of Warwick, who had conducted this revolution, bore the chief sway, and who actually governed the kingdon without the invidious titie of protector.
The first act of Warwick's administration was the negotiation of a treaty of peace with France and with Scotand. Henry II, had taken advantage of the disturbances in Eogland, to recover several places in the Boulonnois, and even to lay siege, though without effect, to Boulogue itself. He now took advantage, in treating, of the state of the English court Sessible of the importance of peace to Warwick and his party, the French monarch absoletely refused to pay two millions of crowns, which his pres
decessor had acknoti'dged to be due-to the trotn of Errigland, as zerrears of former stipulations. He would bever consent; he sand, to render himself tributary to any prince, alluding to the reversion of annual payments demanded ; but be offired a large sum for the immediate restitution of Boulogne and its territory. Four hundred thousuad crowns were agreed on as the equivalent: Scotland vas comprehended in this traty. The English stipulated to restore some fortresses, which they still held in that kiandom.

Having thus estabzished his administration, freed the kingdom from all foreign danger, and gained partizans, who were disposed to second him in every domestic enterprize, the earl of Warwiek began to think of carrying into execition those vast projects which he had formed for his own ghyrandisement. Thie list earl of Northumberland had died without issue; and as his brother, sir Thomas Percy, had been attainted on account of the share which he took in the Yorkshire insurrection doring the late reign, the title was at present extinct, and the cstate was vested in the crown Warwick procured for bimself a grant of that large estate, which lay chiefly in the North, the most warlike part of the Kingdom, and was dignified with the title of the duke of Northumberland.

This was a great step; but there was yet a strong bar in the way of his ambition. Somerset, though degraded, and lessened in the public esteem in consequarce of his spiritless conduct, continoed to possess a considerable share of popularity. Northumberland, therefore, resolved to ruin the man he had injured, and whoin he still regarded as the chief obstacle against the full attaiument of his views. For that purpose, he employed his emissaries to suggest desperate projects to this unguarded nobleman, and afterwards accused him of high-treason for seeming to acquiesce in them. Somerset was tried, condenned, and executed on Tower-hill ; and four of his friends shared the same unjost and unhappy fate. His death was sinecrely lamented by the people, to whom ho had been peculiariy indulgent, and whig regarded bim as a martyr in their canse. Many of them dipped their handkerchiefs in his blood, which they long preserved as a precions reliqua

Northumberland might seem to tave now nttained the highest point of elevation, to which a subject coald aspire, and the greatest degree of power. His rank was second ouly to the royal fainily, his estate was one of the largest in the kingdom, and the government was entirely under his direction. Bit he aspired after yet greater power and consequence: his ambition thew no bounds Having procured a parlianent, which ratificd his most despotic measures, and regulated its proceedings according to his will, he next endeavoured to ingratiate binself particularly with the young king, by manifcsting, an mecommon zeal for the reformed religion, to which the opeaing mind of Edward was warmily devoted, and the interests of which more sensibly touched bim than all other subjerts

In his frequent conversations on this subject, Northumberland took ocension to represent to that pious prince, whose bealth began visibly to deeline, the danger to which the reformation would be exposed, should his sister Mary, a begotted catholic suc-

seed to the tiroue of Eagland; thit aithoegh nop such objection lay against the princess Edizabeth, he couild nat, with any degree of propriety, rexclude one sifter, withaut nloa excluding the other; that both bad been declared illegitmaterby parliament; that tha queen of Seots stood excluded by the . late king's will, anid was besides attactred so the thurch of Rome: that these three princesses being set aside for such solid reasons, tha suceessioi devolved on the marechioniess of Dorset, eldeat daughter of the duke of Suffolls, and the French-quecn, his fatior's youngest sister; that the apparent surcessor to the marchioness was her daughter, lady Jane Gray, who was ciery way worthy of a. crown.

These arguments made a deep impression upon the mind of Edward. He had long lamented the obstinacy of lis sister Mary, in adisering to the Ronish columiunion, and seemed to foresce all the horrors of her reign. He respected, and even loved Elizabeth; but Jady Jane Gray, being of the same age, had bren educated aleng with him, and hat coummanded his esteem and admiration, by tie progress which she madevin every branch of literature He had enjoyed full opportanity of beconing ace quainted with the purity of ther religious -principles, at circunstance that weiphed with him above every other consideration in the choice of a successor. He therefore listened to the proposal of disinheriting his sisters, with a patience which would otherwise kave been higthly crimionat.
Mean while, Northumberland, finding he was likely to carry his principal-point with the king, began to propose the other parts of his scheme. Two sons of the duke of Suffullo, by a mariage subsequent to thie death of the French qneen, laving died this season of the sweatiog sickness (an efidemical malarly which raged all over the kingdoin), that title was become extinct. Northumberland persuated the king to bestow it on the marquis of Dorset ; and by means of thiss and other tavours, he obtrined from tbe new duke and ducters of Suffik, theif eldest daughter lady Jane, in marriage to his fourth son, lord Guilford Dudley.

In order to coumplete his plan of anblition, it now only remained for Northumberland to procure the desired change in the succession ; and, in the present languishav ing state of the king's bealth, after all the arguments that had been used, it 'was no difficult matter to obtain a deed to that effect from Edward. He met with more opposition from the jodges, and other persons necessary to the execution of sueh a deed. But they, at last, were all silenced, either hy threats'or promises; and the great seal ras offived to the king's letters' patent, settling the crown on the beirs of the duchess of Suffolk, blie berself being content to give place to her doughters, or, in other words, to lady Jane, for whom she was sensible the change in the succession had been projected.

The king died soon after this siogular transaction ; and so much the sooner by being put into the thands of an ignorant woman, who undertook to retore him, in a little: tiane, to his former stgte of healtbe. Most of our listorians, but especially soch as were well affected to the reformation, dwell with peculiar pleasure on the exceilent qualities of this young prince, whom (as) an elegant writer observep) the fitteang promises of: hope, joined to many real virtuces, had made an object of fond regird to the public;

## BRITISI EMPIRE. -

for makiag allowance for the delicaoy of his frame, and the manners of tho age in which - he lived, he segms to have proseased all the accouplishments that could be oxpected in a youth of sixtera.

A sare of the opposition that would be made to the concerted change in the succession, Northumberland had carefully concealed the destination of the crowa signed by Edward. He even kept that prince's death a secret fon a while, in hopes of getting the two princosses inca his power, Mith this view, he engaged the council to desiru their attendance at soun, under pretence that the kiag'o infirm state of "health required the assistance of their alvice, asd the consolation of their company. "All abedieace or anxiety, they instanily left their several retreats in the country, and set out for London, Lut happily, befure their arrival, they both got intelligence of their brother's death, and of the conspiracy formed agsinst themselves. Mary, who hed udvanced as far as Hoddesdon, whem-she received this notice, made haste to retire, and wrote letters to the nobility and mont considerable gentry in cvery county of Eugland, commanding thera to assist her in the defence of her crowa and person.

Farther disimulation, Northamberisnd naw saw, would be fruitess; be therefure frent to sion-bouse, where lady Jane Gray resided, accompanied by a body of the nobility, and approaching her ivith the fespect usually paid to the sovereign, infarmed fier of lier clevaion' to the throne. Lady Jane, who was in a great measure ignorant of the intagues of her father-in-lays received this information with cqual grief and surprise. She evea refused to accept the crown : pleaded the preferable title of the two priacesses ; expressed her dread of the consequences attending an enterprize so dangerous, nay so criminal, and bogged to reman in that private station in which she was born. Her heart, full of the passion for literiture, and the elegant arts, and of affection for her liusbaud, wio was wurthy of all her regard, had never opened itself to the flatfering allurements of ambition. Overcome, however, at last by the entreaties rather than the reasons of her relations, she submitted to their will; and Northumberhuil immediately cooveyed her to London, where she wso proclaimed queen, but alnost Hit iout one applauding voice.

The puople heard the proclamation with silence and concern : the very preachers employed their eloquence in vain to convince their anditors of the justice of lady June's fitle. Respea fur the royal line, and indiguation against the Dudteys, was sfrongery even in the breasts of the protestants, than the dread of popery.

Mean time the iuhabitants of Sufiolk, whither the pincoss Mary had fled, resorted to her in crowds; and when she assured them, that she never mieant to niter the laws of Edward VI concerning religion, they zealously culisted thicundies in liey couse. The nobility and gentry daily flocked to her nith reinforcements. Sir Belward Hast* ings, brother' to the carl of Huntinglost, carried over to hen $+0(1)$ ines, lovied for the sapport of her rival. The fleet declared for bor; oven the earl of Suflolk, who courmanded in the Jower, finding resistance fryitiess; opened the gutes, of that fortress: and lady Jane, aiter the vain pageantry of weariny a croma-daring ten, days, returned without a sigh to the privacy of domestic life,
-The council ordered Mary to be proclaimed : and Northumberlend, dencrted by hie

## BRITISH EMPIRE

followers, and despairing if specess, complied with that order with exterior marks of joy, and satisfaction. He was brought to trial, however, and condemned hand executed for figh trçason. Sentence was also pronounced against lady Jane Gray and lord Givildford Dudley ; but they, were respited on account of their youth, neither of them having athained the age of 17 .

No sooner was Mary seated on the throne than a itotal change took place both in mon and moasures. They who -had tanguished in confinement were lifted to the helin of power, and intrusted with the stovernment of the church as we!l as of the state. Gardiner, Donner, and other catholic bishops, were restored to their sees, and adruitted to the queen's fayour and confidence; while the most eminent protestant prelates and zealous reformers, Ridley, Hooper, Latimer, Coverdale, and Cranmer were thrown into prison.
Whe men of Suffilk mere brow-beaten, bectuse they presumed to plead the guecti's prouise of maintaining the reformod religion ; and one, more bold than the rest, in recalling to fier memory the engagements into which she had entered, when they eqlistel themselies in her service, was set in the pillory. A parliament was procured eatiely conformable to the sentiments of the court, and a bill passed, declaring the queen to be legitimate ; ratifying the marriage of Henry VIII. with Catherine of Arragon, and agpuling tho divorce pronounced by Cranmer. All the statutes of EdWard VI, resjecling religion were repealed; and the queen sent assurances to the pope of her carnest desiro of reconciling herself and her kingdoms to the Holy See, and requesting, that cardinal Pole might be appointed legate for the perforuance of that pious office.

Reginald Pole was descended from the royal family of England, being fourth son of the countess of Salisbury, daugiter of the tuke of Clarence. He gare early indications of that fine genius, and generous dispasition, by which tie was so much distinguished during lis more advanced age; and Itenry VIII, having conceived great friendship for him, proposed to mise him to the highest ecelesiastical dignities. As a pledge of future favours, Henry conforred on him the dearry of Exeter, the better to support him in his edacation. Bint when the khag of England broke it ith the court of lome, Pole not only refused to second his measures, bat wrote against him in a treatise on the Uuity of the Clunch. This performance produced an irreparable breach betveen the young ecclesiastic und his sovereign, and blasted all Pole's lopes of rising in the English church. He was not, however, ullowed to sink. The pope und the emperor thought themselves bound to provide for a man of so much eminence; who, in support of their cause, had sacrificed all bis preteusions to fortune in his own country. Pole was creatcil a cardinal, and sent tegate into Flanders. But lie took no higher thinn dencon's orders, which did not concicma tion to cetibsocy; noit hio was suspected of hiving aspired to the English crown, ty means of a marriage with the prinecos Mary, during the life of her father. The marguis of Exeter, Jom Montacute, the cardinil's brother, and severil other persons of rank, sofficred for this conspiracy, whether real or pretended. Tovioha a correspondence with that obnoxiors fogitive, was deemed, perhaps, sufficient guil. it was enough, at least, to expose them to the indignation of, Henry;
and bis will, on many occasions, is known to have usurped the place of both law and equity.

But whatever doubt may remain of Pole's intrigues for obtaining the crown of England, through an alliance with Mary, it is certain that she was no sooner seated upon the throne, than she thought of making him the partner of her sway. The cardinal, however, being now in the decline of life, was represented to the queen as unqualified for the bustle of a court, and the fatiguc of business. She therefore laid aside all thoughts of him, as a husband; but as she entertained a high esteem for bis wisdom and virtue, she still proposed to reap the benefit of his counsels in the administration of her goverament. And hence her request to the pope.

This alliance, and one with the earl of Devonshire, being rejected, for various reasons, the queen turned her eye toward the house of Austria, and there found a ready correspondence with her views. Charles $V$., whose ambition was beundless, no sooner had heard of the succession of his kinswoman Mary to the crown of England, than he formed the scheme of obtaining the kingdom for his son Philip; hoping, by that acquisition, to balance the losses he had sustained in Germany. And Philip, although 11 years younger than Mary, who wus destitute of every. beauty or grace, gave his consent, without hesitition, to the match proposed by his father. The emperor, therefore, immediately sent diver an agent, to signify his intentions to the queen of England; who, flattered with the prospect of marrying the presumptive beir of the greatest monarch in Europe, pleased with the support of so powerful an alliance, and happy to unite herself more closely to her mother's family, to which she had always been warmly attached, gladly embraced the proposal. The earls of Norfolk and Arundel, lord Paget, whom she had promoted, and bishop Gardiner, now become prime minister, finding how Mary's inclinations leaned, gave their opinion in favour of the Spanish alliance; but as they were sensible the prospect of it diffused universal apprehension and terror for the liberty and independency of the kingdom, the marriage articles were drawn up with all possible attention to the interest and security, and even to the grandeur of England.

The emperor agreed to whitever was thought necessary to soothe the fears of the people, or quiet the jealousies of the nobility. The chief articles were, that Philip, during his marriage with Mary, should bear the title of king, but that the administration should be vested sotely in the queen ; that no foreigner should be capable of holding any office in the kingdom ; that no innovation should be made in the Eng. lish laws, customs, or privileges; that Philip should not carry the queen abroad, without her consent, nor any of her children, without the consent of the nobility; that the male issue of the marriage should inherit, together with England, Burgundy, and the Low Countries; that if Dun Carlos, Philip's son by a former marriage, should die without issue, Mary's issue, whother mule or remale, should suicceed to the crown of Spain, and all the emperor's hereditary dominions ; and that Philip, if the queen should die before hin, without issue, should leave the crown of England to the lawful heir, without clasming any right of afministration whatevier.

But this treaty, though framed with to much caution and skill. was from reconVoL I

## BRITISII EMPIRE.

ciling the English nation to tho Spanish alliance. It was universally soid, that the em? peror, in order to get possession of England, would agree to any terms; and that the more fivourable the conditions were, which he liad granted, the more certainly might it be concluded he had no serious inteation of observing them. His general character was urged in support of these observations; and it was added, that Philip, while he inflerited his fatber's vices, fraud and ambition, united to them more dangerous vices of his own, sullen pride and barbarity.

England seemed already a province of Spain, groaning ander the load of despotiam, and subjected to all the horrors of the inquisition. The people were every where ripe for rebellion, and wanted only an able leader to have subverted tise queen's authority, No such leader appeared. The more prutent part of the nobility thought it would be soon enough to correct ills when they began to be felt. Some turbulent spirits, bowever, judged it safer to prevent than to redress grievances. They accordinglv formed a conspiracy to rise in arms, and declare ayainst the queen's marriage with Philip. Sir Thomas Wyat proposed to raise Kent; sir Peter Carew, Devonshire; and the duke of Suffolk was engaged, by the hopes of recovering the crown for lady Jane Gray, to attempt raising the midland countics. But these conspirators imprudently breaking concert, and rising at different times, were soon humbled. Wyat and Suffoik lost their heads, as did lady Jane Gray and lier husband, Iord Guildford Dudfey, to whom the dake's guilt was imputed.

This fond and unfortunate couple died with much piety and fortitude. It had been intended to execute them on the same scaffold on Tower-hill; but the council, dreading the compassion of the people for their youth, beauty, and innocence, changed its orders, and gave directions that lady Jane should he beheaded within the verge of the Tower. She refused to take leave of her husband on the day of their execution; assigving as a reason, that the tenderness of parting might unbend their minds from that firmness, which their approaching doom required of them. "Our separation," added she, " will be but for a moment; we shall soon rejoin rach other, in a scene where our affections will be for ever united; and where death, disappointment, and misfortune, can no longer disturb our felicity." She saw lord Guildford led to execution, without discovering any sign of weakness; she even calmly met his headless body, as she was going to execution herself, retorning to be interred in the chapel of the Tower, and intrepidly desirod to procced to the fatal spot, emboldened by the report which she had received of the magnanimity of his behaviour. On that occasion she wrote in her tablebook three sentences; one in Greek, one in Latin, and one in English. The meaning of them was, that although buman justice was against ber husband's body, divine mercy would be favourable to his soul ; that if her fualt deserved punishment, her youth and inexperience ought to plead ber excuse; and that God and posterity, she trusted, would shew her favour. On the scaffold, she behaved with great mildness and composure, and submitted herself to the stroke of the executioner with a steady and serene countenance.

The queen's authority was much strengthened by the suppression of this rebellion, commonly called W yat's, from the figure which be made in it; and the arrival of Philip
in Engleni, gave still more stability to her government. For although that prince's behaviour was ill calculated to remove the prejudices which the English nation had entertained against liin, being distant in his address, and so entrenched in form and ceremony, as to bo in a manner isaccessible, yet his liberality, if money disturred for the purposes of cornuption can deserve that name, made him wany friends among the nobility an-l gentry.

Cardinal Pole also arrived in England about the same time, with legantine powers from the pope; and both houses of parliament voted an address to Philip and Mary, acknowledging that the mation had been guilty of a most horrible defeetion from the true chureh; declaring their resolution to repeal all laws enacted in prejudice of the Romish religion ; and praying their majestics, happily uninfected w th thit crimiral schism! to intercede with the Holy Father for their absolution and furgiveness of their penitent subjects. The request was readily granted. The legate, in the uawe of his Holiness, gave the parliament and kingdons absolution, freed them from all the ecelesiastical censures, and received them again into the bosom of the church.

In consequence of this reconciliation with the see of Rome, the punishment by fire, that frightful expedient of superstition for extending her empire, and preserving ber dominion, was rigorously employed against the most eminent reformers. The mild counsels of cardinal Pole, who was inclined to toleration, were over-ruled by Gardiner and Bonner ; and many persons, of all conditions, ages, and sexes, were committed to the flames.

The persecutors made thicir first attack upon Rogers, prebendary of St. Paul's ; a man equally distinguished by his piety and learning, but whose domestic situation, it was hoped, would bring him to compliance. He had a wife, whom he tenderly loved, and ten children : yet did he continue firm in his principles; and such was his serenity after condemnation, that the gaolers, it is said, waked him from a sound sleep, when the bour of his execution approached. He suffered in Smithfield. Hooper, bishop of Gloucester, was condemned at the same time nith Rogers, but sent to his orn diocrge to be punished, in order to strike the greater terior into his tlock. The constancy of his death, bowever, had a very contrary effect. It was a scene of consolation to Hooper to die in their sight, bearing testimony to that doctrine, which be had formerly taught among them. He continued to exhort them, till his tonguc, swollen by the violence of his agony, denied himutterance : and his words were long remembered.

Ferrar, bishop of St. David's, also suffered this terrible ponishment in his own diocese. And Ridley, bishop of London, and Latimer, formerly bishop of Worcester, two prelates, venerable by their years, their learning, and their piety, perished together in the same fire at Oxford, supporting each other's constancy by their mutual exhortations. Latimer, when tied to the stake, called to his companion, "Be of good cheer; my brother! we shall this day kindle such a flame in England, as, I trust, will never be extinguished."

- Sanders, a respectable clergyman, was committed to the flames at Coventry. A par-
don was offered him if he would recant; but he rejected it with disdain, and embraced the stake, sayiug, "Welcome cross of Christ!' welcome everlasting life !" Cranmer bad Iess courage at first; overawed by the prospect of those tortures which awaited him , or overcome by the fond love of life, and by the flattery of artful men, whe pompously represented the dignities to which his character stilt entitled him, - if he would merit them by a recantation, he agreed, in an unguarded hour, to subscribe to the doctrines of the papal supremacy and the real presence. But Mary and her council, no less perfidious than cruel, determined, that his recantation should avail hium nothing: that he should acknotwledge his errors in the church before the people, and afterward be led to execution. Whether Cranmer received secret intelligence of their design, or repented of bis weakness, or both, is uncertain ; but he surprised the audience by a deelaration very different from that which was expected from him. After explaining his sense of what be owed to God and his sovercign, "There is one miscarriage in my life," suid hes " of which, above all others, I severely repent ; the insincere declaration of faith, to whichi I had the reakness to subscribe; but I take this opportanity of atoning for my error, by a sincere and open recantation," and am willing to seal with my blood that doctrine, which I firmly betieve to bave been communicated from heaven."

As his hand, lie added, had erred, by betraying bis heart, it should first be punished, by a severe, but just doom. He accordingly stretched out his arm, as soon as be came to the stake, to which he was instantly led, and without discovering, either by his looks or motions, the least sign of compunction, or even of feeling, he beld his right hand in the flames, till it was utterly consumed His thoughts appeared to be totally occupied in reflecting on his former fault; and he called aloud several times, "This hand has offended." When it dropped off, lie diveovered a serenity in his countenance, as If sati-fied with sacrificing to divine justice the instrument of his crime; and when the fire attueked lits body, his soul, wholly coltected within itself, seemed fortified against every external accident, and altogether iniccessible to pain.

Near 300 persons were brought to the stake, during this bigoted and ignominious reign; most of whom rivafted, by their patient constancy, the savage barburity which was displayed by their persecutors The exemplary behaviour and bloody death of these illustrious martyrs, tended powerfully to excite that deeply rooted hatred of papery, which has since beea so generalty felt by Englistimen, and to which we are indebted for the preservation of our civil and religious liberties.

But the members of the English pariament, though so obsequious to thie queen's will, in re-uniting the kingdom to the see of Rome, and in authorising the butchery of their fellow subjects, who rejected the catholic faith, had still some regard left both to their own and the national interest. They refised to restore the possessions, of the church. And Mary friled, not only in an attempt to get her husband declared presumptive beir to the crown, and to obtain the consent of parliament for vesting the administration in his hands, but in all her political hopes. She could not so much as obtain a parliamentary consent to his coronation.

The guen likevise met with much, and long opposition from parliament, in another
favouvite mensore ; pamely, in an attempt to engage the nation in the war which was kindled between Fraince and Spain. The motion was for a time laid aside; and Philip, disgusted with Mary's importunate love, and with her jealousy and spleen, which increased with her declining years, and her despair of having issue, had gone over to his father, Charles V., in Flanders. The voluntary resignation of the emperor, soon after this visit, put Philip in possession of all the wealth of America, and of the richest and most extensive dominions in Europe, He did not, however, lay aside bia attention to the affuirs of England, of which he still hoped to have the direction; and he came over to London, in order to support his parliamentary friends in a new motion for a French war. This measure was zealously opposed by several of the queen's most able counsellors, and particularly by cardinal Pole, who, having taken priest's orders, had been installed in the see of Canterbury, on the death of Cranmer. But hostilities having been begun by Fraice, as was pretended, war was at last denounced against that kingdom ; and an army of 10,000 men was sent over to the Low Countries under the command of the earl of Pembroke.

A like attempt was made in Scotland, by the French monarch, to engage that kingdom in a war with England. Mary of Guise, the queen dowager, had obtained the regency, through the intrigues of the court of France; and Henry II. now requested her to take part in the common quarrel. She accordingly summoned a convention of the states, and asked their concurrence for commencing hostilities against England. But the Scottish nobles, who were become as jealous of French, as the English were of Spanish influence, refused their assent; and the regent . had in vain recourse to stratagem, in order to accomplish lier purpose.

The French monarcb, however, without the assistance of his antient allies, and notwithstanding the unfortunate battle of St. Quintin, made himself master of Calais, which the English had held upwards of 200 years; and which, as it opened to them an easy and secure entry into the heart of France, was regarded as the most valuable foreign possession belonging to the crown. This important place was recovered by the vigilance and valour of the duke of Guise ; who, informed that the English, trusting to the strength of the town, deemed in that age impreguable, were accustomed to recal, towards the close of summer, great part of the garrisno, and to replace it in the spring, undertook, in the depth of winter, and succeeded in an enterprize, that surprised his own countrymen no less than his enemies. As he knew that success depended upon celerity, he pushed his attacks with such vigour, that the governor was obliged to surrender on the eighth day of the sigge.

The joy of the French on that occasion was extreme. Their vanity indulged itself in the utmost exultation of triumpb, while the English gave vent to all the passions which agitate a high spirited people, when any great national misfortune is evidently the consequence of the misconduct of their rulers. They murmured loudly aguinst the queen and her council ; who, after engaging the nation in a fruitless war, for the sake of foreign interest, had thus exposed it, by their negligence, to so severe a a disgrace.

This event, together with the consciousness of being hated by her subjects, and desVol I.

* 4 M


## BRITISH EMPIRE.

pised by her husband, so much affected the queen of England, whose nealth had long been declining, that she fell into a low fever, which put an end to her short and inglorious reign. "When I am dead," said she to her attendants, "you will find Calais at my heart." Mary possessed few qualities, either estimable or amiable. "Her person was as little engaging as her manters ; and amid that complication of vices which entered into her composition, namely, obstinacy, bigotry, violence, and cruelty, we scarcely find any virtue but sincerity.

## CHAPTER XI.

## Great Britarn and Ireland-During the reign of Eizabeth.

THE English nation had been under great apprehensions for the life of the princess Elizaheth, during her sister's whole reigo. The attachment of Elizabeth to the reformed religion offended Mary's bigotry; and menaces had been emploged to bring her to a recautation. The violent hatred which the queen entertained against her, broke out on every occasion; and all her own distinguished prudence was necessary, in order to prevent the fatal effects of it. She retired into the country; and knowing that she was surrounded with spies, passed her time wholly in reading and study. She complied with the established mode of worship, and eluded all questions in regard to religion. When asked, on purpose to gather her opinion of the real presence, what she thought of these words of Christ, "This is my body,"-and whether she believed it the true body of Christ that was in the sacrament of the Lord's Supper? she replied thus,

> "Clirist was the Word that spake it,
> "He took the bread and brake it,
> "And what the Word did make it;
> "That I believe and take it."

After the death of her sister, Elizabeth delivered ber sentiments more freely; and the first act of her administration was the re-establishment of the protestant religion. The liturgy was again introduced in the English tongue, and the oath of supremacy was tendered to the elerg). The number of bishops had been reduced to 14, by a sickly season, which preceded this change ; and all these, except the bishop of Landaff having refused compliance, were deprived of their sees. But of the great body of the English clergy, only 80 rectors and vicars, '50 prebendaries, 15 heads of the colleges, 12 archdeacons, and as many deans, sacrificed their livings for their theological opinions.

Henry II. of France, and Philip of Spain, beheld Elizabeth's eleration with equal solicitude : and equally sensible of the importance of gaining her favour, both set themselves with emulation to court it. Henry endeavoured, by the warmest expressions of regard and friendship, to detach her from the Spanish alliance, and to engage ber to consent to a separate peace with him; while Philip, unyilling to lose bis connection with England, not only vied with Henry in declarations of esteem for Elizabeth, and in professions of his'resolution to cultivate the strictest amity with her, but, in order to confirm and perpetuate their union, he offered himself to her in martiage, and wadertook to procure a dispensation from the pope for that purpose.

Elizabeth weighed thie proposals of the two monarels with that provident discernment of her true interest, which was conspicuous in all her deliberations; and although sccretly determined to yield to the solicitations of neither, she coutinued for a time to amuse both. By this artifice, as well us by her at first concealing her sentiments concerving religion, the young queen so far gaiaed upon Philip, that he warmly espoased her interest in the conferences at Cercamp, and afterwards at Chateau Cambresis, whither they were removed. The earnestness, however, with which he seconded the arguments of the Erglish plenipotentiaries, began to relax, in proportion as his prospect of espousing the queen became more distant; and the vigorous measures that Elizabeth took, as soon as she found berself firmly seated on the throne, not only for overturoing all that her sister had done in favour of popery, but for establistins the protestant church on a sure foundation, convineed Philip, that his hopes of an union with her had been in vain, and were now desperate. Henceforth decorum alone made him preserve the appearance of interposing in her favour. Elizabeth, who expected such an alteration in his conduct, quickly perceived it. Bat, as peace was necessary to her, instead of resenting this coldness, she became more moderate in ber demands, in order to preserve the feeble tie, by which she was still united to him ; and Philip, that he might not seem to have abandoned the English queen, insisted, that the treaty of peace between Heury and Flizabeth should be concluded in form, before that between France and Spain.

The treaty between Henry and Elizabeth contained to article of importance, except that which respected Calnis. It was stipulated, that the king of France should retain possession of that town, with all its dependencies, during eight years, at the expination of which term he should restore it to England. But as the force of this stipulation was made to depend on Elizabeth's preserving inviolate, during the same number of years, the peace both with France and Scotland, all men of discernment saw, that it was but a decent pretext for abandoning Calais; and, instead of blaming her, they applauded ber wisdom, in palliating what she conld not prevent.

It has been already related, that Mary, the young queon of Scotland, had been sent to receive her educatian in France. She there married the dauphin, who, in 1559, ascended the throne, by the mame of Francis II. The princes of Lorrain, who negotiated this marriage, while they prevailed on the French court to grant the Scottish nation every security for the independency of that crown, engaged the young queen of Scots to subscribe privately three deeds, by which, failing the heirs of her own body, she conferred the kingdom of Scotland, with whatover inheritance or succession might accrue to it, in free gift upon- the crown of France, declaring any deed which her subjects had, or might extort from her, to the contrary, to be void, and of no obligation.

By the succession mentioned in these deeds, the crown of England seems to have been meant ; for no sooner were the princes of Lorrain informed of the accession of Elizabetb, than they solicited at Rome, and obtained a bull, declaring her birth illegitimgte ; and as the queen of Scots, then married to the dauphin, was the next heit
by Mood, they persuaded Henry II. to permit his son and daughter-in-law to assume the title and arms of England.

No obvious measure, however, was taken during the reiga of Henry IL, in suppiort of the claim of the queen of Scots; but-no sooner were the princes of Lorrain in full possession of the administration uuder his successor, Francis II. than uore vigorous and less guarded cuunsels were adopted. Sensible that Seotland was the quarter whence they could attack Eagland to most sdvantage, they gave, as a preparatory step, orders to their sistes, the queen-regent, and encouraged her by promises of mén and thoney, "to take efiecual measures for humbling the malcontents, and suppressing thie protestant opinions in that kingdom; hoping that tho English catholics, formidable at that time by their zeal and numbers, and exasperated against Elizabeth, on account of tire change which she had nade in the national religion, would rise in support of the suecession of the queen of Scots, when animated by the prospect of protection, and throw themselves into the urms of Frince, as the only pawer that could secure to them their antient worship, and the privileges of the Romish church.

No stranger to theie violent counsels, Elizabeth saw her danger and determined to provide agaist it. Mean while the situation of affairs in Scotland afforded her a favourable opportulity, both of revenging the insult offered to her crown, and of defeating the ambitious views of France.

The reformation was fast advancing in Scotland. All the low country was deeply tinctured with the protestant opinions; and as the converts to the new religion had been guilty of no violation of poblic peace since the munder of Cardinal Beaton, whose death was partly occasioned by private revenge, the queen-regent, willing to secure their favour, in order to enable her to maintain that authority which she had found so much difficulty to acquire, coarived at the progress of doctrines, which she wanted power utterly to suppress. Too cautious, however, to trust to this precarious indulgence for the safety of their religious principles, the heads of the protestant party in Seotland entered privately into a- boad of association for their mutual protection and the propagation of their teaets, tslling themselves the Congregation of the Lord, in contradistinction to the established charch, which they denominated the Congregation of Satan.

Such associations are generally the forerumers of rebellion ; and it appears, that the beads of the congregation in Scotland. carried their views farther than a mere toleration of the new doctrines, So far they were to blame, as enemies to civil authority, but the vivient nieasures pursued against their seet, before this leagoe was known or avowed, sufficiently juetify the association itself, as the result of a prualent foresight, and a necessary step to secure the free exercise of theie religion. Alarmed at the progreas of the reformation, the popish clergy had sttempted to recover their sinking authority by enforcing the tyranoical laws against hercsy; and Hamilton, the primate, formerly distinguished hy his moderation, had sentenced to the flimes an aged priest, convicted of embracing the protestant opinions.

This was tise last barbarity of the kind that the eatholics badt the power to esercise Vol. I.

- 4 N
in Scotland. The severity of the archbishop rather roused than intimidated the refermars. The cougregation now openly solicited subscriptions to their league : and not satiffied with new and more solemn promises of the regent's protection, they preisentel a petition to ber, craving a reformation of the cluarch, ant of the wicked, scandalous, and detestable lives of the clergy. They also framed e petimen, which they inteaded to present to parliament, saliciting some legal protection against the exorbitant and oppressive jurisdiction of the eeclesisstical coarts. They even petitioned the convgeation; and insisted that pravers shonld be said in the vulgar tongoe, that hishops should be chosen by the geatry of the diocese, and prients with the consent of the parisbioners.

Iastead of soothing the protestants, by any prodent concessions, the convocation rejected their demands with disdain; and the queen-regent, who had hitherio wisely temporised between the parties, and whove hun inity and sagacity tanght leer moderatoon. having received during the sitting of the assembly, the violent commands of hes brother, prepared to carry their despotic plan into execution, coutrary to her owtt judgment anl experience. She publicly expressed her approbation of the decrees, by which the priaciples of the reformers were condemned in the convocation, and cited the most eaine pt protestant teachers to appear before the council at Stirling.

The members of the congregation, alarmed, but mot overaved hy this danges, assembled in great numbers, agreeable to the custom of Scothend at that time, in order to attend their pastors to the place of trial ; to protect and to countenance them : and the queen-reg-nt dreading the approach of so formidable a boly, empowered Erskine of
-1)un, a person of high suthority with the reformers, to assure them that slie would put a stop to the intended proceedinis, provided they alvanced no forther. They listened with pleasure, and perhaps with ton much eredulity, to so pacific a firoposition ; for men whose grievances obliged them to fly in the fice of the civil poner, nuder whatever plansible pretext their purpose may be roncealed, should trust to nothing less than the solemnity of a contract. The regent tiroke her pronise, conformathle to lier maxim, that "the promises of princes ought not to be too carefally remembered, nor the perforinance of them exacted, unless it kuits their own conveniency." She proceeded to call to trial the persons formerly smmmen, anl on their not appearing, though purposely prevented, they were pronounced oatlaws.

By this ignoble artifice, the queen-regent forfeited the esteem and confilence of the whole nation. The protestants boldly prepared for their own defence, and Eokkine, enraged at being made the irstrument of deceiving his party; instantly repaired t. Perth, - whither the leaders of the congregation had retired, and inflamed the zeal of the associates, by his represectations of the rrgent's inflexible resolution to suippress their religion. His ardour whs powerfulty seconded by the rhetoric of John Knox, a prracher pessesed of a hold and popular elogience. Hiving been carried prisoner into France, together with other persons taken in the eastle of St. Andrew's, soon after the murder of cardinal Beaton, Knox made his escape out of that kingdom: and, after residing *omedmes in England, somietimes in Scotland, had found it necessary, in order to
avoid the vengeance of the popish clergy, to retire to Geneva. There he hecame more thoroughly instructed in the doctrines of Calvia, who had succeeded Zuinglius and completed the ecclesiastical establishuents of that republic. Invited home by the heads of the protestant party in Scotland, Knox had arrived in his uative country a few days before the trial appointed at Stirling, and immediately joined bis brethren, that fie might share with them in the common danger, as well as in the glory of promoting thie common cause. In the present ferment of men's minds, occasioned by the regent's deceitful conduct, and the sease of their own danger, he mounted the pulpit, and declaimed with such vehemence against the idolatry, and other abuses of the church of Rome, that his audience were strongly incited to attempt its utter subversion. During those movements of holy indignation, the indiscreet bigotry of a priest, wbo, immediately after that violent invective, was preparing to celebrate mass, and had opened all his repository. of inages and reliques, hurried the enthusiastic populace into immediate action. They fell with fury upon the devoit catholis, broke the images, tore the pictures, overthrew the altars, and scattered about the sacred vases. They next proceeded fo the monasteries, against which their zeal more particularly pointed its thunder. Not content with expelling the monks, and deficing every implement of idolatrous wotshipe as they termed it, they vented their rage upon the buildiugs which had been the receptacles of such abominations; and, in a few hours, those superb edifices were level with the ground.

Provoked at these siolences, and others of a like kind, the queen-regent assembled an army, composed chielly of French troops ; and being assisted by such of thẹ nobility as still adhered to her cause, they determined to inflict the severest vengeance on the whole protestant party. Intelligence of ber preparations, as well as of the spirit by which she was actuated, soon reached Perth; and the heads of the congregation, who had given no countenance to the late insurrection in that city, would gladly have soothed lier by the most dutiful and submissive addresses, but finding her inexorable, they prepared for resistance, and their adherents flocked to them in such numbers, that within a few days they were in a condition, not only to defend the town, but to tuke the field with supperior forces. Neither party, however, discovered much inclination to hazard a battie, both bring afraid of the daugerous consequences of such a trial of strength ; and through the unediation of the carl of Argyle, and of James Stuart, prior of St. Andrew's, the young queen's natural brother, who, although closely conriected with the reformers, had not yet openly drserted the regent, a treaty was concladed with the congregation. In, this treaty it was stipulated, among other pmvisions that indemnity should be granted to all persons concerned is the late losurrection, and thist the, parliament should immeriately be assembled in, order to compose religious difSercnces. Both these stipulations the quesa-regent broke, by neglecting to call the parHament, by fiaing some of the inhahitants of Perth, banishing others, tarning thic magistrates out of office, and leaving a garrison in the town, with orders to nllow the exercise of no other religion but the roman eatholic. The protestants renenod the leaguc, anit had again recourse to arms; despoiling whercver they turned their raute, the churches
of their sacred farnitore, and laying the mionasteries in ruins. New treatics were concluded, and again broken, and new ravages were committed on the monuments of ecclesiastical pride and luxury.

Meanwhile, the congregation had been joined, not only by the carl of Argylerand the prior of St Andrew's, but also by the duke of Chatelrault and his son the earl of Arran, the presumptive heir of the crowne and lard possessed themselves of the capital. They now aimed at the redress of civil as well as religious grievances ; requiring, as a preliminary 'toward settling the kingdom, and securing its liberties, the inmedtate expulsion of the French forces out of Scotiand. The queen-regent, sensible of the necessity of giving way to a torrent which she could not resist, annsed them for a time with fair promises and pretended negociations ; lrat being reinforced with 1,000 foreign troops, and encouraged by the court of France to expect soon the arrival of an aray so powerful, as the zeal of her adversaries however desperate, would not dare to encounser, she listened to the rash counsels of her brother, and at last gave the congregation a positive denial. Slie was hot answerable to the contederate lords, she said, for any part of her conduct; nor should she, upon any representation from them, abandon messures which she deemed necessary, or dismiss forces that she found usefal; ordering them at the same time, on pain of her displeasure, and as they valucd their allegiance, to disband the troops which they had assembled.

This haughty reply to their carnest and coutinued solicitations, determined the leaders of the congregation to take a step worthy of a brave and free people. They assembled the whole body of peers, barons ond representatives of boroughs, that adhered to tieir party; and the members of this bold convention (which equalled in numbers and exceeded in dignity the usuak meetings of parliament), after examining the most delicate ond important question that can possibly fall under the coisideration of subjects," the obedience due to an unjust and oppressive administration," gave their suftrage, without one dissenting voice, for depriving Mary: of Guise of the office of regent, which she had exercised so nuel to the detriment of the kingdom. The queen Dowager baid already retired into Leith, the sea-port of Ediniurgh, which she had fortified and gaiJisoned with Frencb troups, and where she daily expected new reinforceinents. Leith was immediately inveated by the forces of the congregation; bit the confederate lorils soon found, that their zeal bad engaged them in an undertaking which execetert their ability to accomplish. The French garrison, despising the tumultapus efforts of raw and uadisciplined troops, relused to surrender the town ; and the protestant leaders were neither sufficiently skilful in the art of war, nor possessed of the artiltery or mugadines necessary for the purpose of a siege. Nor was this their only misfurtune; their fellowers, aecustomed to decide every quarrel by immediate action; wore strangers to the fatigues of a long campaign, and soon became impatient of the spvere and constaut duty which a siege requires. They fisst murnured, then mutinied; the garrison took advantage of their diseontents : and making a bold sally, cut wany of them is jieces, and obliged the rest to abandon the enterprize.

Soon after this vietory, the queci-dowager received from. France a new reinforce
ment of 1000 veteran foat abd some troiops of horse. These, together with a detachment from the garrisoin of Leith, were sent out to scour the country, and to piltage und lay waste the houses and lands of the protestants. Already broken and dispirited, and bcaring that the marquis of Elbeuf, the queen dgnager', brother, was suideniy expeced with a great army, the leaders of the congregation thegn to consider their cunse as desperate, ualess the Lord, whose boly naig they had assmmed, should mingeulousty interpose in their behaif. Rut whatever confidence they might place in divine aid, they did not neglect human means.

The Scottish protestants, in this presing extremity, thopght themselves excusable in craving foreign help, They tarned their eyes towards Epgland, which had already supplied them isith aponey, and resolved to iniplose the assístance of Etizabeth to enable them to finish an undertakinge in which they had so fatally experienced their own wealcness ; and as the sympathy of religion, as well as regard to civil liberty bad now counterbalanced the antient animesity against that sister-kingdom, this meusure was the result of juclination, no less than of interest on necessity. . Mailland of Lethington, formerly the regent's principal secretary, and Robert, Meivil, already acquainted with the intrigues of courts, were therefore seeretly digpatebed, as the most able negotiators of the party, to solicit succours from the queen of England.

The wise counsellors of Elizabeth did not long hesitate in agreeing to a request, which corresponded so perfectly with the views and interests of their mistress. Secretary Cecit, in particular, represented to the English queen the necessity, as wcll as equity, of iaterposing in the affiairs of Scottand, and of preventing the conquest of that kingdom, at which France opealy aimed. Every society, he obseryed, bas a right to defend itself, not only from present dingers, but from such as may probably ensue; that the invasion of England would inmediately follow the reduction of the Scottish matcontents, by the abandoning of whom to the mercy of France, Elizabeth would open a way for her enemies into the heart of her own kingdom, and cxpose it to all the calamities of war, and the danger of conquest. Nothing therefore remained, he added, but to meet the enemy white yet at a distance, and, by supporting the leaders of the congregation with an English army, to render Scotland the scene of hostilities ; to crush the designs of the princes of Lormin in their infancy; and, by such an early and unexpected effort, finally to expel the Freneh out of Britain, bofore their power liad time to grow up to any formidable height.

Elizabeth, throughont ber whole reign, was crutions, bat decisive; and by her promptitude in executing her resolutions, joined to the deliberation with which she formed them, her administrution became as remarkable for its vigour, as for its wisdom. No sooner did she determine to afford agsistance to the leaders of the congregation, a measure to which'the reasoniug of Cecil effectaally swayed her, than they experienced the activity as well as extent of her power:
The season of the year would not permit her troops to take the field; but, lest the French army should, in tha mean time, receive an accession of strength, she in stantly ordered a squadron to cruiso in the Frith of Forth, and early in the spring, an

Vob. I.

Endish arnyy, cousiting of 6000 foot and 9000 thorse, eptered Scotlaud, tunder the command of lord Grey of Wilton.

The leaders of the congregation nssembled from all parts of the kingdom, to mect theig now allies; and having joined them with vast numbers of their followers, the consbined army advanced toward Leilh. The French, linle able to keep the field agaiast so superior a force, confined themselvo within the walls of the fortification. The place was immediately invested ; and although the fleet that carried the reinforcement, under the marrquis of Eibeuf, had been scattered by a violent storm, and was cither wrecked on the coast of France, or with difficulty recovered the ports of that kingdom, the garrison, by an obstinate defence, protracted the siege to a great length.

Mean while, the queen-dowager died; and many of the catholie ncbiles, jealous of the French power, and more zealous for the liberty and independency of their country thin for their religion, subscribed to the alliance with England. Nothing, therefore, contd now save the garrison of Leith, but the immediate conclusion of a treaty, or the arrival of a powerful army from Erance; and the situation of that kingdom constrained the princes of Lorrain to turn their thoughts, though with reluctance, toward pacific measures

Plenipotentiarics were therefore, sent to Edinburgh, where a treaty was signed with the ambassedors of Elizabeth. In this treaty, it was stipulated, that the French fores should instantly evacuate Scotland, and that Francis and. Mary should thenceforth abstain from assuming the title of king and queen of England, or bearing the artis of that kingdom. Nor were the concessions granted to the cerngregation less important; namely, that an amnesty should be published for all past offences ; that none but natives should be put into any office in Scotland; that no foreign troops should hereafter be introduced into the kingdom, withont, the consent of parliament; that the parliament should name of persons, out of whom the queen should chose seven, and the parliament five; and in the hands of these 19, so elected, should the whole administration be vested doring Merys absenee; that she should neither make peace nor war without the consent of pariiament; and that the parlianinent, at its first meetiog, which was fixed to a certain day, should toke into consideration the religious differences, and represent its sense of them to the king and queen.

A fow days after the conclusion of this treaty, both the French and English armies quitted Scotland; and the leaders of the congnegation being now absolute masters of the kingdom, made no farther scruple or ceremony in compteting the work of the reformation.

The parliament, which was properly an assembly of the nobles, of great barons, and dignified clergy, met on the day named; and on this occasion the burgesses and lesser barons, who bad also a rigit to be present in that asseribly, but who seldom exercised it, stood forth to viadicate their civil and religious fiberties, eager to aid with their voice in the senate, that cause which-they bud defended with their sword in the ficld. The protestant members, who greatly oit-numbered their adversaries, after ratifying the principal articles of the late treaty, and giving their sunction to as

## BHTMSIL EMPIRE

confession of faith presented to thrm by their teachers, prohibited the exercise of rrligious worship, acconding to the rites of the Romish clurch, under the penalty, of for: feiture of goods, as the punishment of the first act of disobedience; banishment, as this punishment of the second; and death, as the reward of the third. With such indoreat haste did the very persons, who had just escaped the rigour of ecelesiastical tyminny. proceed to imitate these examples of severitydeof which they had so jasdly complained! A faw was also passed, for nbolishing the papal jurisdiction in Scothand; and this presbyterian form of worship was establistied, nearly as now constifuted it that kingdou.

Franeis and Mary refused to, ratify these proceedings ; whieli, of the treaty of Elisburgh, ought to have been presented for approbation, ia the form of deliberations, not of uets. But the Scottish protestants gave themselves little trouble about their sovereign's refusal. They immediately put the statutes in execution; they abolislied the mass ; they settled their ministers; and flicy committed forious devastations on the sacced buildings, which they considered as dangerous reliques of idolatry, lnying waste every thing venerable and magoilicent, that had escaped the storm of popular insurrection. Abbeys, cathedrals, charches, dibraries, records, and even tho sepulelires of the dead, perished in one common ruint.

United by the congciousness of such unpardonable stretclies of authority, and well acquainted with the imperious charracter of the princes of Lorrain, the protestant part of the Scottish parliament, secing no saffety for themselves, but in the protection of England, dispatched ambassadors to Elizabeth, to express their sinecre gratitude for her past favours, end represented to iver the necessity of continuing them. Elizabeth, on her part, bad equal reason to desire an onion with these northern reformers. Though the disorders in France bad obliged the princes' of Lorrain to remit their efforts in Scotland, and had been one chief cause of the suceess of the. English arms, they were determined not to relinquish their authority, or yield to the violence of their enemies. Nor had they yet laid aside their desigo of sobverting Elizabett's throne. Francis and Mary, whose councils were still wholly directed by them, olstinately refused to ratify the treaty of Edinburgti, and persisted in assuming the thte and arins of Engtand. Aware of the daunger attending such pretensions, Elizabeth not oaly promived support to the protestint party in Scotland, but secretly encouraged the French malcontens ; and it was with pleasure thit she heard of the violent faction which prevailed in the court of France, and of the formidable opposition against the measures of the dake of Guise.
The death of Francis II. without issue by the queen of Sents, and the change which it produced in the French council, at once freed the quecn of England from the perils uttending an whion of Seotland with France, and the Scottish protestiats from the teryor of the Prenetr porter. The joy of the conigicgation was extrenie. Thiey ascribed those events to the immediate interposition of Providence, in favour of his chosen peoplo; and Flizabeth, witiout looking so bigh for their eauses, determined to take ad. -vantage of their effects, in order morbe firmly to establish her tlirone. She still regarded the queen of Scots as a dangerous rival, oa aecount of the nimber of English catholios,
who were gracrably' prejudiced in favour of Mary's title, and would now adhere to her 'with more zealous attachment, when they saw that her successian no. longer endangered tbe liberties of the kingdom. She therefore gave ordens to her ambassador at the court of France, to renciv lis applications to the queen of Scots, and to require ber iinmediate ratification of the treaty of Ediaburgh.

Mary, slighted by the queen-mother, ayho impated to that princess all the mortification she lad met with during the life of Francis; fursaken by the swarm of courtiens, who appear buly in the sunshine of prosperity, and overvbelmed with all the sorrow whith so sad a reverse of fortune could occasion, had returned to Rheins ; and there, in sulitude, iudulged her grief, or hid ber indiguation. But, notwithstanding her ditcousolate co:Njion, and though she had desisted, after her husband's death, frow bearing the arms, or assuming the title of England, she still eluded ratifying the ireaty of Edinburgh, and refused to make any solizun reaunciation of her pretensions to the English crown.

Meanahile, James Stuart, prior of St. Andrew's, her natural brother, arrived at Rheins, in deputation from the state of Scolland, inviting the queen to return into her native kingdom, and assume the reins of government. But Mary, though severely sensible stie was no longer queen of France, was in no hatte to leave a country, where she had been educated from her carliest infancy, and where so mhay atteations bad been paid to her person as well as to her rank. Accustomed to the elegance, gallantry, and gaicty of a wfendid court, and to the conversation of a polished people, by whom she had beea loved and admuired, she still fondly lingered in the seene of all these enjoyments, and contemplated with horror the barbarisis of ber own country, and the tuibulence of her native subjects, who had so violently spurned all civil and religious authoritr.

Hy the advice of her uncles, however, she determined at last to set out for Scotland; and as the ceutse, in suiliog from France to that kingdom, lies along the Engisth conast, she demminded of Elizabeth, by the French ambassador D'Oisol, a safe conduct during her voyage. That request, which decency alone obliged one sovereign to grant to another, Elizabeth rejected, in such a manner as gave rise to no slight suspicion of a design either to obsatruet the passage, or intercept the person of the queen of Scots.
This ungenerous behaviour of Elizabeth fillen Mary with indignation, bat did not retard her departaie from France. Having cleared the room of her attendants, she said to Throgmorton, the English ambassador. "How weak I may prove, or how far a woman's fruilty muy transport me, I cannot tell; however, I am resolved not to have so maby withesses of my infirmity as your uistress had at ber audience of my ambassador D'Oisel. There is notling distarbs the so much, ns having asked with so much ituportunity a favour, which it was of no consequence for me to obtain. I cain, with 'God's leave, return to my own country, without her leave,- as 1 came to France in spite of all the opposition of her brother, king Edward : neitber do I want friends, both able and willing to conduct me home, as they bave brouglit me hither; thougb I was desirous, rather to wake an experiment of your mistress's friendship, tban of the assistance
of any other persof.' She embarked on board a galley at Calais; and passing the English ticot, under cover of a thick fog arrived sutely at Leith, attended by the duke of Aumale, the Grand Prior, and the marquis of Elbeuf, three of ber uicles of the house of Lorrain, together with the marquis of Damville, and other Prench courtiers.

The circumstances of Mary's departure from France are truly affecting. The excess of her grief seems to have proceecied from a fatal presage of that scene of misfortune on which she was about to enter. Notsatisfied with mingling tears with her incurnful attendants, and bidding them adicu "ith is sorrosful beart, she kept her eyes fixed upon the French coast, after slie was at sea, and never turned them from that darling object, till darkness fell, and intercepted it from her view. Even then, she would neither retire to the cabin, nor taste food; but commanding a couch to be placed on the deek, she there waited, with fond impatience, the return of day. Portune sootheal her onthis occasion. The weather proving calm, the galley made but little way during the night, 50 that Mary, at morning, had once more an opportonity of seeing the French coast. She sat up on her couch, and still anxiously looking toward the land, often rejeated with a sigh, Farepel, France ! furewel, beloved country! which I shall never more behold! ${ }^{\circ}$

The first appearance of affairs in Scotland was more finvoumble than Mary had reason to expect. She was received by her subjeets with the loudest acclamations of joy, and every demonstration of welcome and regard. Being now in her 19th year, the bloom of youth, and the beauty and gracefuiness of her person, drew universal admiration; white her elegant manners and enlightened understanding commanded general respect. To the accomplishments of her own sex, she added mats; of the aequisitions of ours. She was skilled in most languages, antient as well as modern. The progress she had made in poetry, music, rhetoric, and wil the arts and sciences, then estecmed useful or ornamental, was far beyond what is commonly attained by the sons or daughters of royalty, who are born and educated as the immediate heirs of the crown ; and a courtcous affability, which, withont lessening the dignity of a sovereign, steals on the hearts of subjects with a bewitching insinuation, readered all her other qualities more engaging.

The first measures of Mery's adminktration confirmed the prepossession entertained in her favour. According to the advice of D'Oisel and her uncles, she bestowed ber confidence entirely on the leaders of the protestant party, who were alone able, she found, to support her government. The prior of St. Andrew's, her nataral brother, whom she soon after cre ted arl of Murnay, obtained the chief uuthority, auid, under him. Maitland of-Lethington, a man of great sagacity, had a principal share in her confidence. Her choice could not have fallen upon persons more agreeable to her people.

But there was one circumstance which blasted all these promising appearances, and deprived Mary of that general favour, which her-amiable manners and prudent measures gave her just reason to expect. She was still a papist ; and although she publisbed, 200 a after her arrival, a proclamation, enjoinang every one to sulmit to the reformed Vos. 1.

## BRITISII EMPIRE,

religion, as established by pariiament, the more zealous protestants could neither bie reconciled to a person polluted lyy such an abomination, nor hy aside their jealousies of her foture conduct. It was with mach difficulty she obtained permission to celebrate mass in her own chapel. The zeal of the reformers passed, in some instances, beyond the bounds of prudence and of justice and excited them to load their sovereign with unjustifiable reproaches, and refused her that liberty of con-cience, which, whether from humanity or policy, she constantiy allowed to her subjects. She perceived her only expedient for maintaining tranquillity at home was to preserve a friendly correspondence with Elizabeth, who, by former compections and services, had acquired much authority over all ranks of men in Scotlaud.

Sbe therefore sent Maitland of Lethington to London, in order to pay her compliments to the Eaglish queen, and express a desire of future good understanding between them. Maitland was also instrueted, to signify Mary's willingness to renounce alt present right to the crown of Faghand, provided slie was declared, by act of parliament, eext heir to the succession, in case the queen should die without offspring. But so great was the jealous prudence of Elizabeth, that she never would hazard the weakeaing of her authority, by naming a successor, or allow the pariament to interpose In that matter; much less would she make, or permit such a nomination to be made, -ia favour of a rival queen, who possessed pretensions so plausible to supplant ben and who, though she might verbally renounce them, could easily resume her claim on the first opportunity. Sensible, however, that reason would be thought to lie wholly on Mary's side, as she berself had frequently declared her resolation to live and die a virgin queen, she thenceforth ceased to demand the ratification of the treaty of Edinburgh; and though farther concessions were never made by either prineess, they put on all the appearance of a cordial reconciliation and friendship with each other

Elizabeth saw, that without her interposition, Mary was sufficiently depressed by the mutinous spirit of her owo subjects. Having, therefore, no apprehensions from Scot land, she directed her attention to the continent, and became an useful ally to the protestants in Fraace. But in 1564, the negotiation for the marriage of the queen of Scots awakened anew the jealousy of Elizabeth, and roused the zeal of the Scottish reformers. Mary's hand was solicited by the archduke Charles, the emperor's third son; by Don Carlos, beir apparent to the Spanish monarchy; and by the duke of Anjou, her former husband's brother, who succeeded soon after to the crown of France. Either of thove foreign alliances wrould have been alurming to Elizabeth, and to Mary's protestant subjects. She therefore resolved, notwithstayding the arguments of her uncle, the cardinal of Lorrain, to sacrifice her ambition to domestic peace; and as Henry Stuait, lord Darnley, eldest son of the earl of Lenox, was the first-British subject whou sound policy seemed to point out to her choice, she determiued to make him the partner of ber sway.

Darnley was Mary's cousin-german, by lady Margaret Douglas, niece to Henry VIII, and daughter of the earl of Angus, by Margaret, queen of Scotland. He was, atter herself, next beir to the English crown. He was also, by bis tather, a branch of hẹz own family; and would, in espousing her, preserve the royal dignity in the house of

Stuart. He find been born and eduented in England, where his father constently resided, stace Banished by the prevailing ponse of the house of Hamilton; and ns Elizabeth had often intimated to the queen of Scots, that nothing would so completely allay all jealousy between them, as Mary's espousing an English nobleman, the prospect of the ready approbation of that rival queen was an additional motive for the proposed mariage.

Though Elizabeth had no reason to be displeased with Mary's choice, she thougat proper to pretend a disapprobation of it, that she might thus alarm the party in Scotland, that was attached to her interest, and raise, by their means, intestine commotions, which would not ouly secure ber own kingdom from all disturbance on that side, but enable her to becoase the umpire between, the Scottish queen and her contending subjects.

The scheme immediately succeeded in part, and afterward had its foll effect. The earl of Murmy, and other protestant noblemen, were the dupes of Elizabeth's intrigues. Under pretence of zeal for the reformed religion, because the family of Lenox was beHieved to adhere to the catholic faith, but in reality to support their own sinking authosity, thyy formed among themselves bonds of confederacy and mutual defence. They cutered into a secret correspondence with the English resident, in order to secure Elizabeth's assistance, when it should become necessary and, despairing of being able to preveat the marriage of the queen of Scots by any other means, they concerted measures for seizing Darnley, and carrying him prisoner into England. They failed, howover, in the attempt ; and Mary, having obtained the general consent of the Scottish nation, and being anxions to bring to a period an affair which had long ergaged ber heart, and occupied her attention, celebrated, her marriage with the captivating young nobleman, who had been the object of their conspiracy.

Conscious that all hopes of reconciliation were now at an end, the associated lords assembled their followers and flew to arms; but, by the vigour and activity of Mary, who appeared herself at the head of her troops, rode with loaded pistols, and endured, nith admirable fortitude, all the fatigues of war, the rebels were obliged to fly into England. There they met with a reception very difficent from what they expected, and which strongly marks the character of Elizabeth. That politic princess had already efficetually served her purpose, by exciting in Scotland, through their means, such discord and jealousies, as wonld, in all probability, lone distract and weaken Mary's govermment. It was now her business to save appearances ; and, as the mulcontents had failed of success, she thought proper to disavow all connections with them. Slie whuld not even grant an audience to the earl of Marray and the abbot of Kilwinning, appointed by the other fagitives to wait on her, till they had meanly consented to acknowledge, in the presence of the French and Spanish ambassadors, who accused ber of fomenting the troubles in Scotland by her intrigues, that she had given them no encouragement to take up arms. "You have spoken the truth!" replied she, as soon as they bad made this declaration: "I am far from setting an example of rebellion to my own subjects, by countenancing those who rebel against their lawful sovercign. The treason of which gou bave been guilty is detestable; and, as truitors, I banish you my
tpresence," Ilaving exculpated herself, as she imagined, by this secrie of liypocrisy, she eaforded to the rebels a safe refuge in her territories, und prinately supplied them with Eutficient sums for their maintenince.

In the next year, 1566, Mary joined the confedericy, which bad been formed between thie cosorts of Prance and' Spain, for the extermination of the Huzouots in France, tha protestaits in the I.ow Countries, and the extinction of the reformed opinions throughout all Europe.

How far Mary mas acquainted with the seeret designs of the confederates, lins been much disputed; but if it be admitted that she was thorougly inforiued ou the subject, it must follow, that all her seeming liberality of conduct was only a veil of deep dissimunition, to cover purposes of violence and craelty.

Whatever designs she might liave formed against the protestants in general, or thic banished lords in particolar, they were all speedily frustrated by the murder of Devid Rizeio, the son of a teacher of music at Turin, and himself a musician. Rizzio liad of. coinpanied the Piedmontese ambassador into Scotland, where he gained admittance fato the queen's family, by his skill in lis profession ; and as Mary found him Decessary to complete her musical band, she retained him in her service, by permission, after the departure of his masten. Shrewd, supple, end aspiring beyond his condition, he quicils erept into the quecn's fivour ; and her French sccretary happening to retire into his own country, she promoted Rizio to that office, which gave him frequent opportunitics of approaching her person, and of insinuating himself still father into her goorl graces. He nuir began to make a figure at court, and to appear as a man of weight and consequence : and be availed limself so well of the access which fortune had procured him, that be was soon regarded, not only as the queen's chief confidant, but even as het minister. To him the whole train of suitors and expectants applied; and, among tiie rest, Darnley, whose marriage Rizio promoted, in hopes of acquiring a new patron, while he co-operated with his mistress's wishes.

But this marriage, so natural and so inviting in all its circumstances, disappointed the expectations, both of the queen and her favourite, and terminsted in events the most shocking to humanity. Allured by the stature, symmetry, and exterior accomplishments of Darnley, Mary, in her choice, bad averlooked the qualities of his mind, which corresponded ill with those of his person. Violent, yet variable in his tewjer, she could neither by her gentleness bridle his insolent and imperious spirit, nor preserve him, by her vigilance, from rash and imprudent actions. Of mean understanding, but, Yike most fools, conceited of his own abilities, he was devoid of ull gratitude, thecuuse be thought no favours equal to his merit ; and, being addicted to low pleasures. to drunkenness and debauchery, he was incapable of eny true sentimens of love or tenderness. All Mary's fondness and generosity made no lasting impression on suclk a beart. He became, by degrees, careless of her person, and a stranger to her company. To a woman and a queen, such behaviour was intolerable; but mere especially to Mary, who possessed great sensibility of temper, and who, in the first effusions of her love, had taken a pride in exalting her husband beyond measure. She had granted mom the title of king, and bad joiaed his name with her own in all publie acts, Her
disapp, cihted passion was therefore as violent, when moused into resentment, as ber first uffection had been strong; and iis behaviour appeased ungencrous and criminal, in proportion to the distance slie had stuoped to raise him, and the honour and consequence to which she had lifted him.

Tice beart, sore from the wounds and the agifations of unrequitad love, nuturally secks the repose, the consolation, and the lenient assuasives of frieniship. Rizzio still possessed the confidence of Mary; and as the lirutal behaviour of her husband rendered a confidant now more necessar], sh- seems not only to bave uade use of her secretary's company and his musical talents,' to sooth her disquieted bosom, but to have imprudently shared with him her dowestic griefs. To suppose that he also sienred her embriges, is to offer an injary to her character, for which history affords no proper foundation. But the assuming vanity of the upstart, who afficted to talk often and fomiliarly with the queen in public, and who boasted of bis intimacy in private; led the dark and suspicious mind of Darnley, who, instead of imputing Mary's coldness to his own misconduct, which had so justly deserved it, to ascribe the change in her behaviour, so different froun the first and happy-days of their union, to the infloened of a new passion. The rigid aosterity of the Scottish clregy, who could admit of no freedoms, contributed to spread this opinion among the people, ever ready to listen to any slander on the court; and the enemies of the favourite, no less ready to take advantage of any popular clamour, made it a pretence for their unjust and inhuman vengeance.

Rizzio, who had connected his interests with the Roman catholics, was the declared enemy of the banished lords; and, by promoting the violent prosecution against them, be had exposed biaself to the animosity of their numerous friends and adherents. Among these were the lords Ruthven and Lindsay; the earl of Morton, and Maitland of Lethington.

While they were rominating upon their grievances, and the means of redress, thie king communicated his resolation to bo revenged of Rizzio to lord Ruthven, and implored his assistance and that of his friends toward the execution of his design. Nothing could be uiure acceptable to the whole party, than such an overtore. The inurder of the favourite was iustantly agreed upon, and as quiekly carried into execution. Morton baving secured the gates of the palace with 160 armed men, the king, accompanied by the other conspirators, entered the queen's apartment by a private passage, while she was at supper with ber natural sister, the countess of Argyle, Rizzio, and a fow more of her courtiers. Mary, who was now in the sixth month of her pregnancy, alarmed at such an mousual visit, demanded the reason of the rude intrasion. They answered her by pointing to Rizzio; who immediarely apprehending that he was the devoted victim, retired behind the queen's cliair, and seized,her by the waist, hoping that the resprect due tò her royal person, would prove some protection to him. Bot the conspirators had gone too far to be restrained by punetilios. George Douglas, one of their number, laying hold of Darney's dagger, stuck it in the body of Rizzio; who, screaming with fear and agony, was torn from Mary, and pushed into the antichamber, where he was dispatched with many wounds.

When the first tumult of grief, anger, and astonishment had subsided, Mary took Vol:
thio most effictual imenasues to deliver herself from that state of danger and confinement m which she was now phaced. She artfilly en mest her bustaad to disomn all connection with the con-pinatoms. whom, he promisel to protect ; to deny any concurrence in their crime: nav, to pablish ia procla mation containing so autarious a fulsehood. She became reconcifed to the banisted ionds, and permitted them to bo reat stated in their honours and fortones. The secompliees in liazziv's murter, who lend fled iqto Enylgnal on being deseried iyy Darniey, also appoliexi to her for pardon: sud although she af first retased compliance, sine aftervard. Aterough the intercession of Bothwell. a new favourite, whe was desirous of strengtiening his party by the accessiva of their imeres, permitted them to retum into their awn country.
The hour of Mary's labour now ampoached ; and as it sermed imprutent to expose her person, at such a times to the insalts which she might suffic in a himgdurs cons ly factions, she left the palace, and made the caste of Edinhurgh the place of her reeidence. There she was safely delivered of a son ; and this being a very umpartant event to England, as well as to Scotland, she instanty dispateceed sir Jamer, Melvil to London with the interesting intelligence. It struck Elizabeth furcibly and by surprise. She had given a ball to her court at Greenvich on the evening of Melvils, arrival and was disphying alt that spirit and gniety which usualls attended here ot such ocrasmas; but no sooner wis zhe informed of the sesince of Scotland's bithe thas all her vivacity ieft her. Sensibie of the superiority ber rival had now acguired, she sumh into deep uelancholy ; sle reclined her head upon her hand, the teass trickling down ber cleeks, and complained to some of her ottendants, that the queen of Seots was mother of a fair son, while she herself was but a barren stock. Next morning, however, at the audience of the ambassador, she resumed her wonted cheerfulaess and divsimulation; thanked Melvil for his haste in bringing her such agreeable nens, and expressed the most cordial friendstip for her sister Mary.
The birth of a sca, as Elizabecth foresav, save additional zeal, as well as weight to the partizans of the queeh of Scots in England; and evea mea of the most opposite parties began to cail aloud for some settlement of the crown. Even the more moderata protestants, soothed by Mary's lenity to her own subjects, concurred with the catholics in supporting her chaim. Nor would all the policy and address of Flizaterth have been able to prevent the settlement of the crown on her rival, had not Mary's inciscretions, if not her crimes, thrown her from the very summit of prosperity, and plunged her in infany and ruin.
Jobn Hepphrm, earl of Rotbwell, the head of an antient fami'y in Scotland, but a man of prolizate mamers, and by no means eminent for talents, cither civil or cuilitary, had distinguished hinself or his attachment to the queen; and, since the death of Rizzio. from the custody of whose murderers he had been the chief instrument of releasing her, Mary lad loated him with particular marks of her favour and conffience, Her friends attribate this conduct to her gratitude towards her deliverer; while her enemies, whose number has of late been much diminished, do not scruple to assign for its caase, an unlawful affection for a worthless favourite.

Henry, unable to bea: that insignificance into wiich be had fillen, left the court, and
futired to Ghascow, where 'Ho was seized with an unusual distemper. The queen have ing paid him or visit during his sickoess, and diseovered great auxioty for his recovery, he accomaziaid her to Edinbargh, as som as he could be moved, in order that she hereelf roigitt be able to attend nim, without being absent from her son. He was lodgod is a solitary house, called the Kirk of Field, at some distance from the palace of Holyrool housc. There be was assiduously attended by Mary, who slept several nights in the chamber under his apartment. But on the ninth of February, about d vin o'clock at nistht, she left the Kirk of Field, in order to be present at a thask in the palace; and about two a'clock next morning the house in which the hing fay was blown up with gunpowder, and his dead body found in a neighbouring certonure.

The eail of Bothwell, who was gnerally accused as one of the authors of this murder, nut only found means to avoid a fair and legal trial, but received the government of the castle of Edinburgh, which gave him the entire command of the south of Scotlanal. Mary was afterward carried off by bim, in returning from a visit to her son ; sli lived with him sometime in a state of supposed violation ; though, as suon as he could procure a sentence of divorce from a young lady of distinguished virtue and merit, she tave her hand to this reputed ravisher and regicide, at the request of those very nobles, who afterward made this action a pretext for rebellion.

A considcrable body of nobles assembled at Stirling, and entered into an association for the defence of the prince's person, and the punishment of the king's murderers. To guard against the consequences of this league, Mary issued a proclamation, requiring her subjects to take arms, and attend her husband by a day appointed. Finding, however, that the associated lords had collected an army before they were in a condition to fuce them, the queen and Bothwe!! fled to Dunbar, where they gathered such strength as emboldened them in leave the town and castle, and advance loward the confederates

The two armies net at Carberry hill, about six miles from Edinburgh, were nearly coual in numbers, and discovercd but little inelination for fighting. The quecn, finding berself unable to animate her followers, held a conicrence with Kircaldy of Grange, one of the chief of the confederates, and put berself, on certain general promises, into their hands.

Sothwell, during the parley, left the field, and was suffered to retire unpursued. He tled to the Orkneys, and subsisted by piracy, till, being captured by the Danes, he perished miserably in prison, after a long confinement Meanwhitc, the quern of Scots was treated with the greatest indignity, confined in the castle of Lochlevin, and compelled, by the threats of lord Lindsay, to resign Ler crown, appoint the earl of Murray regent, and consent that her infant sonshould be proclaimed king, by the name of James VI.

A parliament, summoned by the earl of Murray, declared this resignation valid, and her imprisonment lawful, while it recognised his election to the office of regent; pud, -being a man of vigour and abilities, he applied himself successfully in reduring the kingdom to obedience.

In May, next yean, Mary escaned from her continement, and soon found herself at: tended by a powerful aray. Her resigmation of the erown, which she declared to be extorted from ber by fear, was pronoanced to be illegal and void. by a council of the mobles and chief men of her jinty; and an association was formed for lier defence, and subseribed tee vine earls, wine bi-hops, eighteen lords, and many gentlemen of distinction. Murray, however, soon tonk the' fiold, with in ariny far inferior to Mary's in number; sud a battle was fougit at Langlide, near Glasgow, which was decisive in his favour, and was followed by abe total ruin of the queco's party.

Unailing to behold the destruction of her friends, Mary fled with precipitation from the scene of action, $t$ and soon after. determining to trust the generosity of her cousin Blizabeth, entered the English territories. Generosity had, however, but little influence on the heart of Elizabeth, who hated Mary for her beauty, for her religion, and lier pretensions to the crown. Mary was, therefore, detained a prisoner, removed from one place of security to another, arraigned before commissioners, who are said to have received forged documents of her eqilt, and at lenjeth delivered froun this tedious capivity, by a death still more cruel and unjust than the captivity itself.

Scotland, ia the mean time, was governed by a succession of regents. Murray, who yas one of the most violent enearies of Mary, and died by the hand of an assassin, in 1570. Lenox, the fither of Darnley, who was slain by some of the queen's party, in 1572. Marre, who died of melancholy, at the distracted state of his country: and Morton, who perished, as will be hereafter related, on the scaffold.

After these events, both Seotland and England enjoyed some years of tranquillity: Elizabeth bad now an opportunity to cultivate the arts of peace, and increase the prosperity of her own kingdom, by taking advantage of the effeets which eivil tyranny and theological bigotry were producing in the domimions of her neighbours. She supplied the Hugonots with considerable suns of money, notwithstanding her negotiations with the court of France.

Elizabeth had given protection to all the Flemish exiles, who took shelter in ber dominions; and as many of these were the most industrious inhabitants of the Netheilands, then so celebrated for its manofactures, they brought along with them several useful arts, hitberto unknown, or but little cultivated in England. The queen had also permitted the Fiemish privateers to enter into English harbours, and there dispose of their prizes. But, on the remonstrance of the Spanish ambassador, she withdeew that liberty; a measure, which, in the issue, proved extremely prejudicial to the iaterest of Philip.

In 1375, the-revolted provinces were reduced to so great extremity, that they saw the necessity of foreign ascistance, in order to preserve them from final ruin; and they: seat a solemn enibassy to Elizabeth, their most natural ally, offering her the sovereignty of 11 Hland and Zealind, if she would employ her power in their defence. But that princess, though inclined, by many strong motives, to accept of so liberal an offer, refused, in positive terms, the sovereignty proffered her; but told the ambassador, That, in return for the good-will which the prince of Orange and the States had shewn her, she would endeavour to mediate an agreement for them, on the best terms possible.

Sies accordingly dispatched sir Henry Cobham to Pidip, who took her wedintion in good part, but no aecommodation ensued. Three years after, hovever, slie jodged it piadent to change her measures, entered into alliance with the provinces, sent them over a 'sum of money, and after a body of troops.

Till the year 1589, England continued to enjoy tranquility. But the prospect now begon to be overeast; and Elizabeth saw dangers gradually multiply on her, from more than one quarter. The earl of Lenox, cousin-german to the young king of Scotland, and captain Stewart, of the house of Ochiltree, afterwand eart of Arran, had frund weans to detach James from the Eaglish interest: and; by their intrigues, the earf of Morton, who, during bis whole regency; had preserved that kingdom in strict allinnck nith Elizabeth, was brought to the scaffold, as an accomplice in the murder of the late king.

A body of the Scottish nobility, however, dissatisfied with the new administration; which was entirely directed by Lenox and Arran, formed a conspiracy; probably with the concurrence of Elizabeth, for seizing the person of the king, at the castle of Ruthven, the seat of the earl of Gourie; and the design lieing kept secret, suceceded without any opposition. James, who was ebont 12 yenrs of age, went, when he found limself detoined a prisoner ; but no compassion was shown lim. "Mind not bis tears," sasid the master of Glamis: " better that boys should wreep thm bearded mien." The king was obliged to submit to the present necessity; to pretend an entire aequiescents in the conduct of the conspirators, and to acknowledge the detention of bis person is be an acceptable service. Arran whs colifined a prisoner in his own house, and Lenox retired into Prance, where he sonn after died.

But the affairs of Scotland remaiued not long in this situation. James, irmpatient of restraint, made his escape from his keepers; and flying to St. Andrew's, summoned his friends and partizans to attend him. The earls of Argsle, Marital, Montrose, and Rothes, hastened to pay their daty to their sovereigo ; and the opposite party, fuding themselves unable to resist so powerful a combination, took shelter in Eagland The earl of Arran was recalled to court: a new attempt to ditarb the government was defeated; the earl of Gowrie, its reputed author, was brongth to the block; and severs laws were passed against the presbyteriai dengy, who bad appluodedt thic Ruid of Ruthven, as the late conspiracy was colled.

While these things were transacting in Scotlanil, the king of Spain, though he had not yet come to an open fupture with Elizabecth, sent, in the name of the pope, a body of 700 Spaniards and Italians into Ireland, in order to retaliate for the assistance which she gave to this rebellious antjects in the Low Countries. But the invaders, though juined by many of the discoutented Irish, wete all cut off to a man; hy lord Grey, the gueen's deputy, and 1500 of the rebels were hanged; a severity which gave great displeasure to Elizabeth,

When the English ambnssnilor, at the court of Madrid, complaibed of this jinvasion: he was ans dered by like complaints of the piracies of Francis. Drike, a bold navigaton, who had passed into the Soyth Sea iby the straits of Magelian, and, attacting the

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Spaniards in those parts, where they teast expected an eviemy, fold token many rich prides, anid retorned home safely by tho Cape of Gond Ilope, ins Septenituer, 1:880. Ws becuas the tirst Eingtisiman who Imad circtunavigated the - tote, his mane became celebrated on account of so hazardoss and fortunate un adventure; and the queen, who toved valour, and heped to shave in the ispoil, confeired on lifu thic honour of knighthood, and accep diof a banquet from Nimion board the slip whichetict perfotmed so memorablea voyage, Sheicaused, however, part ot the bonty to bs-restored, in order to appesse the datholie king.

Bot Elizabeth's dangers from sloroad might have heen regarded as of small importance, fad her ownsutujects been united at home of Unhappily, that was not the case: the zea! of the catholies, excited by egnstraint rather than persuciation, daily threatened her with an lusurrection. 'Not satisficd with incessant outcries against her severity tonards the pueen of Scots, sand/against the oourt of High Commission (an ecelesiastical tribunal, erected thy Eifeabeth for taking cogpizance of non-eonformists, and which was certuinly too arbitrary), the Romish priests, especially in the foreign seminaries for the education of Englisi studeats of the eatholic comunion, endeavouivd to persuade their disciples, that it wfiuld be a meritorious action to take awiay her life. This opinion was inbibed by Wiltiau Parry, an English gentleman, anit a convert to the catholic faith. The poper hinself exhorted hiin to persevere, and granted thim, for this enconragement, a plenary induigence, and remission of lis sins. Though still agitated with doubts be cawe over to England, with an intention of executing his bloody pur:pose. . Bat huppily his irresolution coatinued; and he was at last hetriyed by one Nevil, of the family of Westmoreland, to whom he had communicated his designi Being throwa iuto prison, he coufessed this guilt ; received sentence of death, and suffered the punishoment directed by the law for his treasonable conspiracy.
Anthóny-Babinigton, also, a young gentleman of Derbyslire, instigated by Jolih Ballard, a popistipuriest, of the seminary of Rheims; engaged in a conspiracy against the life of lhis sovereign, as a necessary prelude to the deliverance of the queen of Scots, and the revestablistiment' of the catholio religion in England; and so sure did be thinik himself of success, aind so meritorious his undertaking, that, in order to perpetuate thie minniby of it, be caused a pietore to be drawn, in which be was ropresented standing amidst his six confederates, with a motto, expressing that their conmon dainger was the bondtof their fidelitebu Happily, the plot was discovered, by the vigilance of steretary Wakinghain ; and Bahington, with is others, umong whoun was Ballard, suffered death for their treisonable dusign.
-The seene that followed was new and extraordinary. On the trial of the conspirators, it ifs said to bave appeared, that the queen of Scots, who had held a correspondence with Babiogten, had encouraged himin his enterjrize; and it wast resolved, by Elizabeth and her ministers, to bring Mary also to a public trial, ins be ing, accessary to the conspiraty. Wher papers were accordinaly seized, lier principal doméstics arrested, and her two secretaries sent prisoners to Londoh. After the necessary information hided been obtained, 40 cotmmissioners, appointed onder the gigeat seal, together with
five of tie judges, were scat to Fotheriagay castlej where: Mary ithas inoiriconfided; to


An idea so repugnant to majesty, as being arraigaed for treason, liad not once entered the mind of the quern of Scots, thopgh she no longer doubted but her destructiou was deterwined on: nor had the strange resolution yet reached ber ears, tin the solitude of therpris $n$. She received the intelligence, however, without emotion or astovishment; and she protested, in the most solemn manaer, that she never countenanced any attempt against the life of Elizabeth, at the same time that she refused to ackrioniedge the jurisdiction of her commissioners. "I came into England," said she, " an independent sovercign, to implore the queen's assistance, not to subject myseff to her authority; nor is my spirit so broken by misfortunes, or so intimidated by prerent dangers, as to stoop to any thirg unbecoming the majesty of a crowned head, or that will disgrace the ancestors from which I am descended, and the son to whom I shall leave my throne. If I must be tried, princes alone can be my peers. The queen of England's subjects, how noble soever thein birth may be, are of a rank inferior to mine. Ever since my arrival in this kingdom, I have been confined as a prisoner. Its laws never pfforded me protection; Itt them not now be perverted, in order to take away my life."

Mary, however, was at last persuaded to appear before the commissionery," "to hear and to give auswer to the accusations which should be offered against her," though she still refused to acknowledge the jurisdiction of the court. The ehancellorl endeavoured to vindicute its authority, by pleading the supreme jurisdiction of the English laws over every one who resided in England. The lawyers of the crown opened the charige against the queen of Scots; and the commissioners, after hearing her defence, and adjourning to Westminster, pronotinced sentence of death upon that unfortunate priticess, and confirued it by their seals and sabscriptions: The chief evidence against Mary arose from the declaration of her secretaries; for no proof could othervise be produced, that the letters from Babington were delivered into lier huinds, or that any answer was returned by her direction: and the testimony of two witnesses, even though men of chavacter, who knew thenselves exposed to all the rigours of imprisonment; torture, and death, if they refused to give any evidence which might be required of them, was by no mean conclusive. In oriler to screcn theaselves, they might thimow the blame on her; but they could diseover nothing to ber prejudice, utithout violiting that oath of fidelity, which they had taken, in consequence of their office; and their pere jury, in one instance, rendered them unworthy of credit in anuther. Besides, thiey were not contronted with her, though slie desired that they might, and affirumed. that they would never, to lier face, persist in their evidence. But the condemination of the queen of Scots, not justice, was the object of this unprecedented trial; and the sen ${ }^{3}$ tence, atter many hesitations and delays, was carried into execution.

Never did Mary appear so ereat, as in this last scene of her life; she was not only tranquil, but intrepid and magnanimois. When sir Andrew Melvil, the mater of ber househuld, wha bad been excluded for some weeks from her presence, was per-
mitted to take his last farewel; he burst into tears ; bewailing the condition of a mistress whom he loved, as well as his own hard fate, in being appointed to carry into Scolland the newsi of such a mournful event, as the catastrophe that awaited her. " Wecp not, good Melvil," said she, " there is at present greater cause for rejoicing. Thou shalt this day seel Mary Stuart delivered from all her cares, and such an end put to ber tedious sufferings, as she has long expected. But witness, that I die constant in my religion, firm in my fidelity towards Scotland, and unchanged in my affection to France. Coumend me to my son; tell him I have done nothing injurious to his kingdom, to his bonours, or to his rights; and God forgive all those who have thirsted without cause formy blood."

- On ascending the scaffold, she began, with the aid of her' women to take off her veil and upper garments ; and the executioner, rudely endeavouring to assist them, she gently, checked him, and, smiling, said, "I have not been accustomed to undress before so many spectators, nor to be served by such valets !" and soon after laid her hiead on the block, with calm but undaunted fortitude
ELizabeth, when informed of Mary's execution, affected the utmost surprise and concern. Sighs, tears, lamentations, and weeds of mourning, were all emplojed to display the greatness of her sorrow. Shie even undertook to make the world believe, that the queen of Scots, lier dear sister and kinswoman, had beeen put to death witliout her knowledge, and contrary to her inclination; and, to complete this farce, she commanded Davison, her secretary, to be thrown into prison, under pretence that he had exceeded his commission, in dispateling the fatal warrant; which, although she had signed, slie never meant to carry into execution.

This hypocritical disguise was assumed chiefly to appease the young king of Scotland, who seemed determined to employ the whole force of his dominions, in order to revenge his mother's death. He recalled his ambassador from Eogland, refused to admit the English envoy fato his presence, and with difficulty condescended to receive a memorial from the queen. Every thing bore the appearance of war. Many of his nobility instigated him to take up arms immediately, and the catholics recomuended an alliance with Spain.

Elizabeth saw the danger of sueh a leaguc, After allowing James some decent interval to vent lis grief and anger, she employed her emissaries to set before hifin every motive of hope or fear, which might indace him to live in amity with ber; and these, joined to the queen's dissimulation, and the pacific disposition of that priuce, prevailed over his resentment: be fell gradually into a good understanding with tho court of England.

While Elizabeth was thus ènsuring the tranquillity of her kingdom from the attempts of her nearest neighboar, she was nut inattentive to more distant dangers. Hearing that Philip was secretly preparing that prodigious armament, which had for its object no Ioss than the entire coniquest of England, she sent ir Francis Drake with a fleet to intercept his supplics, to pilloge the coasts of lis dominions, and destroy his slipping : an. i chat gallant commardier, besíles other advantages, was so successfal as to buri,
the the harbour of Cadiz, an hundred veesels ledear with emmunition and navalistores. Ahort the same time, Thomas Cavendish, a private adventurer, launched inta the South Sea is three small ships; equmitted great depredations on the Spaniards in those parts; 'took mony rich prizes; and returning by the Cape of Good Hope, entered the Thames in a kind of triumph.
By these fortunate cuterprizes, the Euglish seamen learned to despise the large onvichldy stifs of The enemy, in which chiefly they placed their hopes of sucees.s. The nayal uagazines of Spaiu were destroyed, and means were taken to prevent Philip from being abte suddenly to repsir the loss, by an artificial run upnn the bank of Genoa, where he expected a large loan ; a measure which was conducted by an English merchant. in conjunction with his foreign correspondents, and does great bonour to the sagacity of the English ministry.

The sailing of the Armada was retarded for 18 months; and the queen had thereby leisure to take more effectual measures agginst that formidable fleet and army, intended for the invasion of her kingdom.

Meanwhile, Pailip, whose resolution was finally taken, deternined to execute his ambitious project with all possible force and effect. No longer secret in his purpose, every part of his European dominions resounded with the noise of armaments, and the treasures of both Indies were exhausted in vast preparations for war. In all the ports of Sicily, Naples, Spain, and Portugal, artizans were cmployed in building vessels of uncommon size and force ; naval stores were bought ap at great expence; provisionsamassed; armics levied, and quartered in the maritime provinces; and plans laid for such an enibarkation as had never before appeared on the ocean. The avilitary pre-r parations in. Nlinders were no less formidable. Troops from all quarters were every moment assembling to reioforce the duke of Parma; who employed all the carpenters he could procure, in building flat-bottomed vessels, to transport into England on army of 3500 men, assembled in the Netherlands: This fleet of transports was intended to' join the grand Armada, vainly denominated invincible, which was to set sail from Lisbon ; and after chasing out of the way ail the Flemish and Englishevessels, which it was supposed would make litile, if any, resistance, to enter the Thames; to land the whole Spanisharmy in the peighbourhod of London, under the command of the duke of Parma, and other experienced officers; and to decide, at one blow, the fate of England, The success of the enterprize was never called in question; so that several : Spanish and Italian noblemen embarked as volunteers, to share in the glory of so great a conquest.

Eizabeth was apprised of all these preparations. She had foreseen the inva sion ; nor Was she dismayed at the aspect of that-power, by which all Surope appretiended she must be overwhelmed. Her force was isdeed very uncqual to Philip's all the ssilors in Eugland did not then exceed 15,000 men \& the royal pavy consisted only of 28 sail, many of which, syere of small size, and noge of them exceeded the bulk of our langest fripates. But the city of London fitted out 30 vessels to reinforce this sipall navy; the other sea-port towns a proportional number; and the nobility and gentry bired, armed, and minned, 43 ressels at their own charge. Lord Howard of Effinghiam, a man of Vol. I.

## BRTIISH EMPIRE

eourage apl capacity, was appointed admiral, and took on him the chief coimmand; Drake, Hawlifas, and Frobistere the most renowned seamen in Earope, served undec him. The principal fleet was stationed at Plymouth; and a smaller squadron, commanded by lord Seymoure lay off Duokirk, in order to intercept the duke of Parma.

The Imnd forces of England were more numerous than those of the enemy, bat infetior in discipline and experience. Ar nmyy of 00,000 men was disposed in differeat bodies along tha south coasth, with oraers to retire backwards, and waste the coonky, if they could not prevent the Spaniards frow landing; 29.000 foot and 1000 horse; under the command of the earl of Icicester, was stationed at Tilbory, in order to desend the capital; and the principal army, consisting of 34,000 foot, and $£ 000$ hone, commanded by lord Hundson, was reserved for guanding tire queen's pers33, and appointed to march whithersoever the enemy should appear.
These armies, though all the Spanish forees inad been able to land, would poscibly have been sufficient to protect the liberties of their country, Rut as swe fate of England, in that event, must depend on the issue of a single battle, all men of serions reliection entertained the most awfinl appreliensiogs of the shock of at least 50,000 veterans, commanded hy experienced officers, under so consummate a geveral as the duke of Parma.
The queen alone was unduunted: she issued all her orders with tranguillity, animated ber people to a steady resistance, and employed every restource, which enlier her domestio situation or lier foreign alliances could afford'l her. She even appeared on horseback in the camp at Tilbary; and riting throagh the lines, disecwered a

- cheerfol and animated countenance, exhorting the soldiers to remember their duty to their country and their religion, and proiessed her intention, though a noman, to lead * them herself into the field against the enemy, and rather perish io battle than survive the ruin and slavery of bes people, "I have but the weak and feeble arm of a womans but I bave the heart of a king, and of a king of Eingland tool". The heroic spirit of Eliabeth communicated iteolf to the army, and every man resolved to die rather than desert his station,

Meaanbile, the Spanish Armada, after various obstructions, appenred in the Channel. It consisted of 130 vessels, of which near 100 were gallicons, and carried about 20,000 land forces, Effingham, who was informed of its approach by a Scotch pirate, saw it, just as he could get out of Plymouth Sound, coming full sail zawards hin, disposed in the form of a crescent, and stretching the distance of seven miles, from the extremity of ene division to that of the othen The lofty masts, the swelling sails, and the towening prows of the Spanish galleons, seem impossible to be justly described by the histurians of that age, without assuming the language of poetry. Not satisfied with represeatiog the Armada as a spectacle infusing equal terror and admination iuto the minds of all beholders, and as the most maguifigent that had ever appeared on the main, they assert, That, although the ships bore every sail, it yet ad veuced wibh a slow motion, as if the ocean had groaned with supporting and tho whats been tired with impelling so enormous a weight. The. English admiral at first
gave orders not to come to close fight with the Spaninrds, on aceprat of the size of their ships, and the, number of soldiers on board; but a for trials conviticed him, that Thein Bulk exposed them to the fire, whila thein cannon, placed too high, shot over tho heads of the Englisth men of war.

Every thing conspired to the ruin of this vast armanent. Sir Prancis Drake took the great galleon of Audalusia, and a Inrge stip of Biscay, which had fallen behind the rest; whilo the nobility and gentry hastened out with thicir vessels from every harbour, and reinfurced Effingham, who filled eight of his sualier slips with combustibles, and sent them into the midst of the enemy. The Spaniards fed with disorder and yescipitations: the Eniglish commanders fell upon them while in confusion; and, besides doing great damage to their whole fleet, took 12 ships.

It was suow evident that the purpose of the Armada was utterly frustrated; ond the duke of Parma, whose vesseis were calculated for transportiug soidiers, not for fighting, positively refased to leave the harhour, while the Eaglish were masters of the sea. The Spanish admiral, after many unsuccessful rencounters, prepared therefore to make his way tiome ; but as the wiad was contrary to his return through the (Channrl, lie rssolved to make the circuit of the island. The English fleet fallowed thin for some time; aral had not their amsunition fallen short, through the negligence of the public wifticers in'supplying them, they had obliged the Arninda to surreader at discretion.
Suelra conclusion of that vain-glorious enterpriza must have been truly illuatrious to the Englisty, and the event was scaree less fatal to the Spaniardsn The Armada was attacked by a Fiolent storm in passing the Orkneys; and the ships having already lost their anchors, were obliged to keep at sea, while the mariners, unaccustomed to hard-ships,-and unable to manage such unwieldy vessels, allowed them to drive on the western isles of Seotland, or on the const of Ireland, where they wero miserably wrecked. Not one half of the fleet retarned to Spain, and a still sumaller proportion of the soldiers and seamen : yet Philip, whose command of temper was equal to his ambition, received. with an air of tranquillity, the news of so humbling a disaster. "I sent my fleet," said be, "t to combat the Faglish, not the elements. God be praised that the calamity is not greater.!
The leading characteristics of Elizabeth's administration were: economy and vigonts By a striot attention to the first, she was able to maiatain a magaiticent court, and to surpport the persecuted protestants in France and in the Low Countries, without oppressing her-poople, or involving the crown in debt; and by a spisitod Exertion of the second, shie hambled the pride of Spain, and gave atability to her throne, in spite of all the machinations of her enemies, After informing berpmarianient of the negcessity of continuing the war against Philiph and how little she dreaded the power of that monarch, even though he should make a greater effort than that of lis Invincible Araiada, she concluded thus :/ "But I am informed, that, when he /attempted this last invasion, some upon the sea-coast forsoble their towns, fled up higher into the country, and left all naked and exposed to his entrance ; but I swear unto you, by God $t$ if I
know thas persons, or may know of any that shall do so tiereafter, I will make them feel whiat it is to be fearful in so urgent a case."
N- Nlizabeth's frugality in the administrition of goveroment seems less, liowever, to have proceeded from Iesity to lier people, than from a fear of bringing lierselt under the power of the commons, by the necessity of soliciting darger supplies, and thereby cudangering her royal prerogative, of which she was alvoys remarkably jealous, and which she exercised withe a high hesid, Numberless instancen of this occur during her reigh. Pesides erecting the court of higli commission, which was vested with admost inquisitorial powers, and supporting the arbitrary decrees of the Star Chamber, she granted to her iservants and courtiers patents for monopolies, which put insincible restgaints upon all commerce, industry, and emmlation in the arts: and enablod those who possessed them, to raise commodities to what price they pleased. Salt, in particular, was raised from sixteen-pence a bushel to fourteen or fifteen shillings, and several other articles in proportion. Almost all tie necessaries of life were thius monopolized, which made a certaju member ery out ironically, when the list wss read over in the house, "Is not luread among the number."

These grievances were frequently complained of in parliament, but more especiallj by the puritans, a religious sect, who instatained, as the name ininorts, that the church of England was not yet sufficiently purged from the errors of popery, and who carricd the same bold spinit that dictated their theological opinions into their political specorlations. But such complaints were made at the peril of the members, who were frequently committed to custody, for undae liberty of speech ; and all motions to remove these cnormons grievances were suppressed, as attempts to invade the royal prerogative. the queen herself, by messages to the honse, frequently admonisthed the conmons, "Not to meddle with what in no wise belonged to them, (matters of state and religion, and what did not lie witthin the compass of their understandings ${ }^{\prime \prime}$ "and she warued thea, " since weither her commanis, nor the example of their wiser brethren (those deyoted to thic isurt), could reclaim their audacious, arrogant, atal presumptuens folly, that some other species of correction must be found for them."
These messages nere patiently received by the majority of the house. Nay, it wis asserted, "That the royal prerogative was not to be canvassed, nor dispated, nor examined, and did not even admit of any limitation; that absolute princes, sueh as the sovereigns of England, were a species of divinity ; that it was in vain to attempt tying the quecn's hands by laws or statutes, since, by her dispensing poiwer, she conld leosen herself at pleasure!"
But the puritans, who alone possessed any just sentiments of freedom, and who employed all their industry to be elected into parlimment, still lazzarded the atmost indignation of Elizabath, in vindicating the natural rights of mankind. They continued to zeep alive that ptecious spark of liberty nhieb, they had rekindled; and which, burnting fiercer from confinement, broke out intom biaze under thic two saccyeding reigns, and geitated, but not smothered by opposition, consumed the etrarch and monarchy; from whuse ashes, like the fabled phoenix, singly te arrest the admiration of ages, sprung oute present glorivos and happy constitution.

## BRITISH EMPIRE.

Among the subjects which Elizabeth probibited the parliament from taking into conaideration, was the succession to the crown. Bet as all danger from a rival claim Lad expired with the queen of Scots, a motion was made by Peter Wentworth, a puritan, for petitioning her majesty to fix the succession; which, though in itself sufficiently respectfut, incensed the queen to such a degree, that she ordered Wentworth to be sent to the Tower, and all the members who seconded lim to the Fleet. Her malignity against Mary seems to have settled upon her son James ; for she not enly continued to avoid achnowledging him as her successor, though a peaceable and unaspiring prince, but refused to assist him' in suppressing a conspiracy of some catholic noblemen, in conjunction with the king of Spain, their common eneary. She endeavoured to keep him in perpetual dependence, by bribing his ministers, or fonnenting discontents among his salyects; and she appears to have beeir at the boltom of a conspiracy, formed by the earl of Gowrie, for seizing the king's person ; though not, as commonly: supposed, with a design to take away his life.

Meanwhile, Elizabeth's attention was much occupied by the affairs of Ireland, where the English sovereiguty had bitherto been little more than nominal. The lrish princes and nobles, divided among themselves, readily paid the exterior marks of obedience to a power, which they were not able to resist; but as no durable foree was ever kept on foot to retain them in submission, they still relapsed into their former state of barbarous independency. Other reasons comspired to prevent a cordial union. The small army, which was maintained in Ireland, never being regularly paid, the officers -were obliged to give their soldiers the privilege of free quarters upon the natives. Rapine and insel nce inflamed the hatred which prevailed between the conquerors and the conquered, ind that, together with the old opposition of manners, laws, and interests, was now heightened by religious animosity, the Irish being still catholics, and in a great measure savages.

The romantic and impolitic project of the English princes for subduing Prance, occasioned this inattention to the affairs of Ireland; a conquest' pregoant with many solid advantages, and infinitely more suited to their condition. Elizabeth early savv the importance of that islnad, and took several measures for reducing it fo a state of greater order and submission. Besides furnishing her deputies, or governors of Ireland, with a stronger force, she founded an university at Dublin, with a view of introducing arts and learning into that capital and kingdom, and of civilizing the barbarous manners of the people. But, unhappily, sir John Perrot, in 1585, being then lord deputy, put arms inta the liands of the iahabitants of Ulster, in order to enable them, withont the assistonce of the English government, to repress the incursions of the Scottish islanders; und Philip II, having, about the same time, engaged many of the lrish gentry to serve in his armics in the Low Countries, Ireland, thus provided both with officers and soldiers, with discipline and arms, was thenceforth able to maintain a more regular war, and became more formidable to England.

Hugh O'Neale, the head of a potent clan, had been raised by the queen to the dignity of earl of Tyrone; but preferring the pride of barbarous licence and dominion Vol. 1.
to tha Dleasures of opulence and tran:quillity, he secretly fomented the disconten't of bis comairymeu, and formed the projeet of rendering himself independent. Trusting however, to the influence of his deceitful oaths and protestations, as he was not yet sufficiently prepared, lie surrendered bimself ioto the hands of sir William Russel, who had been appointed the queen's depnty in Ireland; and, being dismissed, in consequenso of these protestations of his pacific disposition, and retiring into his own country, he embraced the daring resolution of rising in open reliellion, and of relying no longer as the lenity and imprudence of his chemies. His success excecded his nost sanguias bopes. After amusing sir John Norris, sent over to reduce him to obedience, with treacherous promises and proposals of accommodation, by means of which the war was spun out for some years, he defeated the English army, under sir Henry Bagnal, who had succeeded to the command on the death of the gallant Norris, and who was left dead on the field, together with 1500 men.

This victory, which mightily animated the courage of the Irish, and raised the reputation of Tyrone, who now assumed the name of Deliverer of his Country, made Elizabeth sensible of the necessity of pushing the war by vigorous measures. And she appointed, at his own request, ber reigning favourite, the earl of Essex, ever ambitious of military fame, governor of Ireland, under the title of lord lieutenant ; vested him with powers almost unlimited; and, in order to ensure him success against the rebels, she levied an army of 16,000 foot aud 1300 horse. But Essex, unacquainted with the country, and misled by interested counsels, disappointed the expectations of the queen and nation ; and fearing the total alienation of ber affections, by the artifices. of his enemies, he embraced the rash resolution of returning home, expressly contrary to her orders, and arrived at court before any one was apprized of his intentions.

The sudden and unexpected appearance of her favourite, whose impatience carried him to her bed-chamber, where be threw himself at her feet, and kissed her hand, at first disarmed the reseatment of Elizabeth. She was incapable, in that moment of soft surprize, of treating him with severity : hence Essox was induced to say, on retiring, he thanked God, that though he had suffered much trouble and many storms abroad, he found a sweet calm at home.

Elizabeth, however, had no sooner leisure for recollection, than her displeasure returned. All Fssex's faults again took possession of her mind, and she thought it necessary, by some severe discipline, to subdue that haughty imperious spirit, which, presuming on her partiality and indulgence, had ventured to disregard her instructions, and disobey her commands. She ordered him to be confined; and, by a decree of the privy council, he was deprived of all his employments, except that of . Master of the Horse, and sentenced to remain a prisoner during ber majesty's pleasure.

Humbled by this sentence, bat still trusting to the queen's teaderness, Essex wrote to her, that he kissed her majesty's hand, and the rod with which she had corrected him, but that he could never recover his wonted cheerfulness, till she deigned to admit him to that presence, which had ever been the chief source of this happiness and
enjoyment. He had now resolved, lie added, to make amends for his past errers: to retire into a rural solitude, and say with Neluchadnezzar, " Let my dwelling be with the beasts of the field, let me eat grass as an ox, and be wet with the dew of heaven, till it shait please the queen to restore me to my understaning.

Elizabeth, who had always declared to the world, and even to Essox himself, thinethe purpose of her severity was to correct, not to ruin him, was much pleased nith these sentiments; and replied, that she heartily wished his actions might correspond with his expressions. Every one expected, that ha wrouhl soon to restored to his former degree of credit and favour ; nay, as is usual in reconciliations proceeding from tenderness, that he would acquire an additional ascendant over his fond mistress. But Eesex's enemies, by whom she was continually surrounded, fount means to persuade the queen, that his lofty spirit was not yet sufficiently subdoed; and, as a farther trial of his submission, she refused to renew a patent which he possessed for a monopoly of sweet wines. She even accompanied her refusal with an iasult. "An ungovernable beast," addes sibe, " must be stinted in its proveader."

Essex, wha had with difficuity restrained his proud heart so long, and whose patience was now exhausted, imagining from this fresh instance of severity, that the queen was become inexorable, gave full rein to his violent disposition, and threw off all appearance of duty and respect. Already high in the public favour, he practised anew every art of popularity. He indulged himself in great liberties of speech ; particularly in regard to the queco's person, which was still an object of her vanity, and on which she allowed herself to be complimented, though approaching to her 7oth year, And What was, if possible, still more mortifying to Elizabeth, he made secret application to the king of Scotland, her heir and presumptive successor, offering to extort an immediate declaration in his favour.

But Jamer, although sufficiently desirous of securing the succession of England, and though he bad negotiated with all the courts of Europe, in order to procure support to Lis hereditary title, did not approve of the violent means which Essex proposed to employ for that end. His natoral timidity of temper made lim averse against any boid expedient, and he was afraid, if the attempt should fail, that Elizabeth might be induced to take some extruordinary step to his prejudice. Nssex, however, continued to make use of that prince's claim, as a colour for his rebellious projects. A select conncil of malcoatents was formed; and it was agreed to seize the palace, to oblige the queen to remove all Essex's enemies, to call a parliament, and to settle the surcession, together with a new plan of government.

Elizabeth had some intimation of these desperate resolutions. Essex was summoned to attend the council; but he received a private note, which warned him to provide for his safety. He concluded that all his conspiracy was discovered : excused himself to the council, on acconat of a pretended indisposition ; and, as he judged it impracticable to seize the palace without more preparations, he sallied forth, at the head of about 200 -followers, and attempted to raise the city. But the citizens, though much altached to his person, shewed no disposition to join him. In vain did he tell them,

## BRITISH EMPIRE.

that his life was in danger, and that England was sold to the Spaniards. They forked about him in amazement, but remained silent and inactive ; and Essex, despaining of surcees, retreated with diffeculty to his owit bouse. There he seemed detemined to defend himself to the lust extremity, and rather die, like a brave man, with his sivard in his hand, that ignominionsly by the hand of the executioner; but, after some pariey, his resolution failed him, and he surrendered at discretion.

Orders wege immediately given for the trial of Essex, and the most consivierable of the other conspirators. Their guilt was too notorious to admit of any doubt, and sentence was pronounced accondingly. The queen, who had behaved with the utmost composure fturing the insurrection, now appeared all agitation and irresolution. The unhappy condition of Essex arrakened her fondness afresh: resentment aud uffection shared lier breast by turns; the care of her own safety, and concern for her favourte. She sigaed the warrant for his exccution, she countermanded it; she again resolved oh his death, she felt a new return of tenderness. She waited impatiently for the intercession of a friend, to whom she might yield that forgiveness, which of herself she was astamed to grant. No such friend appeared; and Elizabetl, imagining this ungrateful neglect to proceed from Essex's haughtiness, from a pride of spirit, which disflained to solicit her clemency, at last permitted the sentence to be put in execution. He was privately belieaded in the Tower, to prevent the danger of a popular insurrection.

Such was the untimely fate of Robert dEvreux, carl of Essex. Brave, gencrous, nffible, incupable of disguising his own sentiments, or misrepresenting those of others, he possessed the rare felicity of being at once the favourite of his sovereign, and the thurling of the people. But this so fortunate circumstance proved the cause of lus destriction. Confident of the queen's partiality towards fiim, as well as of his otto merit, the treated tier with a haughtiness, which neither her love nor ber dignity could bear; und, when his rashness, iuprudence, and violence, had exposed him to her resentenent, lie hoped, by means of his popularity, to make her submit to his imperious will. Hat the attuchment of the people to his person was not strong enough to shake their allegiance to the throne. He saw his mistake, though too late ; and his death was accompanied rith many circumstances of the most humiliating penitence. But his remarne unhuppily took a wrong direction. It made him ungenerously publish the name of every ohic to whom be had communicated his treasonable designs. He debased bis character, in attempting to make his peace with heaven; and, after all, it is much to be gquestioned, whatever fie might imagine in those moments of affliction, whether, in bewailing his crimes, he did not secretly mourn his disappointed ambition, and in naming his accomplices hope to appense his sovercign. But however that might be, it is sincercly to be lemented, that a person, possessed of so many noble virtues, should have involved, not only himself, but many of his friends in ruin.

The king of Scotland, who had a great regard for Essex, though be rejected his viokent counsels, no sooner heard of his criminal and unsuccessful enterprize, than he sent two ambassadors to the court of England, in order to intereede for bis life, as well iv ts congratulate the queen on her escape from the late insurrection and conspiracy.



A. D $160 \mathrm{~g}-\mathrm{O}_{16} 1608$ HItTISH EMPItE:

Bat these civogh arrived foblate to execute the finat pait of their inatructionsi, ind thierefore pedilently concealed it. Raimbeth received thioni with all possible miky of repect: and, dining sloefr residence in England, tivey formd the disposition of iten is finvoirnble as thiey could wish to tho Scottish succecsion. They even chiteret into h private comespondencs with secietary Cecil, son of the fate lord treasurer Herlejfi, whiase intluence, difter the fill of Kssex, wis uncontroulef. That profeund courtir: thiought it prutient to acquire, by this policy, the coatidonce of a priace, wio mighitsobth
 Eliefly feared, wateth hi perfeet secirity, til time should bring abont that eveat, which iroutd open lits way to the Ehapisky thrones?
Whilo theic thing nere traissacting in liritath, tord Mtountjoy, who sucocudcd Essex道 Irefün, hint retored the queen's authority in that kiugdom. Hedeftated the rebetkriear Kirmate thinugh supported by 6000 Spaniardr; "thom tie expelled the iethits?

 Wven Tymune metitioned for termet whien beffig denied him, fie was obifged to throuf finmelf on ihas cureti's elemency.
Bet Eliznhah was now incipable of receiving any pleature from this fortemate couiciusion of the war, wlith hat long oeempied ther cooncil, extinusted hier treasuly, and distorbed ber dannestic pâhre. Though in ber 70 th year shó that thitherro enjoyed af good tatate of bealth ; but the infirmitien of olit nige at Fength liegan to steal upon here

 could tratusmit her seceptre, and the glories of hes illastrious reign; no object of nffection to allevinto her tornows, or oa whom plie could repiose her iforeasing careht There
 disiprate, and which rendered lier denid to every human satiffictigar thad, setted on ber ruind.

[^9]sticsessor. The people caughe the temper of the court: the queen went arroud without the usual seclaniations. And, as a farther cause of uneasiness, slie had bech prevailed on, covitrary to leer most solemin declarations and resolutions, to partion Tyrone whose relielliou hid created her so muedi trouble, and whom she regarded as the ie mote eatise of sil bee favourite's misfortunes. An miexpected discovery completed ber sorrow, and rendered tier melancholy mortal.
While Esidex was in high tiavour wilh Elizabeth, she had given bin a ring, as a pledge of ber affection; and accompanied it with a prouise, that into whatever disgrace hie might fall, or whatever prefudices she might be induced, by his enemies, to entertuin קgikst bien, on producing that ring lie mithte depend on bee for forgivenes. This precious git he lad reserved for the final extremity. Alt his aisfortunes hat not been able to draw it from him; but after his condemnation, he resolved to try its efficacy, and comimitted it to the countehs of Nottingham, in order to be deliverel to the quech The countess communicated the matter to her liusband, ond of Essex's most implachble enemies, who persuaded hier to act an atrocions part; neither to defiver the ring to thie queen, nor to return it the earl. Elizabeth, who had anxiously expected that hast appeal to her renderness, imputed an omission, ocevioned by the comntes' reachery, to the disdainful-pride of her fivourite; and she was chiefly induced, by the resentment arising from that iden, to sign the warrant for his execation.

Conscience discovered what it could not prevent. The countess of Nottingham, folling ill, and fiading lier end fast approaching, was seized with remorse on account of Her perfidy,. She desired to see the queen, in order to reveal to ber n secret, without disclosing which she could not die in peace. When the queen enterech ber apartument, she prosented the fital ring; relited the purpose for wlich she had rececived it, and begged forgivencess. All Elimbell's, offection retumed, and all her rage var rotised "God may forgive you," cried she, "but I never can !"shaking the dying countuss in her bed, and rissbing out of the room.
-Few end miserable, after this discovery, were the days of Elizabeth. Her spirits lefí lief, and existence itself sectied a burden. She rejected sll consolation: she would scarcely taste food, and refosed every kind of medicine, declaring that she wabed to die, and would live no longer. She coald hot even be prevailed on to go to bed; buit threw herself on the carpet, where she remained, pensive and silent, during ten diys and rights, leaning on cushions, and bolding her finger almont continually on lier mouth, with her eyes open, and fixed upon the ground. Her sighs, her groans, were all expressive of some inverd grief, which she cared not to utter, and which preged upan her life. At last, her death being visibly approaching, the privy councit seot to knoik her will, ih regard to her successor. She answered, with a feeble voice, thit as she had held a regal sceptre, she desired no other than a royal successor; and on Cecil's desiring ther to explain herself, she zaid, "Who should that be but my nearest kinsman, the king of Scots ?" She expired soop after, withoot a struggle, her body being totally wasted by anguish and abstinence.
History does not afford a more striking lesson on the nosubtantial nature of bumpa greathess, than in ibe close of this celcbraked relign. Fcw sovercigns ever swayed a
sceptre with more dignity than Elizabeth; few have enjoved more uniform prosperity ; and none could be more beloved by their people: yet this great princess, after all her glory and popularity, lived to fall into nenlect, and sunk into the grave beneath the pressure of a private crief, accompanied by circumstances of distress, which the wretcis on the torture might pity, and which the plave wlia expires at the oar does not feel. But the reign of Elizibeth yields other lessons. It shews to what a degree of wealth and consequence a nation may be raised in a few years, by a wise and vigorous administration: and what powerful offorts may bo made by a brave and united people, in impelling or annoying an enemy, how superior socver in force.
It will not here be improper to look back a little, and consider the progress of society in England, during the government of the house of Tudor.
Thie war betwren the houses of York and Lancaster having greatly diminished the poputation of the country. the agricultural art suffered from the paucity of labourers, and it was also injured by the demand of the continental manufactures for English wool, which promoted the application of land to the purposes of pasturage. The legislature repeatedfy endeavoured to remedy an evil so aflictive to the poor; but the oppressions of Philip II. were more operative; as the cheek which trade and industry received in the Spauish Netherlands, had such an effect on the consumption of wool in those provinces, that the Englich land-holders became more attentive to agriculture, than to the supply of that coramodity,
*The increase of luxury and refincment, under the sovercigns of the house of Tudor, tended to the encouragement of manufactures, Linen, however, was chiefly iuported; and few silken eticles were made in England.
The operations practised upon different metals were prosecuted with nugmented skil, not only in the more valuable kinds, bat also in copper and iron. In these metals a great number of articles were dextorously fabricated. The use of armour for the body: furuished frequent employment for artizans. Pieces of artillery were usually obtained from the continent; but at length, under Henry VIII, a cannon foundery was formed, Musquets were little used before the reign of Edward VL. ; whose uncle, the protector, encouraged these implements.
Castles, or defeasive habitations, were now neglected; and the nobility began to restide in more commodious edifices The geatry improved their places of abode; and the formation of chimneys, with a more general use of glass in wiodows, added to the accomiodation of plebeian houses.
The commerce of the English flourished under Henry VII, who concladed various treaties for the promotion of it, and procured the enactment of several laws, tending to tife sarie object. His successor was not unfriendly to il; and Edvard VI. testified his dcsire of encouraging it, by dissolving the company of Easterling merchants settled in this kingdom, whose address and activity bad checked the equipment of English vessels. Three ships being soon after sent to the northvard, one of them penetrated to thin White Sea, and opened a new traffic, which produced the grent of a chater from queen Mary to the Russia company, Under thic auspices of Elizabett, a regular Frade was profecuted with Guinea and other parts of Africh, with the Turkish domi-
nione th Europe and Asia, and with the teritories of the Mogul and other princes of Iodia.

A considerable varicty of coins were in-circulation daring these reigns. Shillings wero coined by Henry VII., besides groats, half-zroats, and other silver pieces; and soverelgos (or pisces of gold, worth 43s) were tue prodvee of lits wint, with pobles, and unayy other coins. Lis son greatly debased the coin; but Elizabeth restored it to a state of comparitive purity, by introdacing an alloy of oilly 18 pennyweights in a pount of silver, which was coincd into 60 shillings Guineas und their subdivisions mere aftorwards brought info use. Tie rate of interest, for the loan of money, was fixid by the legislature at 10 per cent.
The government, in this poriod, was feequently conducted without regari to constitutional restrictions. The arbitrary court of the Star Cliambier was erected tey Hewiry VIL. : and Henry VIIL, and Elizabeth wade their parliaments the stives of their wills. Thie state of the coinmuaity, however, was meliarated even by these deqpot on

The haughty spiri, both of the nobles and the perple, declincd in thase timess Tine former became servie courtiers; and the fatter seetned to have lost al sense of manly freedom. Hospitality was less prevalent; frankess and sincerity twere less uhservable; mid perjury mas a frequent crine. Nutwithatanding thio reformation of retigion, superstition continued to inave great inflachee; and the ertieliies exerciged on the supposed votaries of magic or sorcery, disgraced the times,
The Alourishing age of chivalry expired with Henry V IIL. ; bot tifring was souretimes practised in the reign of Elizabeth. Pageants and masques wece exlabiteyl at court \& and the drama, in her time, assumed a regular form. Musie prutiey by scientifie cultivation. Poetry was refined; and, by the establishimient of typugraptry, literatisc twas widely diffused. Painting was admired by persons of taite: liut thic rirtists who received, and-indeed deserved, the greatest encourngement from the English, were foreigners, among wition Holbein conspicuously shone.
In the universities, scholastic theology was less studied than classical /eiurning; ond the subtleties of corrupt logie were neglected. Newr colleges were establistied; and the statutes for their regulation were more liberal and judicious than the ortinances of preceding founders. In the metropolis, a medical college was instituted, under the patronago of cardinal Wolsey; and the Templo and other inns of court afforded great convecriencios for the stady of the law.

## CHAPTER XII.

Garat Britaix and, Ireland-From the accession of James I. to the death of Charles, I.

THE English throne being left vacant by the death of Elizabeth, who, with her latest breath, had declared, That she wished to be succeeded by her nearest kinsman, the king of Scots, and, in her dying moments, had made signs to that purpose, James was immediately proclaimed king of England, by the lords of the privy council. He was greatgrandson of Margaret, eldest daughter of Henry VII. ; so that, on the failure of the male line of the house of Tudor, his hereditary title remained unquestionable. The crown of England, therefore, passed from the family of Tudor to that of Stuart, with as much tranquility as ever it was transmitted from father to son. People of all ranks, forgetting their antient hostilities with Scotland, and their aversion against the dominion of, strangers, testified their satisfaction with louder acclamations than were usual at the accessiou even of their native princes. They foresaw greater advantages resulting from a jerpetual alliance with Scotland, than inconveniencies from submitting to a sovereigo of thal kinglom. And, by this junction of its whole collective force, Great Britain has risen to a degree of power and consequence in Europe, which Scotland and England, destined by their position to form one vigorous monarchy, could never have attained, as separate and hostile kingdoms.

Dazled with the glory of giving a master to their rich and powerful rivals, and relying on the partiality of their native prince, the Scots expressed no less joy than thes English, at this increase of their sovereiga's dignity; and as his presence was necessary in England, where the people were impatient to see their new king, James instantly prepared to leave Edinburgh, and set out for Loodon without delay. In his journey, crowds of his English subjects every where assembled to welcome him: great were the rejoicings, and loud and hearty the salutations that resounded from all sides. But James, who wanted that engaging affability by which Elizabeth had captivated the hearts of her people ; and who, although social and familiar among his friends and courtiers, could not bear the fatigue of rendering himself agreeable to a mixed multitude ; James, who, though far from disliking flattery, was still fonder of case, unwisely issued a proclamation, forbidding such tumultuous resort. A disadvantageous comparison between his deportment and that of his illustrious predecessor was the consequence; and if Elizabeth's frugality in conferring honours had formerly been repined at, it was now justly esteemed, in consequence of that undistingoishing profusion with which James bestowed them.

The king's liberality, howerer, in dispensing these honours, it may be presumed, would have excited less censure in England, had they not been shared out, with other advantages, in too unegual proportions, to his Scottish courtiers, a numerpus train

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of whom accompanied hitn to London. Yet it must be owned, in justice to Jumes, whose misfortune it was through this whole reign, to be more guided by temper and inclination, than by the rules of political prodence, that he left all the great offices of state in the hands of Slizabeth's ministers, and tmisted the conduct of public affair's, both foreign and domestic, for a time, to his English suljects. Among these, secretary Cecil, with whom be had held a private correspondence during the latter years of Etizabeth, and who had smoothed his way to the throne, was regarded as his prime minister and chief counsellor.

As this correspondence had been carried on with the most profound secrecy, Cecil's favour with the king created general surprise; it being well known to the nation, that his father, lord treasurer Burleigh, had been the principal cause of the tragical death of the queen of Scots, and that he himself had hastened the fate of Essex, the warm friend of the family of Stuart. But the secretary's services had obliterated his crimes ; and James was not so devoid of prudence or of gratitude, as to slight the talents of a man, who was able to give stability to that throne, which he had bielped bim to ascend, nor so vindictive as to persecute bim from resentment of a father's offences. On the contrary, he loaded him with honours ; created him successively lord Effingdon, viscount Cranbourn, and earl of Salisbury. The earl of Southampton and the young earl of Essex were restored to their titles; while sir Walter Raleigh, lord Grey, and lord Cobham, Cecil's former associates, were dismissed from their employments. This disgrace, however, was not so much occasioned by their hostile conduct, and violent opposition against the king's family during the life of Elizabeth, as by an ineffectual ettempt which they had made, after her death to prescribe certain conditions to the successor, whom, they found, they wanted power to set aside, before he should ascend the throne.

James and his new ministers had soon an opportunity of exercising their political sagacity. Ambassadors arrived from almost all the princes and states in Europe, in order to congratulate him on his accession to the crown of England, and to form new treaties and niliances with him, as the head of the tro British kingdoms. Among others, Heary Frederic of Nassav, assisted by Barnevelt, the Pensionary of Holland, represented the United Provinces. But the envoy who most excited the attention of the public, both on account of his own merit and that of his master. was the marquis de Rosni, afterwards duke of Sully, prime minister and favourite of Henry IV. of France. He proposed, in his masters's name, a league with James, in conjunction with Venice, the United Provinces, and the Northern crowns, in order to restrain the ambition, and to. depress the exorbitant power of the house of Austria. But whether the genius of the: British king, natarally timid and pacific, wis inadequate to such vast updertakings, or so penetrating as to discover, that the French monarchy, now united in domestic concord, and governed by an able and active prince, was become of itself a sufficient counterpoise to the Austrian greatness, he declined taking any part in the projected league; so that Rosni, obliged to contract his views, could onlv concert with him the means of providing for the safety of the Uuited Provinces. Nor was this an easy matter, for James, before his accession to the throne of England, had eutertained many scruples
in regard to the revolt of the Low, coumetries, and liad even gone so fay, on -some octasions, as to give to the Dutch the appellation of rebels. He yas induced, however, after conversing freely with bis English ruinisters and countiers, to sacrifice to polities his serise of justice. He found the attachment of his neys subjects so strong to thet republic, and their opinion of a common interest so firmly cosblissted, as to make hia condurrence necessary. He therefore agreed with Rosnit to sa eqoit secretly the:Sutics General, in conjunction with France, lest their weakness zud despair should briag them again under the enormous dominion of Spain.

While fames was taking these salutary steps for securing tranquillity, both foreigo and domestic, a conspiracy was hatching to subvert the goverument, and to place of the throne of Engiand Arabella Stuart, the king's cousin-german, equally, desceated with him from Henry VII. Watson and Clarke, two catholic priests, were, accused of latching the piot, and executed for their share in it Bet the chief comspirators were lord Coblaam, and his brother, Mr. Brake, lord Grey, sir Grifeen Marhham, sie JYaten Raleigh, and other discarded courtiers.

These daring uad ambitious spirits, meeting fequently together, and believing the whole nation at dissatisfied as themselves, bad entertained very criminal projects; and some of them, as appeared on their trial, had even entered into a correspondeace with Aremberg, the Flemish ambassador, in order to disturb the new settlemeat of the crown. Cubbaan, Grey, and Markham, were pardoned, after they hat-laid their heads upon the block; Broke was executed, and Raleigh reprieved. He reaniaed, bowever, in continement many years.

Soon after surmounting this danger, the king was engagod in a business more seiled to his temper, and in which he was highly ambitious of making a figure. Of all the qualities that mark the character of James, he was by none so much distinguished as by the pedantic vanity of being thought to excel in school learroing. This vanity mas much heightened by the flattery he met with from his English courtiers, bot especially thuse of the ecclesiastical order; and he was eager for an opportunity of displaying his theological talents, of all others most admired in that age, to the whole body of his new subjects. Such an opportunity was now offered him, by a petition from the paritans, for reforming certain tenets of the ettablished cliurch. Under protence of finding expedients which might reconcile the parties, the king called a conference at Hanpton Court, and gave the petitioners hopes of an impartial debate ; though nothing appears to have been farther from his purpose. This matter will require some illustration.
The , puritans, whom we have formerly had ogeasion to mention, formied a sect which secretly lurked in the church, but pretended not to any separate worship or discipline. They frequented no dissenting congregation, because there were none such in the kingdom; uniformity in religion being, is that age, thought absolutely, necessary to the support of government, if not to the rery existence of ciril society, by men of all-ranks nnd characters. But they maintained, that they themselves were the ouly pure church; that their prihiciples and practices ought to be cstablished by law, and that none else deserved to be tolerated. $\qquad$

Th consequence of this way of thinking, the puritanical elergy frequently refused to comply with the legal ceremonies, and were deprived of their livings, if not otherwise ponishied, during the reign of Elizabeth. Yet so little influence bad these severities upon the party, that no less than 750 clergymen signed the petition to the king for the farther yeformation of the cliurch.

As James had been educated in the religion of the charch of Seotland, which was nearly the sane with, that which the puritans wauted to establish in England; and as Lie had written, at a very carly period of life, a commentary on the Revelations, in which he had proved the pope to be Anticbrist, and modern Rome the Whore of Babylon in scripture, they hoped to see the sanctuary thoroughly purified, and every remaining rag of the Whore torn away. The impurities of which they ehiefly complained vere the episcopal vestments, and certain ceremonies, which were deemed venerable from age and preceding asc, which the church of England had retained at the reformation; such as the use of the ring in marriage, the cross in baptism, and the referenes of bowing at the name of Jesus. If the king should not aterly abolish these abominstions; they flattered themselves, that he wrould at least abate the rigour of laws agnins nonconformity.
But although James, in youth, had stooly /imbibed the Calvinistic doetrines, bis mind had now taken a contrary biass. "The more he knew the puritanical clergy, the less fivour he bore them. He had remarked in their Scottish brethren a violent torn towards republican maxims. They had dispated his tenets, and counteracted his conmands.
\$ Such liberties could hardly liave recommended them to any prince, and made them peculiarly obnoxious to James, whase hejd was filled with lofty notions of kingship, and Ligh prerogative, as well as of lis theological pre-eminence and ecelesiastical supremacy./ Besides, he dreaded the popularity which the puritans had acquired in both kingdoms; and being much inclined himself to mirth and wine, and sports of all kinds, helepprehended the censure of their austerity, on account of his free and disengaged manner of life. Thus averse, from temper as well as policy, against this rigorous sect, Jaines wis determined to prevent, as far as possible, its farther growth in Eugland; and even to introduce, as we shall afterwards have occasion to see, the English liturgy into Scotland.
dA judge so prejudiced could not possibly be jost. The puritans accordingly comiplained, and with reason, of the unfair management of the dispote at the conference. From arbiter, the king turned principal dispatant, and frequently repeated the episcophl maxim: " No bishop, no King." The bishops and other courtiers, in their turn, were very liberal in their applause of the royal theologician, "II have offen heard that the royalty and priesthood were united," said chancellor Egerton, " but never saw it verified till now." And Whitgitt, archbishop of Canterbury, exelained, "That be verily believed the king spoke by the special assistance of God's spirit f" Little wonder, after so much flattery from the church and its adberents, that the puritans were anjoined by the king to conform. They obtained, however, a few alterations in the hturgy ; and pleaded hard for the revival of certain assemblies, which they called pro-
phecrings, and which had been suppressed by Elizibeth, as dangerous to the state. This domand roused all James's choler; and he delivered bimself in a speech, which distinetly shews the political considerations that determined him in his choice of religions parties. "If you aim at a Scottish preshytery," replied lie, "it agrees as well with tnonirclyy as God and the Devil. There Jack, and Tom, and Wilt, and Dick, shatt meet and censure me and my council : therefore I reiterato my former speech, lo Hoì s'avisera. Stay, I pray, for one seven years before you demand; and then, if you find me grow pursy and fat. I may, perchance, hearken unto you; for that government will keep me in "ind, and give me work enough."

The nssembly in which the king next displayed his learning and eloquence, was of a very different complexion. The meeting of the great council of the nation had hitherto been delayed from a dread of the plague, which had lately broke out in London, and there raged to such a degree, that above 30.000 persons are supposed to have died of it, although the city and suburbs did not then contain 200,000 inhabitants. At length, however, the plague subsided, and the parliament was convened. The speech wlich Jaunes made on that oecasion fully displays his character. Though by no means deficient cither in style or matter, it wants that majestic brevity and reserve, which becomes a king in addressing his subjects from the throne. "Shall I cver," said be, "nay can I ever be able, on rather so unable, in memory, as to forget your unexpected readiness and alacrity-your ever memorable resolution, and the most wonderfal conjunction and harmony of your hearts, in declaring and embraeng me as your undoubted and lawful king and governor? or shall it ever be blotted out of my mind, how, at my first entrauce into this kingdons, the people of all sorts rid and ran, nay rather flew to meet me? their eyes flaning nothing but sparkles of affection, their mouths and tongues uttering nothing but sounds of joy; their hands, feet, and all the rest of their members, in their gestures discovering a passionate longing to meet their neiw sovereign? He next expatiated on the manifold blessings, which the English had received in his person; and concluded with observing, that the measure of their happiness would be full, if England and Scotland were united in one kingdom. "I am the husbund," added he, " and the whole isldnd is my lawful wife; and I hope no one will be so unreasonable as to think, that a Cliristian king, under the gospel, can be a polygamist, and the husband of two wives."

The following wrords, in a letter from James to the parliament, on the same subject, is more to the purpore. "It is in you now," says he, " to make the choice, to procure prosperity and increase of greatoess to me and mine, you and yours; and by the taking away of that partition wall, which, already, by God's providence, in my blood is rent asunder, to establish my throne and your body politic, in a perpetual and flourishing peace."

This was indeed an important and desirable object, and so much was James's heart set upon effectually removing ah division between the two kingdoms, and so sure did Le think himself of accomplishiog his ain, that he assimed tine tite of king of Greaf Alitain ; quartered St. Andrew's cross with St. George's; and, in order to give a general idea of the peaceful advuntages of snelf an union, the iron doors of the frontiers


4 -4
towns were converted into plough-shates, But the miads of mien were not yet ripe for that salutary measure. The remembnance of former hostilitirs was too recent to adrmit of a cordial friendship : the animosity between the two nations could only be allayed by time. The complaisance of the parliament to the hing, therefore, carried them no far-i ther than to appoint 44 English to meet with S1 Scottith commissioners, in orider to deliberate concerning the terms of an union, withont any power of making advances towards its final establishment.

The commons discovered more judgment of national interest, in some other points in which they opposed the crown; and fully slewed, that a bold spirit of freedom, if not a liberal manner of thinking, was become general among them. It had been usual, during the reign of Elizabeth, as well as in more early perieds of the English government, for the chancellor to exert a discretionary authority, of isuing new writs for supplying the places of sucb members as he jodged incapable of attending, on account of their ill state of bealth, or any other impediment.

This dangerous prerogative James ventured to exercise in the case of sir Francis Goodwin. The chancellor declared his seat vacated, and issued a writ for a new election. But the commons, whose eves nore now opened, saw the pernicious cousequences of such a power, and asserted their right of judging solely in their own elections and returns. "By this course," said a member, " a chancellor may call a parianisent, consisting of what persons he pleases. Any suggestion, by any person, may be the cause of sending a new writ. It is come to this plain question, whether the chancery or the parliament ought to have authority?" The king was obliged to yield the poiut; and that. right, so essential to public liberty, has ever since been regarded as a privilege inherent; in the house of commons, though at that time rendered doubtful, through the negligence of former parliaments.

Nor did the spirit and judgonent of the commons appear only io their vigorous exer-1 tions in defence of their own privileges : they extended their attention to the commercial part of the nation; and endeavoured, though at that time in vain, to free trade from those shackles which the ill-judged policy of Elizabeth had imposed upon it. James had already, of his own accord, called in and annulled the numerous putents for monopolies, which had been granted by that princess, and which fettered every species of domestic industry ; but the exclusive companies still remained, another, species of monopolies, by which almost all foreign trade was brought into the hands of a few rapacious engrossers, and all prospect of future improvement in commerce sacrificed to a temporary advantage to the crown. The commons also attempted to free the landed interest from the burden of wardships, and the body of the people from the oppression, of purveyance.

It will therefore be proper here to give some account of these grievours remains of the feudal government. The right of purveyance was an antient prerogative, by which the officers of the crown could, at pleasure, take provisions for the king's household, whithersoever he travelled, from all the neighbouring counties, and make use of the horses and carriages of the farmers. The price of these provisions and services was fixed and stated; but the payment of the money was often distant and uncertain, and the
rates were alwoys much inferior to the usual market price: so that purveyance, besides the slavery of it, was always regardel as a heavy burden, and being arbitrary and casual, was liable to great abuses. Elizabeth made use of it to victual her navy during the first years of lier reign. Wardship, though the ment regular and legal of nil iuipositions by prerogative, was also an humiliating ladge of slavery, and oppressive to all the considerable families among the aobility and gentry. When an estate devolved to a female, the king could oblige ber to marry whom he pleased; and whether the lieir was inaici or femalo, the crown enjoyed the whole profits of the 'estate during the minority.
Whese impositions had been often complained of; and the commons now proposed to compound with the king for them, by a secare and indepencent revenue. The benefit which the crowa reaped fromi wardship and parveyance was accordingly estimated; but, after some debate in the lower hosse, and a conference with the lords on the subject, it was found to contain more difficulties than could at that time be easily surmounted, and therefore no further progress was made in the business.
. Soon after the rising of parliament, a treaty of peace, which had been some time in agitation, was finally concluded with Spain. And although the war betseen Philip. II. and Elizaheth appears to have been continued from personal animosity father than any contrariety of political interests between their subjects, this treaty was generally disliked by the English nation; as it checked the spitit of enterprize, so prevalent in that age, and contained some articles which secmed prejudicial to the Dutels commoniealth. But these articles, so for at least as they regarded suppliess were never executed by James; who bad, by a secret article, as we have formerly had -oceasion to observe, expressly reserved the power of seuding mssistance to the Uuited Provinces.

During this scason of peace and tranquility, was brought to light, one of the most diabolical plots of which there is any record in the history of mankind. The conspiracy to which we ailude is the Gunponder Taeason. A sclieme so iufernally dark will require some elacidation.
The Roman catholics in general were much disappointed, and even exasperated, by the king's conduct in religious matters. He was not only the son of the unfortunate Mary, whose life they believed to have been sacrificed to their cause, but, in. order to quiet opposition, and make his accession to the throne of England more easy, he hadgiven them hopes that he would tolerate their religion. They therefore expected great fivour and indulgence under his government. Dut they soon discovered their mistake; and, equally surprised and enraged, when they found James had resoived to execute the rigorous laws enacted against them, they determined on vengeance. Some of: the most zealeus of the party, under the direction of Garnet, the superior of the Jesuits in England conspired to exterminate, at one blow, the most powerful of thẹir enemies in this kingdom ; and, in consoquence of that blow, to re-establish tho eatholiq: faith. Their conspiracy had for its object the destruction of the king and parfiamenk For this purpose they lodged 96 barrels of gunpowder in a vault heneath the House of Lords, usually let as a coal-cellar, and which had been hired by Percy, a neat relation:
of the family of Northumberiand, and one of the original conqpirators. The time fixed for the execution of the plot was the stli of November, the day appointed for the meeting of the parliament; wlien the king, queen, and prince of Wales were expected to be in the house, togetier with the principni nobility and gentry, The rest of the royal family were to be scized, and all dispatched, except the princess Elizabeth, James's youngest daughter, yet an infant, who was to be raised to the thrond, under the care of a catholic protector.

The destined day at length drew nigh, and the conspirators were filled with the strongest assurances of success. Nor without reason; for although the horrid secret had been communicated to above twenty persons, no remorse, no pity, no fear of punishment, ne hope of reward, had induced any one accomplice, after more than twelve months, either to abandon the eonspiracy, or to make a discovery of it. But the holy fury by which they were actuated, though it had extinguished in their breasts every generoos sentiment, and every selfish motive, yet left them susceptible to those bigoted partialities, by which it was inspired, and which fortunately saved the nation. A short time before the meeting of parliament, lord Monteagle, a catholic nobleman, , whose futher, lord Morley, had been a great sufferer doring the reigo of Elizabeth, on account or tis attachment to popery, received the following letter:
" My Lord, out of the love I bear to some of your friends, I have a care of your preservation: therefore I would gdvise you, as you tender your life, to devise some excuse to shift off your attendance at this parliament; for God and man have resolved to punish the wiekedness of this time. And think not slightly of this advertisement; but retire yourself into your country, where you may expect the event in sufety : for though there be no appearance of any stir, yet 1 say they will receive a terrible blow this parliament, and yet they shall not see who horts them. This counsel is not to be contemned; because it may do you good, and can do you no harm, for the danger is past as soou as you have burned the letter : and I hope God will give you the grace to make good use of it, to whose boly protection I commend you.".

Though Monteagle was inclined to think this a foolish attempt to expose him to ridicule, by frightening him from attending his duty in parliament, he judged it safest to carry the letter to lord Salisbury, secretary of state. Salisbury cither did or pretended to think it a light matter; so that all farther inquiry was dropt, till the king, whe had been for some time at Royston, returned to town. To the timid sagacity of James, the matter appeared in a more important point of view. From the serious and earnest style of the letter, he conjectured that it intimated some dark and dangerous design against the state ; and many particular expressions in it, such as great, sudden, and terrible blow, yet the authors couccaled, seem to denote some contrivance by gunpowder.

It was, therefore, thought proper to inspect all the vaults below the two hostes of parliament. This inspection, however, was purposely delayed till the day tefore the meeting of the great council of the nation; when, on searching the vants teveath the House of Lords, the gunpowder was discovered, though concealed under preat piles of wood and faggots; and Guy Fawkes, an officer in the Spanish service, who stood in

## A. D. 1618 .

## BRITISLI EMPIRE

a dark comer, and passed hinself for Perey's servant, was seized and carried to the 'Tower. This man had been sent from Flanders, on account of his determined counuge, and known zeal in the catholic cause. He was accorchingly entrusted with the most trying part in the enterprize. The matelies, and every thing proper for setting fire to the thain, were found in his pocket. He at first behaved with great insolence and obstinacy; not only refusing to discover his accomplices, bat expressibg the utinost regret, that he had lost the precious opportunity of at least sweetening his death, by taking vengeance on his and God's enemies. But, after some days confinement and solitude, his courage fuiled him, on being shews the rack, aud be made a full discovery of all the conspirators. Several of them were men of antient family, independent fortone, and unspotted character ; instigated alone to so great a crime by a fanatical zeal, which led them to believe that they were serving their Maker, while, they were contriving the ruin of their country, and the destruction of their species.

Such of the conspirators as were in London, on liearing that Fawkes was arrested, hurried down to Warwickshire; where sir Everard Digby, one of their associates was already in arms, in order to seize the princess Elizabeth, whio was then at lord Harriugton's in that county. They failed in their attempt to get bold of the princess ; the county rose upon them, and they were all taken and executed, except three, who fell a sacrifice to their desperate valour ; namely, Wright, a daring fanatic, Catesby, the original conspirator, and Percy, his first and most active associate.

Elizabeth had lived to see the final subjection of Ireland. Bot a difficult task still remained; to civilize the barbarous inhabitants; to reconcile them to laws and industry; and, by these micans, to render the conquest durable and useful to the crown of England.

The first step that James took in regard to this important business, which he considered as his master-piece in polities, was to abolish the Irish customs that supplied the place of laws; and which were calculated, as will 'appear, by a few examples, to keep tilie people for ever in a state of barbaristn and disorder. Their clieftains, whiose authority was absolate, were not hereditary, but elective; or, more properly speaking, were establishied by force and violence; and although certain lands were assigned to the office, its chief profit arose from exactions, dues, and assessments, which were levied at pleasure, and for which there was no fixed law. In consequence of the Brehon law or custom, evefy crime, how enormous soever, was punished in Ireland, not with death, but by a fine, or pecuniary mulet, which was levied upon the criminal. Even murder itself, as among our Saxon ancestors, was atoned for in this manner; and each man, according to his rank, had affixed to him a certain rate or value, which, if any one was willing to pay, he need not fear assussinating wiatever man he disliked. This rate was called his Eric. Accordingly, when sir William Fitz Williams, while lord deputy, told alie chieftain Maguire, thirt he was to seid a sheriff into Fermanagb, which had been miade a county a little before, and subjected to the English laws; "Your sheriff" reptied Maguire, "shall be weicome to me: but let me know beforehand his Eric, of the price of his head, that, if any of my people stiould cut it off, I may levy the money upon the county.

Vol. I.
 lawa in their stead, James procosied so govewr the natives by a regular adimanistration? mititary as well as civil. A sufficient aromy was maintuined, it discipline inspected, and its pay panctually transmited from England, in order to preveit the soldieis from sobs sisting upon the country, us had heer usual in former reigns. Circuits were establishedy justice adowinistered, oppression banishel, and erimes and disorders of tevery dand ser sercly punished. For the relief of the common people, the value of the alues, which thits nobles usually claimed from their vassals, was estimsted at a fixed suap, afaliall farthee arbitrary exactions prolibited, noder severe pratalties.

The beneficial effects of these regulations were soon visible, especially in the prosince) of Elister; which, having wholly fallen to the croun by the attainder of rebels, a coinpauy was established in London for planting colonies in that tentile territory. The property was divided into moderate shares, the largest not exceeding 5000 scres; tenants were brought from England and Scolland; the Inish were removed from the hills and fastnesses, and setted in the open country; 位bandry and the mectianical| arts were taught them ; \& fixed habitution was secured for them, and every irregularity repressed, By these means, Ulster, from bring the most nild and disordaly province in Iroland, soon became the mast civilized and best cultivated part of the fienad, a But whatever domestic advantages might result from James's pacific disposition, it gradually lost him the affection of his people, as it made him avoid war, by negotiations and concessions beneath the dignity of an Euglish monarch. It sunk the national consequeace, and perhaps the national spirit; and his excessive love of carousals and bunting, of public spectacles and unavailing speculations, which left bim no time for publie. business, at last divested his political character of all chaim to respect, and rendered thini equally conteruptible at home and atiroad.
This coutempt was increased by a disadvantageous comparison betiveen, the king and the prince of, Wale;-Thoogh youth and royal birth, embellished by the flatering rays of hope, prepossessed men strongly in favour of an heir apparent to the crown, Henry, James's eldest son, independent of such circumstances, seems to have prossessed great and real merit, Although he had now almost reached his 18th year, neither the illusions of passion nor of rank had ever seduced him into any irregular pleasures: busi-ness and ambition alone engaged this heart, and occupied his mind. Had ke lived to come to the throne, be might probably have promoted the glory more than the happiness of bis people, his disposition being strongly turned to war. Of this we have a remarkable instance, When the Prench ambassador took leave of him, and asked his commands for France, he found thim employed in the exercise of the pike, "Tell your king," said Heory, "in what occupation you left me engaged."
bHis death, which whe sudden, diffused throughout the nation the deepest sorrow, and violent reports were propagated, that he bad been taken off by poison. The plysicians, however, on opening his body, found no symptoms to justify such an, opinion.
But James had one weakness, which drew on him more odium than either his pe-s dantry; pusillanimity, or extravagant love of amusement; pamely, an infatyated at.
 ludicrous, thaugh less detestable, that it does not seeth to lave contained any thing
 7. The first and most odions' of these fivouritey wha Robert Carr, a young gentlenish

 and a gracefal air; were his elief aceomplishments; and these were sufficient to tecommend him to James, who through his whole life, was too lizble to be captivated nith exterior qualities.
Lord Hay, a Scottish robleman, who was well acquminted dith this "reaknes in lis sovereign, and meant to take udvantage of it, assigned to Cars, at a touraanieat, the office of presenting the king his backler and device. Pht, as the futare favourite was advancing for that purpose, his ungovernable horse threw haik, and this leg wis breken Sy the fall.
13qually struck with this incident, and with the beauty and simplicity of the youth? whom he had never seen before, James approached hin with sentiments of the soffert compassion; ordered birn to be lodged in the palace, and to be attended by the most skilful surgoons ; and the bimself paid bim fiequent visits during lise confinement. The more ignorant lie found him, the stronger his attachmeat became. Highty conceited of his own wisdom, he flattered limself that ho slould be able to form a minister, whose political sagacity would astonistr the world, while he surpassed all his former courtiers in personal and literary accomplishinents.

In consequence of this partial fondness, interwoven with acifish vanity, the king soon knighted his favourite; created him viscount Rochester, honoured lim zith the Garter, brouglit him into the privy council, and, without assigning lim any particular office, gave him the supreme direction of his affairs The minion, however, was not so much elated by his sudden elévation, as not to: be sensible of his own ignorance and inexperience, He had recourse to the advice of a friend, and found a judicious and sincere counsellor in sir Thomas Overbury; by whose means he enjoyed for a time, what is very rare, the laighest favour of the prince, without being hated by the people.

The exterior accomplishments of the earl of Rochester' excited the criminal atten-1 tion of lady Prances Howard, daughter of the earl of Suffolk. She had been contiacted, at an early age, to the earl of Essex; bot they had beeu prevented, by bis alsence, from? the consummation of their marriage.

The correspondence between the two goilty lovers was carried on by the aspistance of sir Thomas Overbury, who composed the epistles which were sent in the name of.


As this amour and its consequences afford an awfol lesson on the fatal effects of t licentious love, it would be improper to pass it over altogether in silence, Though sin Thomas Overbary, without any scruple, had encouraged his friend's passion for the countess of Essex, while he considered it merely as an affain of gailontry, his prodence: was alarmed at the illea of quarrage. And he represented to Rochester, not only bow ?
i.sviduoess and difficult an undertaking it would prove to get her diverced from her husband, but how shameful it would be to take to his own bed a profligate worman ; who, although married to a young notbleman of the first rank, had not scrupled to prostitute her character, and bestow her favours on the object of a capricious and mornentary impulse ; on a lover whom she must suppose would desert her on the first variable gust of loose desire. Rochester was so weak as to reveal this conversation to the countess, and so base as to eater into her viludictive vieus; to swear vengeance against his friend, for the strongest instance be could receive of his fidelity. Some contrivance was necessary for the execution of their diabolical scheme. Overbury's conduct was misrepresented to the king, who granted a warrant for committing thim to the Tower ; where he lay till the divorce was procured, and Rochester's marriage with the countess celebrated. The king, solicitous lest the lady should lose any rank by her new marriage, bestowed on lis minion the title of earl of Somerset.
Neither did this success, nor the misery of the prisoner, who was debarred the sight even of his nearest relations, satisfy the vengeance of that violent woman. She engaged her husband and her uncle, the earl of Northampton, in the atrocious design of taking off Overbury by poison; and they, in wonjunction with sir Jervis Elvis, lieutenant of the Tower, at length effected their cruel purpose. Though the precipitation with which Overbury's funeral was burried over, immediately bred a strong suspicion of the cause, of his death, the full proof of the crime was not brought to light till some years affer; when it was discovered by means of an apothecary's servant, who had been employed in making op the poisons, and the whole labyrinth of guilt distinctly traced to its source.

But although Somerset had so long escaped the enquiry of justice, he bad not escaped the scrutiny of conscience, which continally pointed to him his murdered friend; and even within the circle of a court, amid the blandisbments of flattery and of love, struck him with the representation of his secret enormity, and diffused over his mind a deep melancholy, which was neither to be dispelled by the smiles of beauty, nor the says of royal fivour. The graces of his person gradually disappeared, and his gaiety and politeness were lost in sulleness and silence. The king, whose affections had been caught by these superficial accomplishments, finding his favourite no longer contribute to his ainusement, and unable to actount for so remarkable a clange, more readily listened to the accusations brought against him. A rigorous iaquiry was ordered; and Somerset and his countess were found guilty, bot pardoned through the indiscreet lenity of James. They languished out their remaining years, which were many and misenable, in infamiy and obscurity ; alike hating and hated by each other. $\quad$ Sir Jervis. Elvis and the inferior criminals suffered tie punishment due to their guilt.

The fall of Somerset, and his banishment from court, opened the way for a new favourite to rise at once to the highest honours. George Villiers, an English gentleman, of an engaging figure, and in all the bloom of क1, had ulready attrected the eyes of James; and, at the intercession of the queep, had been appointed sup-bearer. This office might well have contented Villiers, and have attoched him to the king's perion; nor would sucha a choice have been censored, except by the cynically severe.

Bot the profure bounty of James induced him, in the conse of a fow years, contrary to alf the rules of prudence and politicg to create bis minion viscount Villiers, earl, matguis, and dake of Bukioghiam, knight of the garter, master of the horse, chief justice in Eyre, warden of the Ciaque Poris, naster of the King's. Bench, steward of Westminster, constable of Windoor, and ford higb admiral of England.

This raphd advancement of Villiers, nhich rendered bim for ever rash and insolent, involved the king in new necessities, in order to supply the extravagance of bis minion. A price had been already afixed po cyery rank of nokility, and the title of buronet inrented, and currently sold for one thousand pounds, to supply the profusion of Somerset. Some new expedient must now be suggested; and one, very mpopatar, though certainly less disgraceful than the former, was embraced; the cautionary tonns were delivered up to the Dutch for a sum of money. These towas were the Brilt, Floshing, and Ramakios; three important places, which Elizabeth had got consigned into ber hands by the United Provincoe, on entering into war with Spain, as a security for the repaymont of the money which she might disburse on their account. Part of the debt, which it one thime amounted to 800,000 pounds, was already discharged; and the remainder, after making an allowance for the annual expence of the garrisons, was agreed to be paid on the surrender of the fortresses. This seems to have been alt that impartial justice could demand, yet the English nation was bigaly dissatisfed with the transaction: and it must be owned, that a politic princo would have been slow in relinquishing possestions, on whatever conditions obtained, which enabled him to hold in a degree of subjection so considerabte a nefightouring state as the republic of Hollaud.

The next measure in which James engaged rendered him as, unpopular in Scotland as he was aiready in Eingland. It was an attempt to establish a conformity in wombip and discipline between the churches of the two kingdoms; a project which he had long held in contemplation, and toward the completion of which he had taken some introductory steps. But the principal part of the busipess was reserved till the king should pay a visit to his native country. Such a journey he now undertook. This naturally leads us to conaider the affairs of Scotland.

It might have been readily foreseen by the Scots, when the crown of England devolved upon James, that the independency of their kingdom, for which their apeentors, had shed 50 much blood, would theneeforth be lost; and that, if both kingdons persevered in maintaining separate laws and parliaments, the weaker must feet its fiteriority more sensibly than if it had been sabdued by force of arms. But this idea did not generally occur to the Scottish nohles, formerly so jealous of the power as well as of the prerogatives of their princes; and as James was daily giving new proofs of his friendship, and partiality to bis countrymen, by loading them with riches and honours, the hope of his favour concurred with the dread of his power, in taning their fierce and independent. spirits. The will of their sovercign became the supreme law in Scotiand. Meanwhile, the nobles, left in full possession of their feodal jurisdiction over their vassals, echuusting: their fortines by the expence of frequent attendance upon the English court, and bye atternpts to imitate the manners and luxury of their more wealliny neighbours, multiVot I.
plied exactions upon the poople: eheo duest hapdly utfer compleints, ulieh they tinew would never reach the cas of their savernitn, or be rendered too fecble to pore tim to grant then redress. Thus sulyjected at once to the absolute will of a monarch, end to the oppressive jurisdiction of an aristocracs, Seotland suffiered all the miseries peculiar to both these forms of govermanent. Its tinges were despots, its bolfes were slaves and tyraits ; and the peoplo groanerl inder the rigorous domination of both.

The abhorrence of the presbyterian elcrgy againg episcopacy was very great; nor could all the devices invented for restruning and circumscribing the spiritual jomisdiction of those who were to be raised to the honours of bishops, or the bope of rising to that dignity, allay their jeatousy and fear. James was therefore sensible that he never could establish a conformity in worship and discipling between the churches of Eagland and Scothand, until he conid procire from the Scotilis parllament im wektorrtedgement of his own supremacy in all ecclesiastical canses. This was the principal object of his visit to his native evontry: where he proposed to tifo great council of the mution which was then assembled, that an act might be passed," teclaring "that, " whatever bis majesty should determine in regaril to the external government of the church, with the consent of the archbi-hops, bishops, and a competent number of the ministers, should have the force of a law."

Had this bill reerived the sanction of parliament, the king's ecelesiastical government would tuwe been e-tablished in its full extent; as it was not determined what number of the clergy should be deemed competent, and their nomination was left entirely to himself. Some of them protested : they apprehended, they said, that, by means of this new authority, the purity of their church would be polluted with the rites and forms of the chureb of England; and James, éreading clamour and opposition, dropped lifs favourite measore. He was able, however, next year, to extort a vote from the generat assembly of the kirk, for receiving certain ceremonies upon which his heart was more particularly set; namely, kneeling at the sacrament, the private administration of it to sick persons, the confirmation of children, and the observance of Cliristmas and other festivals,

A series of unpopular measures conspired to increase that odium into which James had now fallen in both kingdors, and which continued to the end of his reign. The first of these was the execution of sir Walter Raleigh.

This extraordinory man, who suggested the flrst idea of the English colonies in North America, and who had attempted, as carly as the yrar 1586, a settlement in the country now known by the natne of North Carolina, then considered as part of Virginia, had also made a voyage, in 1595, to Guiana, is South America. The extravagant account which he published of the riches of this latter country, where no mines of any yalue have yet been discovered, has drawn much censure upon his veracity; particularly his description of the apparently fabalous empire and city of Manod or Eldorado, the sovereign of which he conjectured possessed more treasure than the Spapiards had drawn from Mexico and Pera.

Ralciye's motive for uttoring these splenidid falsitics, seems to bave been a desire of
toming the avidity of his countrymen toward that quarter of the New World, where the Syamigrds had found the precions metals in such abuadance. This, indoed, sufficivatly appeat from his relation of certain prophecies, which expressly pointed out the Euglish as the conquerors and deliverers of that rich country, which he had discovered. As he was khown, however, to be a man of a mmantic turn of miad, and it did not appear that he had enriched timself by his voyage, little regard seens to have been paid to his barmative, either by Elizabeth or the nation. But after lie had lunguidied nany years in confinement, as a punishuent for Uis conspiracy agaiust Jumes; when the envy excited by hissuperior talents was luid asleep, and commesration awakened for his unhappy condition, a report which he propagated of a wonderfal rici gold whe that he foraverly Luad dascovered in Guiams, obtained universal belief. Perple of all ranks were tumafient to take pessersion of a country oiceflowing whit the firccious metals, and to which the nation was supposed to have a right by priority of discovery.
'The king by his own account, gave little credit to this report, not only because be beli-ved there was no such mine in nature as the one described, but because he considered Italeigh as a man of desperate fortune, whose business it was by any means to procore his freedom, and reinstate himsolf in credit and authority. Taiaking, however, that he lad already undergone sufficient punishment, Jawes ordered him to be released from the Tower; and when the hopes held out to the nation had fiduced anultitudes to adopt his views, the king gave him permission to parsue the projected enterprize, and vested him with authority over his fellow adventurers; but being still diffident of his intentions, he refused to grant him a pardon, that he might bare some check upon his futare conduct.

The preparations mide in consequence of this commission alamed Gondomar, the Spanish ambassador ; and although Raleigh protested the imoceace of his intentions, and James urged his royal prohibition against invading any of the settiements of his Cutholic Majesty, that minister conveyed to his court intelligence of the expedition, and his apprehensions from it. Twelve arined vessels, he justly concloded, could not be fitted out yithout some purpose of hostility ; and as Spain was then the only European power that had posseaions in that part of America to which this fleet was destined, orders were given by the court of Madrid, for fortifying all its settlements on or near the const of Gulina.

It soon appeared, that this precuution was not unmecessary. Though Rateigh's commission empowered him only to settle on a coast possessed by savage and barbarous inhabitants, he stcered his course directly for the river Oronooko, where he kaew there whas a Spamislr town, named St. Thiomas; and, without may provocation, sent a detachthent, under his son and his ofd associate, captain Keymis, who had accompanied him in his former voyage, to dislodge the Spaniards, and take possension of that town; while he bimself, with the larger vessels, guarded the mouth of the river, in order to obstruct such Spanish ships as should attempt the relief of the place. The Spaniards, apprizen of this invasion, opposed the landing of the English; as they had foreseen. Ioung Raleigh was killed by a shot, while animating his followens: Keymis, howe'ss

## BRITISH EMPIRE.

and his-surviving companions, not dismayed by the unfortunate accident, took, plussdered, and burnt St. Thomas: but found in it no booty any way adequate to thẹir exprectations.

It might have been expected, that these bold adventurers, having overcome all opposition, would now have gone in quest of the gold mine, the great object of their enterprize, as Keymis was said to he as mell, if not better aerpuainted with it than RaIgreh. But, although that ufficer affirmed be was within a few miles of the place, he refused, under the most absurd pretences, to carry Dis companions thither, or to take any etfectual step for ugain finding it binself. Struck, as it should seem, with the atracity of his conduct, and with his embarrassing situation, he immediately returned to Raleigh with the sorronful news of his son's death, and the dirappointuent of his folluwers. The interview, it may be conjectured, was not the most agrecable that could have ensued between the parties. Under this strong agitation of mind which it occasioned, Keymis, keenly sensible to reproach, and foresecing disgrace, if not an ignominious death, as the reward of his violence and imposture, returned isto fits cabin, and pat an ead to his life.

The sequel of this delusive and pompous expedition it is still more painful to retate. Tlie nidventirers in general now concluded that they were deceived by Renleigh; that the story of the mine had ouly been invented to afford hism a pretext for pitlaging St. Thomus, the spoils of which, he hoped, would encourage his followers to proceed to the plunder of other Spanish settlements ; that he expected to repair his ruined fortune by such daring enterprizes; trusting to the riches he should acquire for obtaining a pardon from James; or if that prospeet failed him, that be meant to take refuge in some foreign country, where his wealth would secure him an asylum. The inconsiderable booty gained by the sack of St. Thomas, discouraged his followers, however, from embracing these splendid projects, though it appears that he had employed many artifices to engage them in his designs. Besides, they saw a palpable absurdity in a fleet, acting under the sanction of royal authority, committing depredations against the allies of the crown: fhey therefore thought it safest, whatever might be their inclinations, or how great soever their disoppointment, to return immediately to England, and carry their leader along with them to answer for his conduct.

On the examination of Raleigh and his companions, before the privy council, where the foregoing facts were brought to light, it appeared that the king's suspicions, in regard to his intentions, had been well grounded; that, contrary to his instructions, he had committed hostilities against the subjects of his majesty's ally, the king of Spain, and had wiffully burned and destroyed a town belonging to that prince; so thaf he might bave been tried either by common law for this act of violence, or by taartial law for breach of orders. But it was the opinion of all the crown lawyers, as we learn from Bacon, That as Raleigh still lay under an actual attainder for high treason, he could not be brought to a new trial for any other crime. James, therefore, in order to satisfy the court of Madril, which was very clamorous on this occasion, sigaed the wafrant for his execution under his former sentence.

Roleigh's hehiviour, since lije return, hat hitherto boen bencath- the dignity of his charracter. He had counterfeited madness, sickness, and a variety of distempers, in voly to protract his examination, and enable him to procure the means of his escape. But laling his fate inevitable, ho now collected all his courage, and met death with the mont heroic indifference. Feeling tive edge of the axe with which he was to be beheaded, "'Tis a sharp remedy," said he, "bot a sure one for all ills!" then calmly laid his head on the block, and received the fatal blow,

Of alt the transactions of a reign distinguistida by public discontent, tifis was perbaps the thost odious. Men of every condition were filled with indignation against the court, Even such as acknowledged the justice of Raleigh's panishment, blamed the measure. They thoaght it cruel to execute a senkenec, originally severe, and tacitly pardoned, which had been so long suspended; and they considered it as mean athl impolitic, even though a new trial had been institated, to sitcrifice to a concealed enemy of England, the only man in the kinglom whose reputation was high for valour and military experience.

Untiappily for James, the Intimate connevions whith lie wis cuteavouring to form with Spain, in themselves disgustful to the nation, increased the public dissatisfaction. Gondomar, ambassador from the court of Madrid, a man capable of the most artful flattery, and no stranger to hereditary pride, bad proposed a mateh between the prince of Wales and the second daughter of his Catbolic Majesty ; and in order to renter the temptation irresistible to the Einglish monareb, whose necessities were yell known, he gave hopes of an immense fortane with the Spanifl princess. Allared by the prospect of that alliance, James it has been affirned, was not onfy induced to bring Raleigh to the block, but to abandon the electur Patithe, his son-in-law, and the protestant interest in Germany, to the umbition of the liotuse of Austria. This latter suspicion completed the edium occasioned by the former, and roused the attention of parliament.

Frederic V., elector Palatine, hal been finduced, by the persecuted protestants, to accept the crown of Bohemia, contrary to the advice of the king of Pagland, his fis-ther-in-law; and was chased from that kingdom, and stript of all his bereditary dominions, by the power of the cmperor Ferilitiand I., supported by the Spanish branch of the house of Austria, in spite of the utmont efforts of thic Evangelical Union, or protestant body in Germany, though assisted by the United Provinces. The news of these disasters no sooner reached Bangland, than the voice of the notion was loud againat the King's innctivity. People of all ranks were on Sre to engage in the défence of the distressed Palatine, and rescue their protestant brethren from the persecutions of the idolatrous catholics, their implacable and cruel enemies. In this quarrel they would cheerfuliy have marched to the extremity of Europe, have inconsiderately plunged themselves into a shaos of German politics, and freely have expended the blood and treasure of the kingdom. They therefore regarded James's neutrality as a base desertion of the cause of God and of his holy religion; not reflecting, that their interference in the wars on the continent, however agreeable to pions zeal, could not be justified on any sound maxims of policy.

Yol. I.

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The king's ideas relative to this matter fiere not mose liberal than those of his subjects; but happily, for once, they were more friendly to the welfare of the nation. Shocked at the revolt of a peopie against their prince, he refused, on that accourp. 10. patronize the Bohemian prolestants, or to bestow on his son-iin-law tie title of /ing: elthough he owned that be had not examined their pretensions, privieges, or constitution. To have withdrawa their allegiance from their sovereign, under whatever circumstances, was, in lis eyes, an enormous crince, and as sufficient reason for denying them any support, as if sutfjeets mast be ever in thie wrong, when they stind in opposition to those who have aequired, or assumed authonity orer them, kow much soever that autbority may have beew abused.

The Spatisti match is likewise allowed to have had some influence upon the political sentiments of Jumes, on this occafion He flattered liimself that, in consequence of his son's marriage with the Iulanth, and the intimate conaevions it wovid form tetween England and Spain, besides other advantages, the restitution of the Palatinate might bs procured from motives of incre friendstip. The principal members of the House of Commons, however, thought very difficently: that projected marriggo was the great object of their terrior. They saw no good that could result from it, but were appreheasive of a multitude of cvils, which, as the guardians of public liberty and general happiness, they thought it their duty to preient. They zecordingly framed a remonstrance to the king, representing the enormous growth of the Austrian power, becone dangerous to the liberties of Europe, and the alarming progress of the catholicreligion in England. And they entreated his majesty instantly to take arms in defence of the Palatine; to turn his sword against Spain, whose treasures were the chief support of the catholic interest over Europe ; and to exclude all hope of the toleration or re-eatablistiment of popery in the kingdom, by entering into no negotintion for the marriage of his son, Charles, but with a protstant princess. Yet more effectually to extinguish that idolatrous worship, they requested that the fines and confiscations to which the catholics were subject, by lav, should be levied with the utmost rigour ; and that the children of such as refused to conform to the established worship should be taken from their parents, and conmitted to the care of protestant diviues and schoolmasters.
Inflamed witr indiguation at hearing of these instructions, which militated against alt his favoarite maxinis of government, James instantly wrote to the speaker of the House of Commons, commanding hium to admonish tie members, in his wajesty's natme, not to presume to mefflle with any thing that regarded tis government, or with deep matters of state, as alove their reach and capacity; and especially not to toneh on his son's marriage with a daughter of Spain, nor to attack the tonour of that king, or any other of his friends and confederates. Conscious of their strength and popularity, the commons were rather roused thin intimidated by this imperious leker. Along with a new remonstrance, they feturned the former, wtich that been withidriwn ; and maintained, That they wero intited to interpose with their counsed in all maters of government; and that entire freedom of speecb, in their debates on public busifiess, was
their nintient and undoubted right, and an inberitance transmitted to them from their ancestors.
Tre kings reply was keen and rendy. He told the thouse, That their remoastrance was more like a denunciation of war than ay address of dutiful and loyal subjects; that their pretension to inquire into ali state sffairs, without exception, was a ploupotence to which none of their ancestors, even during the weakest reigns, bad ever dared to aspire : and lie closed his answer with the follawing memorable words, which discover a considerable share of political sasacity: "Although we cannot allow'of your style, in meationing your antient and updoubted righe and inheritace, bat would rather have wished, that ye had suid, that your privileges were derived from the grace and peraission of our ancestors and us (for the most of them grew from precedents, which shew, rather a toleration than inheritaice); yet we are pleased to give our royal assurance, that as long as you contain yourselves nithin the limits of your duty, we will be as careful to mainatain and preserve your tawful liberties and privileges, as erer ally of our predecessors were, nay, as to preserve our own royal prerogative"

Alarmed at this dangerous insinuation, that their privileges were derived from ragal favour, the commons framed a protest, in which they opposed pretension to pretension, and declared, "That the liberties, franchises, privileges, and jurisdictions of parliament, are the antient and undoubted birth-right and ialieritance of the subjects of England, and that the arduous and urgent affuirs conecring the king, state, and defence of the realm, and of the church of Eugland, and the maitenance and making of laws, and redress of grievancos, which daily happen withia the realn, are proper subljects, and matter of coansel or debate in parliameat; and that in lianding and proceeding on these businesses, every member of the house of parliament hath, ned, of right, oughe to have, freedom of speech to propound, treat, reason, and bring to conclusion the same."

The subsequent transactions of James's reigo were neither numerous nor important. They afford us, however, a precious picture of the wealkess and extravagance of hirman nature ; and therefore deserve our attention, as observers of the manners as well of the policy of nations, and of their vices and follies, no less, than the respectable qualities of men.
The Spanish match was stili the king's fivourito otject. In order to facilitate that measure, the dispatched a geatleman of the name of Digby, soon after created earl of Bristol, as his ambassador to the court of Madrid, while be sofened at home the severity of the laws against popish recusants. The same religious motives which had bitherto made the Spaniards averse against the marriage, now disposed them to promote it. They toped to see the catholic chureb) ffeed from persecution, if not the antient warship re-estabushed in England, by meaas of the Infants; and so foll were they of this idea, that Bristol, d vigilant and disorning minister, assured his master, that the Palatine would not only be restored to his dominions, but, what was still more agreesble to the needy monarch, that a dowry of two millions of pesoes, or about, five shandred thousand pounds sterling, would accompany the royal bride.

This allisnce, Liowever, was still odions to the Engith nation ; and Buckingliam, becoune jealors of the reputation of Brisolk by a most absurd adventirio contrived to ruin both him and the negotiation. On purpose to liggratiate himself into the yous of the prince of Wales, with whose candid turn of mind he was wall acquainted, lo represented to tiiu the peculiar unhappiness of princes, ia commoniy icceiving to theit arms an unknown bitide; one not enderred by sympathy, nor ooliged by setrices, wooed by treatics alone, and attached hy no ties wit those of political interest; that it was in his power, by going into Spuin in person, to avoid all theso inconveniences, and to lay sueli mo obligation on the Infinta, it he found ifor really worthy of his love, es conth not fail to warat the coldost nftechone: , that his journcy to. Madrid, so contorinable to the generous idea of Spayishigullintry, yonid recommend him to the princes 3 under the ciaracter of a devoted lover and daring adventurer; and, at the sawe time, would afford him a iglofious eppottunity of clusing for himself, and examining with lis own senses the companion of lis flutere life, and the partuer of bis bed and throne.
-Thicse arguments made a deep imprestion on the affectionate temper of Clarice. He obtuired in an unguarded hour, lis father's consent to the Spenish journey; and off the two edrenturers set, to the grent uneasinees of James; who, es soon as he had leisure for reflection, became afraid of baid consequences resulting from the upbridled spirit of Buckingham, and the youth and inesperience of his son. His apprehelsions were but too well founded, yef, for a time, the alfairs of the priace of. Wales wore a very promising and happy appearance ot Madrid. Plailip IV. one of the most manc pificent monarchs that ever sat on the Spanish throne, paid Charles a visit immediately wa his arival, and espressed the utmost gratitude for the confidence reposed in bins. He gave him a golden key, which opened all liis apartments, that the prince might, without any litrodiction, have nocess to him at all liours. He took the left hand of him ou every oceasion and in every place, except in the aportments astigned to Charles; a dis-

- tinction founded on the most perfect priaciples of politeness: "For here," said Philip, "you ore at home" He was introduced ioto the palace with the ame pomp and ceremany that attend tie Kings of Spain at their coromation, All the gaols were tbrown open, and all the prisoners received their freedom, as if the most fortunate and honourable eveat had happenid to the monarethy.
- Independent of his ciuthisiastic gallantry toward the Infinta, and the unparalleled confidence which he lid ploced in the honour of the Spanish nation, by his romantie joumey to Madrid, the tecent teserve, and modest deportment of Cbarles, endeared hian to that grave and formal people, and inspired them with the most favourable ideas of hils character; whille the bold manner, the unfestrained freedom of discourse, the sallics of passion, the levity and the liechtiousnes of Buckinghem, rendered him odious to the whole coltrt. The grandces could not conceal their surprige, thit such on onprincipled young main, who scemed to respect no laws, divine or humen, should be alTowed to obtruid limself into a negotiation, already nlmost conducted to a happy issuc, by $s 0$ able a statesitian as Rristol: and the ministry hinted a doabt of the sufficiency of his powers, as they had not been confirmod ty the privy council of England, in order .
- to prevent him from assuming the merit of the mintrimonial treifly. He grossty ths sultey, and publicly quarrelled with Olivarcz, the prime minister; a circumstance that drew on him yet greater detestation from the Spanish courtiers, who contemplated with horror the Infanta's future condition, in being exposed to the approaches of suci a brutal man.

Sensible how much he was bated by the Spaniards, and dreading the influence which the court of Madrid would acquire in England, in consequence of the projected marriage, Backingham resolved to $\mathrm{p}^{\text {toison the mind of the prince; and, if possible, to }}$ preveat the nuptials from taking phace: and he effected bis purpose. Ba: history has not informed us by what argoments he indoced Charlos to offer so beinous an affiont to the Spanish natlon, after such generous treatment, and to the Infanta, whom he had gone so far to visit, tund for whom lie had hitherto expressed the warnest attachment. In regard to those we are totally ir the dark. For although we may conjecture, froms his subsequent conduct, that they were of the political kind, we only know with certainty, that when the prince of Wales left Madrid, be was firmly determined to treak off the treaty with Spain, notwithstanding all his professions to the contrary; that, when Buckinghain arrived in England, he ascribed tho fallure of the negotiation solely to the insincerity and duplicity of the Spaniards ; that, by means of these false representations, to which the ging and prines of Wales merely gave their assent, lie ingratiated himself into the favour of the popalar party; and that the mation eagerly rushed into a war against the Spanish monarchy, in order to revengo insults it had never sustained.

* The situation of the earl of Bristol at the court of Madrid, was now truly pitiable ; nor were the domestic concerns of that coart a little distressing, or the king of England's embarrussment small, To abandon a project, which had, durigg so many years, been the chief object of his wishes, and which he had now unexpectedly brought to so desirable a cristi, a rupture with Spain, and the loss of two million of pesoers, were prospects by no means agreeable to the pacific temper and indigent cowdition of James: bat finding his only son averie to a match which had always been odious to his people and opposed by his parliament, he yielded to difficulties, which he wanted courgege and strength of mind to overcome.

It was now the business of Charles and Buckingham to seek for pretences, by which they could give some appearance of justice to their intended breach of treaty. They accordingly employed many artifices, in order to delay or prevent the espousals; and these ull proving ineffectual, Bristol at last received positive orders not to deliver the proxy, which had been left in his bands, until security was given for the full restitution of the Palatinate.

The king of Spain understood this language. He was acquainted with Buchingham's divgust, and had expected that the violent disposition, and unbounded infiuence of that favourite, would leave nothing unattempted to ombroil the two nations, Resolved, however, to demonstrate to all Europe his sincerity, and to throw the Blame where it was due, - he delivered into Bristol's hands a written promise, binding himself to procure the restosation of the eiector Palatinc. And when he found that this concession gave no satisfaction

Vol. I.
tosthe court of England, he ordered the Infanta to lay aside the titie of princess of IVales, which she had borne after the arrival of the dispensation from ltome, and to drof the study of the English language ; commanding, at the same time, preparations for Nar to be made throughout all his extensive dominions.

Bristol, who, during Charles's residence in Spain, had always,opposed, though unsuccessfilly, his own wise and well tempered counsels to the impetuous measures suggested by Buckingbani ; and who, even after the prince's departure, had strenuously insisted on the sincerity of the Spaniards in the conduct of the treaty, as weld as the advantages which Eugland must reap from the completion of it, was enraged to find his successful labours rendered abortive by the levitics and caprices of an insolent minion. But he was not surprised to bear that the favourite had afterward declared bimself his open enemy, and thrown out many injurious reflections against him, both before the council and parliament.

Conscious, however, of his own innocence, Bristol prepared to leave Madrid, on the first order to that purpose; although the catholic king, sorry that this minister's enemics should have so far presailed, as to infuse prejudices into his muster and bis country against a servant who bad so faithfully discharged his duty to both, entreated him to fix his residence in Spain, where he should ebjoy all the advantages of rank and fortune, rather tham expose himself to the inveterate malice of his rival, and the ungovernable fury of the English populace.

Bristol's reply was truly magnanimous. While he expressed the utmost gratitudel for that priucely offer, he thought himself obliged, he said, to decline it; that nothing would more confirm all the calumnies of his enemics than remaining at Madrid; and that the highest dignity in the Spanish monarchy would bo but a poor compensation for the loss of that honour, which he must endanger by such exaltation. Charmed with this answer, which increased still farther his esteem for the Eoglish ambassador, Phailip begged him at least to accept a present of ten thousand ducats, which might be requisite for his support, until he could dissipate the calumnies of his enemies ; assurigg him, at the same time, that his compliance should for ever remain a secret to all the world, and could never come to the knowledge of lis master. "There is one person," replied the generous nobleman, " two must necessarily know it : he is the earl of Bristol, who will certainly revcal it to the king of England!

The kihg of Enghand was unworthy of such a servant. Bristol, on his return, was immediately committed to the Tower. In vain did be demand an opportunity of justifying himself, and of laying his whole conduct before his master. Buckingham and the prince of Whiles were inexorable, unless he world acknowledge his misconduct; a proposal which his high spirit tejected with disdain. After being released from Sonfinement, he was therefore ordered to retire to his country scat, and to abstain from all attendance in parliament.

In consequence of the rupture with Spain, and the hostile disposition in the parlia--ment, an alliance was entered into, as we have formerly had occasion to notice, between France and England, in conjunction with the United Provinces, for restraining the ambition of Austria, and recovering the Palatinate. A treaty of marriage was, about the
A. D. 1625 .

BRITISH EMPIRE

- Aame time negotinted, between the prince of Wales and Henrietta of France, visteh to Levis XIII, and daughter to Henry IV, an accomplished princess, whom Charks had seen and admaired in his way to Madrid, and who retained, during his whole life, a dangerous ascendency over him, by means of his too tender and affectionate beart.
This match was highly agrecabic to James; who, although well acquainted with the antipathy of his subjects against any alliance with catholics, still persevered in a remantic opinion, suggester by hereditary pride, that his son would be degraded by ra ceiving into his bed a princess of less than royal extraction. He did not live, however, to see the celebration of the nuptials; but died, in the fiffy-ninth year of his age, soon after the failure of the expedition under count Mansfeldt, for the recovery of the Palatioate, which we shall hereafter liave occasion to mention, in tieating of the affairs of Germany,

That James was contemptible as a monarch inust perhaps be allowed; but that he was to as a man, can ly no means be admitted. His disposition was friendly, his temper benevolent, and his humour gay. Ife possessed a considerable share of both learning and abilitics, but wanted that vigour of mind and digaity of manner, which are essential to form a respectable sovereign. His spirit, rather than his understanding, was weak; and the loftiness of his pretensione, contrasted with the smallness of his kingly power, ouly perhaps coutd havu exposed bim to ridicule. Notwithstanding the ungracefuluess of his person, and the gross fumiliarity of his conversation, his turn of mind inclined him to promote the arts, both useful and ornamental ; and that peace which he loved and so timidly courted, was favourable to industry and commerce. It may therefore be coufidently affirmed, That in no preceding period of the English monarchy was there a more sensible incrense of all the advantages which distinguish a flourishing people, than during the reign of this despised prince,

Of six legitimate children, borne to litm by Anne of Detmark, Jamesteft only one son, Charles L. now in the esth year of his ago, and one daughter, Elizabeth, married to the elector Palatinc.

We now enter upou a reign prognant with memorable jncidents, We shall behold a contest betileen a-king and his parliamont, commenced by each party under the ostensible, and perhaps the actual idea of merely preventing the encroachments of the other. The generous spirit of liberty will appear, in many instances, degraded by the pernicious mixture of bigotry and faction ; and the proud pre-eminence of royalty will be seen to overleap the boundariar of the constitution, and deviate into occasional exertions of tyrannic power.

In the delineation of the turtutent scenes of this reign, it is extremely difficult for any writer to secure to bis labours the approbation of every party, or even after using the utmost caution, to be certain that he is totally divested of partiality or prejudice.

James Ras succeeded by his son Churles I., who ascended the throne amidst the high. est praises and caresses of his subjects, but soon found them divided in their religious and political opinions, and inflamed, in some instances, with the most violev hatred
of each other. The ling himself iuhberited from his father very lofty notions of the royal prerogative, and a violent attachment to episcopacy. He was also destitf fe of thint insimuating address, and those conciliatory manners, which might have bech usefully emplojed in sovtling the rage of party, and in allaying the ardour of popular 2eal.

His marriage with the princess Hearieta Maris, whom, in his name, the dake of Chevrcuse had espoused at Paris, produceid, as might paturally be expected, a long truin of unfortunate consequetces. Hefore her appearance in this realan. Charlos, in comr pliance with the private stipulations of the nuptial treaty, bad indurged twenty Romish priests with a full pardon for their violation of the lavs against popery. The catholics were greatly pleased with a match which promised them a relaxation of the rimour of the law; but the protectant part of the nation concecived a violent disgust to an alliance, which held out a favourable prospect to a sect proscribed by law, und odious for its cruelties.
When the neiv parliament met, Charles recoumended to the assembly a vigorous prosecution of the war which the late king had commenced by the advice of his subjects. The lond keeper-then wrged the expediency of a considemble supply, aifedging that the last grant had been consumed in necessary expences. When the commons procecded to business, some individuals recoumended a delay of supplics, till a redress of grierances should have been secured: but, as the plague then raged in the cypital (for it is remarkable that the reigo of Charles, as well as that of his father, commenced with a furious pestilence), the deliberations on the royal necessities were hastened, and two subsidies were voted to the new sovereign.
The smalluess of this grant has drawn forth sarious reflections from successive historians; but of all the reasons which bave been, or may be, assigned for it, the following seems to be the most probable. The satisfaction which the late parliament had evinced at the dissolution of the Spanish treaty, had been since allayed by the French alliance, which, in the-opinion of those who detested popery, portended as much danger to the protestant cause as had been dreaded from the union with the Infinta. This circumstance alone was sufficient, from the strong aversion of puyitans to the Romish faith, to kindle in that party a jealousy of the court; end, as their sentiments lad a great sway in the lower house, on unwillingness to gratify the king was the result. It may also be supposed, that the imprudence of the ministry in the direction of the late military enterprise had produced strong doubts of the capacity and judguent of the duke of Buckingham, the chief autbor of the counsels of the British cabinet; and that the parliament began to contract a disgust to the continuance of a war, which promised little success, when conducted by inexperienced hands. Another inducement to such a display of parsimony is the commons, may, perhaps, hive arisen from the prevailing spirit of liberty. They suspected that Charles had imbibed those high notions of prerogative which had been cheristed by the deceased king ; and were apprehensive that he would assert his pretensions-with greater spirit than his pusillanimons and inactive father. Hence they were "desirous of providing an early check to eventual encroachments on the privileges of the people; and, by keeping their monarch in a state of necessitous
dependence, they hoped to secure the preservation of their own rights and privileges and the liberties of the comutry.
f the fury of the pestilence increased, Charies adjournced thie parliament to Oxforg, where he endeavoured to conciliate the liberality of the commons, by an explicit detail of the state of his affairs and a fiesir appeal to their serise of the honour and dignity of their sovercigo and of the nation, which loudly called for their support of those measures into which their advice had impelled the late king.

During the recoss, the ninds of the people had been greatly infamed aguinst Cliarlos and the duteo of INuckingham, by a recent discovery. At the earnest desire of the French king, James had promised to reinforce that prince's flect with one ship of war and seven merchantmen. Lewis alledged that these vessels were to be cuployed against the Genoese ; but, when Charles had executed his fither's promise, it ispeared that they were intended to act against the Huguenots. Pennington, the commander of the English reinforcement, sailed to Dieppe, where he received orders from the duke to deliver up his squadron to such persons as the king of France should appoint. But his men refused compliance, declaring that they would rather die than become subservient to the ruin of their protestant brethren; and, weighang anchor, with the connivance of the commodore, returned to the Downs. Charies then sent a preremptory message to Pennington, requiring him to surrender lis fleet to the French, and that officer immediately saifed back to Dieppe, but coutd not overconie the strong reluctance of his men, who were so resolute in declining the odious service on which the king wislied to force them, that all of them, except one, quitted the ships. One of the vessels, under the command of sir Ferdinando Georges, hastened back to England; and, the rest being yielded to the French, were speedily manned by sailors of that nation, and took part in in engagement between tho duke of Montmorenci and the Huguenot fleet, in which the former had the advantage.

No small degree of clamour pervaded the nation, when these circumstances were fully known; and the king and the duke were reproached, as betrayers of the protestant cause, to which both had repeatedly professed a warm attachinent. The cormmons partook of the general spirit of their constituents ; they were inclined to apprehend that their religion was exposed to danger from the indifference which Charles and bis favourite minister had shown to its interests; they were disgusted at the relaxation of the penal laws against catholics; and decmed it wecessary to exert themselves in defence of the national faith.

In a petition which they preparci, an' which was supported by the concurrence of the peers, they expressed their dread of the perils with which they supposed the established church to be environed, stated the causes of the increase of popery in the realm, suggested a series of "remedies against that outragcous and dangerous disease," and implored the deliberate attention of his majesty to the points which they recommended. Charles, though displeased at their intolerant keal, thought proper to give a favcturfole answer to their demands, and promised to enforce the laws against re-- cusants.

> Vol. I.

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The state of the public affairs gave rise to frequent and warm debates in the jpwer house. It was affirmed by the lcaders of the opposition, that the kiug gave way fovif counsel; that the deficiency of the finances arose from the improvidence, neglece and prodigality of the administration ; that the schemes of the cabinet were precipitately formed, and unsupported by the maxims of prudence or expedie.cy; that persons of no wisdom or experience were suffered to gaide the helm ; and that various grievances prevailed, whifci the sovereign should be required to redreas, before supplies were granted to his solicitutions. It was proposed by som*', that an inquiry should be made into the conduct of the duke of Buckingham, particularly with regard to the dissolution of the Spanish treaty, and the negotiation of the French alliance. Other proposals and remarks, of a nature that disgosted the court, were favistity thrown out by the opposite party ; and the whole weight of ministerial fifluence could not procure the most trifling supply, without the unpleasing appendago of extorted concessions.

Charles could not witness, without indignation, the acrimonious and, incompliant disposition of the commons : and, his displeasure being inflamed by the insinuations of Buckingham, he resolved on the dissulution of the parliament; a measure which he immediately pat in execution. This was, cioubtless, an imprudent step, ill calculated to allay the rising jeatousies of the people; and, though the belhaviour which occasioned it may be alledged by way of extenuation, it argued a warmth and precpitancy, which could not be deemed strictiy consonant with the true diguity of a monarch.

Wien the pestilence liad subsided, the king ordered a pablic thanksgiving throughout the realm; and as his coronation had been delayed by that calamity, he was now formaily invested with the English diadem. Soon after this solemnity, he opened a new parliament, which his necessities had induced hiun to convoke. Sir Thumas Coventry, who had lately succeeded bishop Williams is the station of lord-keeper, was commanded to deliver his majesty's sentiments to the zwo houses; and, after some pompous compliments to the sorereign, he intimated the expediency of a supply, and recommended the iniroduction of pruvidenk and beneficial laws.

From the early debstea of the commons, Charles perceived that the same eagerness for the reformation of athises, the same inquisitorial spirit, which had been displayed by the last assembly, actuatet also the present. The efforts of the popular party procured a resolution of the boase, that it comaittee for secret affairs, and another for the examination of grievances, stould sit tro days in every week. A commituee of religion was alse appointed; und, in consequence of a repy.t from it, articles were exhibited against Pichard Montague, a learned divine, who, in various publications, had advanced such venitions, as inducol the novie to declare hinn un encourager of popery and Arminianisu. But the desire of punishing this ecelesiastic was soon absorbed by the more justifiable proseculion if an undeserving favourite, who ruled \#ls sovereigo with arbitrary sway, and whose clasracter and disposition rendered tim unworthy of public trust, and even of that transient popalanty wiich he had acquiked near the close of the preceding reign.

The duke of Buckingham was attacked in buth houses of parliament. Among the .
peers, the earl of Bristol extibited a series of articles against the duke, whom he represent d as having advised Charles to change his religion, taken unwarrautable steps with a vicf of breaking off the match with the infanta, occasioned the disappointanent of the hopes of the prince Palatine, and deceived the parliament by a false narrative. While these charges occupied the atteation of the peers, the commons demanded a iconference, for the purpose of impeaching the dake. The offences which, they imputed Io this minister were comprised in 13 artieles; the chief of which were, that he had neglected the due execution of hits office of lights admiral ; that he had unjustly detained a French vessel, and seized the greater part of her cargo: that he had extorted 10,000 . from the East India Company; that he had delivered English vessels to -the king of France, to be employed against the Huguenots ; that he had put offices and honours to asle ; had procnred exorbitant grants from the crowa; and had tampered with the health of his late sovereigo.

The displeasurewhich Claries felt at the impeachment of his favourite, vented itself on sir Dudley Digtoses and sir Joln Eilliot, two of the managers of the prosecution. Some expressions which they had used were reported to him with exaggeration; and he immediately committed the two obnokious orators to tho Tower; but he soou found it prudent to release them.

The duke gave plausible ansirers to cach of the artcles; and, if a regular trial had akken place, it is probable that he would have invalidated some of them: but the king's indignation was so warm, that he resolved to crush the proposed inquiry, regardless of the censorious remarks and unfavoarable constructions of the pullic. Having sent a haughty epistle to the speaker, intiuating lis desire that the bill of :upply should pass the commons, without delay or condition, he found that, though they had voted a fourth subsidy, they were deternined on with-holding the actual grant of aid till he should disclaarge all popish recusants from offices of trust and authority, banish the accused duke from his presunce, and agree to such requests as they might think reasonable. Impatient of the uncourtly treatment which he had received, and unwilling to encourage, by a facility of concession, a series of unpleasing demands, he signed a commission for dissolving the parliament. The peers, leaming his intention, begged biun to defer it; but he was so obstiuately bent on the gratificition of bis spleen and resentment, that be refused to comply with the desire of his hereditary counsellors, and, with a rashness into which he was too frequeatly hurried, enforced the odious measure of an abrupt dissolution.

This measure was followed by a dectaration, in which the king endeavoured to palliate his precipitancy, by represcuting his confluct as the natural consequence of the incompliant sptrit of the commons, who had outraged his feelings, despised his gentle admonitions, neglected their Rugagements for the defence of the realm, and seemed to triumph in his necessities. The commons, in justificatiou of their proceedings, published a remonstrance, which they intended to have presented to his majesty before the dissolution. In this performance, they made warm professions of their loyalty and pa.triotism; complained of the miscondact of the duke of Buekiagham, of the imprison-
ment of their members, of the king's mensee of wing new counsels, and of various gperAnces under which the nation laboured; entreated Charles to dismiss his favourite from the administration, and promised, in the event of his complianee, that they would spedily gratify lis desire of supply, and would proceed with alacrity to the accomplishment of such measures as would tend to the support of his ellies, and to the stability, wealth, and honour of his kingdom. The king, in a proclamation, expressed bis displeasure at the injurious expressions and calumnious remarks contained in the remonstrance, and commanded that all persons whio had conies of it in the? possession, should immediately comanit them to the flames.

His indiguant impatience having deprived him of parliamentary grants, Charles had recourso to such means of supply, as some of his prodecessors bad adopted. He had raised, however, no large sum, when he received inteltigence that the king of Denmark, whose operations had been obstructed by the irregular payment of his English subsidy, had been defeated, with great loss, by count Tilly, who commanded the Itoperial army. To provide for the effectual relief of his northern ally, to whom he now sent the 6000 British soldiers who had served in the army of the States General, Charles resolved to demand a general loan, in that proportion which each indiviJual would have borne, if the late vote of supply had passed into a law. Though he promised to remburse his subjects in a twelremonth, the demiand occasioned great disgust and clamour, for it was strongly suspected, that the royal promiso would not be strictly observed; and the pubiic aiso apprehended, that, if the requisition should be tamely submitted to, the king would be encouraged to a disure of parthitnients. But, the greater was the discontent, the more strenuously did Charles prosecute his porpose. Those who refused to comply with nis wish, or promoted, by their exbortations, the non-compliance of others, were subjected to various kinds of arbitrary treatment. Many were punished for their insubmissive behaviour, by being compolled to serve cither in the army or navy; some were harassed by the intrusion of an unusual number of soldiers, who were quartered even in private bouses ; several were employed, against their will, in expensive services ; and not a few of the gentry were committod to prison. These exertions of power could not tut augment the uopopularity of the government ; and complaints of insulted privilege and violated freedom resounded through the nation.

The duke of Buckingham, having found means to involve his master in a war with France, conducted, in the next year, an unsaccessful expedition to the isle of Rhe, in wtich the English lost about g000 men by the sword, while many individuals of their number peristied by disease.

The pariament having again assembled, the king opened the session with an injudicious harangue, in which be urged the two honses to provide for the defence of the chureh and state, and the support of their protestant allies, addting, that if the members did not perform their duty, he would use other means which God had put into his hands. The commons, neither intimidated by this threatening, nor soothed by the promises which Cbarles afterwards gave them, to maintain all his subjects in the just freedom of their persons and safety of tbeir estates, emploged themselves in drawing up a petition of.
A. D. 1628 .

BRITISH EMPIRE.
right, in which thoy desired the lords to concur. Having received the assent of both Whouls, this instrument was at length presented to the king, who, after some days of evitsive felay, enacted it into a law in the usual manner.

The purport of the petition of right was, that no person should be compelled to the cohtributiou of any " gift, loan, benevolence, tax, or such like charge, without common consent by act of parliament;" that none should be molested for a refusal of such demands ; that no freeman should be imprisoned or retained without the assignment of a legal cause ; that no soldiers or mariners should be quartered in any house against the will of the possessors ; and that no commissions for martial law should be granted.

The remainder of the sessions, after granting a supply, was chiefly occupied in dispuites respecting the right of levying the customs. The parlaunent was prorogued on the 96 of June, and did not reassemble till the beginning of the following year.

During this interval, the obnoxious duke of Buckingham was deprived of his life by the hand of violence. John Felton, who had served as lieutenant in the expedition to the isle of Rhe, on which occasion his captain had been mortally wounded, had been disgusted at the duke's refusal of the vacant company to his solicitations; and, as he was in indigent circumstances, his displeasure had received some increase from the non-payment of his arrears. The general clamors of the public against Buckingham made a strong impression on the feelings of the disappointed licutenant: and a perusal of that remonstrance, in which the commons had represented the duke as the principal author of all the grievances of the nation, and as a betrayer of the honor and interest of his country, concurred with the seditious effusions of some of the ecclesiastical advoeates of opposition, to urge him to the assassination of an unpopular minister, who was at the same time, an object of his personal resentment. Having gained admittance into the duke's lodgings at Portsmouth, he stabbed him in the left side while he was conversing with one of his officers. The unfortunate victim instantly exelaimed, " the villian has killed me," and pulling out the knife, fell to the ground and quickly expired. The murderer had an opportunity of escaping, but his enthusiasm prompted him to glory in his crime, and to decline all thoughts of flight. Being interrogated with regard to his motives for so atrocious a deed, be affirmed that they were of a public nature, and that he considered the destruction of the great enemy of the state as a meritorious service both to God and his country. We are informed, however, that he afterwards expressed a strong compunction for his crime, and that he besought the judges to order his offending hand to be struck off before his execution.
The session of parliament, which was held in the year 1699, was more remarkable for its abrapt teruinationOthan for any business which was transacted in it, Sir John Elliot, on the gnd, of March having moved for an enquiry into the conduct of sir Richard Weston, the speaker, sir John French, produced the royal message for another adjournment. Several members disputed this order, affirming that it belonged to the - house to adjourn itself, and Elliot having renewed his attack on the lord treasurer, offered a remonstrance against the further exaction of tonnage and poundage, The speaker and clevk having refused to read it, he read it himself to the house, and thea Vob. I.

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desired that the former would put the question for adopting or rejecting it. He repliet, that he had received a peremptory command from the king to desist from all parliafhentary business, as soon as be had mentioned the order for an adjournment. He then left the cbair, and clamor aud coufusion immediately ensued. Denzil, Holles, und other members drew him back to the ehair and held him in it motwithstanding his tears thad entreaties, and the efforts made for his release by sir Thomas Edmonds, and other courtiers. Selden bhamed him for his disobedience to the will of the house, and sir Peter Hayman, not only reviled him with great acrimony, but proposed that a new-speaker shoald be elected. As he persisted in his refusal of concurring in measures which he knew would be unpleasing to his sovereign, Holles was desirea to act as temporary president and to read the three following articles, viz. that whosoever should attempt to introduce popery or arminianism, or make any innovations in the true religion, should be reputed a capital enemy to the kingdom and commonwealth, that whoever should advise or promate the collection of tonnage and poundage without a parlinmentary grant should be deemed an innovater in the government and a great enemy to the state, and that every individual who should voluntarily pay these duties when they had not been granted by parliament, should be considered as a betrayer of the liberty of England, These resolutions, so expressive of the bold spirit of those that framed them, were voted amidst the applausive vociferations of the prevailing party.

1. The irregular proceedings of the popular leaders were soon communicated to the king, who sent for the serjeant at arms, but the door of the house had been previously locked and that officer was not permitted to obey the order. Charles then commanded the usher of the black rod to intimate to the commons his desire of their instant adjournment, but they refused to admit the messenger Enraged at these insults, he sent some of his guards to force the door, but by this time the three resolutions had passed and the members had separated.

The king's resentment was so inflamed by the behavior of the patriotic party, that on the day of the tumult, he signed a proclamation for dissolving the parliament in the ensuing week. In the mean time, sir John Elliot, sir Peter Hayman, sir Miles Hobart, Holles, Selden, Coriton, Long, Strode and Valentine, were summoned before the privy council to answer for their behaviour. The four first having made their appearance, underwent a short examination after which they were sent to the Tower. The five others being afterwards apprehended were also committed to prison.

Of the nine gentlemen who had thus exposed themselves to the -king's resentment some remained a long time in confinement, while others on complying with the tevais that were required, namely, security for their good behaviour, and in some instnnces, payment of fines, soon recovered their liberty. Elliot, disdaining the thoughts of submission, continued a prisoner till his death, and the public considered him as a martys in the cause of freedom. He was a man of talont and courage, an eloquent speaker, andrur active assertor of the rights of the people.

While Charles was not on the most amicable terms with his subjects the continuance of foreiga war was not desirable. A peace was therefore this year made with France,
which contyined no stipulation in favour of the Hugaenots, and another whs concluded Wuest year with Spain which confirmed the former treaties, with e promise that Philip would use his interest witir the emperor in flivour of the deprived Palatipe,
4he chief favourites of Charles at this period were bishop. Laud, the lord-treasurer Weston, and Thomas lord Wentworth, whose characters westall here delineate,

Laud was a learned and devout prelate, but bigotted, severe, and implacable. He elierished a warm passion for the aggrandizement of the charch, was skperstitiously attached to ceremonial observances, and sedulouisly endeavoured to introduce an uniformity of worahip and discipline. He encouraged in the ecclesiastical courts the exercise of a disgusting rigour, and the puritans found him a pertinacious and rancorous enemy. They, on the other hand, professed an extraordinary hatred to him, they reviled him tata persecutor of the true religion, alnd as one who aimed at the re-establishment of popery, as an instigator of the king's arbitrary measures, and a foe to the constitutional interests and happiness of the nation. These charges are, perhaps, aggravated, but, it is, reetain, that thoughi liewasaverie to the chief doctrines of the papists, he adopted some cerctmonies which bordered on Romishmummery, and, with respect to the advice which his sovereign received from him, it may be justly affirmed, that it did not always flow from the maxims of pridence and moderation, from sentiments of liberality and honor, or from principles of true patriotism.
Sir Richard Weston possessed a mediocrity of abilities and some dexterity in Dusiness. He was strongly infloenced by ambition, which had induced him to court the favour of the late duke of Buckingham, who had procured for him the office of chancellor of the exchequer, from which he was removed, by the same interest, to that of hightreasurer. Ttres promoted he became arrogant and imperipus, treated lis friends with ${ }^{+}$ haughtiness and neglect, and disobliged his powerful patron, who, if he had not been so suddenly cut off, would have remover the treasurer whom his influence had appointed. Selfish and rapacious, he procured considerable grants from the crown, while he studiously prevented the current of royal bounty from flowing into other channels. Though he enforced the penat laws against the catholics, he was himself considered as n papist in heart, and as that was then a term of high reproach, such a suspicion operated greatly to bis prejudice in the minds of the public. In the discharge of his great office, he did not display that provident eare and judgment which were expected from him, and in the counsels which he saggested to Charles, he was more desirous of flattering the monarchal inclinations of that prince than attentive to the real interest of the community.

Sir Thomas Wentworth was superior to Laud and Weston in political knowledge and general abilities. He was of a bold and active spirit, but of a stern and domineering jemper. He was vain of his own endöwments, and disdainful of the merits of other hym - Ale had commenced his parliumentary carcer as an adversary of the court, and fad been imprisoued for a refusal of the loan. But his opposition was not so disinterested as to reader him impenetrable to the allurements of the royal favour. The offer of a peerage and of ministerial employment, relaxed the sinews of his patriotism,
and rendered him a zealour supporter of the aduinimistration, which he had pefore cons. demned.

Besides these three counsellors of Charles, there was an illustrions fomale, who had a great influence over him. This was his queen, whose lheauty and exterior afcoinplishments had captivated his heart, and whose spirit, vivacity, and address, had comp pleted the triumph of her personal attrixtions over the obsequious monarch. As she was distinguished by a warmuth and impetuority of temper, was a bigot to tho papad doctrines, and possessed high notions of the royal pre-entinence, she was not perfectly qualified to give judicious advice to the protestant ruler of a free people.

While the king was swayed by the suggestions of thêse advisers, he retained as little popularity as the ill counsels of the duke of Buckingham bad before allowed him to enjog. They encouraged him in the arbitrary priaetples which he had imbibed from his father, and stimulated him to the transgression of those limits to which the assertors of constitutional rights wished to confine him.

The abrupt dissolution of three successive parliaments, and the intimations that were given by Charles in a proclamation which he issued soon after his dismission of the third, that he should convoke no more assemblies of that kind till he should have reason, from the cessation of the present ferment among the people, to expect a greater degree of propriety in the conduct of their representatives, gave a loose to the tongue of censure, and epened the sources of discontent. The menace of ruling without a parliament indicated, in the opinion of many, an intention of governiug without regard to law, and it was easy for the popular party to take advantage of that injudiciaus effusion, and to render it subservient to the propagation of reproach, by insinuating that it was the evident meaning of the court, to subvert the constitution and establish a system of oppression.

For the space of 11 years (for that was the duration of the period which elapsed between the third and fourth parliaments of this reign) Charles conducted the machine of government according to his own will and pleasure; and, as be bad before beon guilty of some acts of power, notwithstunding the many checks he had occasionally received from his parliaments, the reader will naturally suppose, that, on the removal of the controul of those assemblies, he did not observe a greater degree of moderation in his proceedings. And-indeed, by the confession of his panegyrists, he hadrecourse in that intorval to some practices that were harsh and injudicious, and to others that wereinconsistent.with the maxims of the constitution.

The king's proclamations were required to operate as laws and to the decrees of the privy counsel a general submission was demanded. Pecuniary applications were frequent and various kinds of exactions prevailed. Tonnage and poundage were collected with rigour, and, on some articles of commefte, the rates were auguented. The an tient laws of the forest were revived that the crown might profit by the pemalhor, and obsolete statutes were rigorously enforced with the same view. Monopolies of manh commodities of ordinary use were granted to those who made liberal offers for the patents. Fines were levied on those, who having 40 I a year in land, had refused knight-
hood at the coronation of Charies. Inquisitions were mede into the validity of titles to kronu-lands, nud such as could not clearly prove thitir tight were muleted. Dy thees and other means, some of which were prodoctive of great discontent, did the kitng endeavour to supply his exigencies.

Ifor tho support of these moiles of finance, and the protection of such as were concerned in them, the court of Star Chamber, as reell as the privy councit, assumed an extraordinary and illegal extent of jurisdiction. Trifling offences were punished by the former with enormous fines, und, under the auspices of Laud, a systemstic sescrity pervaded its decrees. The High Gommission court was also a source of pppression; and, as the juiges of the regular courts of law were subject to removal at the roynl pleasure, their sentiuents and decisions were generally swayed by their knowledge of the inelinations of their sovereigh.

In 16ss, Charles paid a visit to Scotland, was received at Edinhurgh with generat acclamations, and was crowned in the capital by the archbishop of St . Audrew's. Tiwo days afterwards be opened a Scotch parliament, which readily granted him a subsidy, and passed several useful statates with great unanimity; but a strong oppiosition twas made to a bill, "fich confirmed two acts of the late reign; one for the recognition of the royal prerogative over all persons, and in all causes whatever; and the other for cmpowering the king to regulate the habits of magistrates and ecelesinstics. The friends of the presbyterian syatem, apprehensive that Charles would introduce the surplice and other elerical vestments, which they detested as relies of popery, desired the two acts might be separated, as they approved the former, but were displeased with the latter. The king, however, declared that they should not be digjoined; adding, with little regard to the privileges of parliament, that, as he had a list of all the members, he shoukd take exact notice of those who were inclined to serve him, and of those who were not. This attempt to overawe thicir deliferations, did not prevent the earl of llothes, and other opponents of episcopacy, from persisting in their dissent to the union of the two acts in one bill; notwithstanding which, it passed according to the king's iaclination. Another bill, for the ratification of the late acts concerning religion, produced some debate, because it tended to the establishment of the episcopal system.

It would go beyond the limits of our present design, to relate all the insiances of extreme oppression, which were perpetrated, about this time, by this ill-advised prince, and his more guilty ministers: we shall thercfore pass on to that glorious, struggle for freedom, which has rendered the name of John Hampden dear to thic patriots of all succeeding gencrations. The ship-money, which had been levied without consent of parliament for the maintenance of the navy, had been employed for many purposes of great national benefit; bat as it was an illegal exaction, the English were never reconciled to this mode of taxation. They were greatly pleased with the spirit of John Hampden, a man of respeetable family and fortune, who, animated with a laudable zeal for the liberties and privilegso of the people, resolved to undergo a prosecution frgm the crown, rather than submit to an arbitrary impost. Being assessed at \&Or. for pateoin Buckinghamshire, he boldly refused to comply with the demand; and a Yol. I.

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procesy in the exchequer was the consequence of his refusal. Ail the judges assisted it this important trial, and it formed, for a time, the chicf topic of conversation. The cause was elaborately argued on both sides; but as a detail of the arguments would $\mathbf{f}$ bo tedious, we shall only mention the leading points. Oliver St. John opened the basiness on the part of Slampden, and endeavoured to prove, that the provisions madt by law for the general detence of the realm were sufficient, on the present occasion, without the necessity of demanding ship-money : that even if the ordinary means of defence were inadequate to the exigency, the only constitutional mode whs, to have recourse to a parliament for a supply, and that nothing bet such a state of war as should reduce the nation to an obvious extremity of danger, could firnihh a pretext for the demand which his elient opposed. The solicitor-general, sir Edyard Litteton, supported the pretensions of the crown, by affirming, that neitner Magon Charta, nor the petition of right, precluiled the king from providing for the defence of the realm, by that meastife which he had now adopted; that it was justified by precedents; and that the interesting considerations of public safety required the exercise of a power so useful and necessary. Robert IIolbourne replied to the solicitor, confuted his reasonings, and effectually controverted his precedents. Tbe attorney-zeneral, sir John Bankes, magnified the power of the crown, and quoted such cases as appeared to lim to prove that the king was authorised, by the constituticn, to levy ship-money in times of national danger, of which he was the sole judge. After an interval of several months, the judges publicly delivered their opinions in this cause. Eight of then-dectared in favour of tho crown; óne, though he supported the king's right of deraanding sspplies in expectancy of danger, gave judgment for Hampden, on account of some informalities in the process; two, on the more substantial grounds of constitutional justice, pronounced sentence for the patriot; and the twelfth, being prevented by iltness from stating his sentiments in court, signed a certificate, expressive of his opposition to the royal claim.

The continued attempts to introduce episcopacy into Scotland were the source of the greatest discontent among the inhabitants of that kingdom. Not content with testifying their disapprobation by tumultuons violence, they formed themselves into four tables or counsels, one consiating of nobies, the second of gentry, the third of burgesses, and the fourth of eeclesiastics. Commissioners, selected from each of these bodies constituzed a general table, the edicts of which were obeyed throughout Scotland with greater alacrity than the injunctions of the king or magistrates. This serious combination soon produced a solemn covenant, by which, after renewing the abjuration of popery, whilh had been subscribed in the late reign, the confederates bound themselves to oppiose the late ianovations, to defend the person and authority of the king, while he should maintain their privileges, both eivil and religious; and to support each other in the same cause against all persons whatever. This corenunt was signed with the atmost eagesness by all denominations of people, and the spirit of resistance spread with rapidity through the Scottish provinces.

Every thing now began to wear a hostile appearance, and though some fruitless nggotiations were carried on between the king and covenanters, each side mado thenp ut

## BRITISH EMPIRE

powerful preparations to decide the content by the edgo of the sword. The covenanters Aopointed a cotnmittee of war for every county, that troops inigit be levied with the more expledition. They sent agents to the continent, to purclase arms and ammunition, and cardinal Richelieu, by a supply of money, promoted their bold schemes. They blockaded ple king's principal casties, erected fortifications at Leith, collected taxes for their own use, and domineered over the country with great arrogance. Their chief, general Lesley, reduced the castlo of Edinburgh; and the same fate specdily befel the fort of Dalkeith, and the fortress of Dumbarion. In different counties, sevcral skirmistes passed between the royalists and the covecanters, in which the former were generally unsuccessful.

Having obtained pecuniary contributions from his opulent subjects, Charles repaired to York, where he had ordered a rendezvous of his forces. He had sent circular letters to his nobles, commanding their attendance, and a considerable number obeyed tis summons. Being reinforced at Durbin, he advanced toward the Tweed, with an arany of near 90,000 infintry, and above 3000 cavalry.

Information being received in the royal camp, that general Lesiey had posted himself on an eminence, at a smill distance, the earl of Ifolland was detached with a body of horse and foot, to reconnoitre the Scots, and attempt to dislodge them. When he had approached them, he sent a trumpeter to demand an immediate retreat; but they ridiculed his messige, and the himself thought proper to retire, pretending they far outnumbered his troops. His retreat as much discouraged the royalists as it elevated the hopes of their antagonists. In the mean time, the general want of zeal which seetned $t 0$ prevail io the royal army, induced Charles to listea to pacific overtures. Commissioners being appointed on each side, the conferences were quickly opened, and a pacification was adjusted in the following mamner. The king signed a declaration, in which he consented that all ecclesiestical offairs should be determined by the general assembly of the kirk; cnd all civil matters by the parliament, and the legal courts of judicature. Ho also engaged to restore whatever had been seized by his adherents, and to dismiss his fleet and arny, on condition that the covenanters should immediately disband their troops, deliver up all their fortresses, make restitution of such private property as they had taken; abstain from illegal meetings, and behave, in every respect, with loyalty and obedience.
This peace was of no long duration: Charles could not prevail ou himself to abandon the cause of episcopacy, and secretly intended to seize every favourable opportunity to recover the ground he had lost. The assembly, on the other hand, proceeded with the utmost fury and violence. They voted episcopacy to be unlawful in the clitich of Scorland; they stigmatised the canons and liturgy as popish, and justy denominated the bigh comrsission a species of tyranny. The parliament which sat after the assembly, edvanced protensions which tended to diminish the civil power of the monarch; and they were proceeding to ratify the acts of assembly, when, by the king's instruction, Trageaire, the commissioner, prorogued them.
peconit of these claims, war was recommenced the same year. Charlea could
not re-assemble his army withour great trouble, expence, and loss of time; an the enntrary, the covenanters, in dismissing their troops, had ordered their officers to bo rep on the first summons, and warned the saldiers not to think the nation secure from uin English invasion, 'The religions yeht which amimated all ranks' of the covenainters, made them fly to thieir standards as soon as the trumpet of ularm was sounded thy theip leaders.
In 1640, the king drew an army together: but, finding liinself umble to support them, yas obliged to call a parliament, affer an intermission of abont 11 years. As the sole design of the king's calting this pirliament was to obtrain a supply, and the ouly reason they liad fur attending it, was to obtain a redress of grievanees, it is not to be supposed there could be any good agreement betreen them. The consequence of this discord was a dissolution, that could not fail to inerease the discordant spirit of the nation.
The king, being disappointed of parliamentary subsidies, was obliged to bave recourse to other expedients. The egelesiastical sabsidies served him in some stead, and it scemed but just that the elergy should contribute to the expence of a war, which had been, in great measure, of their own raising. Ife borrowed money from his ministers and courtiers, and so much was he beloved by them, that above 500,000 , were subscribed in a few days. Some attempts were made towards forcing a loan from the citizens, but still repelled by that spirit of liberty, which was now become unconquerable. A loan of $40,000 \%$, was extorted from the Spanish merchants who had bullion in the Toner. Coat and conduct money for the soldiery was levicd upon the counties; an antient practice, which was supposed to bave been abolished by tbe petition of right. Aff the pepper was bouglit froar the East India company on trust, and sold, at a great discoimt, for ready moncy.

These unpopular proceedings increased the general discontent, but emalied the king, though with great difficulty, to march his army, consisting of 19,000 foot and 2000 horse. The earl of Northumberland was appointed general; the earl of Strafford (lord Thomas Weritworthi), fieutenant-gencral ; and lord Conway, general of the horse. The Scots were soon ready, with a superior force, and raarched to the borders of England. They professed to enter England with no other design than to obtain aceess to the king, and lay their petition at his feet. At Nerrburn upon Tyne, they were opposed by a detachinent of 4500 men, under Conway, who seemed resolute to dispute with them the passage of the river; the Scots first entreated, with great civility, not to stop them in their march to their gracious sovereign, to whom, they said, they intended to present i. loyal petition ; and, on receiving a refusal, attacked the English, whom they defeated, with the loss of about 60 men ou the side of the vanquisbed. This trifing rencontre produced more important consequences than could have been expected; for lord Conway was struck with such consternation, that he hastened to Newcastlo, and, finding the generality of the troops possessed of the same feelings, retreated to Durham, and even farther southward, with an army of 17,000 men, from an enemy whom the English bad frequently routed with a considerable inferiority of numbers.

Charles was induced, by the succession of unfavourable circumstances
pertenced, to adopt measures of a lenient and pacific nature. He appointed English - commissioners to mect those of the Scots at Rippon, where it was agreed that 8501 . per day phould be allowed for the maintenance of the Scottish army duriug the treaty, that there should be a cessation of hostilities, and that a free commerce should be restored. The king ratificd this preliminary agreement, and as the time which the king had lutely fixed for the meeting of his fifti parliament approached, be consented, at the desire of bis commissioners, to transfer the treaty to London.

When tho new parliament asscmbled, it soon began to display a great fervour of zea, for the redress of grievances. A committee was appointed to inquire into the legality of the tax which was denominated ship-money; and it was unanimously resolved, that such an imposition was repuguant to the laws of the realm, to the common right of property, to former resolutions of parliament, and to the pettition of right; that the opinions of the judges in favour of that charge were also illegal, fund that the judgment given against Hatupden was liable to the same censure. Directions were given to prepare articles of charge against six of the judges, who were respectively obliged to give security for a full submission to the determiartion of partiament.

Inquirics were also made into the proceedings of the Star Chamber, and other arni trary courts ; and many of those who had suffered by such sentenees as the commons deenied unjust, were now relieved. Ecelesiastics, who had been imprisoned or deprived oy tho prelates, were restored to their liberty and preferments. All who had concurred Ah any sentence which displeated the commons were now pronounced delinquents, and menaced with persceution. Patents of monopoly were declared to br illegral, all who had obtained them were exposed to the dread of punishment, and persons of that description were expelled from the house. Lastly, the courts of 1 ligh Commission and Star Chamber were abolished, to the great satisfaction of the nation in general.

Thus fir it is admitted, by most liberal and impartial men, that the conduct of the house of commons was, unless in a few instances, agreeable to the spirit of the constitution, and worthy of the purest and most disinterested patriots ; but thet, in many of the measures to which they now proceeded, revebge and the love of power mingled sith their better motives, and, opposed to the arbitrary measures of the court, became the source of those dreadful calatmities, which soon after filled the nation with confusion and blood.

The beginning of the year $16+1$ was chiefly spent in the prosecution of the earl of Strafford. The lords and commons being assembled in Westminster-hall, the trial was opened with the usual forms, the earl of Arundel officiating as high-steward. The managers of the impeachment laboured to prove that the earl had traitorously endeavoured to subvert the fundamental laws and government of the realms of England and Ireland, and to introduce an arbitrary and tyrannical sdministration; that he had obtained a coplmission, which conferred on him an unconstitutional power (as president of the
hcil in the north of England), which he had exercised, to the ruin of many individuals; he bad spoken contemptuously of the law, and magnified the authority of the king; he had represented Ireland as a conquered country, and thercfore liable to be raled Vol. I.
with arbitrary sway, and had followed this maxim in the governmeat of that kingdom. It was also stated by his prosecutors, that lie procured a sentence of death to be unjustly* passed against lord Moust-morris; had illegally deprived many of the Itish of their hieny and estates; had granted warrants to different bishops, for the exercise of unlawful authority; had framed the customs, and exorbitantly advanced them ; had profited by various monopolies, and had practised many unjustifiable methods of enriching himself, at the expence of the Irish; had imposed taxes on them, and levied them by force of arms; had ill treated those who had repaired to Engtand to complain of his tyranny; and (to sum up the remaining articles in a fow worts) had encouraged the catholics, oppressed the Scottish inhabitants of lreland, advised the king to declare war against Scotland, urged him to violate the pacification, raised an army in Ireland for the sulversion of the liberties of England, instigated lis soveregn to a variety of arbitrary nets, and betrayed his trust as lieutenant gencral of the Eaglish army, by promoting the success of the Scots, that the national quarrel might be rendered igeconcilcable.

This complicated charge was enforced with great skill and eloquence by Pym, May nard, and other manegers, and repelled, with equal ability, by the sagacions und intei ligent earl. He denied some of the charges, extenuated others, and insisted on the insuficiency of all, cither taken siagly, or collectively, to constitate the crime of treason.

To the principal artieles, it may not be improper to mention the substance of his answers. With regard to lis condnct in Ireland, he ivdirectly acknowledged, that he mad, on somo occasions, exceeded bis jurisdiction, and performed such acts as were not strictly consistent with the ordinary course of legal proceedings ; but these acts were justified by the incidental necessity of the case, by the conduct of former governors, and by that imperfect stato of Hibernian subordination, which required a strong exercise of executive pouer. Aud even if ha had acted thus without any manner of nuthority, it could not properly bec called a subversion, bat rather a diversion of the law ; as the substuntial efficets of the law lad taken place, though in a way somewhat different from tiec usuad process. It he tad deviated from the strict line of law, he had never been actunted by those despotic motives which were imputed to him; be hai not aimed at the establishment of tyranny, but had been influenced by views of equity and expediency, or by the casual dictates of political necessity. With respect to his conduct, as president of the northern council, be justified all his acts by the instractions annexed to his commission, the extent of which had not been regulated by his advice. The different counsels which he had suggested to the king, were, in some instances, he said, grossly misrepresented, by the witnesses who had appeared against him, and in others wholly falsified. That he bad concurred, with other privy counsellors, in a general vote, intimating that the demands of the Scots were exorbitant, and their perseverance in them would render it expedient to cmploy force he did not deny; but such an opinion was far from wing treasonable. 'That he had advised bis majesty to reduce his Englisb sabjects to per ctsubmission, by means of an Irish army, was he said, a false assertion; and though ha . 4 lowed that he said the king was absolved from ordinary rules of government, he

## BRITISH EMPIRE

ssly confined the observation tn cases of iavasiou or imminent danger and incritable necessity, and urged the propriety of making reparation to individuals, as soon as the yerils had coased.

Alter mature deliberation, the earl's prosecutors were of opioion that his condem nation could not be so easily obtained from the lords in a judicial way, as in a mode which would leave them more at lijerty to follow thie dictates of their private judgmeat, without a punctilious arlherence to the rules of law, or to the rigid doctrines of ev dence. A bill of nttainder was therefore brought in against him, which passed througa the lower house with some opposition, and at iength received the sanction of a smad majority of the assembled lords. Charles was extrenely unwilling to sacritice the life of one whem he considered as an able and faithfal servant, therefore made several proposals to both houses, to have the sentence changed to some milder punishment; and not till be liad received the cousent of the unfortunate earl, would he give his assent to the fatal bill. But the earl seems to have repented of this magnanimity; for, when be fuund that his advice had been taken, be is said to have exclaimed, "Put not your trust in princes nor in the sons of men, for in them there is no salvation." His behaviour at tie futal sjot was calm and dignified, and he submitted bis neck, without apparent reluctance, to the stroke of the executioner.

For the support of the proceedings of the commons, particularly against the eal of Strafford, the Scottish troops had prolonged their continuance in England. Their demand of indemnification had procured from the parliament of this kingdom a vote .or allowing them $\$ 00,000$. by way of brotherly assistance, exclusive of the constant payment of $850 /$. per diem, for their maintenance. After some discussion, the demands which they had ruade on their invasion were granted, as likewise most of their bubsequent requisitions. They then returned into their own country, triumphing in tho success of their efforts.

While the king was employed in Scotland, which he soon after visited, in re-establishing the tranquillity of the north, a rebellion, accompanied with circumstances of horrid barbarity, arose in Irelaud. The wajority of the inhabitants of that kingdom were of the citbolic persuasion, and decply resented the mildest exertion of those laws, which were thought necessary, in that age, in order to repress the advocates of popery.

The chief projectors of this rebellion were Roger More, Conor, lord Mac-Guire, any sir Phelim O'Neile; men who derived their descent from very considerable families the original natives, but whose fortunes were greatly reduced. A son of that earl of Tyrone, who lad given such disturbauces to the goveroment of Elizabeth, promoted the views of the conspirators, and solicited aid of cardinal Richelicu, who promised a supply of ammunition, arms, and money. This hereditary rebel, who was then in the Spauish service, would have personally embarked in the revolt, had he not been prevented by dya.

Cotwithstanding the caution and secresy of the malcontents, some intimation of - 4e exert lis utmost vigilance for securing the public tranquillity. But these governors

## BRITISH EAPIRE.

peid no attention to tio rogal advice, but remained in a state of supine negligencostili the day that preceled the eruption of the rebellion. They were then roused from their Jethargy, by the alerming intelligence of the conspiracy, commanicated by a proteyait, to whom it had been confidentially imparted by Mac-Mahon, one of the principad agents. Understanding that the reduction of the castle of Dublin was one of the enterprizes which weve interided for the following day, thigy gave proper instructions for the security of that fortress and the defence of the city. Lerd Mac-Guire and Mac-Mathon were tuken next day, with about 50 of their accomplices. To put the provincial protestants upon their guard, a proclamation was now issucd by the governors, intimating the danger to which the king's faithfitul subjects nere exposed, from a most dialogal and detestable conspiracy, and recommending the adoption of immediate precautions for the general safety of the realu.

The insurrection commenced in the province of Ulster, and the first exploit of sir Phelim O'Neilo was attended with flagrant treachery. Having apprised the haron' of Charlemont that he would pay him a friendiy visit at the castle of that town, he was liberally entertained by the unsuspecting peer, and his followers, flocking to the scene of hiospitatity, took an opportunity of attacking the unurmed garrion, white their chicf seizat his defenceless host, whom ho afteriards murdered. Most of the soldiers were either slain or taken, and O'Neile gained possession of the place. The catholics bastening to his standard, he met with rapid success in bis other atteimpts, and in less than a fortnight, the greater part of Ulster was in the hands of the insurgents. They at first contented themselves with plunder, but their rapacity was soon followed with savguinary proofs of their rancorous animosity agaimst the protestants. The barbarities of Goths and of Huns, of ferocious pagans and blood-thirsty conquerors, were now renewed by those who pretended to have been humanized by religion, and to whom the arts of cinlization had been taught, against individuals with whom they had loug lived on socisl and harmonious terms. The horrors of diabolical cruelty were blackened by infamons treachery, and the ties of consanguinity and alliance served only to stimulate the hrutal rage of malignant assassing. The varicties of torture were inflicted with wanton exultations; the mere dissolution of existence being deemed, by the most inhuman members of the rebellious confederacy, an act of insufficient vengeance. Without wounding the feelings of the reader with a detail of the atrocious proceedings of these vindietive bitots aguinst the wretched victims who fell into their hands, of both sexes and of all ages, o shall only observe, in a summary wry, that though a great number suffered a speed death, by being stabbed to the heart, drowned, or hanged, a multitude of others were treated with all the severities of more deliberate revenge.

Roger More, though the prinary author of the rebellion, was shocked at the horril extremities to which O'Neile and his followers had proceeded, and endeavoured, but with little effect, to reclaim them from the practice of such detestable outrages. io afterwards repented of his concern in this cavse, and refused to act agginsh 2 government.
The Irish rebellion, which ought to have united the contendiug parties in England
contrary, furnished them wim an oecasion to widen the breach, by criminating each other:- Sir Phelin O'Neile hnving published a manifesto in the name of the king, and affixed to it a seal which lie had found in the castle of Charlemont, the enemics of $G$ barses charged him with at least cormiving at this detestable massacre, while the court party condemned the tardiness of the Eaglish and Seotioh parliameats, and accused them of neglecting the safety of their protestant bretiren in Ireland, in order more effectually to circumscribe the royal prerogative. Thus discontents continued to increase, and, in the beginning of the next year (1642), an imprudent interference of Charles hastened the approach of that tempest, which seemed to have been long collecting over this country.

Edwarl Montague, baron of Kimbolton, John Hampden, John Pym, Denzil Holles, sir Artlur Haseltig, and Willian Strode, land rendered thenselves the objects of the rogal indignationt, by their strensous attempts for the retuction of kitgly power. Thes articles of charge adduced against, lord Kimholton and his five associates were of the following tenor. They were accised of having endeavoured to sobvert the fundamental laws and government of the realm ; to deprive the king of his autiority; and to place in subjects an arbitrary power over the lives, liberties, and eatates of the people ; of having aspersed the character of his majesty, with a view of alienating the affections of the public from him; of having attempted to seduce the king's late army to disobedience and treason; of having invited the Scots to invide England; of having endeatoured to subvert the rights and the very existence of pariaments, and to compel the present assembly to join with them in thicir traitorous designs ; of having raised and coontenanced tumults for the promotion of their schemes, and levied war against the king.

Orders having been given for sealing up the cabinets of the accused iadividuals, the two hobses concurrod in an injunction for their being iumediately reatored to their former state; and the rayal messengers, who had been employed on that occasion, were taken into-custody. The peers appointed a committce to examine precedents concerning the regularity of the accusation ; and the commons, lastead of delivering up the five members to the serjeant at arms, whom the king ordered to demand them, sent a deputation to Charles, to inforim him that those members were ready to anstwer any legal charge made against them.
The following day was distinguished by a remarkable scene. Attended by a guard of pensioners, and a train of courtiers, the king repaired to Westminster-hall, and preAted himself before the door of the house of commons. Entering tho house, with his nephew, the Palatine, he took possession of the speaker's chair, all the members standing up uncovered. With eager eyes he looked around for the five persons whom he had accused; but his search was vaia for, out previous intimation of his ihtention, from a private channel, they had retired, by order, of the house, before his arrival. He then expressed his regret for the dccasion which had brought fion thither. He had ex1ed, he said, a ready obedience to his command for the apprehension of the five embers; bat, us fhe had not been gratified in that particular, he had thought pruper demand shem in person. No monarch who had ever reigned in England had aVol, I.
$\cdot 5 \mathrm{H}$. treason, no claim of privilege could justly be advanced. While these individualrerere suffered to influence the house, he could not expect that it would ever be in the right ${ }^{*}$ way. As "the birds were flown," be required tbler they should be sent to bim astoog as they re-appeared; not that he intended to proceed against them in any other mode than that which was fair and legal. With respect to the concessions which he had made for the benefit of his people, he begged the bouse to consider that it was his firm resolution to adhere to them. Having thus spoken, Charles left the hoose, which his extraordinary interference had filled with confusion. As he passed, many of the members vociferated in his cars, "Privilege! Privilege " and an immediate adjournment ensüed.

When the commons re-assembled on the succeeding day, they voted a declaration, complaining of tho king's late behaviour, which they represented as a "whigh breach of the rights and privileges of parliament." Pretending that they were exposed to great danger from the vicinity of the court, they adjourned the hoase for some days, and appointed a committec to sit within the cify, and deliberate on the means of vindicating their privileges and securing their persons.

Suspecting that the accused members were concealed in the city, Charles repaired to Guildhall; and, the common council' being there assembled, he requested that the delinquents might not be protected, but might be delivered up to him for the purposes of judticial inquiry. Thought it was well known whecre they were, no person wished to betray them ; and the king returned to his palace without success. The populace insulted him, as he passed through the city; and one individal threw into his coach a paper, on which these words ucre written: "To your tents, O Israel !"

The ferment of the people now hourly increased. Successive rumours were propagated of the traitorous scliemes of the catholics, of the king's approach to the city at the head of an army, of conspiracies against the lives of the chief friends of the people, and of various machinations of 'the prost horrible nature. These reports kept up an incessant alarm, and intfamed the rabble to a beight of firy. Tumuituary crowis resorted to the vicinity of Whiteball, and poured forth opprobrious expressions and licentious menaces against the king, the queen, and the court; and 'Charles, mortified and incensed, began to think of retiring from a scene of turbulence and aperil. This hasty resolation be immediutely reduced to practice, and thus put the adherents of the parliament into possession of the capital of England.

The spring and summer of this year were disturbed by continual dissension ; and each party began to think seriously of deciding their cause by the sword. Several fruitless pegotiations were set on foot, and soon after broken off; the parliament used every exertion to get the militia, the forts, and the navy into their power ; and the king, in the month of August, erected his standard at Nottingham. We shall bere subjoin an account of the general state of the nation, and the dispositions of the different panies at the commencement of the civil war, as described by a candid historian, to whom w confess ourselves greatly indebted.

In point of opulence and abundance, it is generally allowed that the community greatly flountwed. Commerce, notwithstanding, Gecesional restrictions, baid considerably magreased, since the accession of the Scottish line. Various improvements had been* made in the mechanic arts; and those of a more liberal nature were cultivated uith suecess. Popolation, though inferior to what it has since been in this country, was fas from being at a low ebb; and this was a cicumstance of some importance, when contending factions were levying armies, The imposts to which the people had been subjected, were by no means exorbitant, and, even in the long intermissioa of perliaments, when Cturles had raised many in irregular modes, the public clamours had been less excited by the maguitude, than by the iliegatity, of the demands. With regard to military experience, the pacific reiga of James, and the lagour with which Charles had couducted his wars with $\mathrm{S}_{\mathrm{p}}$ ain and France, bad afforded few opportunities to the Eng-
*. Tisti of acquiring any extraordinary stare of skill in that department But in intrepidity they have never been deficient; and their courage, in the approaching contest, was sharpened by the infusion of religious as well as geitical animosity.

Among the advocates of the royal cause, we may reckon the greater part of the nobility and opulent gentry, who considered it as their interest to support the constitutional inflaence of monarchy, in opposition to republican encroachments and popular pretensions. The clergy of the established church were, in general, friends of Charles, of whose attachment to their order they retained a gratefyl stonse. Many individuals of that denomination were also influeneed, at this crisis, by the absurd opinion of the divine right of monarchs, and of the impiety of resisting them on any occasion. The inhabitants of the more distant counties, where faction had made less progress, professed, for the most part, a dosire of supporting their sovereign ; and persons of moderate sentiments, who regarded his concessions as sufficient securities for his future adherence to the constitution, wished suecess to his arms. Some of his most valuable friends were those who lad eagerly joined in the general demand for a redress of grievances, but who, when be liad removed the chief grounds of complaint, refused to promote the ulterior ains of an aspiring party.

The friends of the parliament were the major part of the community. The middling and lower classes were disposed to consider the national liberties as having a better chance of preservation under the care of the two houses, and particularly of the commons, than unter the wing of a monarch, whose oppressons they had felt, and whose syectity they were taught, by their representatives, to distrust. The traiders and manufacArers, and most of the members of corporations, embraced the parliamentary cause, in return for the gratification of restored privilege, and in the hope of deriving future benefits from the exertions of a patriotic assembly. White the catholics, whose principles inclined them to the support of royalty, adhered to a prince who had treated them with lenity; the protestant dissenters, whose aversion to the church of England rendered thy $\boldsymbol{f}$ unwilling to support a conscientious patron of that establishment, adhered to an sembly from which they expected a greater indulgence to their religious tenets. Thoss nembers of the two houses who concurred in voting for the war, were not unanimous
in every other respect. Many of them wished only to:enforce tho king's submissiant such further limitations of his prerogative, as might disable him from revoking lin con-
*ecssions ; others aimed at the total ruin of monarcly ; and some songht only an opport tomty of apgrandizing themselves, anidst the confusions of their coontry. Somg vere well affected to episcopacy ; others mistied for its subversion, and for the establsbment of the presbyterian system.

The military operations of this year were attended with no considerable advantage to elther party. The battle of Edgelill is principally remarkuhles, as bcing the first occasion on whicit much blood had been shed, and was so undecided that each side claimed the victory. Tho reduction of Reading and the victory at Brentiord, may be considered as didvantages on the side of Charles ; but though they alarmed the parlinment with fears for the safoty of the capital, they were not immediately attended with any important consequences.
In the sueceeding year $(164,2)$ the royal party were on the whole successful. They reduced Cornwall, took Bristol, and defeated the parliamentarians at Roundway-down, but lost TReading., which was taken by the earl of Essex, and were obliged to raiso thic siege of Gloucester, which was defender br Colonel Massey. Among the distinguished charaeters who foll vietins to civil doani, were sir Bevil Grenville and viscount Falkland, on the sits of the king, and oal that of the parliament, lord Broke and the celcbrated Jobin Hampdef.

In the first year of the war, the pariament had made overtures to the Scots for ther assistance; ; and, to allure them to acquielcence, liad given hopes of sacrificing the episcopal' establishment in Engtand at the strine of presbyterianism. The North Dritons, infinated with this prospect of thic extenstor of their faigurite syitem, gratefut for the favgurs which they lad reecived from the southern pariament, and arpehensive that the king, in the event of his triumphing over his present foes, wouid take measures for the recovery of those prerogatives which had been wrested from bim in Scotland, were. for the most part, inclined to afford the requested nid. After a fruitless offer of mediation from those Scots who hat been appoiated conservators of the peace lately coneluded between the Britiah kingdoms, whose interposition Chartes knew would be directed to the advantage of his adversaries, the northern malcontents began to disclose their intention of taking an active part in the convalsions with which England was now agitated To sanction their schemes, they wisbed for the speedy meeting of a pathament in their kiugdom; but as the nest assembly of that kind had been fixed, by Tite tlatute, for the middle of the following year, unlesa the king should think proper ta convole it sooner, Charles rejected a request which they made to him for that purpose, as he was unwilling to merease their power of injuring him. Disappoiuted in this particular, they proposed that the estates of the realm should be calfed to a convention; and this motion was adopted in a meeting of the privy, counsellors and the couservators of the peace. Charles at first resolved to prolibit this conyention Nut, on further consideration, he consented to the measure, on condition that the ussemby should not pass any votes that might tend to the recal of the Scottish iorees from Ire as viodeclarutions which he issued with a view of vindicating his character and actions. nin the cyes of the Scots, and of diverting them from all thoughts of assisting his English* enemies. Wienthe convention sat, commissioners arrived at Edinburgh froln the parlimene to of Eugland, to adjust the terims of the proposed confederacy against the king. The chief manager in this business was sir Henry Vane, junior, a man of extraordinary abilities, A committee, selected from the convention, as well as from the general assembly of the kirk, had several couferences with the English deputies; and it was resolved by'both parties, that in covenaut should be framed for the union of all tho friends of true religion and libeaty in the kingdoms of -Enghand, Scotland, and Ireland. Such an intrument wals immediately prepared; and, when it had received the assent of thê convention and the general assembly, orders were issued by the former, in the king's name, directing alt the Scots, between the ages of 16 and 60 , to provide themselves with arms. The covenant being sent to Erglans, the tivo houses, after some debate, consented to give it their sanction ; and, when they had subscribed it, they commanded the whole nation to swear to the observanee of it. It was efnbraced by all the malcontents in Britain; and many of the secret friends of the king and the church also agreed to it, that they might not subject themselves, by a refisal, to suspicion and to persecution. The same engagement was imposed in Ireland, notwithstanding all the endeavours of the marquis of Ormond and other royalists for preventing the reception of it.

In the treaty which was now concluded between the Engli-h parliament and the Scottish convention, it was stipulated that 21,000 armed Scots should march ínto England, for the defence of the true religion and liberty mgainst the "papists and prelatical faction; that, towards the maintenance of this army, the sum of $\$ 0,000 l$. should be paid monthly by the former assembly; that, if this sum should not be paid at the time specified, an interest of elght per cent. shoutd be allowed for the delay; that, if further satisfiction should be deemed necessary for the services of the Scots, it should be granted at the end of the war; that 100,000 : should be paid in advance, for the equipment of their army; and that no truce or peace should be concladed with the enemy without the joint assent of both kingdoms.

While this storm menaced him from the north, Charles prepared to meet it by seeking additional succour. It occurred to his reflection, thit a truce with the rebels of Irgind woald furnish him with an opportunity of procuring from that kiogdom a supfy of military strength, which be might euploy with success to lif British dominions. He was encouraged to this measure by the intelligence which he received from the marquis of Ormond commander of his forces in Ireand, importing that the necessities of thic army were so great, as to render a suspension of hostilitier highly expedient. Though the protestant troops had obbained several victories over the rebels, the latter were far frogocing sabdued, and the promise of all their estatos, hy an act of the Engtish parLiment, to those who should contribute, in a pecuniary way, to the suppression of the fvolt, inflamed them to a pertivacious and desperate resistance. The distractions of the country, the ravages committed by the insurgents, and the very slow transportation

Vok. 1.
of supplies from Eugland, fad proloced the miseries of famine and nakedness, nd consequenilly great discontent among the soldiers; and it was the opinion of the
gutices, and privy council, as well as of the principal officers, of thearmy, that tcesa; tion of hostility was requisite for preventing the utter desolation of Ireland. Oraoud being nutborised by Cliarles tó conclude an armistice with the rebels, the coukicil of Kilkenay, to whose direction they had committed their affairs, appointed deputies to treat witik him; and it was agreed that there should be an entire cessifion of war for oue year, and chat they should pay 30,800 , for the king's use.

As soon as the stipulated number of troops had been-levied in Scotland, theye marched into England, under the command pf Alexander Lasley, earl of Leven, the ofd general of the covenanters. The marquis of Nevcastle retreated to York, and the Scot/glinving advanced thus far, and, beiug joined by Fairfax, invested that northern capital. Thie combined armies, in the imouth of July, defeated prince Rupert at Marston-More, and speedily reduced not only the city of York, but Newcastle, and great part of the northern counties. In the west, the king's affairs were prosperous, but not enough so to counterbalance the losses he stustained in the north.

A joint committee of England and Scotlapd, had, during the course of this year, ndjusted propositions for peace, which, being presented to the king he appointed 17 commissioners to treat with 19 deputies selected from the two houses, and 11 Scottish delegates.

The king had for some time foreborne to exasperate the two houses, by denying that they constituted a legal assembly; but, in the preceding summer, be had prohibited all his subjects, by proclamation, from considering as a regular part of the legislature, the few members who remained it. Westminster; who, by tenor aud votenco, had compelled their sovereiga and the greater part of both houses to retire from the pariamentary scene; who oppressed the nation by grievous imposts, for the maintenavee of au unatural rebellion; who violated the laws of the realm, and invaded the liberties of the people.

By a subsequent proclanation, he summoned, to a convention at Oxford, all the members who hâd been expelled for their loyalty, of, who had been driveh from Westminster by the fear of violence, or who, continuing their seats, were overawed by the factions leaders, so as not to pospess that ireedom of deliberation, which was essential to a parliament. He had before excepted a certain number from the pardon which he offered to the rest of the members ; but he now promised that faveur to every individual, of either house, who should speedily return to that allegiance which th law enjoined.

When the lords and commons of the royal party assembled at Oxford, to the number of tabove 50 of the former, and above 100 of the latter, Charles expressed, his regret at the continuance of the bational distractions; reprobated the desperate malignity of those, who, instead of aiming at the restoration of peace, had persuaded the Scots to invade the realm, and co-operate with them for the subversion of the constitution ; and solicited the speedy advice and assistance of loyal subjects at this alarming crisis. Tisc assiembly adopted some resolutions, condemning the proceeding of the Scottish covenan-
tef as treasonable and pertilious, and repessentige it as the duty of every British subject, agt only by the tio of allogiance, tat also by the aet of pacification between Engtand and Scotland, to repist and reptess the attempts of those traitors. The peers ad- dressed an epistic to the Scottish council and the conservators of the peace, urging them $\mathbf{f}$ to prevent the fufraction of the treaty, and oppose the unjust hostilities meditated by their countrymen. This letter produced an answer, justifying the designs of the armed Scots, a 1 necessary for the rescue of the king out of the hands of those malignant counsellors who bad seduced him into measures ruinous to the prosperity of his people. A reply, equally uufavoorable, was given to a pacific letter sent by the lords and commons of Oxford to the eari of Essex; and one which Charles wrote to those of Westminster, proposing the immediate appointment of commissioners to negotiate an accommodation, had not that conciliatory effect which was desired by every true patriot.

After these overtures had been rejected, the roysi conventiôn passed several votes, accused the members at Westmiuster of having conn nitted high treason in three particulans, viz. in levying war against the king, counterfeitang his great seal, and promoting the Scottish invasion. In other votes, they were stigmatised as violaters of the trust reposed in them by their country, and determined encmies to peace.

The negotiators met at Uxbridge; and they were employed sear a month in the discussion of the different points connected with the great object of an accommodation. The cirief of the artieles drawn up by the committee were the following: that all declarations against the legality of the proceedings of the two houses of Westminster, and of the , fate cousention at Edinburgh, shoutd be revoked; that the king should subscribe and swear to the solemn league and covenant ; that an act should pass for the abolition of episcopacy; that the laws should be strictly enforced against pipists; that the cessation concluded with the rebels of Ireland should be annulled; that the prinees Rupert and Maurice, and 56 other adherents of the king, should be punished as traitors ; that all catholics who were actively concerned on the royal side, either in England or in Scothand, and all persons who had promoted tho Irish rebellion, should also expeet no pardon; that all members of either house of parliament, who had adhered to the enemies of that assembly, should be excluded from the court, and (as well as the ceclesiastics, and all professors of the law, of the royal party) should be incapacitated from holding any offich, without the consent of both houses, and obliged to give up a thind part of *thy- estates; that those royalists who had submittsd to the parliament, except the mort odigent, should forfeit a tenth part of their property; that the milfia, the forts, and the navy, both in England and Scotland, should be subject to the direction of commi!s. sioners, named by the respective parliaments of those realms, and that it should be deemed ligh treason for any person to levy forces without their consent ; that the commissioners, thus appointed for the two kingdoms, should also hive the management of the wargi Ireland; that the governors of the royal children, and all oflicers of state, should be persons of parliamentary appointment; and that the king should not make war. or peace, whhout the consent of the British parliaments.

The business of religion was the first subject of telitasration: but the commissioners

## BRITISH EMPIRE

conld not agree on this head. From consciontions as 1 rell as political motives, Charth "as strongly attuched to episcopal government ; and he say nu reason tor consont ig tie emmilhilation of a system, which, for so many ages, flud formed a part of the national, constitution. Though such a measure was obstiuately demanded by his opponents, ho would only consent to a limitation of the authority of bishops, and to the redres of ecclesiastical abuses.

The next head was that of the militio, which had already occasioned stich violent disputes. The king authorised his delegates to consent to the surrender of the military as well as naval power, -for three or even seven years, into kie hands of a certain number of commissioners, half of whom should be named by himself, and half by the two hooses ; but this conecssion did not give the desired satisfaction. With regard to the affairs of Ireland, no agreement could take place, the king refusing to contribute to the ruin of nis authority in that kingdom, By resigning to his enemies, cither the exclusive management of, the war with the catholics, or (which they also demanded) the nomination of the governor and all the great officers of tho Hibernian establishment. These were the three beads on which the negotiators principslly debated; but, if they had agreed in these, the parliamentarians had no iastructions to recede ffom the other extravagant demands contained in the propositions ; many of which were such as no priace of honour or spirit could grant. Thus, by the pertinacity of the democratie party, the negotiations were rendered wholly fruitless, and the decision of the contest was reserved for the power of the sword.

Whie the king's ndversaries were preparing for the treaty of Uxbridge, they had wreaked their vengeance on one of his formet favoorites. Arctabishop Laud, after, an imprisonment of above three years, had been brought to his trial in the preceding spring, hieing charged with the commission of bigh treason against the king aad kingdom, in having endcavoured to subvert the fundamental laws of the realm, and the privileges of pariainent, to, establish a system of tyranny both in church and state, and to, introduce pepsth superstition and ifolatry. Finding (as in the trial of the earl of Strafford) that the evidence ngainst the primate was insufficient, in point of law, to induce the peers to pronounce seutence against him in their judicial capacity, the commons had recourse to a partiamentury ordimance for his attainder, which passed their house with only one dissenting voice. Offended with the tardiness of the lords, who suffered the ordinance to linger in their house, the demagogues menaced them with a renewal of those tumults which had proved so efficaciods in promoting the destruction of Strafford. In a kery. thin house, the peers at length complied with the wishes of the commons; and, thr royat pardon being in vain pleaded by the archbishop, he was beheaded on Tower-hill, in the begianing of this year.

We have already intimated, that some of the leading members of the papular party were inclined (o ab accommodation with Charies, on such terms as might sufficiently secure the liberties of the people, without reducing the king to a state of abject deapendence. Of these friends of peace, in the upper house, the chicf were the earls of Bssex and Manchester; and, in the lower, Denzil Hoiles, sir Philip, Stapyiton, sir John Clotmorthy, and sir John Maynard. But the views of these members were inconsistent with

## BRTTISH EMIPIRE.

The ingerested purposes of anuner party, who aimed at the subversion of the constitution and at the establishment of such a system of government, as might tend to their own aggrindisement. The leaders of this faction had hitherto concurred with, the former; . but they now diselosed their intentions of overleaping the boundaries which the other partizans of opposition had prescribed to themselves, and of promoting the depression of every true friend to the constitution, and the utter ruin of the king and his principal - adherents. These ambitious chiefs, who preferred their private interest to the public welfare, were, Oliver St. John, sir Heary Vane, junior, Oliver Cromwe!!, sir Arthur daselrig, sir Henry Mildmay, Nathaniel Fiennes, Henry Martin, and others. Of this party, Cromwell, by insinuation, aitifice, and hypocrisy, soon became the head. As to religion, these mea neither wished for the preservation of episcopacy, nor for the introduction of the presbyterian system; but were inclined to the doctrines of the

- independents, who, not considering the institutions of presbytery as a sufficient departure from the hierarchical principles, derived their denomination from their rejection of all ecelesiastical government, except that which each congregation might exercise within itself.

Cromwell and his associates, sensible of the unwilingness of Essex and Mancacster, and other chief officers in the service of the two houses, to enter into those schemes whica tended to the ruin of the monarchy, procured the dismission of the two earls and their friends, by means of an ordinance for incapacitating every member, of either house, during the war, from the possession of any military or civil post. The force of this self-denying ordinanee, as it was called, was diverted from Cromwell, and he became' the chief governor of the arny, by his influence over sir Thomas Fairfax, who was now. mivested with the supreme command.

The new general was a man of courage and martial skill ; but, being weak and credulous, he was easily duped by Cromwell, and became a mere tool in the hands of that artful leader, whose ambitious aims were greatly promoted by the new military arrangements. Sir Thomas was empowered by his commission (in which it is observable, the clause for the security of the king's person was not mentioned) to select suedi. officers and common soldiers as he thought proper, out of the armies of the carls of Essex and Manchester, and of sir Willinm Waller. By the interested diligence of Cromwell and his creatures, the new-modelled army, formed by selections from old regiments, and by levies of new troops, leaned, for the most part, to the maxims of the independent party: A more rigid discipline was introduced than haid before prevailed; and the ry.tral courage of the men reccived so strong a stimulus from religious zenl, that Ethey despised the dangers of the field, and, considering themselves as engaged in a pious service, displayed an extraordinary ardour of exertion: Oliver, whose active disposition had prompted him, at the commeneement of the civil war, to raise a troopof horse, had infused into his men, by his exhortations and example, a fanatical spirit, had taught them, that, in opposing the king, they were fighting the battles of the Almighty; and had assured them, that the joys of Paradise woold be the reward of their zealous efforts in such a cause. When be bad increaped this troop to a regiment, $h$. - Vol 1 - 1 K
dud not neglect the oppostunity of extending the same spirit; and the example of his soldiers now prosed highty usefui in promoting an entbusiastic fervour throughout the - new ximy. The fullowers, of the king, less precise and more licentious in theil bebeviour, indulgel their mirth at the expense of the round-heads, and ridiculed the egxtravagance of the preaching wastior and the military devotec.

The effeets of the valour of the new-modelled arny were felt in the contes which ruined the interest of Charies, and took place on the 14th of June, 1645, near Naseby, in Northemptonshire.

In this important battie, the following were the arrangements of the two armies. The princes leupert and Maurjec appeared at the heid of the right wing of their uncle's forces, consisting of cavaliry; of which also the left wing was solely composed, which was conducted by sir Marmaduke Langdale, who had lately supported the royal cause in the north with spirit and activity. Lord Asticy directed the operations of the main rody, formed of infantry; and the king took his station at the head of the reserve, which consisted of lis peculiar puards of horse and foot, exclusive of, other regiments. The parliamentarian forces were likewise arranged in four divisions. Fairfax and maiorgenenal Skippon led the main body; lieutenant-general Cromwell commanded the right wing; Ireton, Oliver's son-in-law, conducted the left ; and the colonels Rainsborough, Haminonch, and Pride, ieaded the reserve. .

The engagement was commenced by prince Rupert, who, before the preparations of the whole army for battle were completed, precipitately attacked Ireton's wing, and threw it into divorder, the commander himself being wounded and made prisoner, though he recovered his liberty on the turn of the battle. The prince, pushing his advantage, chased lis antagonists from the field, and indulged bimself in all the eagerness of pursuit. Between the main bodies, the contest was extremely vigorous, each in its turn repelling the other. In the mean whife, the wings of Cromwell aud Langdale engaged with great spirit ; and some of the divisions vuder the command of the former Jegan to give way; but he soon rallied with them, and fiercely continued the combat, till he had compelled his opponents to seek refuge in flight. Detaching a part of his ving to pursue them, he led the rest against the royal infautry, who were by this time greatly disordered by the gallant exertions of Fairfax. Charles now prepared to lead his hurse guards to an attack upon the victorious cavalry of Cromwell; but, in consequence of an erroneous delivery of orders, they began a hasty retreat, in a confusion from which it was impracticable to reclaim them, notwithstanding all the efforts of the king; who, regardless of personal danger, endeavoured, by his voice and exthyle, to animate his discouraged troops. Some of them, indeed, returned, and charged the foe, but with so little energy, that the attack proved whoily fruitless. At this crisis, Rupert and his brother re-appeared in the field; and Charles strennously laboured, though without effect, to prevail on their men to concur in a fresh isssult. Fairfax, Laving now defeated the king's infantry, was on the point of making a furious charge on the horse ; but they anticipated his intentions by a disorderly flight, and wete pursued to a ranidideabie distance. About 500 royalists lost their lives in this action ; and

Imong' the slam were many distingaislied officers. On the cide of the victors, according $f$ some accounts, above 2000 persons were billed or wounded; and others representing the slain only amounting to that number; but these statements appear to be exaggerated, while other calculations, which diminish the loss of that party to 100 , seem to be equally erroncous in the opposite extreme. The king's chicf loss yns in prisoniers; for above 500 of his officers and 4000 of his common soldiers were captured. He - also lost 12 pieces of ordnance, abnut 8000 stand of arms, 200 carriages, and all his baggage, including his cabinet of papers, among which were found copies of his letters to the queen. With a view of bringing his sincerity in question, theso epistles were published, ly order of the two liouses; and it must be acknowledged that they contain several passages, which were not altogether consistent with his public declarations, or withs the high opinion entertained of bis faith and honour by some of his advocates.

This decisive battle was followed by such a series of successful operations on the part of the parliamentary army, that it was not till winter the king seemed even to have leisure to reflect on the decay of bis fortunes. A series of defeats and losses, had so ruined his affairs, that he had scarecly tho shadow of an army remaining, or a single county in which his influence was not almost annihitated by that of his opponents. Since the co-operation of the Scots with the southern malcontents, he had been gradually deprived of his authority in the north of England, over which, before the emigration of the marquis of Newcastle, he had a great sway ; and those fanatical intruders had also made some progress in other parts of the realm. In the midland counties, fow girrisons of the royalists notr remained. In North Wales, the king's interest had begun to decline; in South Wales, it was subverted. In the eastern shires of Englandi, from the Humber to the Channel, the two houses wholly predominated. In the west, and the south, Fairfax and Cromwell, with divided forces, promoted, with rapid success, the parliamentarian cause. Indeed, Charles, from the successive loss of his towns and fortresses, and the ruin of his armies, had little prospect of long preserving even one station in which he might repose with freedom and security.

The gloomy prospects were all realised in the ensuing campaign, when he was not enly deprived of most of his remaining posts, but had the mortification to find that evea Osford, the place of his residence, was threatened with a siege. His firm adkerent, the marquis of Montrose, was indead formidable in Scotland, but he was soon after obliged to command him to dismiss his forces, and deliver up those fortresses which were in his posscssion,

Nothing could be more affecting than the situation in which the king now was. He now resolved to grant the parliament their own terms, and sent them repeated messages to this purpose ; but they never deigned to make him the least reply. At last, after reproaching him, with the blood spilt during the war, they told him that they were preparing some bills, to which if he would consent, they would then be able to judge of his pacific inclinations. Fairfax, in the mean time, was advancing sith a victorious arny, in order to lay siege to Oxford; and Charles, rather than submit to be taken captivt, and led in triumph by his insolent subjects, resolved to give himself up to the Scots,
who had never testified such implacable animosity agamst him, and to trust to, thent loyalty for the rest. After passing through many bye-ways und cross-roads, he orghed, in company with only two persons, Dr. Hudson and Mr. Ashburnbam, at the Scot's camp before Newark, and discovered himself to lord Leven, their general.

They immediately sent an account of his arrival to the English parliament, and they as quickly entered into a treaty with the Scots about delivering up their prisons. The Scots thought this a proper time for the recovery of their arrears due to them by the English. A great deal was really due to them, and they clained much more than actually belonged to them. At last, after various debates between them and the parliament, in which they pretended to great honour, and insisted upon many punctilios, it was agreed, that, upon the payment of 400,000 . the Scots should deliver up the king to bis enemies; and this was chearfully complied with.

The king, being delivered over to the English commissioners, was conducted, under a gaard, to Holdenby, in the county of Northampton, where he was very rigorously confined; his antient servants beiog dismissed, himself debarred from visits, and all comsuunication cut off with his friends or family.

The civil war being now over, the king absolved his followers from their sllegiance, and the parliament had now no enemy to fear but their own troops. From this quarter their danger only arose; and it was not long before they found themselves in the same uufortunate situation to which they bad reduced the ling. The majority of the army were independents. The former, soon after the retreat of the Scots, seeing every thing reduced to obedience, proposed to disband a considerable part of the aray, and send the rest over to Ircland. This was by no means relished, and Cromwell took care to heighten the disaffection. Instend of preparing to disbend, therefore, the soldiers resolved to petition ; and they began by desiring an indemnity, ratified by the king, for ony illegal actions which they might bave committed during the war. The commons voted that this petition tended to introduce mutiny, \&cc. and threatened to procecd against the promoters of it as enemies to the state and disturbers of the public peace. The army now began to sot up for thernselves. In oppasition to the parliament at Westminster, a military parliament was formed. The principal officers formed a council to represent the body of peers ; the soldiers elected two men out of each company to represent the commons, and these were called the agitators of the anmy ; and of this assembly Cromwell took care to be a member. The new parliament soon found many grievances to be redressed ; and specified some of the most considerable. The commons were obliged to yield to every request, and the demands of the agitators rose in proportion. The commons accused the army of mutiny and sedition, the army retorted the charge, and alleged that the king had been deposed only to make way for their usurpations. Cromwell, in the miean time, who secretly conducted all the measures of the, aray, while he exclaimed against their violence, resolved to scize the king's person. Accordingly a party of 500 horge appeared at Holmby castle, under the command of one Joyce, origrnally a taylor, but now a cornet ; and by this man was the lang conducted to the aray, who were hastening to their rendezvons at Triploe-lieath, near Cambridge. Next day

Cromwell arrived among them, where he was received with acclamations of joy, and immedfyely invested with the supreme command.

The commons now saw the design of the army ; bat it was too late, all resistance was become vain: Cromwell advanced with precipitation, and was in a few days at St. Alban's. Even submission was now to no purpose ; the army still rose in their demands, -n proportion as these demands were gratified, till at last they claimed a right of modelling the whole goverument, and settling the nation.

Cromwell began with accusing eleven members of the house, the very leaders of the presbyterian party, as guilty of high treason, and being enemies of the army. The commons were willing to protect them; but the army insisting on their dismission, they voluntarily left the house. At last, the citizens of London, finding the constitation totally overturned, and a military despotism begioning to take place, instead of the kingly one they were formerly afraid of, began to think seriously of repressing the insolence of the troops.

The common council assembled the militia of the city; the works were manned ; and a manifesto published, aggravating the hostile intentions of the army. Finding that the commons, in compliance with the request of the army, had voted that the city militia should be disbanded, the multitude rose, besieged the door of the house, and obliged them to reverse that vote they had solately passed. The assembly was, of consequence, divided into two parties : the greater part siding with the citizens; but the minority, with the two speakers at their bead, were for encouraging the army. Accordingly, the tivo speakers, with 69 of the members, secretly retired from the house, and threw themselves under the protection of the arxiy who were then at Hounslow heath. They were received with shouts and acclamations ; their integrity was extolled ; and the whole force of the soldiery, to the number of 20,000 men, now moved forward to reinstate them in their places.

In the mean time, that part of the house which was left, resolved to resist the encroachments of the aray. They chose new speakers, gave orders for enlisting troops, ordered the train-bands to man the lines; and the whole city boldly resolved to resist the invasion. But this resolution only held while the enemy was at a distance; for, when Cromwell appeared, all was obedience and submission; the gates were opened to the general, who attended the two speakers and the rest of the members peaceably to then habitations. The 11 impeacied members being accused as causes of the tumult, werg expelled; and most of them retired to the continent, The mayor, sheriff, and three aldermen, were sent to the Tower: acveral citizens, and offlcers of the militia, were committed to prison ; the lines about the city levelled with the ground; and the commned of the Tower givea to Fairfax.

It now only repaained to dispose of the king, who remained a prisoner at Hamptoncourt. The independent army, at the head of whom was Cromwell, on one hand ; and the presbyterians, in name of both houses, on the other ; treated with him separately in private. He had sometimes even hopes, that, in these struggles for power, he nights have been chosein mediator in the dispute; and he expected that the kingdom nt last, - being senvible of the miseries of anarchy, would, of its own accord, be bushed into its

## 406

 BRITISH EMPIRE.former tranquil condition. At this time he was treatel with some dattering marky of distinction; he was permitted to converse with his old servants ; his caaplains were'permitted to attend him, and celebrate divine service their own way. But the most exquisite pleasure he enjoged was in the company of his children, with whom lie bad several interviews. The mecting on these occasions was so pathetic, that Cromwell hunself, who was once present, could not belp being moved, and was heard $p$ declare that he never beheld suca an affecting scene before. But these instances of respect were of no long continuance. As soon as the army had gained a complete rictory over the house of commons, the king was treated not only with the greatest disrespect, but even kept in continnal alarms for his own personal safeiy. The consequence of this was, that Chasles at last resolved to withdraw himself from the kingdom. Accordingly, on the 11th of November, 1647, attended only, by sir Jolan Berkeley, Ashburnham, and Leg, he privately lef Hampton-court; and his escape was not discovered till near an liour after; when-those who entered his chamber, found on the table some letters directed to the parliament, to the general, and to the officer who had attended him. All night he travelled through the forest, and arrived next day at Tichficid, a seat of the carl of Southampton, where resided the countess dowager, a woman of honour, to whom the king knew he might safely entrust his person. Before he arived at this place, he had gone to the sea-coast; and expressed great anxicty that a ship, which he secued ta look for, had not arrived. Iie could not hope to remain long concealed at Tichfield: the question was, what measure should next be embraced. In the neighbourhood lay the Isle of Wight, of which Hammond was governor. This man was eatirely dependeut on Cromwell, which was a very unfavourable circumestance: yet, because the governor was nephew to Dr. Hammond, the king's favourite chaplain, and had acquired a good reputation in the army, it was thought propor to have recourse to him in the present exigence, when no other rational expedient could be thought of. Ashburnham and Berkeley were dispatched to the island. They bad orders not to inform Hammond of the place where the king lay conceared, till they had first obtained a promise of him not to deliver up his majesty, even though the parliament and army should require him ; but restore fim to his liberty, if he could not protect him. The promise would have been but a slender security: yct, even without exacting it, Ashhurnham imprudently, if not treacherously, brought Hammond to Tichfictd; and the king was obliged to put himself into his bands, and to attend him to Carisbroke castle, in the Isle of Wight, where, though he was received with great demonstrations of respect and kindness, he was in reality a prisoner.

White the king continued in this forlorn situation, Cromwell found himself upon the point of losing all the fruits of his former schemes, by having his own priaciples turned against himself. Among the independents, who in general were for no ecelesiastical subordination, a set of men grew up, cafled levellers, who disallowed all subordination whatever, and dechared that they would have no other chaplain, King, or general, but Jesus Christ.

Though ths would have gone down very well with Cromwell, as long as it was only directed agzinst his enemies, he did not so well relish it when applied to himself. Having -
intimation that the leveliers were to meet at a certain place, ho unexpectedly appeared before 'hem, at the head of his red regiment, which had hitherto been deemed invincible. He demanded, in the name of God, what these meetings nnd murmurings meant; he expostulated with them upon the danger and consequeqnce of their precipitant schemes, and desired them immediately to depart. Instead of obeying, however, they returned an insolent anster: wherefore, rushing on them in a fury, he laid two of them dead at his feet. His guards dispersing the rest, he caused several of them to be hanged upon the spof, and sent others to London; and thus dissipated a faction, no otherwise criyinal than in having followed his own example.

Cromwell's authority was greatly increased by the last mentioned action; but it became irresistible, in consequence of a new and unexpected addition to his successer. The Scots, perhaps, ashamed of the reproach of having sold their king, and stimulated further by the independents, who took ail occasions to mortify them, raised an army in his favour, and the chief command was given to the earl of Hamilton: while Langdale, who professed himself at the head of the more bigoted party who had taken the covenant, marched at the bead of his separate body, and both invaded the north of England.

Though these tivo armies amounted to above 20,000 men, yet Cromwell, at the head of 8000 of his hardy vererans, feared not to give them battle. He attacked them, oue after another ; routed and dispersed them ; took Hamilton prisoner; and, following his blow, entered Scotland, the government of which be settled entirely to his satisfaction. An . insurrection in Kent was quelled by Fairfax with thie same ease; and nothing but success attended all this usurper's attempts.

Buring these contentions, the king, who was kept a prisoner at Carisbroke castle, continued to negotiate with the parliament for settling the unspeakable calamities of the kingdom. The parliament now saw no other method of destroying the military power, but to depress it by the kingly. Prequent proposals for an accommodation passed between the captive king and the commons ; but the great obstacle which had all along stood in the way, still kept them from agreeing. This was the king's refusing to abolish episcopacy, though he consented to alter the liturgy. However, the treaty was still carried on with vigour, and the parliament for the first time seemed in earnest to conclude their negotiations. But all was now too late. The victorious army, with Cromwell at their head, advanced to Windsor, and, with furious remonstrances, began to demand vengeance on the king. The unhappy monarch had been lately sent' under confinement to that place ; and from thence he was now conveyed to-Hurst castle, in Hampshire, opposite to the Isle of Wight. The parliament, in the mean time, began to issue ordinances for a more effeetual opposition to the military encroachments, when they were astonjshed by a message from Cromwell, that he intended paying them a visit next day with his whole army; and in the mean time ordering them to raise him $40,000 \mathrm{~L}$ on the city of London.

The commons, though destitute of all hopes of prevailing, had still the courage to resist, and to attempt, in the face of the whole army to finish the treaty they had begus - with the king. They had taken into consideration the whole of his concessions ; and
though they had formerly voted them unsatisfactory, they now renewed the consultation with great vigour.

After a vioient dcbate, which lasted three days, it was carried in the king's favour by a mujority of 199 against 83 , that his concessions were a foundation for the house to proceed upon the settling the afluirs of the nation. This was the last attempt in his favour; for, the next day, colonel Pride, at the head of tivo regiments, bloch hided the house ; and seizing, in the passage, 41 members of the presbyterian party, sent them to a low room belonging to the housc, that passed by the denomination of Hell. Above 160 members more were excluded ; and none were allowed to enter, but the most furious and determines of the independents, in all not exceeding 60. This atrocious invasion of parliamentary rights commonly passed by the name of Pride's purge, and the remaining members were called the rump. These soon voted, that the transactions of thie house, a few days before, were entirely illegal, and that their general's conduct was just and necessary.

Nothing now remained to complete the wickedness of this parliament, but to murder the king In this assembly, therefore, composed of the most obscure citizens and officers of the arny, a committee was appointed to bring in a charge against the king; and, on their report, a vote passed, declaring it treason in a king to levy war against as parlianent. It was therefore resolved, that a high court of justice should be appointed, to try his majesty for this new invented treason. For form's sake, they desired the concurrence of the few remaining lords in the upper house ; but there was virtue enough lett in that body unanimously to reject the proposal. The commons, however, were not to be stopped by so small an obstacle. They yoted that the concorrence of the house of lords was unnecessary, and that the people were the origin of all just power.

To add to their zeal, a woman of Herefordshire, illuminated by prophetical visions, desired admittance, and communicated a revelation she pretended to have received from heaven. Shie assured them that their measures were consecrited from above, sad ratified by the sanction of the Holy Ghost. This intelligence gave them great comfort, and much confirmed them in their present resolutions.

Colonel Harrison was commanded to conduct the king from Hurst castle to Windsor, and from thence to Lendon. His afflicted subjects, who ran to have a sight of their sovercign, were greatly affected at the change that appeared in his face and porson. He had permitted his beard to grow; his hair was become venerably gray, rather by the pressure of anxiety than the hand of time; while the rest of his apparel bore the taarks of misfortune and decay. He had long been attended by an old decrepid serzant, whose name was sir Phififp Warvick; who could only deplore his master's fate, without being able to revenge his cause All thi exterior symbols of sovereigaty were now withdrawn, and his attendants had, orders to serve bim without cerompny. He could not, however, be persuaded that his adversaries would bring him to a formal trial ; but he every moment expected to be dispatched by private assassination.

From the 6th to the e0th of January was spent in making preparations for this extraordinary tria.. The court of justice consisted of 139 persons, named by the commons; but of these, never above 70 met upon the trial. The members were chiefly.
cemposed of the principal officers of the ormy, most of them of very mean bith, together witn some of the lower house, and a few citizens of London. Bradshaw, a lawyer, was cliosen president; Coke was nippointed solicitor for the people of England; DorisJaus, Steele, and Aske, were named assistants. The court sat in Westminster-bell. When the king was brought forward before the court, he was conducted by the macebearer tg a chair placed within the bar. Thougb long detained a prisoner, and now produced as a criminal, he still maintaioed the dignity of a king. His charge was then read by the solicitor, aceusing him of baving been the cause of all the bloodshed which followed since the commencement of the war; after which Bradshaw direcked his discourse to him, anil told him that the court expected bis answer.

The king began lis defence, with declining the authority of tae court. He represented, that, having boen engaged in treaty with his two houses of parliament, and having finished almost every article, he expected a different treatment from what he had now received. It perceived, he said, no appearanco of an upger hrouse; which was necessary to constitute a just tribunal. He alleged that he himsolf was the king and fountain of law, and consequently could not be tried by laus to which he bad never given nis assent ; that laving been entrusted with the liberties of the people, he would not now betray thim, by recognizing a power fonnded in usurpation ; that he was willing before a proper tribumal, to coter into the particulars of bis defence; but that, before tuidm, he must decline any apology for his innocence, lest he should be considered as the betrayer of, anid not the martyr for, the constitution. Bradshaw, in order to supyort the authority of the court, insisted, that they had received their authority from the people, the source of all right. He pressed the king not to decline the authority of the court that was delegated by the commons of England, and interrupted and over-rued liin in lits aftempt to reply, In this manner the king was three times produced before the court, and as often persisted in declining its jurisdiction. The fourth and last time he was brought before this snlf-created tribunal, as he was proceeding thitber, he was insulted by the soldiers and the mob, who cricd out, "Jastice ! justice! Execution! execution!" bist hie continued ondaunted. His jadfocs having now examined some witnesses, by whom it was proved that the king had appeared in arms against the forees commissioned by parliament ; they pronounced sentence against him. He secined sery anxiotis at this tione to bie admitted to a conference with the two houscs, and it was sapposed that hie inkended to resign the crown to his son ; but the conrt refused consptimince, and considered his request as an artifice to delay justice.

The behaviour of Cliarles under all these instances of low-bred malice wasigreat, firm, and equal. In going through the hall from this execrable tribunal, the soldiers and rabble were again instigated to ery out, Justice and execution! They reviled him with the most bitter reprosclies. Among other jasults, one misercant presumed to spit in the face of his sovercign. He putiently bore their insolence: " Pour souls," cried lie, "they would treat thicir generals in the same manaer for six-pence." Those of the populace tho still retained the feeling of lumanity, expressed their sorrow in sighs and tears. A soldier, more compassionate than the rest, conld not hetp imploring a blessing on bis royat liead: An offecer overliaring lim, struch the honest centioel to the

Vol. $\mathbf{1}$.
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ground before the king; who could not help saying, that the punishment exceeded 'the offence.

At the return to Whitehall, Charles desired permission of the house to see hil chil-- dren, and to be attended in bis private devotions by Dr. Juxon, late bishop of London. These requests were granted, and also three days to prepare for execution. Every night between his sentence and execution, the king slept sound as usual, though thg noise of the workmen employed in framing the scaffold continually resounded in his ears. The fital morning being at last arrived, he rose early; and calling one of his attendants, hes bade him employ more than usual care in dressing him, and preparing him for 80 great a solemnity. The street before Whitchall was the place destined for his execution; for it was intended that this should increase the severity of his punishment. He was led through the banqueting house to the scaffold adjoining to that edifice, attended by his friend and servant, bishop Juxon. The seaffold, which was covered with black, was guarded by a regiment pi soldiers, under the cammand of colonel Tomlinson ; and on it were to be seen the block, the ax, and two executioners in masks. The people, in crowds, stood at a greater distance. The king surveyed all these solemn preparations with composure; and, as he could not expect to be heard by the people at a distance, he addressed himself to the few persons who stood round him. He there justified bis own ionocence in the late fatal wars ; he observed, that he had not taken arms till afier the parliameat had shown him the example; and that he had no other object 'in his warlike preparations, than to preserve that authority entire, which had been transmitted to him by his ancestors. But, though innocent towards his people, he acknowledged the equity of his execution in the eyes of his Maker: he owned that he was justly punished, for having consented to the execution of an unjust sentence against the earl of Strafford. He forgave all his enemies ; exhorted the people to return to their obedience, and acknowledge his son as his successor; and signified his attachment to the protestant religion, as professed by the church of Eugland. So strong was the impression made by his dying words on those who could hear him, that colonel Tomlinson himself, to whose care he had been committed, acknowledged himself a convert. At one blow his head was severed from his body. The other executioner then, bolding up the head, exclaimed, "This is the liead of a traitor."

It is impossible to describe the grief, indignation, and astonishment, which took place not only among the spectators who were overwbelmed with a flood of sorrow, but throughout the whole nation, as soon as the report of this fatal execution was conveyed to them. Each blamed limself, either with active disloyalty to the king, or a passive cotrpliance with his destroyers. The very pulpits that used to resound with insolence and sedition, were now bedewed with tears of unfeigned repentance; and all united in in their detestation of those dark hypocrites, who, to satisfy their own enmity, involved a whole nation in the guilt of treason.

Charles was executed on the soth of January, 1649, in the 49 th year of his age, and eth of his reign. He was of a middling stature, ropust, aad well proportioned. His visage was pleasant, but melancholy; and it is probable that the cootinual troukles in which he was involved might have made that impression on his countemance.
. It being remarked, that the king, the moment betore he stretched out his neck to the executioner, had said to Juxon, with a very earnest accent, the single word, Rearember, great'mysteries were supposed to be concealed under that word ; and the generals vehemently insisted with the prelate that be should inform them of the king's meaning. Juxion told them, that the king, having frequently charged him to incuicate on his son forgiveness of his murderers, had taken this opportunity, in the last moment of his life, when his commands, he supposed, would be regarded as sacred and maiolab e, to reiterate that desire ; and that his aild spirit thus terminated its present course, by an sct of benevolence to his greatest enemies.

## CHAPTER XIII.

## Betrisa Empine - From the death of Charles I. to the Revaiditom,

TIIE dissolution of the monarchy in England soon followed the death of the monarch. When the peers met, on the day appointed in their adjuurnment, they entered upon business ; and sent down some votes to theccommons, of which the latter deigned not to take the least notice. In a few days after, the commons voted, that the hoose of lords was useless and dangerous ; for which reason it was abolished. They voted it ligh treason to acknowledge Charles Stuart, son of the late king, as successor to the throne.

A great seal was made ; on one side of which were engraven the arms of England and Ireland, with this inscription, "The great seal of England." On the reverse was represented the house of commons sitting, with this motto: "On the first year of freedom, by God's blessing restord, 1649." The forms of all public business were, changed from being transacted in the kings name, to that of the keepers of the liberties of England. The court of king's bench was called the court of public bench. Nay, so cautious on this head, it is suid, were some of the republicans, that, in reciting the Lord's Prayer, they would not say, "thy Kingdom," but "thy commonwealth come." The king's statue in the Exchange was thrown down: and on the pedestal these words were inscribed, Exit tyrannus, regum uttimus: "The tyrant is gone, the last of the kings." The commons, it is suid, intended to bind the princess Elizabeth apprentice to a button maker ; the duke of Gloucester was to be taught some other mechanical employment : but the former soon died of grief, as is supposed, for her father's tragical end; the latter was sent beyond sea by Cromwell.

The commons next proceeded to punish those who had been most remarkable for their attachment to their late sovereign. The duke of Hamiton, lord Capel, and the earl of Holland, were condemned and executed; the earl of Norwich and sir John Owen were also condemned, and afterwards pardobed. These executions irrifated the Scots : their loyalty began to return ; and the insolence of the independents, with their victories, inflamed them stifl more. They determined, therefore, to acknowledgo prince Charles for their king, but at the same time to abridge his power by every limitation which they had attempted to impose on his father.

Charles, after the death of his father, having passed some time at Paris, and finding no likelibood of assistuice from that quarter, was glad to accept of any conditions. The Scots, however, while thcy wore thus professing loyalty to their king, were revertheless cruelly punshing his adherents. Among others, the brave marguis of Montrose was taken prisoner, as he endeavonred to raise the Highlanders in the royal cause; and being brouglt to Edinburgh, was hanged on a gibhet 30 feet high, then quartered, and his limibs stack up in the principal towns of the kingdom. Yet, notwithstnading alf
this seserity, Charles ventured iuto Scotland, and had the mortification to enter the gate of Edinburgh where the limbs of thnt faithful adherent were still exposed.

The young king soon found that he had only exchanged his exike for imprisonment. He was surrounded and incessantly importuned by the clergymen, who, having brouglit royalty under their feet, were resolved to keep it still subservient. Charles pretended to give ear to their discourse ; but, however, made an attempt to escape. He was overtuken and brought back; when he owned the greatness of his fault, and testified his repentance for what the had done.

Cromwell, in the mean time, who had been appointed by the parliament to command the army in Ireland, prosecuted the war in that kingdom with his usual success. He had to encounter the royalists, commanded by the duke of Ormond, and the native Irish, led on by O'Neile. These troops he quickly overcame; and most of the towas, intimidated by his cruelty, opened their gates at his approach. He was on the point of reducing the whole kingdom, when he was recalled by the parliament to defend his country against the Scots, who had raised a considerable army in support of the roya. cause.

On the return of Cromwell to England, he was chosen commander in chief of the parliamentary forces, in the room of Fairfax, who declined opposing the presbyterians. The new general immediately set forward for Scotland, with an army of $16,000 \mathrm{men}$, where he'was opposed by general Lesly, who formed an excellent plan for his own defence.

This prudent' commander, knowing his men to be inferior in valour and discipline, however superior in numbers, to those of Cromwell, kept himself carefully in his intrenchments. At last Cromwell was drawn into a very disadvantageous post near Dunbar, where his antagonist waited deliberately to take advantage ${ }^{\circ}$ of him. From this imminent danger, however, he was delivered by the madness of the Scots clergy. They, it seems, had been wrestling in prayer with the Lord night and day, and at last fancied that they had obtained the superiority. Revclations were made them, that the heretical army, together with Agag their general, would be delivered into their hands. Upon the assurances of these-visions, they obliged their general to descend into the plain, ana give the English battle. When Cromwell saw this mad action, he assured his followers, that the lord had delivered them into his hands, and ordered his army to sing.psalms, as if already certain of victory. The Scots, though double the number of the English, were soon put to flight, and pursued with great slaughter, while Cromwell did not lose in all above 40 men .

After this defeat, Charles put himself at the head of the remains of his army; and fnese he further strengthened by the royalists, who had been for some time excluded from bis service ${ }^{\text {b }}$ by the covenanters. He was so closely pursued by Cromwell, however, that he soon found it impossible to maintain his army. Observing, therefore, that the way was open to England, he immediately directed his march towards that country, where he expected to be reinforced by all the royalists in that part of the kingdom. In this, however, he was deceived: the English, terrified at the name of his opponent, dreaded to join him. But this mortification was greatly increased, when, at

Vol. L.
-5 N

Worcester, he was informed, that Cromwell was marehing with hasty strides from. Scotland, with an army of 40,000 men. This news was seareely arrived, when Cromwell

- himself was there. He fell upon the town on all sides: the whole Scots army yas eiher killed or taken prisoners ; and the king himself, having given many proofs of personal valour, was obliged to fly.
The young king now entered upon a scene of adventures the most romantic that can be imagined. After his hair was cut off, the better to disguise his person, he worked some days in the habit of a peasant, cutting faggots in a wood, He next ruade an attempt to retire into Wales, under the conduct of ond Pendrel, a poor firmer, who was sincerely attached to his cause. In this attempt, however, he was disappointed; every pass being guarded to prevent their escape. Beiog obliged to return, he met one coldnel Careless, who bad escaped the camage at Worcester. In his company, the king was obliged to cliab a spreading oak; among the thick branches of which they spent the day together, while tiey heard the soldiers of the enemy in pursuit of them below. From thence he passed, with inminent danger, fecling all the varieties of famine, fatigue, and pain, till he arrived at the house of colonel Lane, a zcalous royalist, in Staffordshire. There he deliberated about the means of escaping to. France ; and Bristol being supposed the properest port, it was resolved that he should ride before this gentleman's sister, on a visit to one Mrs. Norton, who lived in the neighbourhood of that city: During this lourney, he every day met with persoas whose faces he knew, and at one time passed through a shole regiment of the encuies' army.

When they urrived at Mrs. Norton's, the first person they saw was one of bis own chaplains at the door, amusing himself with seeiog people play at bowls. The king, nfter having taken proper care of his liorse in the stable, was shown to an apartment which Mrs. Lane had provided for him, as it was said he had the ague. The butier, however, being sent to him with some refreshment, no sooner beheld his face, which was very pale with anxiety and fatigue, than he recollected his king and master; and falling on bis kuees, while the tears streamed down his cheeks, cried out, "I am rejoiced to see your majesty." The king was alarmed, but made the butler promise that he would keep the secret from every mortal, even from his master; and the honest servant punctually obeyed him.

No ship being found that would for a month set sail from Bristol, either for France or Spain, the king was obliged to go elsewhere for a passage. He therefore repaired to the house of colonel Wyndham, in Dorsetshire, where he was cordially received. His mother, a venerable matron, seemed to think the end of her life nobly rewarded, in baving it in her power to give protection to her king. She expressed no dissatisfaction at having lost three sons and one grandchild in the defence of his cause, since she was honoured in being instramental in his own preservation.

Pursuing from thence his journey to the sea-side, he once more had a very narrow escape at a little inu, where he set up for the night. The day had been appointed for a solemn fast; and a weaver, who had been a soldier in the parlamentary army, was preaching against the king in a little chapel fronting the house. Charles, to avoid auspicion, was himself among the audience. It happened that a smitb, of the same
pringples with the wesver, nad been examining the norses ociongug to the passengers, and came to assure the preacher, that be knew, by the fushion of the shoes, that one of the stranger's horses came from the north. The preacher inmediately afficured, that this horse could belong to no other than Charles Stuart, and instantly went vith a constable go search the inn. But Charles had taken timely precautions, and left the inn before the constable's arrival.

At Shoreham, in Sussex, a vessel was at last found, in which he embarked. He was known to so many, that, if be had not set sail at that critical moment, it had been impossible for him to escape. After 41 days' concealment, he arrived sufdy at Feschamp in Normandy. No less than 40 men and women had, at different times, been privy to his escape.

Cromwell, in the mean time, returned in triumph; and his first care was to depress the Scots, on account of their having withstood the work of the gospel, as he called it. An act was passed for abolishing royalty in Scotland, und annexing that kingdom as a conquered province to the English commonwealth. It was empowered, however, to send some members to the English parliament ; jodges were appointed to distribute justice ; and the people of that country, now freed from the tyrany of the ecelesiastics, were not much dissatisfied with the government.

All parts of the British dominions being now reduced to perfect subjection to the parliament, they next resolved to chastise the Dutch, who had given but very slight causes of complaint. It happened that one Dr. Dorislaus, who was of the number of the late king's judges, being sent by the parliament as their civoy into Holland, was assessinated by one of the royal party who had taken refuge there. Sometime after, also, Mr. St. John, appointed their ambassador to that court, was insulted by the friends of the prince of Orange. These were thought sufficient reasons for a declaration of war against the Hollanders by the commonwealth of England. The parliament's chief dependence lay in the activity, and courage of Blake, their adminal; who, though he bad not embarked in naval command till late in life, yet surpassed all that went before him in courage and dexterity.

On the other side, the Dutch opposed to him their famous admiral Van Tromp, to whom their country never since produced an equal. Many were the engagements between these celebrated adminals, and various was their success. Several dreadful encounters served rather to show the excellency of the admirals, than to determine their superiority. At last, the Dutch, who felt many great disadvantages by the loss of their trade, and by the total suspension of their fisheries, were willing to treat for a peace. The parliament, however, gave but a very unfavourable answer. They studied to keep their navy on foot as long as they could; rightly jodging, that, while the force of the nation was exerted by sea, it would diminish the formidable power of Cromwell by land.

This great aspirer, however, quielly perceived their designs; and, therefore, secure in the attaclment of the army, resolved to seize the sovereign power. He persuaded the officers to present a petition for payment of arrears, and redress of grievances. His orders were obeyed : a petition was drawn up and presented, in which the officers,
after demanding their arrears, desired the parliament to consider how many years tiey had sat, and what pretensions they had formerly made of their designs to new medel - the house, and establish freedom on its broadest basis. They alleged, that it was now full time to give place to others ; and however meritorious their actions might have been, yet the rest of the nation had some right, in their turn, to manifest their patrigtism in defence of their country. The"house was highly offended ; they appointed a commaittee to prepare an act, ordaining that all persons who presented such petitions for the future, should be deemed guilty of high treason. To this the officers made a very warm remonstrance, and the parliament as angry a reply. Cromwell, being informed of this altercation, started up with the utmost seeming fury, and turning to major Vernon, cried out, that he was compelled to do a thing that made the very hair of his head stand on end. Then hastening to the house with 300 soldiers, and with the marks of vielent indignation on his countenance, be entered, took his place, and attended to the debates for some time.

When the question was ready to be put, he suddenly started up, and began ta load the parliament with the vilest reproaches for their tyranny, ambition, oppression, and robbery of the public. Upon which, stamping with his foot, which was the signal for the soldiers to enter, the place was immediately filled with armed men. Then, addressing himself to the members, "For sbame," said he, "get you gone: give place to honester men; to those who will more faithfully discharge their trust. You are no longer a parliament; I tell you, you are no longer a parliament; the Lord has done with you." Sir Harry Vane exclaiming against this conduct, "Sir Harcy !" cried Cromwell with a loud voice, "O Sir Harry Vane! The Lord deliver me from Sir Harry Vane! Taking hold then of one of the members by his cloak, "Thou art a whoremaster," cries he; to another, "Thou art an adulterer;" to a third, "Thou art a drunkard;" to a fourth, "Thou art a glutton," \&ce. "It is you," continued he to the members, " that have forced me upon this. I have sought the Lord night and day, that he would rather slay me than put me upon this work." Then pointing to the mace, "Take away that bauble," cried he: after which, turning out all the members, and clearing the hall, he ordered the doors to be locked; and putting the keys in his pocket, returned to Whitehall.

Thus the whole civil and military power centered in Cromwell, who, by this bold transaction, became, in effect, king of Great Britain, with uncontroulable authority. Being willing, however, to amuse the pcople with the form of a commonwealth, he proposed to give his subjects a parliament; but such an one as should be altogether obedient to his commands. For this purpose it was decreed, that the sovereign power should be vested in 144 persons, under the denomination of a parliament; and he undertook to make the choice himself. The persons pitched upon were the lowest, meanest, and most ignorant among the citizens, and the very dregs of the fanatics. To go further than others in the absurdities of fanaticism was the chief qualification upon wllich each of these valued himself. Their very names, borrowed from scriptare, and rendered ridiculous by their misapplication, served to show their excess of folly. One of them particularly, who was called Praisc-Ciod-Darebone, a canting leather-seller, gave his name
to this odd anscmbly, and it was called Barchone's parliament. They were clicfly composed of Antinowians; a sect that, after receiving the spirit, supposed themselves incapable of error ; and the tifth-monirelyy men, who every hour expected Clirist's second coming on carth. They began by choosing eight of their tribo to seek the Lord in prayer, while the rest calmily sat down to deliberate upon the suppression of the elergy, the universities, and courts of justice; and instead of all this, it was their intent to substitute the law of Moses.
It was impossible such a legisinture as this could stand; even the vulgar began to exclaim aggiost it, and Cromwell himself to be ashamed of their ahsurditits. Ho had carefolly chosen many persons among them, who were entircly devoted to his interest, and these he commanded to dismiss the assembly. These accordingly met by concert, earlier than the reat of their fraternity; and observing to each other that this parliament hadd sat long enough, they hastened to Crommell, with Rouse, their mpeaker, at their head, and into his hands resigurd the autharity with which he had invested them. Cromwell accepted their yesignation with pleasure : but being told that some of their numberwere refractory, he sent colonel White to clear the house of such as ventured to remain there. They had pleced one Moyer in the chair, by the time that the colonel bad arrived; and he being asked by the colonel what they did there, Moyer replied, very gravely, that they were seeking the Lord. "Then you may go elsowhere," cric: White, "for, to my certuin knowledge, the Lord hath not been here these many years,"
The shadow of parliament being thus dissolved, the officers, by their own nuthority, delared Cromwell protector of the commonwealth of England. The mayor and aldermen were sent for to give solemuity to his appointment, and he was iastituted into his new office at Whitchall, in the palace of the kings of England. He was tó be addressed by the title of Highess; and his poiver was proclained in London, and other parts of the kingdom. It was now, indeed, in a great measure necessary that some person should take the supreme command; for affairs were brought into such a situation, by the farious animosities of the contending parties, that nothing but absolate poser could prevent a renewal of fotmer bloodshied and confusion. The government of the kinglom was adjunted in the following manner. $\Lambda$ council was appointed, which was not to exceed 21 , nor to be under 19 persons. These were to enjoy their offices for life, or daring good behnviour; and, in case of a vacincy the remeining members named three, of whom the protector chose one. The protector was appointed tho soprome magistrate of the commonwealth, with such poser as the king was possessed of. The power of the sword was vested in him jointly with the parliament when sitting, or with the couneil at other times. He was obliged to summon a parlimivent onee every three years, and tó allow them to sit five months without adjournment. A standing arny was established, of 20,000 foot and 10,000 horse ; and funds were assigned for their support. The protector enjoyed his office for life; and on his death, his place was to be supplied by the council.

Of all theye clanses, the standing army was sufficient for Cromwells' purpose; for, while possessed of that instrument, he could mould the rest of the constitution to lis pleasure at any time. He chose his council from among his officers, who had been the
companions of his dangers and vietories, to each of whom he assigned a pension of 1000\%: n-yoar. He took care to have his troops, upon whose fidelity he depended for support, paid a month in adsance ; the magazines were also well provided, and the paldic, treasure managed with frugality and care; while his activity, vigilance, and resolution, were so well exerted, that he discovered every conspiracy against his person, and every plot for an insurrection, before they took effect.

Thus Crommell continued to govern, thongh without assoming the title of king, iu as absolute a tnanner as the arost despotic prince in Eurnpe. As be was feared at bome, so he made himself respected abroad. The Dutch, having been humbled by repeated defeats, were obliged to sue for peace. Cromwell obliged them to pay deference to the British flag. He compelled them to abandon the interest of the king, to pay 85,0001 . as an indeminification for former expences, and to restore to the English East ludia company a part of those dominions which they bad been dispossessed of by the Dutch 'during the former reign.

The ministry of France thought proper to pry deference to the imperious character of the protector; and he baving lent that court a body of 6000 men , to attack the Spanish dominions in the Netherlands, who obtained a signal victory, ther French put Dunkirk into his hands, as a reward for his attachpent. By means of the celebrated admiral Blake, he humbled Spain prodigiously, as also the. Algerines and Tunesines. Penn and Veumbles, two other admirals, made an attempt on the island of Hispaniola ; but failing of this, they steered to Jamaica, which was surrendered to them without a blow. Yet so little was thought of the importance of this coniquest, that, on their return; the two admirals were committed to the Tower, on account of the failure of the prineipal object of their equipment.

It is not to be supposed that a nimmerous standing army could be maintained, and so many foreign wars carried on, without incurring extraordinary expences. The protector's revenues were so much exhausted, that he was obliged to have recourse to methods, which he probably would not have chosen, had he not been driven to them by necessity. One or two conspiracies entered into by the royalists; which were detected and pumished, served him as a pretente to lay a lieavy tax upon all that party, of the tenth penny on all their possessions. In order to raise this oppressive imposition, ten major generals were instituted, who divided the whole kingdom into so many military jorisdictions. These men had power to subject whom they pleased to this tax, aud to imprison such as denied their jurisdiction. Under colour of these powers, they excrcised the most arbitrary authority; the people had no protection against their exactions: tha very mask of liberty was thrown off, and all property was at the disposal of a military tribanal. It was in vaia that the nation cried out for at free pariament. Cromwell asscmbled one, in consequence of their clamours ; but as speedily dissolved it, when be fourd it refractory to his commands. At last, as parliaments were always held in such estimation by the people, he resolved to give them one; bat such as should be entircly of bis own choosing, and chiefly composed of his creatures. Lest any of a difforent complexion should enter the house, gaards were placed nt the door, and muneadmitted but such as produced a warrant from his council.

The principal design of convening this assembly was, that they should offer hire the mwn, with the title of king, and other ensigns of royalty. His creatures, therefore, trok care to insinuate the confusion there was in legal proceedings without the name of a king: that no man was acquainted with the extent or limits of the present magistrate's suthority, but those of a king had been well ascertained by the experience of agcs. The motion was at last formally made in the house, easily carried throughr, and nothing was now wanting but Cromwelfs oan consent to have his name enrolled among the Kings of England. This consent, fiowever, he never had resoldtion enougti to give. His doubts continued for some days, and the conference carried on with the members who made the offer, so far as it is on his part intelligible, seerus to argue that the was desirous of being compelled to accept the offer ; hoirever, the conference ended in his total refisal.

With all these proffersed honours, and with ail his despotic power, the situation of Cromwell was far from being enviable. Perhaps no situation, however mean, or loaded with contempt, could be more truly distressful than his, at the time the bation was. loading him with congratulations and addresses. He had at last rendered himself hateful to every 'party, and he owed his safety to their mutual hatred and diffidence of one another. His arts of dissimulation were exhausted ; none conld be deceived by them; even those of his own party and principles disdained the use to which he had converted tis zeal and professions. Though the whole nation silently detested his administration, he thid not been completely wretched, if he conld have found domestic consotation. But even his own fanitly had embraced republican principles with so mueh violence, that tirey could not, without indignation, behold him vested with nucontroulable power; and Mrs. Claypole, his favourite daughter, upbraided him on hee deati-Ejed, with all the crimes which led bim to trample on the throne. To add to all this, not only were conspiracies-formed-agaiast him, but he was at last taughif, upon reasoning principles, that his death was not only desirable, but his assassiuation would be meritorious. A book was published by colonel Titus, a man who find formerly been attached to his cause, entitled, "Killing no murder." Of all the pamphlets that appeared at that time, or, perhaps, of those that have since appeared, this was the most eloquent and masterly. Cromsell read it and is said never to have smiled efterwards.

The usurper now found, that the grandeur to wnen ne bad sacrificed his former tranquillity was only an infet to fresh inquietudes. He was hauuted with perpetual fears of assassination. He wore armour under his clothes, and always kept pistols in Lis poekets. Ilis aspect was elouded by a settled gloom, and he regarded every stranger nith suspicion., He was elways attended by a numerous guard, and travellad in a lurry. He never returned from any place by the road he went; and never slept above three nights together in the same chamber. At last he was delivered from this life of horror and ansiety by a tertian ague, of which he died, September Sd, 1658 , after having usurped the government nine years.

- Aliver Cromwell was succeeded in his office of protector by his son Itichard, who in minediately called a parliament. To this assembly the army presented i remonstrance,
diairing some porson for their general in whon they could confide. The house voted such ineetings and remonstrances unlawful : upon which the officers,-surrounding flichard's house, freed him to dissolve the, parliament; and sonn ufter he signed an abdication of the government. His younger brother, Henry, who had been appointed to the comman' of Treland, followed Richard's example ; and resigned his commission without striking a blow.

The officers, thus left at liberty, resolyed to restore the rump parliament, as it was cathed, conststing of that remnant of a parliament which had condemned Charles. They were no sooner reinstated in their authority, however, than they began to humble the arary, by cashiering some of the officers, and appointing others on whom they could have more dependance. The officers immediately resolved to dissolve the assembly. Lambert, one of the general officers, drew up a chosen body of troops; and placing them, in the streets which led to Weitminster-hall, when the speaker, Lenthall, proceerled in his carriage to the hotise, he ordered the borses to be curned, and very civilly conducted him home. The other members were likewise intercepted; and the army returued to their quarters to observe a solemn fast, which generally either preceded or nttended their ontrages. A committee was then elected, of 25 persons; of whom seven were officers. These they pretended to invest with sovercign authority; and a military goverument was estahlished; which gave the nation a prospect of endless servitude, and tyranny without redress.

Upon hearing that the officers had, by their own authority, dissotved the parliament, genernl Monk, who was then in Scotland, with 8000 veteran troops, protested against the measure, and resolved to defend the national privileges. As soon ns he put his ariny in motion, be found himself eageriy sought after by all parties ; but so cautious was he of declaring his mind, that, till the very last, it was impossible to know ahich side he designed to take. A remarkable instance of this cautious behaviour whis, that, when his own brother came to him with a message from lord Granville, in the name of tha king, he refused all conversation with him, opon hearing that he had told his errand to Mr. Price, the generals own chaplain, and a man of known probity and honour.

Hearing that the officers were preparing an army to oppose bim, Monk amused them with negotiations ; and the people, finding themselves not entirely defenceless, began to declare for a free parliament. The rump, finding themselves invited also by the navy and part of the army, again ventured to resume their scats, sud to thunder votes in their turn against the officers and that part of the army by which they had been ejected. Without taking any notice of Lumbert, they seot orders to the troops to repair immediately to the garrisons appointed for them. The soldiers obeyed; and Lambert at last found hiasclf deserted by his whole army. Monk, in the mean tinge, proceeded with his army to London. The gentry, on bis march, flocked round bim with addresses, expressing their desire of a new parliament; but that gencral, still continuing his inflexible taciturnity, at last came to.St. Atban's, within a feys mites of the cepital, leaving all the world in doubt as to his motives ond designs. Here he sent the parliament amessage, desiring them to remove such forces as remained in London to country quar.

## BRITISH EMPIRE.

ters. Some of the regiments willingly obeyed this order; and such as did not, Monk turned out by force : after which be took up his quarters with bis army in Westminster. The house voted him tbanks for his services : he desired them to call a free parliament; and this soon inspired the citizens to refuse submission to the present government. They resolved to pay no taxes until the members formerly excluded by colonel Pride should tee replaced. For this they were punished by Monk, at the denire of the parliament. He arrested 11 of the most obnoxious of the common-council; broke the gates and portcullises ; and, having exposed it to the scorn and contempt of all who hated it, he returned in triumph to bis, quarters at Westminster. The next day, however, he made an apology for this conduct, and promised, for the future, to co-operate with the mayor and common-council in such sehemes as they should approve.

The commons were now greatly alarmed. They tried every method to gain off the general from his new alliance. Some of them even promised to invest him with the dignity of supreme magistrate, and to support his usurpation. But Monk was too just, or too wise, to hearken to such wild proposals; he resolved to restore the secluded members, and, by their means, to bring about a new election.

The restoration of the expelled members was easily effected; and their number was so much superior to that of the rump, that the chiefs of this last party now thought proper to withdraw in their turn. The restored members began with repealing all those orders by which they had been expelled. They renewed and enlarged the general's commission; fixed a proper stipend for the support of the fleet and arny ; and, having passed these votes, they dissolved themselves, and gave orders for the immediate assembling a new parliament.

Meanwhile, Monk new modelled his army, to the purposes he had in view. Some officers, by his direction, presented him with an address, in which they promised to obey implicitly, the orders of the ensuing parliament. He approved of this engagement, which he ordered to be signed by all the different regiments ; and-this furnished him with a pretence for dismissing all the officers by whom it was rejected.

In the midst of these transactions, Lambert, who had been confined in the Tower, escaped from his prison, and began to raise forces; and as bis activity and principles were sufficieatly known, Monk took the earliest precaution to oppose his measures. He dispatched against him colonel Ingoldsby, with his own regiment, before Lambert had time to assemble his dependents. That officer had taken possession of Daventry, with four troops of horse : but the greater part of them joined Ingoldshy; to whom he himself surrendered, not without exhibiting strong marks of pusillanimity.

All this time, Monks still persisted in lis reserve; nor would be entrust his secret intentions with ayy person, except one Morrice, a gentteman of Devonitire. He was of a sedentary and studious disposition; and with him alone did the general deliberate on the great and dangerous enterprize of the Restoration. Sir John Granville, who had a commission from the king, applied for access to the general; bat be was desired to communicate-las business to Morrice. Granville refused, though twice angsi, to dc$\therefore$ Vol. 1 .

## BRITISH EMPIRE.

Hiver his message to any but the geneml himself: so that Monk, now finding he could depend on this minister's secrecy, opened to him his whole intentions; but, whith his usual caution, refused to commit any thing te paper. In consequence of these, the king left the Spapish territories, where he very natrowly cscaped being detained at Breda by the governor, under ptetence of treating him with proper respeet and formality. From thence he retired to Holland, where he resoived to wait further advice. '

The new parliament being assembled, sir Harbottle Grimstone was chosen speaker, a mian knoyn to be a royalist in his beurt. The affections of all were turned towards the king; yet such were their foars, and such dangera attended a freedom of speech, that none dared, for some days, to unake any mention of his name. At length, Monk gave directions to Annesly, president of the council, to inform them that one sir John Gravville, a servant of the king, had been sent over by his mojesty and was now at the door with a letter to the house of commohs. This message was received with the utmost joy. Granville was called in, the tetter read, and the king's proposals immediately accepted. He offered a general amnesty to all persons whatsoover, and that without any exceptions but what should be made by parlinment. He promised to indalge scrupulous consciences with liberty in matters of relligion; to leave to the examination of parliament the claims of all such as possessed lands with contested titles; to confirm all these concessions by act of parliament ; to satisfy the army under general Monk with respect to their arrears ; and to give the same rank to his officers, when they should be enlisted in the king's army.

In consequence of this good agreement between king and parliament, Montague, the English admiral, waited on his majesty, to inform him that the fleet expected his ordera at Scheveling. The duke of York immediately went on board, and took the command as lord high admiral. The king embarked, and landing at Dover, was received by the general, whom he tenderly embraced. He entered London in 1660, on the 29th of May, which was his birth-day; and was attended by an innumerable multitude of peo ple, who testified their joy by the loudest acclamations.

The restoration of Charles II, was attended with an important revolution in the spirit of the nation. The ferocious love of liberty, which had been productive of so many changes, had now given way to the most abject and unconditioual submission to the will of the prince. The striet devotion of the puritans, which had been abused by designing men to the worst purposes of imposture, was succeeded by a contempt for ah the dictates of the Christian religion: while scenes of gallantry and festivity were constantly exhibited at court, and contributed to promote the dissolution of manners among the people.

In the midst of this riot and dissipation, the old and faithful followers of the royal family were left unrewarded. Numbers who had fought both for the king and bis fattler, and who had lost their whole fortunes in his service, still continued to pine in want and oblivion ; while, in the mean time, their persecutors, who had aequired fortunes during the civil war, were permitted to enjoy them without molestation. The wretehed roy alists petitioned and murmured in vain; the monarch fied from their expostulations to
scenes of mirth and festivity ; and fre act of indemnity was generally said to lave been an aet of forgiveness to the king's enemies, and of oblivion to his friends.

In 1661, the Scots and English parliaments seemed to vie with each other in their prostrations to the king. In England, monarchy and episcopacy were raised to the greatest splendour. The bishops were permitted to resume their seats in the house of peers ; all military authority was acknowledged to be vested in the king. He was empowered to appoint commissioners for regulating corporations, and expelling such members as had intruded themselves by violence, or professed principles dangerous to the constitution.

An act of uniformity was passed, by which it was required that every elergyman should be re-ordained, if he had not before received episcopal ordination; that he should declare his assent to every thing contained in the book of Common Prayer, and should take the oath of canonical obedience. In consequence of this law, above $\simeq 000$ of the presbyterian clergy resigned their cures at once. In Scotland, the rigl t of the king was asserted, in the fullest and most paritive teras, to be hereditary, divine, and indefeasible. His power was extended to the lives and possessions of his subjects, and from his original grant was said to come all that they enjoyed. They voted him,an additional revenue of $40,000 \%$, and all their former violences were treated with the utmost detestation.

This intoxication of loyalty, however, began soon to wear off. The king's profusion and extravagance in his pleasures, together with his indolence in administration, furnished opportunities of making very disadvantageous comparisons between him and Oliver Cromwell. These animosities were heightened by the ejected clergy, especially when they saw Dunkirk, which had been acquired during the usurper's vigorous administration, sold to the French for $40,000 \mathrm{~L}$ and that merely to supply the king's extravagance. From this time (Angust 17th, 1662,) Charles found himself perpetually opposed, and his parliaments granted supplies much more reluctantly than before.

A few months before, the continual exigencies of the king had foreed him to conclude a marriage with the Infanta of Portugal, for the sake of her portion, which was $500,000 \mathrm{~K}$ in money, together with the fortresses of Tangier, in Africa, and of Dombay, in the East Indies. The chancellorr Clarendon, the dukes of Ormond and Southampton, urged many reasons against this match, particularly the likelihood of her never having any children; but all their objections could not prevail, therefore Clarendon set bimself to promote it as far as lay in his power. Still, however, the king's necessities were greates than his supplies. He therefore resolved to sacrifice his minister, the great Clarendon, to the resentment of his parliament, to whom he was become obnoxious, in order ts procure some more supplies for himself. In 166 s , an extraordinary supply was de manded: the king sent for his commons, on the 19th of June, to Whitehall. He complained of their inattention ; and, by acquainting them of a conspiracy to seize the castle of Dublin, he hoped to furnish a reason for demanding a present supply. Four subsidies were immediately granted, and the clergy in convocation followed the exañple of the commons. On this occasion, the carl of Bristol ventured to impeach the chan-

## BRITISH EMPIRE.

cellor in the house of peers : but as he did not support his charge, the affair was dropped for the present.

With a view, probably, of baving the money to be employed for that purpose in his hands, Charles was induced to declare war against the Dutch, in 1664 . In this war, the English, under the command of sir Robert Holmes, expelled the Dutch from Cape Corse caste, on the coast of Africa, and likewise seized on their settlements, of Cape Verd and the iste of Goree. Sailing from thence to America, the admiral possessed himself of Nova Relgia, since called New York; and which, till lately, continued subject to Britain. On the other hand, De Ruyter, the Datch admiral, dispossessed the English of all their settlements in Guinea, except Cape Corse. He afterwards sailed to America, where he attacked Barbadoes and Long Island, but was repulsed. Soon after, the two most considerable fleets of each nation met; the one under the duke of York, to the number of 114 sail; the other commanded by Opdam, admiral of the Dutch navy, of nearly equal force. The engagement began at four in the morning, and both sides fought with equal intrepidity. The dake of York was in the hottest part of the engagement, and behaved with great spirit and composure, while many of his lords and attendants were killed beside him. In the heat of the action, the Dutch admiral's ship blew up ; which so discouraged and disheartened them, that they fled towards their own coast, having 30 ships sunk and taken, while the vietors lost only one. 'S5is success of the English so much excited the jealousy of the neighbouring states, that France and Denmark immediately resolved to protect the republic from such formidable enemics. De Ruyter, the great Dutch admiral, on his return from Guinea, was appointed, at the head of 76 sail, to join the duke of Beaufort, the French admiral, who, it was supposed, was then entering the British Channel from Toulon. The duke of Albemarle and prince Rupert now commanded the British fleet, which did not exceed 74 sail. Albemarle detached prince Rupert with 20 ships, to oppose the duke of Beuofort; ugainst which piece of rashness sir George Ayscue protested in vain. The fleets thus engaged upon unequal terms, a most memorablé battle ensued. The first day, the Dutch admiral, Evertzen, was killed by a cannon-ball, one of their ships was blown up, and three of the English ships taken ; the combatants were parted by darkness. The second day, they renerved the battle with incredible fury. Sixteen fresh ships joined the Dutch; and the English were so shattered, that their fighting ships were reduced to 28. Upon retreating towards their own coast, the Dutch followed them; where snother dreadful conflict was beginning, but parted by the darkness of the night, as before. The morning of the third day, the English continued their retceat, and the Dutch their pursuit. Albernarle came to the desperate resolution of blowiag up his own ship, ratier than submit to the cheny, when he found himself happily reinforced by prince Rupert, with 16 ships of the line. By this time it was night; and the next day the fleets came again to close combat, which was continued with great violence, till they were parted by a mist. Sir George Ayscue having the misfortune to strike on the Galoper sands, was takea, with a ship of 100 guns.

Both sides claimed the victory; but the Dutch certainly had the advantage in this
engagement. A second, however, equally bloody, happened soon after, with larger fleets on both sides, commanded by the same adruirals. In this the Dutch were vanquished ; but they were soon in a condition to face thcir enemies, by the junction of i Beaufort, the French admiral.

The Dutch flect appeared in the Thames, conducted by their great adminal. The English were thrown into the utmost consternation. A chain had been drawn across the river Medway, and some fortifications had been added to the forts along the bank; but all these were onequal to the present force: Sheerness was soon taken; the Dutch passed forward and broke the cifain, though fortified by some ships sunk by Albemarle's orders. Destroying the shipping in their passage, they still advanced, with six men of war and five fire-ships, as far as Upnore castle, where they burned three men of war. The whole city of London was in consternetion; it was expected that the Duteh might sail up next tide to London bridge, and destmy not only the shipping, but even the tuildiggs of the metropolis. The Dutch, however, were unable to prosecute that project, from the failure of the French, who bad promised them assistance. Sprearling, therefore, an ularm along the coast, and having insulted Harwich, they returned to their own coasta.

During these transactions abroad, happened a great plague at London, which destroyed 100,000 of the inhabitants. This calamity was soon followed by another, still more dreadful, if possible. A fire broke out in a baker's house, in Pudding-lane, near the bridge, and spread with such rapidif" that no efforts could extinguish it, till it laid in ashes the most considerable part of tne city. This calamity, though it reduced thousainds to beggary, proved, in the end, both beneficial and ornamental to the city. It rose from its ruins in greater beauty than ever; the streets being widened, and the houses, built of brick instead of wood, became thus more wholesome and secure. In so great a calamity, it is remarkable tiat not a single life was lost.

These complicated misfortunes did not fail to excite cmany murmurs among the people. The blame of the fire was luid on the papists; the Dutch war was exclaimed against, as unsuccessful and unnecessary, as being an attempt to humble that nation, who were equal enemies to popery with themsel-es. Charles himself also began to be sensible that all the ends for which he had undertaken the Dutch war werc likely to be entirely frustrated. Instead of being able to lay up money for himself, the supplies of parliament had bjitherto been so scanty, that he found himself considerably in debt. A treaty, therefore, was set a-foot, which was concluded at Breda, on the 21st of July, 1667. By this treaty, the only advantage gained by Britain was, the cessation of the colony of Now York. It was therefore judged disgraceful, and the blame of it thrown upon the unbappy earl of Clarendon. Along with this, he was eharged with the sale of Dunkirk; the bad payment of the seamen : the disgrace by the Dutch flect; and his own ambition. His daughter, while yet in Paris, had commenced an ameur with the duke of York; and, under a solemn promise of marriage, had admitted him to her bed. Her lover, however, either of his own accord, or through the persuasions of his brother Charles, afterwards married ber; and this too was imputed as a crime to Clarendon. On these accusations, the king, who, on account of his rigid virtue, had Vol. I

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never much loved this nableman, ordered the seals to be taken from hin, and given to sir Ortando Bridgeman. Clarendon was again impeached; and though the clarges were manifostly frivolons, yet so strong was the popular torrent against him, that he thought proper to withdraw into France.

The king now began to act in a very arbitrary manner. He had long wishod to extend his prerogative, and to be able to furnish himself with whatever sums he mifght want for his pleasures, and therefore was most likely to be pleased with those ministers wha could flattor both bis wishes at once. These he found in Clifford, Ashley, Buckingham, Ailington, and Lauderdale, a junto distinguished by the name of the cabal ; a word formed by the initials of their names. The first effects of their advice was a secret alliance with France, and a rupture with Holland.
Soon after this, the duke of York declared himself a papist, and liberty of conscience was proclaimed to all sectaries, whether dissenters or papists ; a proclanation was issued, containing very rigorous classes in favour of pressing: another full of menaces against those who should speak undutifully of nis majesty's measures ; and even agninst those who heard such discourses, unless they informed in due time agyinst the offenders. All these things gave very great and just offence to the people; but they were especially alarmed at the alliance with France, and justly afraid of the treacliery of that nation.
On the e8th of May, 167e, the English flect, under the duke of York, was surprised by the Dutch in Southyold bay. About cight in the morning began a inost flurious engagement. The gallant Sandwich, who commanded the English van, drove his sisp into the midst of the enemy, beat off the admiral that ventured to attack him, sunk another ship that attempted to board him, and three fire-ships that offered to grapple with him. Though his vessel was tora with shot, and out of 1000 mén there only remnined 400 , he still continued to fight. At last, a fire-ship, more fortonate than the rest, having laid hold of his vesscl, her destruction became inevitable, and the earl himself was drowned, in attempting to swim to some other ship. Night parted the combatants ; the Dutch retired, and were not followed by the English. The loss sustained by the two maritime powers was neariy equal ; but the French suffered very little, not having entered irfto the heat of the engrgement. It was even supposed that they had orders for this conduct, and to spare their own ships, while the-Duteh and English should weaken each other by their mutual animosities.
The murmurs of the people, on account of the Dutch war, became at length so loud es to reach the king, who found himself obliged to assemble the parliament, and take their sense upon his conduct.
The parliament met on the 4th of February 1673. They began with repressing some of the king's extraordinary stretches of prerogative, and taking means for uniformity in religious matters. A law was passed, entitled the test act, imposing an oath on all who should enjoy any public benefice. Besides the taking the oaths of allegiance and the king's supremacy, they were obliged to receive the sacrament once a-year in the establisbed ehurch, and to abjure all belief in the doctrine of transubstantiation. As the dissenters also had seconded the efforts of the commons against the king's de-

## BRITISH EMPIRE.

claration of indulgence to Toman catholics, a bill was passed for their ease and rellif, which, however, was lost by delays in the house of peers. The Dutch, in the mean time, continued to defend themselves with such valour, that the commons began to despair of success. They therefore resolved that the standing army was a grievance: they neyt declared, that they would grant no more supplies to carry on the Dutch wur, unless it appeared that the enemy were so obstinate as to refuse all reasonable conditions.

To cut short these disagreeable altercations, the king resolved to prorogue the parliament; and with that intention went unexpectedly to the house of peers, from whence be sent the usher of the Glack-rod to summon the house of commons to attend. It happened that the usher and the speaker met nearly at the door of the house; but the speaker being within, some of the members suddenly shat the door, and cried, "To the chair." Upon which the following motions were instantly made, in a tumultnons manner: That tho alliance with France was a grievance; that the evil counsellors of the king were a grievance; that the earl of Lauderdale was a grievance : and theo the house rose, in great confusion. The king soon saw that he could expect no supply from the commons for carrying on the war which was so disagrecable to them ; he resolved, therefore to imake a separate peace with the Dutch, on terms which they had proposed by the Spanish ambassador, For form's sake, he asked the advice of parliament; who concurring heartily in his intentions, a peace was concluded accordingly.

The prepossession which Charics had all along shewn for France, and his manifest inclination upon all occasions to attach bimiseff to that kingdom, had given great offence to his people. Along with this, other circumstances conspired to raise a general discontent. The toleration of the catholics, so much wished for by the king; the bigotry of the duke of York, the heir apparent to the crown, and his zeal for th: propagation of the catholic religion, excited a consternation, not altogether without foundation, as if the protestant religion was in danger. This fear and discontent was carefully kept up and fomented by wicked and designing men; who, to promote their own interests, would not scruple to advance the grosecst falsehoods, In 1678, an account of a plot, formed by the papists for destroying the king and the protestant religion, was given in by ono Kirby, a chemist, Dr. Tong, a weak credulous clergyman, asd Titus Oates, who had fikewise been a clergyman, but one of the most abandoned miscreants that can be imagined.

The circumstances attending this pretended discovery were so perfectly incredible, that it appears amazing how any person of common sense could give ear to them. Nevertheless, $s 0$ much, were the minds of the nation in general inflamed against the catholics at this time, that it not only produced the destruction of individuals of the Romish persuasion, but an universal massacre of that unheppy sect was apprebended. The parliament, who ought to have repressed these delosions, and brought back the people to calm deliberate inquiry, were found more credulous than even the vulgar themselves. The cry of plot was echoed from one house to the other; the country party could not let slip so favourable an opportunity of managing the passions of the people; the courtiers were afraid of being thought dislogal, if they should doubt the guilt of thrse
who were accused of designs against the king's person. Danby, the prime mipister, himself, entered into it very furiously, and persisted in his inquiries, notwithstanding all the king's advices to the contrary. Charles himself was the only one who treated it with contempt. Nothing, however, could stop the popular fury; and, for a time, the king was obliged to give way to it.

During tho time of this general uproar and persecution, the lord trensurer, Danby, was impeached in the house of commons, by Seymour, the speaker. The principal charge against him was, his having written a letter to Montague, the king's ambassador at Paris, directing him to sell the king's good offices at the treaty of Nimeguen, to the king of France, for a certain sum of money; contrary to the general interests of the confederates, and even of those of his own kingdoms. Though the charge was just, yet Danby had the happiness to find the king resolved to defend him. Charles assured the parliament, that, as he had acted in every thing by his orders, he held him entirely blameless ; and though he would deprive him of all his employments, yet he would positively insist on his personal safety. The lords were obliged to submit; however, they weit on to impeach him, and Danby was sent to the Tower ; but no worse consequeness followed.

These furious proceedings nad been carried on by a house of commons that had continued undissolved for above 17 years. They were now dissolved, and another parliament was called; which, however, proved as unmanageable as the preceding. The members resolved to check the growth of popery, by striking at the root of the evil : and therefore brought in a bill for the total exclusion of the duke of York from the crown of England and Ireland, which passed the lower house by a majority of 79. They next voted the king's standing army and guards to be illegal. They procceded to establish limits to the king's power of imprisoning delinquents at will. It was now also that the celebrated statute catled the Habeas Corpus act was passed, which confirms the subject in an absolute security from oppressive power.

During these troubles, the duke of York had retired to Brussels; bat an indisposition of the king led him back to England, to assert lis right to the tbrone. After prevailing upon his brother to disgrace his natural son, the duke of Monmouth, who was now become very popular, he himself retired to Scotland, under pretence of quieting the apprehensions of the English nation, but, in reality, to strengthen his interest in that part of the empire. This secession served still more to inflame the country party, who were strongly attached to the duke of Monmouth, and were resolved to support him against the duke of York. Mobs, petitions, pope-burnings, were artifices employed to keep up the terrors of popery, and alarm the court. The parliament had shown favour to the various tribes of informers, and that served to increase the number of those miscreants ; but plots there.elves also became more numerous. Plot was set up against plot, and the people were kept suspended in the most dreadful apprehension.

But it was not by plots atrnethat the adverse parties endeavoured to supplant each other. Tumultuous vecition onone hand, ard fiattering addresses on the other, were sent up from all quarters. Wherefore the ountry party prevviled, petitions were sent to

## BRITISH EMPIRE.

the king filled with grievances and appreneasinns, Wherever the church or court party prevailed, addresses were framed, containing expressions of the ciighest regard to his majesty, and the deepest abhorrence of those who endeavoured to disturb the public tranquility.

Thus the nation came to be distinguished into petitioners and abfiorrers. Whig and Tory, also, were now first used as terins of reproach. The whigs were so denominated from a cant name given to the sour presbyterian conventiclers (whig being milk tumed soar). The tories were denominated from the Irish banditfi so called, whose usual manner of bidding people decliver, was by the Irish word Toree, that is "Give me."

- All this time the king had tyrannized over the Scots in a very cruel manner. Being apprized of the teadency of presbyterian principles to a republican form of government, Charles, like his predecessors, had endeavoured to introduce episcopacy there, but in a much more violent manner than had been formerly attempted. The rights of patrons had for some years been abolislied; and the power of electing ministers had been vested in the kirk-session and lay elders: but it was now enacted, that all incumbents who had been admitted upoh this title should receive a presentation, and be instituted anew by the bishop, under the penalty of deprivation.
In consequence of this, $\mathbf{\$ 5 0}$ parishes were at once declared vacant. New mimisters were sought for all over the kinglom, and none were so vicious or ignorant as to be rejected. The people, as might have been expected, were displeased to the highest degree ; they resolved, however, to give no sign of mutiny or sedition, notwithstanding thif discontent. This submission made their case still worse; it being foolishly imagined, that; as they did not complain for a little ill asage, they would submit altogether, if they were worse treated.

Affairs remained in a peaceable situation, till, in 1661, a very severe act was passedd in England against conventicles ; and this severity was imitated by the Scots parliament, who passed an act of the same kind. Military force was next let loose. Whereever the people had generally forsaken their churches, the guards were quatered throughout the country. They were commanded by sir James Turner, a man of a very furious temper and dissolete life. He went about and received lists from the clergy of those who absented theinselves from the churches, or were supposed to frequent couventicles. Without any proof, or legal conviction, he demanded a fine from them, and quartered soldiers on the supposed criminals, till he received payment. An insurrection being dreaded during the Duteh war, new forces were levied, and entrusted to the command of Dalziel and Drammond, two men of very cruel dispositions, and the Scots parliament gave full scope to all their ehormities.

Representations were now made to the king, who promised some redress.' But his lenity came too late. The people, in 1668 , rose in arms. They surprised Turner in Dumfries, and resolved to have him put to death; but finding his orders to be more violent than his execution of them, they spared his life. At Lanark they ronewed the covenant, and pablished their manifesto; where they professed their submission to the king, asd oaly desired the re-cstablishment of presbytery, and of their former ministers.

## Vol I

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## BRITISH EMPIRE,

Their force never exceeded 9000 men; and though the country in general bore then great favour, men's spirits were so subdued, that the insurgents could expect no farther increase of numbers. Dalziel took the field to oppose them. The numbers of the covenanters were now reduced to 800 , and these no way capable of contending with regalar forces. Having advanced near Edinburgh, they atteupted to find their way back into the vest by Pentland hills. Here they were attacked by the king's troops, and received the first charges very resolutely: but that was ali the action. Inmediately they fell into confusion and fled. About 40 were killed on the spot, and 190 taken prisoners.

So long ago as the year 1661, the presbyterians had deputed one Sharpe to lay their grievances before the king. Instead of this, their deputy abandoned the cause altogether, became their violent enemy, and, as a reward of his treachery, was made archbishop of St. Andrew's. After the battle of Pentland bills, this man was the foremost to take vengeance on the unhappy insurgents, whose oppressed state and inoffensive behaviour had made them objects of universal compassion. Ten were hanged on one gibbet in Edinburgh, 35 before their own doors in different places. They might all have saved their lives, if they would have renounced the covenant ; but this they absolutely refused.

The executions were going on, when the king wrote a letter to the privy council, in which he ordered that such of the prisoncrs as should simply promise to obey the laws for the future, should be set at liberty; and that the incorrigible should be sent to the plantations. This letter was bronght to the council by Burnet, but was not inmediately delivered by Sharpe. What his motives were for this delay, we pretend not to say; but certain it is, that no action of his life will bear a worse construction than thic. It had been customary to put these poor creatures to very severe tortures, in order to make them confess that to be falsebood which they believed to be true. By Sharpe's delay, one Hugh Maccail had been tortured, who would otherwive have escaped; and so violent were the torments he endured, that he expired under them. He scemed to die in an ecstacy of joy. His last words were uttered with an accent which struck all the by-standers with astonishment. "Farewel," said he, "sun, moon, and stars ; farewel world and time; farewel weak frail body; welcome eternity; welcome angels and saints; welcome Saviour of the world; and welcome God, the judge of all."

In 1670 , an act against conventicles was passed, scemingly with a design of mitigating the former persecuting laws ; though even this was severe enough. By this act, the bearer in a conventicle (that is, in a dissenting assembly where more than five beside the family were present) was fined five shillings for the first offence, and ten shillings for the second; the preacher 20\%. for the first offence, and 40\%. for the second. The person in whose house tho coventicle met was fined a like sum with the preacher. Ore remarkable clause was, that if any dispute should arise with regord to the interpretation of any part of the act, the judges should always explain the doubt in the sense least favourable to conventicles, it being the intention of parliament entirely to suppress them.

## BRITISH EMPIRR.

- As the violent methoas used by the king were found ineffectoal to obtain this purpose in Scotland, in 1678, a scheme of comprehension was tried, by which it was proposed to diminish greatly the authority of the bishops, to abolish their negative voice in the ecclesiastical courts, and to leave them little more than the right of ptecedency among the presbyters; but this too was rejected by the people, who well knew its tendency.

The next scheme was an indulgenee. By this, the most popular of the expelled preaciers, without requiring any terms of submission to the entahlished religion, were settled in vacant churehes; and small salaries, of about $20 \%$ a-year were offered to the rest, tiil they should be otherwise established. This bounty was rejected, as the wages of crimianl silence, and the replaced minisiers soon repented of their compliance; conventicles multiplied, and the covenanters daily met in arms at their place of worship, though they usually dispersed themselves after divine service.

These mild methods being rejected, a renewal of the persecution commenced under the administration of the duke of Lauderdale, and in which archbishop Sharpe had a principal hand. It was'an old law, and but seldom put in execution, that a man who was accused of any crime, and did not appear to take his trial, might be intercommuned; that is, he might be publicly outlawed; and whoever aftehwards, either on account of business, relation, or charity, had the least intercourse with him, was subjected to the penalties which the law could inflict on the criminal himself. A great many writs of intercommuning were now issued against the covenanters ; by which abused method of proceediag, crimes and punishments were maltiplied to an extreme degree.

Application was made to Cnarles for some redress of these grievances; but he was too much taken up with bis pleasures to take any effectual means of putting a stop to them ; nay, even while he retracted them, he was persuaded to avow nid pruise them in a letter to the privy conncil. The consequence of all this was, that the covenanters were at last so much ennuged against Sharpe, whom they considered as an apostate, and experienced to be an unrelenting persecutor, that, on the Sril of May, 1679, he was way-laid and murdered, with all the circuinstances of unrelenting cruelty. The murder of Sharpe producet a persecution still more viotent, which at last brought oa another insurrection.

The covenanters finding themselves obliged to meet in largo bodies, and bring arms along with them for their own security, set forth a declaration against prelacy, which they published at Rutherglen, a small borough near Glasgow; and in the market-ploce there, they burned several acts of parliament, which bad estabitished that mode of ecclesiastical government, and had prohibited all conventicles. Por this purpose, they chose the 29 th of May, the zuniversary of the Restoration ; and previously extinguished tha bonfires that had been kindled on that occosion. Count Grabam, afterwards viscutnt Dundee, an active and enterprising officer, attacked a great conventicle upon London hit, but was repulsed, with the loss of 30 men. The covenanters then finding themsel ces unwarily engaged in rebellion, were obliged to persevere ; and therefore pushed on to Glasgow, whinh, shough repolsed at first, they afterivards made themselves masters of. Here they dispossessed the established elergy, and issued proclamations, in which
they 'declared that they fought against the king's. supremacy, against popery and prelacy, and against a popish successor.

Charlés, being now alarmed, dispatched against the covenanters a small body of Euglish cavalry; inder the duke of Monmouth. He joined the Scots guards, and some regiments of militia, levied from the well affected counties ; and with great celerity marched in quest of the insurgents. They bid taken post at Bothwell-bridge, between Hamilton and Glasgow ; where there was no ascess but by the bridge, and where a small body was able to defend it against the king's army. The whole army of the covenanters never exceeded 8000 men, and they had in reality no other generals than their dersymen. Monroouth attecked the bridge, and the covenanters maintained their post as long as their ammunition lasted. When they sent for more, they received orders to quit their post and retire ; and this imprudent measure occasioned an inmediate defent. Monmouth passed the bridge without opposition, and drew up his forces opposite the enceny. His caanon alone put them to the rout. About 700 were killed in the pursuit; for, properly speaking, there was no action. Twelve hundred were taken prisoners, and treated with bumanity by Monmonth. Such as promised to Hive peaceably under the present government were dismissed; and about 300 who refused this condition were shipped for Barbindoes, but unfortunately perished by the way. Tiro of their clergymen were hanged. Soon after, an act of indemnity was passed; but Lauderdale took care thist it should afford little protection to the unliappy covemanters ; for though orders were given to connive thenceforward at all conventicles, he found mean', under a variety of pretences to clale the execution of them.

It is now certainly known, that king Charles II. had formed a scheme of overturning the establisised religion, and substitating popery in its place; as also of rendering hiinself absolute. In this, however, he met with violent opposition from bis parliaments ; and as this one of 1679 seemed even to surpass their predecessors in violence, the king was induced to dissolve them, and call another in 1680. By this step, bowever, he was no gainer. They voted the legality of petitioning the king; and fell with extreme violence on the abhorrers, who, in their addresses to the crown, had expressed their disapprobation of those pectitions. Great numbers of these were scized by their order in all parts of England, and committed to close custody; the liberty of the subject, which had been so carefully guarded by their own recent law, was every day violated, by their arbitrary and capricious imprisonments. One Stowel, of Exeter, put a stop to their proceedings : he refused to obey the serjenant at arms, who was sent to apprehend him; he stood upon his defence, and said he knew no law by which the house of commons pretended to commit him. The house, finding it equally dangerous to proceed or recede, got off by an evasion. They voted that Stowel was iodisposed; and a month's time was allowed him for his recovery. It is happy for the nation, that, should the commons at any time overleap the bounds of their authority, and capriciously order men to be put in prison, there is no power, in casc of resistance, that can compel the prisoners to submit to their decrées.
Tho chief point, however, laboured by the present parliament, was to obtain the oxclusion bill; which, though the former house had voted, was never yet passed into a
law. It passed by a great majority in the nouse of commons, but was thrown out by the house of laris. All the bishops, except three, voted against it ; for they were of opiniou that the church of Eugland was in much greater danger from the prevalence of presbyterianism than popery. The commons were extremely mortified at the rejection of their firto arite bill : in revenge, they passed several other disagreeable acts, aunong whićh one was, That, till the exclusion bill was passed, they coald not, consistently with the trust repioied in them, grant the ling ahy manner of supply; and that whoever should bereatter lend, hy way of advance, any money upan the branches of the king's revenue, shoold be responsible to parlioment for his conduct. Charles, therefore, finding that there were now no hopes of extorting either moncy or obedieace from the commons, came to a resolution of once more dissolving the parliament.- His usher of the black-rod necordingly came to dissoive them, while they were voting that the dissenters should be encouruged, and that the papists had burned the city of London.
) It was for some time a doubt whether the king would call another parliament: lis nececssities, however, surmounted all his feans of their violence; and, in 1681, he isummoned bis parliament to meet bim at Oxford, that he might thas have an opportunity of punishing the city of London, by, showing his suspicions of their logalty. In this, as in ail former parlifiments, the country party predominated; and they trod exactly in the same pattis with their predecensors. The same speaker wras chosen, and the exclasion bill raged more fiescely than tefore. Ernely, one of the king's ministers, proposed that the dike should be banished 500 miles from Eugland ; and that, on the king's decease, the next heir should be constituted regent, with regal power. Yet even this expedient, which left the duke the hare title of king, could not obtain the attention of the house. Nothing but a total exclusion could satisfy them.

Each party had now for some timereviled and ridiculed each other in pamptilets and libels; and this prgetice at last was attended with an ingident that deserves notice. One Fitzharris, an Irish papist, employed a Scotsman, mamed Everhard, to write a libel ngainst the king and the duke of York. The Scot was actually a siyy for the contrayy party ; and supposing this a trick to entrap him, he discovered the whole.to sir Willian Waller, an etrinent justice of the peace; and, to convinee lim of the truth of his information, posted the magistrate and two other persons privately, where they heard the whole couference betreen Fitsharris and himself. The libel composed between them vas replete with the utmost rancour and seurrility. Walter, carried the intelligence to the king, and obtained a warrant for committing Fitzharis, who happened at that very time to have a copy of the libel in his pocket. Seeing himself in the hands of a party from whom be expected no mercy, he resolved to side with them, and throw the odium of the libel upon the court, whio, he said, were willing to draw up a libel, which shoutd be imputed' to the exclasioners, and this render them hateful to the people. He enLanced bis services to the country party by a new popish plot, more tremendous than any of the foregoing, and in which lie brought in the duke of York as a princfpal accomplice. The king imprisoned Fitzharris : the commons avowed his causes, They voted that he should be impeached by themselves, to screen him from the ordinary
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forms of justice: the lords rejicted the impeachment; the commons asserted their righit; a commotion was likely to ensue; and the king, to break off the contest, went to the house and dissolved the parliament, with a fixed rosolution never to call. another.

Froun this moment the King rutci with despotic power. Mis temper, which had atways been easy and merciful, now became arbitrary and cruel; he entertained spies and intoravers round bis throne, and imprisoned all such as be thougtit most daring in their designs. He resolved to humble the presbyterians: they were divested of their employments and their places ; and their offices given to such as held with the court, and approved the doctrine of nou-resistance. The clergy began to testify their zeal and their principles by their writings and sermons; but thougt among these the partizans of the king were the mot numerous, those of the opposite faction were the most caterpriving. The king openly, espoused the cause of the former; and thus placing himself at the head of a faction, he deprived the city of London, which had long feaded the popular party, of their charter. It was not till after an abjeet submission that he restored it to thiem, having previously subjected the election of their magistrates to his immodiate autbority.

Terrors also were not wanting to confirm this new spocies of monerchy. Fitzharris wis brought to a trial before a jury, and condemmed and executed. The whole gaing of spies, witnesses, informers, suborners, which had long been encouraged and supported by the leading parriots, finding now that the king was entirely master, turned short upon their antient drivers, and offered their evidence against those who first put them in motion. The king's ministers gave them encouragement; and in is short time the samit imjustice and the same cruelties were practised against presbyterian schemes that haid formerly been practised against catholic treasons. The king's chief resentment was levelled against the earl of Shaftesbury, and, indeed, not without reason, as he had a

- very active hand in the late disturbances. No sums were spared to seek for evidence, or even to subora witnesses, against this intriguing and formidable man. A bill of indiltment being presented to the grand jury, witnesses were examined, who swore to such fucredible circumstances, as must have invalidated their testimony, oven if they had not been branded as perjored villains. Among his papers, indeed, a draught of an association was found, which might have been construed into treason; but it was not in the carl's hand-writing, nor could it be proved that he had ever communicated tais scheme to any body, or sigaified his approbation of any such project. The sheritts had summoned a jury, whose principles coincided with those of the earl; and that, probubly, more than any want of proof, procured his safety.
In 1683, the city of London was deprived of its charter; whict was restored only upon terms of the utmost submission, ethd giving up the nomination of their own magistrates. This was so mortifying a circifnstance, that all the other corporations in England soon began to fear the same tratment, and were successively inducod to surrender their charters into the hands of the king. Considerable sums were exacted for.restoring these charters, and all offices of power and profit were left at the disposal of the crowi.

Resistance now, however justifintle, could not be sfic; and nll prudent men sas tho other expedient, but submitting patiently to the present grievances.

There wns a party, however, in England, that still cherished their former ideas of freedom, and resolved to restore liberty to their country, by dethroning the kivg, who acted in such a despotic manner. The priacipal conspirators were Monmouth, Sheffesoury' Russel, Essex, Howard, Atgernon Sidney, and John Hampden, grandsou tow the great man of that name. Monmouth cngaged the carl of Macclesfield, lord Dirundon, sir William Courtacy, sir Francis Knowles, and sir Francis Drake, uho pronised to raise the West. Shaftesbury; with one Ferguson, an independent clergyman, and a restess ploter, managed the city, upon which the confederates chiefly relied. These schemes had been laid in 1681: but the caution of lord Russel, who inducet the duke of Monmouth to put off the enterprize, saved the kingdom from the horrors of a civil war; while Shattesbury was so struck with a sense of his impending danger, that he left his housc, and, lurking about the city, attempted, but in vain, to drive the Londoners to an open insurrection. At last, euraged at the numberless cautions and delays yhich clogged, and defeated his projects, he threatened to begin with his oun friends singly. However, after a long struggle between fear and rage, be abondoned all hopes of sugcess, and fled to Amsterdam, where he soon after died.

The loss of Shaffesbury, though it retarded, did not suppress, the designs of the conspirators. The remaining six formed a council ; they corresponded with Argyle, and the malcontent in Scotland; and resolved to prosecute the scheme of the insurrection, though they widely differed in principles from one another. Monmouth aspired to the crown ; Russel and Hampden proposed to exclude the duke of York from the succession, and redress the grievances of the nation. Sidncy was for restoring the republic, and Essex joined in the same wish. Lord Howard was an abandoned man, who, having no principles, sought to embroil the nation to gratify bis privete interest in the confusion.

Besides these, there was a set of subordinate conspirators, who frequently met together, and carried on projects quite unknown to Monmouth and his council. Among these was colonel Rumsey, an old republicsn officer; lieutenat colonel Walcot, of the same stamp; Goodenough, under sheriff of London, a zealous and noted parks. man; Ferguson, an independent mínister; and several attorneys, merchants, and tradesmen of London. Dut Rumscy and Ferguson were the only persons that bad access to the great leaders of the conspiracy. These men undertook the desperate resolution of assassinating the king in his way to Newuarket; Rumbold, one of the party. possessed a farm upon that road, called the Rye-house, and from thence the conspirecy was called the Rye-house plot. They deliberated on a scheme of stopping the king's coach, by overturning a cart on the high-way at this place, and slooting him through the ledges. The house in which the king lived at Newmarket accidently took fire, and he was obliged to leave Newmarket eight days sooner than was expected; to ubich circumstance he orred bis safety. Soon after this the conspirecy was discoveresl; Pussel, Sidney, and Walcot were executed; Essex cut his own throat or was murdeceld
in the Tower. Hompden was fined $40,000 \mathrm{l}$. and scarce one escaped who had been in any manner concerned, except the duke of Monmouth, who was the most culpable of all.

This wns the last blood that was shed on account of plots or conspiracies, which contimued during the greatest part of this reign. Severe punishments, however, were inflicted on many who treated the duke of York unvorthily. The famous Titus' Oates was fined $100,000 \mathrm{l}$. for calling binin a popith traitor; and he was imprisoned till he should pay itc, which he was absolutely incapable of: $\Lambda$ similar sentence was passed upon Dutton Colt: . Sir Samuet Barnaditon tras fined 10,000 I. for having in some private letters reflected on the govermment. The government of Charles was now us absolate as that of any prince in Eorope ; but to please his subjects by an act of popularity, he judged it proper to marry the fady Anne, his niece, to prince George, brother to the king of Deumark. This was the last remarkable transaction of this extraordinory reign. On February Ind, 1685 , about eight in the morning, the king was seized with a fit of the apoplexy ; being dressed, and jast come out of his closet, where he trad beea for some time after he rose from bed. By being blooded, he was restored perfectly to his senses ; and there were great hopes of his recovery the next day. On the fourth day the physicians despaired of his life, and therefore sent for the queen. He was in hirs perfect senses when she arrived. She threw herself on her knees, and asked his pardon for all her offences. He replied, that she lind offended in nothing; but that he had been guiky of offences against her, and asked her pardon. He spoke with great affection to the duke of York, and gave him excelient counsel for his future conduct. He advised him to adhere to the laws with strictness, and fuvariably to support tho church of England. The duke seemed anxious to convince bim, before be died, hois little he intended to follow his advice. Having removed the bishops, and severat of the lords who attended the bed of the king, he sent for Huddleston, a Romish priest. In the presence of the duke, the earl of Bath, and Trevannion, a captain in the guards, Huddleston gave the extreme unetion to the king, and administered to him tho sacratuent, aecording to thie rites of the church of Rome. All this was done in the space of lialf in hour. The doors were then thrown open: six prelates, who had before attended the king, were sent for to give him the sacrament. Kenn, bisthop of Bath and Wells, read the visitation of the sick; and after he said that he repented of his sins, the absolotion. The king assisted with seeming devotion at the service ; but bis mouth being distorted with fits, and his throat contracted, he could not swallow the elements. He professed, however, his satisfaction in the church of England; and expired on the 6 th day of February, between eleven and twelve o'clock, having reigned 25 years, and lived 35.

The first act of the reign of James'11. was to assemble the privy council; where, after some praises bestowed on the memory of his predecessor, he made profession of his resolution to maintain the established government both in church and state; and as he had heretofore ventured his life in defence of the nation, he would still go as far as any man in maintaining all its just rights and priviloges

This discourse was received with great applause, not only by the council, buit by the whole uation. Addresies crive from all quarters, fall of duty, nay of the wost servile adolation. From this cliarge, however, we must exeept that of the quakers, which is remarkable for its good sente and siapplicity. "We are come," sail theyen "to testify pur surrow for the death of our good friend Charles, and our joy for thy being made our governor. We are told that thon art not of tie persnasion of the church of England no miore than we; wherefore we liope that thou witt grant wo the samo liberty which thoo allowest thyself. Wuich doing, we wish theo all unaner of bap. piness,"
The king howeyer, soon showed, thit he either was thot sincere in lis promises, or that he entertuided so lofy an idea of bis own regal power, that eveb his uttaos-sincerity coald tend very little to the security of the liberties of the people. All the customs, and th- greater part of the excise, which hiad becil voted to the late ting for his life only, were levied by James without a new act for that purpose. He weht openly to mass, with aff the ensigns of hiss dimity; and even sentone Caryl as his agent to Romie, to make submissions to the pope, and to pave the way for the re-admission of Englant into the bosom of the catholic church. From the sodgestions of these men all his ment sures were undertaken. One day, when the Spanish anhassador veatured to advise bis majesty agriinst pating too much confidence in such kind of people, " Is it not the custom in Spain," said James, "for the king to coassalt with his confessor?" "Yes," answered the ambassador, "and that is the reason why our affuirs succeed so very ill."

Jame's. first parliment, which was composed mostly of zealous tories, wes strougly inclined to comply with the mensures of the erown. They voted unanimousty, that they abwuld settle on the prosent king, daring life, all the revenue cujoyed by the late King till the time of His Recrase. For this fanour, James assured them, that ino woald secure them in the full enjoyment of their laws: but, with regard to religion, no answer dould be extorted, for that he was resolved to alter. In every thing, however, rellgion excepted, James merited every praise. He applied biaself to business with unremitting attention. Ho managed his revenue with the strictest econony. He reteached soperfluous expences, and showed himelf zualous for the glory of the nation. He endeasoured to expel from court the viee which had prevaited so moch during the former reigh, and to restore decency and morality. He presided daily at the council, at the board of adminuity and treasury. He even entered into the whole detait of the covieerns of the great departments of the state. But his bigotry for the Romish religion sulticd alf his good qualities, and rendered thim feared for this violence, where the uss not despised for his weakness.
Hut whilst every thing was submited in tranquillity to James at home, a sterm uns gathering a eroid to disturth his repose, Por a long time. the priuce of Orange had etttevinien buprs of ascentios the British throne, and bad exen used all his endeavours to exclode Joures ftote it. Mannuwh, who, since his last conepiracy, had been pardoned, but orecrest to depart the linglom, bad retied to Hofland. He wits emecived
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chief isvourite, througis wham all favours-were to be wbtained. When the news of Chairles's death arrived, indeed, the prince made a show of altering his note, and dissuissed Monmouth, though he still kept a close correspondence with him. The duke retired to Brussels, where, under the auspices of the prince of Orange, he resolved to invade England, with a design of seizing the crown for bimself. He was seconded by the duke of Argyte, who formed the scheme of an insurrection in Scothand; and, while Monmouth attempted to make a rising in the west of England, it was resolved that Argyle should, also try his endeavours in the aorth. The geverosity of the prince of Orange, however, did not correspond with the warint of his professions. The unfortunate duke derived from his own plate and jowels his whole supply for the war ; and the enthusiasm of a rich widow supplied Argyle with 10,000 \%. wherewith he-purchased three vessels, which he loaded with arms and ammunition.

Argyle was the first who landed in Scotiand, where be published his manifestoes, put himself at the head of 9500 men, and strove to intluence the people in his favour. But a formidable body of the king's forces coming against him, his army fell away; and be hinself, after being wounded in attempting to escape, was taken prisoner by a pear sant, who found him standing up to tho ueck in wuter. He was from thence carried to Ediaburgh, where, after suffering many indimnities, he was publicly executed,

By this time Monmouth had landed io. Dorsctshire, with scarce 100 followers. His name, however, was so popular, and so great was the hatred of the peoplo to James, on account of his religion, that, in four days, he had assembled a body of above 2000 men. They were indeed all of them the lowest of the people, and his declarations were suited entirely to their prejudices. Ite called the king the duke of York; and denominated him a traitor, a tyrant, a murderer, and a popish usurper. He imputed to him the fire of London, and even affirmed that he had poisoned the late king.

Monmouth continued to make a rapil progress, and in a short time found himself at the hend of 5000 men; but was daily oblized to dismiss great numbers for want of arms. The king was not a little alarmed ot his invasion. Six regiments of British troops were called over from Holland; and a body of regulars, to the namber of 3000 , were sent, under the command of the eart of Feversham and Churchill, to sheck the progress of the rebels. They took post at Sedgemore, a village in the neighbourhood of Bridgewater, and were joined by considerable numbers of the country militia. Here Moimouth resofved, by a desperate effort, to lose his life or gain the kiogdonn. He drove the royal infaatry from their ground, and was on the point of gaining a complete victory, when the cowardice of Gray, who commanded the horse, brought all to ruin. This nobleman fied at the first onset; and the rebels, being charged in flank, gnve way, after a three-hpurs' contest. Above 300 were killed in the engagencat, and 1000 in the pursuit. Monmouth fled above 90 miles from the field of battle, till his horse sunk under him. He then alighted; and, exchanging clothes with a shepherd, fled on foot, attended by a German count, who bat accompasied bim from Holland. Being quite exbausted with bunger and fatigue, they both lay down in a field, and covered thers-

## BRIIISH FMPLIEE

selves with ferm. The shepherd being fuund in Mofmouth's clothes by the pursuers, increased the diligence of the search; and, by means of the blood-hounds, he was detected in bis miserable situation, with raw pease in his pocket, on which lie had lived for some days. He burst into tears when seized by his enemies; and petitioned, with the most, alject submission, for his life. On lis way to London, he wrote a submissive letter to the king, promising discoveries, should he be admitted into his presence. The curiosity of James being excited by the letter, be sent Sheldon, a gentloman of the bedchamber, to meet Monmouth. In hisconversation with Sheldon, lie asked who was in chief confidence with the king; and being answered that it was Sunderland, Monmouth knocked his breast in surprise, and said, "Why then, ds I hope for salvation, le promised to meet me." He desired Sheldon to inform the king, that several of his accomplices in rebelliun were in the confidence of his majesty; and be gave lim a particular account of the part which the prince of Orange had ected in this wholu affair.

Sheldon, on his return from the rlake of Monmouth, began to give an account to the king of what be had learned from the unlappy prisoner. Sundelrand, pretending business, came into the room. Sheldon stopped, and signified his desire to speak in private with the king. James told him he might say any thing before that lord. Sheldon was in great perplexity ; but, being orged, he told all that Monmonth had asserted.* Sunderland appeared for some time confused: at length hie stid, with 'a laugh, "If" that is alt he can discover to save his life, lic will derive litte good from his infonmation." Monmouth himself was soon after brought before the king. Sunderland, by an nutitice, ensured the death of the unfortunate duke, to save himself and the other adherents of the prince of Orange. When he saw Monmonth's tetter to James, and heard the discoveries made by Sheldon, he is said to have advised bim, that, as he could asd stere bim of the certainty of a pardon, he ought to deny what he had said in prejudice of bis friends, who could serve him on some other more favourable occasion. The credulous duke, swayed by the advice of Sunderland, suppressed what lie bad, said to Slieldon, when he was examined by the king. He mentioned nothing of the concern which' tae prince of Orange had taken in the invasion; though a point on which James wiat already sulliciently informed. D'Avaux, the French ininister to the States, had givent ${ }^{*}$ a circumstantial account of the whole conduct of the prince to Iouis XIV. who had ${ }^{4}$ ordered it to be privately communicated to the king of England. The ministertwhof had been sent from Holland to congratalate James on the suppression of Argyle's rebelul lion, was in a grievous agony when he heard that the king was resolved to see Monmouth. "Though be :ound that he said nothing of his master," said James, " he was" never quiet till Monmouth was dend."

The unfortunato duke made various attempts to obtain mercy. He wrote to the queen dowager ; he sent a letter to the reigning quien, as well as to the king bimself. He begged his life, when admitted into bis presence, with a meanness unsuitable to bist pretensioas and kigh rank. But all his intreaties and subinissions were of nó availid Iames told kim, that be was much affected with his misfortunes, but that his trime waif
too dangerous in its example to be left unpunished. In his last moments he belived with a magnamimity worthy of his former courage. When he came to the scaffold, be behaved with decency and even with digaity. He spoke little: he made no conession ; nor did he accuse any of his friends. Circuinstances are-sail to have attended lis death that created a horror amung the spectators. The executioner missed his blow, and struck him slightly on the shoulder. Monnouth raised his bead from the block aud looked him full in the face, as if reproaching him for his mistake. He struck him twice again, bet uita fecble strokes; and then threw the axe from his hands. The Sieriff forced him to renew his attempt; and the head of the duke, who secmed already dead, was at last severed from his body.

Those concerned in the duke of Monmoath's conspiracy were punished with the utmost severity. . Immediately after the baitle of Sedgemore, Fevershain hanged up above 20 prisoners ; and was proceeding in his executions, when the bishop of Bath and Wells informed him, that these unliappy men were now by law intitled to a tritt, and that their execution would be deemed a real murder. Nineteen were put to death in the saaie manuer ut Bridgewater, by colonel Kirke, a man of a savage and bloody dise position. This vile fellon, practised in the arts of slaughter at l'angier, where he served in garrison, took pleasure in committing fustances of wanton barbarity. He cavaged the whole country, without makiog any distinction between friend nad foe, His own regiment for their peculiar barbarity, went under the ironical titlo of Kirke's lambs. It doth not, however, appear, that these cruelfies, were committed by the direction, or even with the approbation of James; any more than the legal sloughters that were committed by judge Jefferies, who was sent down to try the delinquents. The natural brutality of this mun's temper was inflamed by continual intoxication. No fewer than 80 were executed by his orders at Dorchester; and, on the whole, at Exeter, Taunton, and Wells, 950 are computed to have fallen by the hand of justice, as it was called; nor were the women ex-mpted from the general severity; but suffered for harbouring their nearest kindred Jefferies, on his return, was immediately createi a peer, and soon after vested with the dignity of chancellor. In justice to the king, however, it must be owned, that, in his memoirs, be complains, with apparent indiguation, of " the strange havock made by Jefferies and Kirke in the west;" and that he attributed the uspopularity, which afterwards deprived him of the crown, to the violence-and barbarity of those preteaded friends of his authority. He even ascribes their severities, in spme degree, to a formed design of rendering bis government odious to his subjects ; and from bence, it is probable that no exact or impartial accounts of these cruelifes had reached bis cars, at least till long after they were committed.

James now began to throw off the inask, and to endeavour openly to establisth popery and arbitrary power. He told the hoase of commons, that the militia were found by experience to be of no use; that it was necessary to augment the standing arny; and that he had employed a great many catholic officers, in whose favour he lad thought proper to dispense with the test required to bo taken by all who were employed by the srown, Ho found them useful, the said, and he was determined to knep them employed.

These stretches of poiver naturally led the vords and commons into some degree of opposition ; bat they soon acquiesced in the kngs measures, and then the parliament was dissolved fyr their tardy compliance. This was liappy for the nation ; for it was perhaps impossible to pick out inother house of commons that could be more ready to acquiesce in the , measures of the crown ; but the dissolution of this pariliament was gencrally looked upon as at sikn that James never intended to call anothor.

The parliament being dixmissed, James's next step was to secure a catbolic interest in the privy council. Accordingly, four eatholic lords were admited,'viz. Powis, Arimelel, Belasis, ind Dover. Suuderland, who saw that the only way to gaio preferment was by popiery, berame a convert. Rochester, the treasurer, was turned out of tis office, because he reffused to cyoform. Even in Ireland, where the duke of Ormond bad long sapported the royal cause, this nobleman was displaced, as being a protestant; and the lord Tyroomel, a furious Roman catholic, was pliced in bis stead. In his zeal for popery, it is said thar Jimes stooped so low as even to nttempt the conversion of colonel Kirke; but the daring soldier told hiin, that he was pre-engaged; for he tad promiacd the king of Aloroced, when hie was quartered at Tangiers, that, if ever be chauged lis religion, he would tarn Mabomietan.

At lasi, the elenty of the clureh of England began to take the alarm, and corhmenced an oppositian to court mensires. Thie pulpits now thundered out against popery; and it wus arged, that it mas mom farmidable from the support gramted it by the king. It was in vain that Janes attempted to impose silence on these topics : instend of avoiding the controversy, the protestunt preachers pursued it with greater warnith.

To effect lii desigus the kiog deternined to revive the bigh commission court, which had formerly given the nation so muel disgust, and which had been nbolisted for ever by an act of parliament. An ecelcsiastical commission was issued out anew, by which seven commissioners were invested with a full and unlimited authority over the whole chuirch of Eugland. The next step was to allow a liberty of conscience to all scetaries; and the was taught to believe, that the truth of the catholic religion wonld then, upon a fair trint, gain the victory. In such a case, the same power that gronted liberty of conscience might restrain it, and the catiolic religion alone be allowed to predominate. He theceiore issurd a declaration of general indulgence, and usserted that nonconformity to the establitited religion was nio longer penal. In Scotland, he ordered his farrliament to great a toleration only to the catholics, without intercediug io the least for the other dissenters, who were miveth more numerous. In Ireland, the protestants were totally expelled from all offices of trost and profit, and catholics put in their places. These miessures sufficiently disgusted every part of the British empire; but, to complete the work, James pablicly sent the eari of Castemnine ambassador extrmordinary to Rome, in order to express his obedience to the pope, and reconcile h's kingdoms to the catiolic communion. This proceeding was too precipitate to be relished by the pope bimself, and therefore the oilly return he made to this embasty was the sending a nonelo into Englatid. The vuiucio made a public and solennentry into Windsor; whielh did not fail to audd to the general discontent; and because the duke of Somerset
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refused to attend the ceremony, he was dismissed from his employment, of one of the lords of his bed chimber.
- Soon atter this, the Jesuits were permitted to erect colleges in different parts of the kington, and to exercise the catholic worship in the most public manner. Father Frantis, a Benedictine monk, was ricommended by the King to the university of Cambridge for the degree of master of arts. The aniversity rejected him, on account of his religion; and presented a petition to the king, besecching him to recal his mandate. Janes fisregarded their petition, and denied their deputies a bearing : the vien-chanecllor liimself was summoned to appear before the hith commissiun court, and deprived of his office; yet the universits persisted and fither Francis was refused. The ptrice of president of Magdalea college being vacant, the king sent a mandate is favour of one Farmer, a new convert, and a man of bad character in other respects. The tellows of the college made very subuissive applications for recalling bis mandate : thet the election day coming on before they received an maswer, they chose Dr. Hough, a man of learuing, futegrity, and resolution. The King was incensed at their, presumption; an inferior ceclesiastical court was smt down, who, finding Farmer a nian of scandalous character, issued a mandate for a new election. The man now recommended by the king Mus toctör Parker ; a man of an abanfoned character, but very willing to emberace the cathalic religion. The fellows refused to comply with this injunction ; which so irritated
- the king, that be came down to Oxforl in person, and ordered the fellows to be brougbt beione him. He reproached them with their insolence and disobedience; and comnanded them to chouse Parker without delay. Another refusal on their side served still more to exasperate biin; and finding them resolute in the delence of their privileges, he ejected tiem all, except two, from their beneficen, and Parker was put in possession of the place. Upon this, thr college was filled with catholics; and Charnuck, one of the two that remaived, was nade vice-president.

In 1688 , a second declaration for liberty of conscience was poblinhed aimnst in the same rerms with the former ; but with this peculiar injunction, that all divines should read it after service in their churches. The clengy resolved to disobey this order. Luyde, bishop of St, Asaph, Kenn of Bath and Wells, Turner of Ely, Like of Clichester, White of. Peterbornghb, and Trelawney of Bristol, together with Sancruft the primate, concerted an address, in form of a petition, to the king, which, with the warmest expressions of zeal and submission, renonstrated that they could not read his declaration consistent with their con-ciences, or the respect they oned the protestant refigion. The king received their petition with marks of surprise anid displeasure. He said be did not expmet such an address from the church of Eogland, particularly from some amongst them ; and persisted in his orders for the ir obeying his mundate.

As the petition was delivered in private, the king summoned the tishops before the council, and there questioned them whether they would acknowledge it. They for some time declined giving an answer; bot being urged by the chanceltor, they at last owned the petition. On their refusal to give buil, an order was immediately drawn for theircommitment to the Tower, and the crowa lawyers received directious to proseute them
for a seditions likel. The king gave orders that thicy should be conveyed to the Tower by watir, as the whole city was in commotion in their favour. The people nere no pooner informed of their danger, than they ran to the river side in prodigious multitudes, craving their blessing, calling upon heaven to protect them, \&ce. The very soldiers by whom thiey were guarded, kneeled down before them, and implored their forgiveness.

The egth day of June, 1688, was fixed for the trial of the bishops; and tieir retorn was still more splendidly attended than their imprisonment. Twenty;niue peers, a great number of ecntlemen, and an immense crowd of people, waited upon them to Westoninster-laill. The di-pute was learnedly managed by the lawyers ou both sides. The jary withdrew into a etainber, where they passed the whole niglot, but nest morning they returned into court, and pronounced the bishops not guilty. Westminster-hall instantly rang with loud ecclamations, which were communicated to the whole extent of the city. They even reached the camp at Hounslow, where the king was at dianer in lord Feversian's teht. His mijenty demanding the cause of those rejoicings, and being informed that it was nothing but the soldiers shouting for the delivery of the bistions, " Calt yotr that nothing!" cried be ; "batso much the worse for thens." 1 manedfately after this, the king struck out two of the judges, Powel and Hollolvay, wiou had appeared to favour the hishops. He issued orders to prosecute all those clergyanen who had not read his declaration, ard all had refused it exeept g00. He sent al.u a mandate to the new fellows whom he had obtruded on Magdalen college, to elect for prasideat, in the room of Parker, lately deceased, one Gifford, a doctor of the Sorboune, and tirular bistop of Madura.

As the king tound the elergymen every where averse to his measures, he was willing nest to try what he could do with tho army. He thought if one regiment should promiso implicit ubedience, their example would soon induce others to comply. He therefore ordered one of the regiments to be drawn up in his presence, ond desired that sucb as we re ugainst his late declaration of liberty of conscience should lay down their arnis. He was surprised to see the whole batallion ground their grms, except two officers and a few Roman catholic soldiers. A fortunate circumstance happened about this trme in nis family : a few days before the acquittal of the bishops, the queen was Lringitt to bed of a son, who was baptized by the name of JAMES. This would, if any timg could at that time, hiove served to establith bim on the throne: Dut so great was the animosity against fim, that a story was propagated that the child was supposititious; and so great wos the monarchi's pride, that he scorned to take any precautions to refute the calumny.

Triugh the enthusiaxm of Jamies himself bordered upon'madness, the most wild of his religiues project-seem to have been suggested by his enemies to accomplish his ruin. The earl of Sunderlisnd, whom be chiefly tiusted, was a man of abandoned principles, invaliable avarice, and fitted by nature for stratagem, deception, and intrigue. The love of money was his ruling passion, and he sold his influence to the bighest bidder. To such a degree was he mercenary, that he became at once the pensioner of the priace

## BRITISH EMPIRE.

of Orange and of the king of France. The former, who had long fixed bis eye on thie Eoglish throne, watched James's motions, and took every advantage of his errors. - He had laid bis schemes so extensively, that nothing but the birth of a male heir to the crown of England could possibly prevent him from an almost immediate possession of the kingdom. He bad the address to render two-thinds of the powers of Europe interested in his success. The treaty of Augbburgb, formed to breikik the power of France, could not accomplish its object without the accession of England. The house of Austria, in both , its branches, preferred their political views to their zeal for the Romith faith, and proinoted the detbronement of James, as the only means to humble Louis XIV. Odeschalchi, whe, under the name of Innocent XI. filled then the pnpal chair, was guined to the measures of the prince of Orange by other considerations, as well $2 s$ through his fixed aversion to France. The prince of Orange sent his intimate friend, the prince of Vaudemont, to Rome, to procure the aid, of the pope. He explained to his holiness, that the catbolic princes were in the wrong to expect any advantage to their fuith from James, as being a dechared papist rendered his people arecrse to all his measures. As for himsolf, should he have the gond fortune to mount the throne of England, be might take any step in favour of the Roman catholica without jealousy : and he promised to procure a toleration for thie papists, should ghe pope, the emperor, and the king of Spain, favour his attempt. This negotiation procured the desired effeet. Inoocent contributed, with the money of the chureh, to expel a Roman catholic prince from his throne.
Though the contest with the bishops had completed the king's unpopularity, he desived the suddenness of his ruin from the birth of a prince of Wales. That circumstance increased the fears of this suljeets in proportion as it raised his sccurity and bopes. In the relign of a prince to be educated under the prejudices of surcha father, nothing but a continuance of the same unconstitutional measures could be expected. So low indeed was his credit sunk among his people at this time, and sach prescience they all seemed to have of his fate, that the child had like to have died before a wet nurso could be procured to suckle him.
: The prince of Orange, secing the national discontent now raised to the highest pitch, resolved to take advantage of it. He began by giving one Dykevelt, his envoy, instructions to apply in his name to every religious sect in the kingdom. To the church party be sent assurances of favour and regard; and protested, that his education in Holland bad no way prejudiced him against episcopacy. To the non-conformists he sent exiortations, not to be deceived by the insiduous caresses of their known enemy, but to wait for a real and sincere protector, \&c. In consequence of these insinuations, the prince soon received invitations from the most considerable persons in the kingdom. Admirals Herbert and Russel assored him in person of their own and the national attachwent; Henry Sidncy, brother to Algernon, and uncle to the earl of Sunderlind, came over to biin with assurances of an universal combination against the king ; lord. Dumblaine, son to the earl of Danby, being master of a frigate, made several voyages to Holland,
and carried from many of the notility tenders of duty, and even considerable sumas of
money to the prince of Orange. Soon after, the bishop of London, the earls of Danby, Nottingham, Devonshire, Dorset, and several other lords, gentlemen, and principal citizens, united in their addretses to him, and intreated his speedy descent. The people, though long divided between whig and tory, now joined against their unhappy sovereitu as a canmon enemy.

William, therefors determined to accept of their invitations; and this the more readily, as le perceived the malcontents had conducted theuselves with prudence and secrecy. Having the principal servants of James in pay, be was minutely informed of the most secret actions and designo of tbat prime. His intelligence cams through Siducy from Sunderland, who betrayed the $v_{\text {s }}+\mathrm{y}$ measures which he bimself had advised. The prince had a tlect ready to sail, and troops provided for action, lefore the beginaing of June, 1688.

The king of France was the first who gave James warning of his danger, and offercu to assist hiu in repelling it. But he declined this friendly offer, lest it should be said that be had entered into a privare treaty with that momarch to the prejodice of the protestunt religion. Being ulso deceived and betrayed by Sunderland, he had the weakness to believe, that the reports of an invasion were invented in order to frighten hinn into a strict connection with France. He gave credit to the repeated assurances of the States, that the armament prepared in their ports was not designed agaiust England. Nay, he even believed the assertions of the priace himself, whose interest it was to deceive Sunderland descanted against the possibility of an invasion, and turned to ridicule all who believed the report. Having, by the prior consent of James, taken possession of all foreiga correspondence, he suppressed every intelligence that inight alarm; and even ail otiers whom James trusted, except Dartmouth, affected long to give no faith to the reports of an invasion.

Louis, finding his first offers rejected, next proposed to march down his army to the frontiers of the Dutch proviaces, and thus detain their forces at home for their own defence. But this proposal met with no better reception than the former. S.ill Louis was unwilling to abandon a friend and ally whose interest he regarded as closely connected with his own. He ventured to remonatrate with the Dutctr agaiust the preparations they were making to invade England. The Dutch treated bis remonstrance as an officious impertiacnce, and James himseff declined his mediation.

The king of England having thus rejected the assistance of his friends, and being left to face the danger alone, was astonished with an advice from bis minister in Holr fand, that an invasion was not only projected, but arowod. When he first read the letter eontaining this information, he grew pale, and the letter dropt from his hand. He saw bimself on the brink of destruction, and knew not to whom to apply for protection. In this emergenicy, Louis, wrote to Jumers with bis own hand, that, to divert the Dutch from their intended invasion of England, be would lay siege to Maestricht with $\$ 0.000$ men. James communicated this iatelligeace to Sunderland, and he to- the primee of Orange. Six thousand men were throsn into Maestricht ; and the design of Lovis, as being iupracticable, was haid aside. On this, Louis, being disgusted with James, turned his arms towards Germany. The douphin laid siege to Pailipsburgh, on the 5th of

October; and prince Clement of Bavaria, by throwing a strong garrison into Cologn, effectually secured the states of Holland from any sudden danger from the arms of , France.

James had now no resource but in retreating from those precipitate measures which liad planged him into inextricuble distress. He paid court to the Duteh, and offered to enter into any alliance with them for their common-secrrity. He replaced in all the cquanties of England all the deputy lieutenants and justices who had been deprived of their comtuissions for their adherence to the test aind penal laws. He restored the charters of such corporations as he had posse *ied himself of; lie annulled the high coammission coart; he reiastated the expelled president and fellows of Magdalen coilege ; and was even reduced to caress thuse bishops whom he had so lately persecuted and insulted.

All these concessions, however, were now too late; they were regarded as the effects of fear and not of repentance. Indeed, it is said, he very soon gave proofs of bis insincerity; for, hearing that the Dutch fleet was dispersed, he recalled those concessions he bad made in favour of Magdaten college; and, to show his attachment to the Romish church, at the baptism of the prince of Wales, be appointed the pope one of the sponsors.

In the mean time, William act sail from Helvoctsluys with a fleet of near 500 vessels, axd an army of above 14,000 men. Fortune, however, seemed at first every way unfavourable to his enterprise. He was driven back by a dreadful storm ; but he soou refitted his fleet, and again set sail for England. It was given out that this invasion was designed for the coasts of France; and many of the English, who saw the fleet pass along their coasts, little suspected the place of its destination. . It happened that the same wind which sent the Dutch to their place of destination, detained the English fleet in the river; so that the Dutch passed the straits of Dover without molestation ; and after a voyage of two days, landed at Iroxholme in Torbay, on the 5th of November, the anniversary of the gunpowder treason.
But though the invitation from the English was very general, the prince for some time had the mortification to find bimself joined by very few, He continued fur ten days in expectation of being joined by the malcontents, and at last was going to despuir of success. But just when he began to deliberate about reimbarking his forces, te was joined by several persons of consequence, and the whole country soon after flocked to his standard.

The first person that joined the prince was major Barrington, and be was quiekly fotlowed by the gentry of the counties of Devon and Somerset ; sir Edward Seymoor made proposals for an association, which was signed by great numbers; and every day there appeared some effect of that universal combination into which the nation had entered against the measures of the king.

This was followed by the defection of the army. Lord Colchester, son to the earl of Rivers, first desertnd to the prince; ford Cornbury, son to the earl of Clarendon, carried off the greatest part of three regiments of cavalry at once ; and several officers of distinction informed Feversham, their general, that they could not in honour fight
against the prince of Orange. Soon affer this, the unhappy monarch found himself deserted by his own servants and creatures. Lord Churchill had been raised from the rank of a page, and had been invested with a high command in the army; be had been created a peer, and owed his whole fortune to the king's bounty; yet even be deserted among the rest, and carried with him the doke of Grafton, natural son to the late king colonel Berkely, and some others:
In this universal defection, James, not knowing where to turn, began to think of requesting assistance from Frence, when it was now too late. He wrote to Leopold, omperor of Germany, but in wein; that monarch only returning for answer, That what he had foreseen had happencd. James had some dependence on his feet; but they were entirely disaffected. In a word, his ioterests were deserted by all, for he had long deserted them himself. He still found his arny, however, to amoznt to $20,000 \mathrm{men}$; and had he led them imuncdiately to battle, it is possible they might then have fought in his favour. But James's misfortones had deprived bim of his natural firmaess and resolution ; and secing himself deserted by those in whom he thought he could bave placed taost confidence, be became suspicious of all, and was in a manner deprived even of the power of deliberation.

In this extremity of distress, the prince of Denmark and Anne, James's farourite daughter, perceiving the desperation of his circumstances, cruelly resolved to take part with the prince of Orange. When the king was informed of this, he was stung with the most bitter anguish. "God help me," cried he, "my own children have forsaken me." To add to his distress as a parent, be was accused of being accessary to the death of his own child. Her nurse, and her uncle, the earl of Clarendon, went up and down like distracted persons, affirming that the papists had murdered the princess. They publicly asked the queen's servants whither they had conveyed her; and they contributed to influme the populace, whose zeal had already driven them to tumult and disorder. It was, however, soon known that she fled, under the conduct of the bishop of London, to Northamptnn.

On the soth of November, 1688, James sent three of his noblemen to treat with the prince of Orange. But though the latter knew very well that the king's commissioners were in lis interest, his behaviour showed plainly that he now thought the time of treating was pist. For some time he would not admit them to an andience; and when be did, nould give no satisfectory answer. James now began to be afraid of his personal sufety. But what most affected him was the terrors of the queen for herself and her infant son. He therefore resolved to send them abroad. They crossed the river in a boat at Whiteball, in a stormy and rainy day. They were carried to Gravesend in a coash, under the conduct of the count de Lanzun : a yacht, commanded by captain Gray, which lay there ready for the purpose, soon transported them in safety to Calais.

The king was now so dispirited and distracted, that he resolved to leare the kingdom at oince, and thas throw every thing into confusion. He threw the great seal into the Thames: he left none with any authority to conduct affairs in his absence; ard he sainly hoped to derive adrantage to his affairs from anarchy and disorder. About

## BRITISH EMPIRE

twelve at night, on the 10th day of December, he disguised himself, took a boat at Whiteball, and crossed the river. Sir Edward Hales, with another friend, met biom at Vauxhall with borses. He monuted; and, being conducted through by-ways by a guide, the passed in the night-time to the Medway, whith he crossed by Ailenford bridge. At Woolpeck he took fresh horses, sent thither before by Slieldon, one of bis equerries, who was in the secret of his flight. He arrived at $100^{\circ}$ clock at Emby-ferry, near Feversham, where a custom-house hoy, hired by sir Edward Hales, lay ready to receive them on board. Bat the wind blew fresh, and the vessel had no ballast. The master, therefore, easily persuaded the king to permit him to take in ballast at Shilness. It being Inilf ebb when they ran ashore, they designed to sail as soon as the vessel should be afloat. But when the vessel was almost afloat, she was boarded by three fishing boats, beionging to Fevershum, containing 50 men . They seized the king and his two conrparions, under pretence of their being papists, that wanted to escape from the kingdoro. They turned up Feversham water with the tide ; but still the king remained unknown. Sir Edxard Hales placed privately su guineas in the hands of the captain, as an earnest of more, should he permit them to escape. He promised : but was so far from keeping his word, that he took what money they bad, under pretence of secaring it from the sermen; and having possessed himself of their all, he left them to theit fate.

The unfortonate figitives were at length earried in a coach to Feversham, amid the insults, clamours, and shouts of the sailors. When the king was brought to the iun, a seaman who had served under him knew him, and melted into tears; and James himself was so much moved at this instance of bis affection, that be wept. The other fishermen, who had treated him with such indiguity before, when they saw his tears, fell upon their knees. The lower inhabitants of the whole village gathered round him ; but the better sort fled from his presence. The seamen, liowever, fornied themselves foto a guard round him, and declared, that "a hair of his head should not be touched." In the mean time, sir James Oxendon, under the pretence of guarding bim froas the rabble, came sith the militia to prevent his escape. The king found a cbange in lis condition whea he was taken out of the bends of the sailors. The commanders of the militia showed him no respect. He was even insulted by the common soldiers. A letter whicb he iutended to send to London for clothes, a change of linen, and some money, was stopped by those who pretended to protect his person.
Aft things, in the mean time, ran into confosion at London, and the prince of Orange exereised in his own person all the functions of royalty. He issued a declaration to the wishanded army to re-assemble themselves. He ordered the secretary at war to bring hin a list of the King's troops. He cummanded the lord Churchill to collect his troup of horse guards. He sent the duke of Grafton to take possession, in his tame, of Tilbury fort. The assembly of peers adjourned to the council-chamber at Whitelall; ond, to give the appearance of legality to their inceting chose the marguis of Halifax for their president. Wele this asseantly was sitting, on the 1Sth day of Decembec, a poor countryman, who had been engaged by Jaunes, brought an opea letter frora that unfortunate prince to London. It had no superscription, and it was addressed to
'none. It contained, in one sentence only, his deplorable condition when in the hands - of' a desperate rabble. This poor messenger of their fallen sovereiga had long waited at the council door, without being able to attract the notice of any who passed. The earl of Mulgrave at length, apprised of his business, had the courage to introduce bim to the couakil. He delivered his open letter, and told the state of the king with tears The assen.bly were so much moved, that they sent the earl of Feversham, with 800 of the guards, towards Fevershau. His iustructions were to rescue him first from danger, and afterwards to attend him to the sea-coast, should he chose to retire. He chose, lowever, to retura to London; , but the prince of. Orange sent a messoge to him, desiring him to advance no nearer the capital than Rochester. The messenger missed James by the way.

The king sent Feversham with a letter to the prince of Orange, requesting his presence in London to settic the nation. He himself proceeded to that place, and arrived on the 16 th day of December. Doubting the fidelity of the troops who were quartered at Westminster, be chose to pass through the city to Whitehall. Never prince returning with victory to his capital, was received with louder acclamations of joy. All the streets were covered with bonfires. The bells were rung and the air was rent with repeated shouts of gladness. All orders of men flocked to his coach; and when he arrived at Whitehall, his apartments were crowded with people, who came to express their joy at his return.

The prince of Orange received the news of his return with an haughty air. His aim from the beginning was to force him by threats and severities to reliaquish the throne. The Dutch guards were ordered to take possession of Whitehall, end dipplace the English. The king was soon after commanded by a message, which he received in bed at midnight to leave bis palace next morning, and to depart for Ham, a scat of the duchess of Lauderdale. He desired, bowever, permission to retire to Rochester, a town not far from the sea-coast, and opposite to France. This was readily granted : and it was now perecived that the harsh measures of the prince had taken effect, and that the king meditated an escape to France.

The king, surrounded by the Dutch guards, arrived at Rochester on the 19th day of December. The restraint put upon his person, and the manner in which he had been forced from London, raised the indignation of many, and the compassion of all. The English army, both officers and soldiers, began to murmur; and had it not been for the timidity and precipitation of James himself, the nation had certainly returned to their allegiance. He remained three nigh at Rlochester, in the midst of n few faithifol fiends. The carls of Arran, Dumbarton, Ailesbury, Litchfield, and Middleton, were there; and, with other officere of merit, the gallant lord Dundee. They argued against his flight with united efforts. Several bishops, some peers, and many officers, intreated his stay in some part of Engiand. Message followed message from London. They represented that the opinions of men began to change, and that events would daily rise in favour of his authority. Dundee added his native ardour to his advice. "The question, sir," said be, " is, Whether you shall stay in England, or fly to Franoe? Whether youshalif trust the returning zeal of your native subjects, or rely

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## BRITISII EMPIRE:

on a forcign power? Here you ought to stand. Keep possession of a part, and the whole will subtrit by ilegrees. Resuan the spirit of a king. Summon your subjects to their allegiatte. Your army, though disbanded, is not dispersed. Give me your comnission : I will gather 10,000 of your troops. I will carry your standard at their head through England, and drive before you the Butch and their priace." The king replied. That he believed it might be done; but that it would raise a civil war, and he would not do so much mischief to a nation that would so soon come to their senses again. Middleton urged his stay, though in the remotest part of the kingdom. "Your majesty," said he, "may throw things into confusion by your departare; but it will be but the anarchy of a moath: a new government will soon be settled, and you and your family will be ruined."

These spinted remonstrances had no effect upon James. He resolved to quit the kingdous ; and having conmupicated his design to a few of his friends, he passed at midaight through the back door of the house where he lodged, and, with his son, the duke of Berwick, and Biddulph, one of his servants, went in a boat to a smack, which lay waiting for bim without the fort of Sheerness. By reason of a hard gale, they were forced to bear up toward Leigh, and to anchor on the Essex side, under the lee of the land. When the gale slackened, they reached the buoy of the Narrows uithout taching; bot not being able to ueather the Goodwio, they were forced to sail through the Downs. Seven ships lay there at anchor ; but tho smack paysed unquestioned along. Unable to reach Calais, she bore way for Boulogne, and anchored before Ambleteuse. The king landed at three o'clock in the morning of Tuesday, the 25 th of December ; and taking post, scon joined the queen at St. Germains.

James having thus abandoned his dominions, the prince of Orange remained master of them of course. By the advice of the house of lords, the only member of the legislature remaiuing, lie was desired to summon a parliament by circular letters; but the prince, unwilling to act upon so imperfect an authority, convened all the members who had sat in the house of commons during any parliament of Charles II. and to these were added the mayor, aldermen, and fifty of the common council of London; and the prince, being thus supported by an assembly deriving its authority from himself, wrote circular letters to the counties and corporations of England to call a new parliament.

The house being met, which was mostly composed of the whig party, thanks were given to the prince of Orange for the deliverance he bad brought them; after which, they proceeded to settle the kingdom. A vote soon passed both houses, that king James II. having endeavoured to subvert the constitution of the kingdom, by breaking the original contract between the king and his people, and laving, by the advice of Jesuits and other wicked persons, violated the fundamental laws, and withdrawn bimself out of the kingdom, had abdicated the government ; and that the throne was thereby vacan:.

The king being thus deposed, it was easy for Willian to get himself appointed as his successor. Proposals were made for electing a regent. Others were for investing tho princess of Orange with regal power, and declaring the young prince supposititious. To

## BRYIISH EMPIRE

these proposais, however, Willam opposed the following decisive argument, viz, that" he had been called over to defend the liberties of the British nation; and that he had fappily effected his purpose ; that he had heard of several schemes proposed for estatlishing the government; that, if they chose a regent, ho thought it incmbent upon him to inform them that he would not be that regent ; that be would not accept of the crowh under the princess his wife, though he was convinced of her merits; that, therefore, if either of these sehemes be adopted, he could give them no assistance in the settlement of the nation ; but would return bome to his owa country, satisfied with his aims to secure the freedom of thtirs. ${ }^{\text {b }}$

Upon this, after a long debate in both houses, a new sovereigo was preferred in a regent, by a majority of two voices. It was agreed that its prince and princess of Orange should reigu jointly es king and qucen of Eogland ; white the administration of government should be placed in the hands of the prince ouly. The marquis of Halifax, as speaker of the lords, made a solean tender of the crown to their higlunesses, in the name of the peers and commons of England. The prince accepted the offer; and that very day, Febraary 1 Sth, 1689, William and Muwy wero proctaimed king and quicen of England.

Though Mary was comprehended in the royal title, she neyer possessed either the authority of a queen, or the influence of a wife. Her easy temper had long been subdued by the stern severity of a husband, who had very fen amiable qualities. Peing brought up in a manver under the taition of her spouse, and in some degrce confined by his orders, she was accustomed to adopt implicitly bis political maxims, and even his thoughts; and, in consequence of her want of importance with bian, she ceased to be an object of consequence in the eyes of the nation.

The Scotch aation scon followed the example of England. The estates of the northern realm, havin, met at Edinburgh, deposed James for bis repeated violations of their constitution; asserted their fights and liberties in a solemn declaration; offered their crown to William and Mary, in confidence of just and legal government ; and settled the future disposal of it in that mode which had been adopted by the English convention.

With regard to Ireland, some difficuities were encountered by William before he established himself in the sovereignty of that kingdom. The earl of Tyrconnel still retained the government of it in the name of James; and the power of the catholic faction rendered great exertions necessary for the reduction of that island under the sway of the new possessor of the crown of England. The chief events of this war wilt be related in the succeeding chapter of our work.

A declaration of rights was presented to. Willian by the convention, when they offered him the crown, which may be considered as an clucidation and improvement of Magna Charti. It condemned, as illegal and anjustifiable, the suspending and daspensing power assumed by James ; the court of ligh commission; the exaction of money from the people, without consent of parlament ; the maintenance of a standing army without the same consont ; sll grants and promises of fines and forfeitures before conviction; the demand of excessive bail ; the imposition of exotbitant fines; and the

## BRITISH EMPIRE.

infliction of cruel and unusual punishments. It asserted the right of the subjoct to petition the king; the right of the protectants to have arms for their defence; the frecdom of parliamsitary elections ; the liberty of speech in parliament; the due empanneling of juries; the necessity of having freeholdors for farors in eases of high trvason; and the expediency of frequently holding parliaments, for the redress of alt grievances, and for the improvement and prescrvation of the laws.
*The generality of the arts were improved in the busy period, during which the house of Stuart possessed the throne, though not in equal degrees. Husbandry flourished; But corn was frequently imported. New flowers and fruits where introduced into our gardens; and pleasure-grounds were vario usly embellished, but withour taste or elegance.

Though the English clothiers excelled in their art, they were unable to act as dyers of woollen before the reign of Charles II. when the secret of that branch was communicated to them by a continental traveller. They continued to import fipe linen, and the more costly articles of silken manufacture.

The Grecian style was now applied to public structures, iu preference to the Gothic; and many private houses were planned with a degree of taste which had not before been displayed in England. The interior decorations and furniture were also highly improved.

The increase of trade was considerable; and it was promoted by col onial institutions. Though North America had been discovered by navigators whom Henry VII. hud sent out, no settlement was established by the English in the sixteenth century; but, in the reign of James I. Virginia was colonised with success. New England was afterwards planted ; and, before the Revolution, the provinces of New York, New Jersey, Pennsylvania, Maryland, and Carolina, besides several of the West India islands, were inhabited by British emigrants. A productive fishery was also prosecuted on the banks of Newfoundland. In the eastern hemisphere, various factories were stationed in the ports of India; and an intercourse was opened with the Chinese empire.

The navigation act, and the adventurous spirit of the times, greatly contributed to the multiplication of English shipping; and, under Charles II. and his brother, superior skill in naval construction appeared. The royal revenue, the wealth of the nation, and the general accommodations of society, could-not but flourish amidst the extension of commerce to every quarter of the globe.
The ordinary revenue of James I. amounted, in his fifteenth year, to 450,0001; and the extraordinary sums which he procured in his whole reign, both by legal and illegal means, including his reccipts from France and Holland, bordered on $q, 500,000 \%$, Dividing the latter sum among the years of bis sway (2q), we find that it allows above 115,630 . for each year. The revenue of his successor, in the most productive years before the civil war, have been estimated at 900,000 \%.

Taxes, far exceeding all former imposts, were levied by the parliamentary usurpers of the sovereigo power. They subjected both real and personal property to considerable defalcation, and imposed an excise on various articles of general consumption. Upon an average of several years, the amount of the taxes, in those times of usurpation, may bo estimated at $2,000,000$. per aninum. Confiscations, and some other sources of profit, are not included in this estimate.


#### Abstract

BRITISH EMPIRE $\}$

Aher the Restoration, a part of the excise was permanently settled on the crown, "s an equivalent for the abolition of some of the oppressive remains of the feudal system. The bill enacted on this occasion, subverted the tenure of knight-service, by which the greatest part of the English lands had for almost six centuries been holden. This service had long ceased to be personal, being commuted for a peconiary payment, with which troopś were hired. By the statute in question, freo socagh became the principal tenure of the realm. Copyholds, which had already arien frum the dissolution or decline of villanage, were reserved; as was also the ecclesiasticst tenure of free algas. a) Berides the established revenut of Charles II. ( $1,200,000 \%$.) the occasional votes of the parliament produced a sum sufficient to add, for each year of his actual reigi, above $426,800 \%$. The whole income of James II. was about two millions. - The study of eatoral philosoplyy dourished in this period; and a public body, called the Rayal Society, was formed for the promotion of it. The professions of divinity; lav, and physic, were honoured with names of ligh celebrity. Poetry soired to the noblest heights; and the votaries of gencral literature were numerous and respectable. The fine arts, in the mean time, were not neglected. Dobson and the fiso Olivers acquired some reputation as paipters ; and Simon was an exceltent sculptor of colns, anal medas: but, in the higher branches of scufpture, as well as in painting and masic, formigners were superior to the Euglish.


## BRITISI EMPME

## Chapter xiv.

## Batisi Emprik - Prom the Reoolution to the death of Anne.

WILLIAM began his reign with issuing a proclamation for continuing in office all protestants that had been in place on the frat of the preceding Deecuber. On the $17 \mathrm{th}_{1}$ of the month lie forned his privy council, which consisted chielly of such persons as had been most active in raising him to the throne. To gratify as many as possible of his friends, the several boards, and even the chancery, were put into commission. The benches of the exclequer and common law were filled with persons who had distingaished themselves against the measures of the late king. The earl of Nottingham, who had violently opposed the elevation of William, and the earl of StrewsBury, who thad adtered to his views, were made secretaries of state. Thie marquis of Halifax, and the earl of Danby, though rivals in policy, were admitted into the cabinet; the first as lord privy seal, the second as president of the council. His Dutca friends, in the mean time, were not forgoten by the king. Beatinck, his favourite, was made a privy couniseltor, groom of the stole, and privy purse. Auverquerque was appointed master of the horse. Zuylstein received the office of master of the robes. Schomberg was placed at the liead of the ordnance.

As William was educated in a foreign protestant church, he did not, on his nccession to the British throne, display that intolerant zeal for the established religion of this countre, which unhappily influenced the minds of too many of the clergy. He made unsuccessful attempts to procure the admission of all protestants, that were able and willing to serve, into offices of trust. But at length thie proposition for the toleration of protestant dissenters passed through hoth hooses, and received the royal assent. From this time the spirit of bigory bas been gradually subsiding, and an increasing liberality of sentiment has marked the character of the British nation.

The affairs of Seotland, at this time, oceopied some share of the king's attention ; but they were settied with less difficulty tham those of Ireland. By those stipulations which secompanied the grant of the crown of Scotland to William and Mary, the convention of that realm secured the re-establishment of those rights and privileges which had beea disregarded by James and his brother; and gained the fivourite point of the restoration of the presbyterian system. The partisuns of James had laboured to prevent this settlement; but, as they were greatly out-מumbered in the convention, their intrigues and efforts were fruitess. Incensed at their disappointment, some of them resolved to take arms aguinst the now government. Their leader was the gallant Dundec, who exerted binself with indefatigable activity in a cause to which he was zealonsly attacied. By bis influence and address, he strengthened the declining interest of James; and, repairing to the Higblands, he drew to hiss standard a consider-
A.D. 1689 . BRITISH EMPIRE.
aple body of hardy warviors. Thiough tils folloters were discouraged by the surtentiter of the castle of Edinburgh, which the duke of Gordon had defended for some months ugairst William's forces. They received a small reinforcement from Iroland; and, after several skirmishes bad happened between detached parties, a general engagement took place at Gilbirankie, near Donkold. Tho forees of the deposed king exceeded 6000 tnen; while those of bis successor, commanded by lieutenant-general-Maekay, were less numerous. The exemple of Dundee infused such spirit into his men, that they overcame all opposition, and put their adversaries to Bight; but that nobleman being killed by au accidenta! shot, the vanquisbed enjoyed all the advantage of the victory. For want of an able leader of the Jacobites (as the friends of James were styled), that cause now languished in Scotland; and a defeat which was afterwards sustained by the promoters of it, put an end to their hopes of overturning the new settlement, though sotie time elapsed before all the Tigitand clans were reduced to perfect submission.

In Ireland, the friends of James were nemerous and powerful. The earl of Tyrconnel had exerted all the strength of goverament in favour of tire catholics; had put the military power into their hands; had beatowed on their leaders the chief civil employments ; and had taken every opportunity of ruiaing the interest of their religions adverkaries. To guard against the resentment of an oppressed party, he had disarmed the protestants in Dublin and many other towns ; and he was boldly prosecuting his schemes of lawless tyranuy, when the indignation which be had aroused broke out into action. A body of papisis being ordered to secure Londonderry, the inhabitants shut their gates against them, plondered the magazine of arms, and prepared for a resolute defence. The people of Enniskilien, inflamed with the same spirit of liberty and protestant zeal, refused admission to the forces sent by Tyrconnel to take possession of their town ; and entered into an association with the citizens of Londonderry; a confedefacy in which the greatest part of the provincials of Ulster joined, In consequence of importunate applications to William for speedy succours, small supplies of arms, ammunition, and money, were sent to Londonderry from Eagland; and two regiments at length arrived for the defence of the town. Bat, as the grand army of the, catholics then approached it, colonel Lundy, to whom the government of it had been committed, called a council of war; and, liaving exaggerated the indefensible condition of the place, and the ill success which had attended the protestants in some skirmishes, he proposed, eidher from pusillanimity or treachery, that the two regiments should return, and that the citizens, should endeavour, by an inmediate submission, to procure the best terms from the enemy. These proposals being adopted loy tha majority of those who were present, the regiments hastened back to England with their colonels, who, on their arrival, were cashiered by the king.

On the 7 th day of March, 1689, James embarked at Brest. The wiole force of his expedition consisted of 14 ships of war, six frigates, and three fire slips. Tixelve kuodred of his native subjects in the pay of France, and 100 French officers, composed we whole army of Jemes. He landed at Kinsale witbout opposition, on the 19th day of

## BRITISH EMPIRE.

the month, where he was received with the utmost demonstrations of joy. His fipt care was to secure, in the, fort of Kinsale, the moncy, arms, and ammunition, which he brought from France, and pat the town in some posture of defence; which having done, be advanced to Corke. Tyrconnel arrived at this place soon after, and brought intelligence of the rout at Dramore. The king was 80 minch pleased with his attneliment and services, that he created him a duke; after which fie himself advanced towards Dublin. The condition of the rabble, who poured round him under the name of an army, was not calcullited to raise lis hopes of suecess. The most of them were only provided with clubs: some had sticks tipt with fron ; and even of those who were best armed, scarce two ill a hundred had muskets fit for service. Their very humbers distressed their sovereign, and ruined the country; insomuch that James resolved to disband the greatest part of them. More thian 100,00e were/nlready on foot in the different parts of the island. Of these he reserved -14 regionents of horse and dragoons, and 35 reginents of foot; the rest he ordered to thoir respective homes, and armed those that were retained in the best manner he could.
${ }^{1}$ Belog received at Doblin with an appearance of universa! joy, James procecded immedtately to business. He ordered, by proclumation, all protestants who had abandoned the kingdom to return. He cotmmanded, in a sceond proelamation, all papists except those in his army, to lay up their 'arms, and put in end to the robberies and depredations which they fiad committed in the violence of their zeal. He raised the value of the currency by a proclamition; and he summoned a parliameht to meet on the 7th of May, to settle the affairs of the kingdom. The protestant clergy represented their grievances in an address ; and the oniversity of Dablin appenred with coraplaints and congratulations. He assured the first of lils absolute protection, nad a full redress i, and he promised the latter not only to defend; but aven to enlarge their privileges.

On the 8th of Aprit, James ten Dubin, resotving to lead hits army against the fistirgents in person. Thoy retired before him, and the king taid siege to Londondery, The besieged made sach a vigorous resistatice, as lins mide the place remarkible ever since: but being reduced to the last extrenaity, they would have been obliged to surrender, had not hey been relieved, on the esth of Julg, by soven shijs laden with provisions: upon which the siege was immediately ruised.

In the mean time, the distressed sirdation of James, and his absolote dependence upon France, drove him into measures which otherwise be never would bave thought of. His soldiers for some time had been supported by their officers, or subsisted by depredation. The funds of the officers were at last exhaustet, und the conintry itadit could no longer bear the riot and injustice of tho soldierssi Preased by these difichtties, James, by the atvice of his council, resolved to coin pieces of eapper, whieh stimld be received for sifver. He saw well-enough the inconventence of this measure; but all Ireland possessed not the nieans of paying the army in curreit coin to the middte of Jine Of the French remiftances only 800,000 live's reananed; and the hiag, found it absolitely niccessary to reserve that-sum, to forsard his measures in ith regards

## BHITISH EMPIRE.

to Britain, and to pracure iutelligence of the motions of his eneanies. The army was satisfied even with this appearance of money, and the people received the fictitious coin, in hopes of being repaid in a more favourable state of affairs. A tax of 20,000l, a. mionth, granted for 13 months by the parliament, furnished government with an appear ance of resources; and in the mean time the king endeavoured to support the former reveaut. Ite opened a trado with France to supply the want of commerce with Engn land. Bat the Freneh, knowing their own importance, and the necessity of the unfortunate monarchis affiairs, claiged and obtained advanages in traffic wifich, offended his own subjects.

To add to the distress of Jomes, Ircland was now invaded by 10,000 men, under the command of the duke of Schomberg. They appeared, on the 19 th of August, 1689, in 90 transports, on the const of Donaghadee, in the county of Down. Next day Schouberg in uled, without opposition, his army, horses, and train of artillery. Ilaving marched to Belfast on the 151 h day, he continued in that place four days to refresh his troops. He invested Carrichfergas, and threw into it 1000 bombs, which laid the houses in ashes, The garrison having expended their powder to the last barrel, marched out with all the honours of war. But Schomberg's soldiers broke capitulation. They disarned und stripped the inhabitants, without any ragard to sex or quality; even womea, stak naked, were publicly whipped between the lines; and all this uader pretence of cruelties of the same kind baving been committed by the rupints.

Though Schomberg was an experienced general, who had passed a life of so years almost continunily in the field, he found himself at a loss how to carry on the war in Ireland. He did not comsider the dangers that threatened the heaths of his troops by confining them too long in one place; and he kept them in a low moist camp near Dundalk, almost without fiving of any hind; so that the men fell into fevers and fluxes, and died in great numbers. The enemy were not less aflicted with similar disorders. Both camps remained for some tims in sight of each other; and at last, the rainy season approaching, both armies quitted their camps at the same time, and retired into winter quarters.

The bad suecess of the campaign, and the miserable situation of the protestants in Ireland, at length induced Wialian to attempt their relief in person. Accordingly, heleft Loudon on the 4th of June, 1690, and arrived at Carrickfergas on the 14th of that month. From thence he passed to Lisburn, the head quarters of the duke of Schomberg. He reviowed at Lough-Britland bis army, which consisted of $\$ 6.000$ men, sad wàs compused of English, Dutch, Germans, Danes, and Freach. Being supplied with every uecessary, and in high health and spirits, they seemed absolutely certain of victory. The Trish army, havigg abandoned Ardee at their approach, fell back to the south of the Bayue. Oo the bank of that river they were joined by James, who had marched from Dublin at the head of his French auxiliaries, The banks of the Boyne were steep, the south side hilly, and fortified with ditches. The river itself was deep, and it rose very ligh with the tide. These advantages induced James, contrary to the
opinion of his officers, to keep possession of this post, If army oras inforior ja nexa-- bers, discipline, and every thing, to his enemies ; but flight, he thougit, wovid dr pirit his troops and tarnishi his own reputation : he therefore reselved to put the fate of Ireland on the issue of a battle. Urged by his friends in England, asat encouraged by a projected invasion of that kingdom by France, he I a I resolved to quit Ireland; and to this he was farther encouraged by the assurasce of aid from a powerful fleet thit bad already entered the narrow seas. Bat the streagth of his situation, and the suddrin appearance of the enemy; which made even a retreat dangeroas, induced him to defir his purpose.

William was no snoner arrived, thian he rode along the river's side, in sight of both armies, to make proper observations on the plan of battle; but, in the thean time, belige perceived by the enemy, a cannon was privately brought out and planted ugainst hin where he was sitting. The shot killed severat of his followers, and be limself was wounded in the slioulder. The news of his being slain was instantly propagated through the Irish camp, and even sent off to Paris; but William, as soon as his wound was dressed, rode through the camp, and quickly undeceived his army.

The next day, June 30 th, the battle tegan at six in the morning. James's forces behaved with great resolution, but were at last defeated, with the lass of 1500 men. The protestants lost aliout one thind of that number ; but among these was their trave general the dake of Scliomberg. He was killed by a diseharge from his own troops who, not knowing that be had been accidentally harried into the midst of the eneny. fired upon the body of men who surrounded him. Daring the action, James stood on the hill of Dunmore, surrounded with some squadrons of horse ; end at intervals was heard to exclaim, when he saw his own troops repulsing those of the enemy, "O spare my English subjects!" While his troops were yet fighting, he quitted his station; and leaving orders to guard the pass at Duleek, made the best of his way to Dublin. He indvised the magistrates of that city to make the best terms they could with the victors ; and he biniself set out for Waterford, where he immediately embarked for France. When he first deserted his troops at the Boyne, O'Regau, an old Irish captain, was heard to say, "That if the Euglish would exchange generals, the conquered army would fight them over again."

The victory at the Boyne was by no means decisive, and the friends of James resolved to cortinue their opposition to William. Sarsfield, a popular and experienced general, put himself at the head of the army that had been routed at the Boyne, and went farther into the country, to defend the banks of the river Slfunnon. James appointed one St. Ruth to cotmand over Sarsfield, which gave the Irish universal discontent. On the other haul, general Ginkle, who had been appointed to command the Figlish army in the nbsence of William, whö was gone over to England, advaneed townatls the Shannon to meet the cnenty. The only place where it was fordable was at Athrone, a strong walled town built on both sides of the river, and in the thands of king James's party. The English soou made themselves masters of that part of it which, was on the hither side of the river ; but the part on the opposite bank, being defended with great
vigour, was for a long time thought impregnable. At length it was resolved, in a count 'cil' of war, that a body of folorn hope should ford the stream in the fice of the enemy: and this desperate enterprise was performed with great resolution; the cneiny were driven from their works, and the torn surrendered at discretion. St. Ruth marched his army to its relicf, but he came too late; for he no sooner approached, thau his own guns twere turned against.him : upon which he iastantly, marched off, and took post at Aughrim, at ten miles distance, where he determined to wait the Euglish aray. GinKie did not decline the combat, though he had only 18,000 men, wlite the Irish were above 95,000 strong. A desperate engagement ensuod; but at last St. Ruth being killed, his troops gave way on all sides, and retreated to Limeric, where they determined to make a final stand, after having lost near 5000 of their best men.

Ginkle, wishing to put an end to the war at once, suffered as many of the Irish as chose, to retire to Iimeric. In this last retreat the Irish forecs made a brave defence. The siege commenced August, 25th, 1691, Six weeks were spent before the place withont any decisive effect. The garrison was well supplied with provisions, and provided with all means of defence. The winter was approaching, and Ginkle had orders to fiaish the war upon any terms. He therefore offered such conditions as the Irish, hal they been victors, could scarce have refinsed with prudence. Ho agreed, that all in arms should receive their pardon; that their estates should be restored, their attainders annulled, and thair outlawries reversed; that none should be liable for debts incurred through deeds done in the coursd of hostilities; that all I Koman catholics should eojoy the same tolesation with regard to their religion, as in the reign of Charles 11.; that the gentry should be permitted to make use of arus; that the inferior sort should bo allowed to exercise their callings and professions; that no oaths but that of allegiance should be, required of high or low; that, should the troops, or any number of them, choose to retire into any foreign scrvice, they should he conveyed to the continent at the expence of the king. Sarsfield who liad obtained the tite of earl of Lucan from James after his abdication, was permitted to retain a diguity $u$ hich the laws could not recognise. The lords justices had arrived from Dublin on the 1st of October, They signed the articles together with Ginkle; and thos the Irish papists put a happy jieriod to a war, which threatened their party with absolute ruin. In consequence of this treaty, about 14,000 of those who had fought for king James went over to France, having transports provided by government for conveying thein thither. When they arrived, James thanked them for their loyalty, and told them that they shonld still fight for their old master; and that he had obtained an order from the king of France for their being new elothed, and put into quarters of reffeshment. In, this manner all Jame's expectations from Ireland were entirely frastrated, and the kingdom subthitted quietly to the' English government.

The French at last became sensible of their bad policy in not having better supported the cause of James, and therefore resolved to make a descent upon England in has favour. In pursuance of this scheme, the French king suppliod James with an army, consiating of a body of French troops, some English and Scots refugees, and the Irish

## BATTISH EMPIRE.

reginents, which had been transported into. Fratiee froun-Limeric, aud were now beconie excellont soldiers, by long discipline and severe duty. This army was assemblec fittween Cherbourg and La Hogue, and commanded by king Janies in person. More than SOD transports were provided for lauding it on the opposite coast; and Tourville, the French admiral, at the head of 63 ships of thie line, was appointed to favour the descent. His orders were, at all events, to attack the enemy, in case they should oppose hini'; so that every thing now pronised the banished king a change of fortube.
These preparations on the side of France were soon known at the English court, and every precaution taken for a vigorous opposition. All the secret machinations of the batished bingitndhereuts were discovered to the Englidh ministry by spies; and by theso thiey fonuid that the tories were more faithfut than even the whigs, thoo had placed king Willime of the "tirone. The duke of Marlborought, lord Godolphin, and even the princess Anne herself, were viofently suspected of disaffection. Preparations, however, were unde with great trauquillity and resolation, to resist the growing storm. Adinitral Russel nas ordered to put to sea with all possible expedition; and he soon ap: peared will 99 stips of the line, besides frigates and fire-ships. At the head of this formidable fleet be set sail for the coast of France; and, near La Hogue, he discover2' ed the enemy, under Tourville, who prepared to give him battle. The engagement begin between the two admirals with great fury, and the rest of the fleot soon follored their example. The battle lasted for ten hours ; but nt last victory declarel on the side of numbers. The French fled for Conquet road, having lost four ships in the first day's action. The pursuit continuel for two days following: three Prench slipss of the line were destroyed the next day ; and 18 more, which had taken refuge in the bay of Li fiogue, were burnt by sir George Rooke. In this manner were all the French preparations frustrated; and so decisive was the blow, that from this time France seemed to relinquish all claims to the ncean.

Though the defent of the French flect at Ta IIoguc hid put king William ouit of ali danger from any furtier attempts from that quarter, he by no means postessed his. throne with any kind of tranquillity. The want of a common enemy produced disscitions among the people, and William becan to find as much uneasiness from his parliarment at home as from an enemy in the ficld. The uncasiness be felt from the refractory disposition of tiis subjects was not a litte heightened by the death of bis queen, who whe twoks off by the smail-pox, on the e8th day of December, 169t. For some time he was under a sincere concern for her loss ; but as politics that taken entire postession of tio mind, he lost all other concerns in the greatiess of bis appreliensions for the balonice of pawer and the floctuating interests of Earope.

His chief motive for accepting the crown was to engage England more deeply in the concerns of Earope. His great object had been to humble the French, and all bis potities consisted in futming alliances against thein. On the other hand, maay of the Euglish had no soch animosity agaiast the French: and these, therefore, considencd the witerest of the nation as ascrificed to foreigo sonnections; and complained that the
continental war fell most neavily on them, though they fod the least interest in ifs guce cess. Those complaints were heard by William with the mos: phlegmatic indifforence; he employed all his attention only on the balance of power, and the interests of Europe.
IIe became unmiadful of the cultivation of interal polity; and, as he formed allimees abrgad, increased the influence of party at home. Patriotism began to be ridicuted as an ideal virtue; and the practice of bribing a mojority in parliament became universat; The example of the great was caught op by the valgar ; principle, and even decency, were gradually bumished; talents lay uncultivated, and the igoorant and profligate were received into fivour.
7. The king upon accepting the crown, was resolved to preserve as much of the prerogative as possible ; and lie sometimes exerted a branch of it which his predecessors bad never chosen to mike use of, viz the power of refusing lis -nssent to some bills that hid passed both houses. From this and other canses, there were perpetual bickerings between him and lis parliament. At last Wiliam became fatigued with opposition. He adinitted every restraint upon the prerogative in England, upon condifion of being properly supplied with the means of humbling France. Provided the parlilment sopplicd bin with the means of executing this, he permitted them to rule the internal polity as theepteased. For the prosecution of the French war, the sums granted were indeed incredible. The nation, not contented with furnishing him such stims of money as they were capable of raising by the taxes of the year, mortgaged those taxes, und involved themselves in adebts which they have never since been able to diselarge.
:The wair with. Prance continued during the greatest part of this king's reigh ; But at length the treaty of Ryswick, in 1697, put an end to those conteutions in which England hadjengaged without policy, and came off at last without advantage. In the general pacification, her interests secmed eatirely deserted ; and for all the treasures shed lhad sent to the continent, and all the blood which had been shed there, the onty equivalent received was an acknowledgement of Willian's titlo from, the ting of Hrace.
*-During the interval of peace, William was permitted by his parliament to maintain a standing rarmy of 7,000 men, on condition that only nitural born subjects sloould beincluded in the number. Disentions between the two parties of whig and tory continued to prevail; hand probably litule real patriotism was felt by either. Pence mas, however, on the poiut of belog exchanged for war, when the reiga was terminated, by the accidental doath of the sovereign.

Willian was naturally of a very feeble constitution; and it was by this time almost quite exhausted, by a series of continual disquietude and action. He had endeavoured to repair his constitution, or at least to conceal its ciccays, by exercise and ridling. On then List day of February, 1\%02, in riding to Hamptoncourt frou Kensington, lif horse fell uader him; and he was tiorown with such viulence, that his collar-bone was fructured. His attendants convered him to the paiace at Hamipton-court, where the fiacture was reduced; and in the evening be returned to Kinsinigton ia his coach. The Vol I

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## BRITLSH EMPIRE.

jolting of the carriago disunited the fracture; and the bones were again replaced, by Bidfoe, his physician. This, in a robust constitution, would have been a triting misfortune; bat to bimp it was fatal. For some time ho appeared in a fair way of recovery; but falling asleep on his couch, he was seized with a shivering, which terminated in a fever and diarclies, that saon became dangerous and desperate. Perceiving bis end approaching, the ofjects of his former care lay next his heairt ; and the fate of Kurope seemed to remove the seasations be might be supposed to feel for bis orn. The earl of Albomarle arriving from Holland, he conferred with him in private on the posture of affuirs abroad. Two days after, having received the sacrament from architishop Tennison, he expired on Sunday, Mareh 8th, having lived 52 years, and reigned 13. He was in his person of a middle stature, a thin body, and a delicate constitution. He had an acquiline nose, sparkling eyes, a large forebead, and a grave solemo aspect. He left bebind tim the character of a great politicin, though he had never been popalar; and of a formidable general, though he had been seldom victorious. His deportment was grave, plilegmatic, and sullen ; nor did he ever shom any fire, bat on the day of battle.
Willum was succeeded by the princess. Anne, who had married George prince of Deamark. She ascended the thirone in the S8th year of her age, to the gencral satisfaction of all partics. Willim had died at the eve of a war with France; and the preseit queen, who generally took the advice of her ministry on every important occasion, wias now urged by oppocite councils; a part of her ministry being inelined to war, and another to peace. At the head of those who opposed the war with France, was the earl of Itochester, lard lieutenant of Ireland, first cousin to the queen, and chief of the tory facion. At the head of the opposite party was the earl, aftervards duke, of Marlborougb, and since so much renowned for his vietories over the Frenci. After giving their reasons for both their opinions, that of Mariborough preponderated: the queen resolved to declare war: and commuvicating her intentions to the house of commons, by whom it was approved, war was proclaimed accordingly. In this declaration of war, Louis was taxed with having taken possession of a great part of the Spanish dominions; with devigning to iavade the liberties of Europe; to obstruct the freedom of navigation and commerce; and with having offered an unpardouable insult to the queen and her throne, by ackoowledging the title of the pretender; be was accused of attempting -to unite the crown of Spain to his own domiaions, by placing his grandson upon the throne of that kingdom, and thus of endeavouring to destroy the equality of power that subsisted among the states of Europe. This declaration, of war on the part of England was seconded by similar declarations by the Dutch and Germans, all on the same day.
As the various scenes of this long and bloody contest were laid either on the continent of Europe, or in the remote settlements of the contending nations, we shall defer the narration of these erents till we give the history of Louis XIV. who was the great object against whom the operations of the allied powers were directed. The principal effects whichisere produced in England, were the increase of national pride, by tho frequent intelligence of splendid but unproftable victories, and the inconveniences which
were continually experienced from the searcity of hands in carrying on trade and manufactures.
F While war was thus wasting the resources of this country, a negotiation was carried on to unite Eogland and Scotland into one kingdom. This uniou had been attempted in thg preceding reigo. The terms proposed were those of a federal uvion, someshat like that of the states of Holland. With this view the Scots were presailed on to send 90 commissioners to London; who, with 28 on the part of England, met at Whitehall, in the month of October, 1702. . Here they were honoured with a visit from the queen, in order to enliven their proceodings, and sthmulate them to a more speedy dispatch of business. But the treaty was entirely broken off at this tione, by the Seottish commissioners insisting, that the rights and privileges of tycir countrymen trading to Africa and the Indies, should be preserved and maintaioed. It was, however, resumed in the year 1706, when the commissioners ngain met, on the 16th of April, in the councilchamber of Whitehall.

The Scottish commissioners still proposed a federal union; but the English were determined on an incorpgration, which should not afterwards be dissolved by a Scoltish pariament. Nothing but this, they said, could settle a perfect and lasting friendship betwixt the two nations. The commissioners from Scotland, howerer, stitl continued to resist that article, which subjected their sountry to the same customs, excises, and regulations of trade as England; but the queen being persuaded to pay two visits ia person to the commissioners, exerted herself so vigorously, that a majority was at last gained over; and all the rest yielded, though with reluctance, excepting Lockhart of Carnwath, who could not by any means be persuaded either to sign or scal the treaty.

The articles boing fully prepared on the e2nd of July, they were presented next day to her majesty, by the lord-keeper, in the name of the English cormmissioners, at the same tinne that a sealed copy of the instrument was likewise delivered to the lord chancellor of Scotland. They were most graciously received, and the same day the queen dictated an order of council, threatening with prosecution such as should be concerned in any discourse or libel, or in laying wagers with regard to the union. Notwithstandiug all this harmony, however, the treaty' was strongly disapproved in Scotland. Not only were the people inflamed to the most violent pitch of disaffection, but the most bitter altercations took place in parliament. Almost every article of the treaty was the subject of a protest; addresses against it were presented to parliament by the convention of royal boroughs, the commissioners of the general assembly, the company trading to Africa and the Indies, as well as from shires, stewartries, boroughs, towns, and parishes. A coalition was formed between the presbyterians and cavaliers (the whigs and tories of Scotland), and to such a beight did the resentment of the people arrive, that they chose officers, formed themselves into regiments, provided horses and ammunition, burnt the articles of union, justified their conduct by a public decleration, and resolved to take the rout fo Ediaburgh, and dissolve the parliament.

In the mean time, the privy council issued a proclamation against riots, command-
ing all persons to retire from the streets, whenever the doun shouta beat; ordering ilie geards to fire on all those who should disobey this command, and indemnifying them from all prosecution for maiming or slaying their fellow subjects. Even these precautions were insufficient. The duke of Quecnibury, the chief promoter of the union; though giarded by double lines of horse and foot, whis obliged to pass through the fireets at full gallop, amidst the curses of tie people, who peited his guards, and eyen wounded some of his freends, who attended him in the coach. In opposition to all this fory, tie friends of the union magaified the advantages that woulv accrue to the nation from that tieasure. They took off the resentment of the clergy, by causing an act to be inserted in the treaty, by which the presbyterian discipline was to be the only government of the church of Scotland, unalterable in all succeeding times, and a fundamental article of the union. Emifनaries were emplojed to disunite the different Scottish partics from each other; their India company was flattered with the prospect of being indemnified for the losses they had sustained; and lastly, that party in the Scottish parliament which had
*hitherto continued fluetuating, was brought to espouse the side of the ministry. All oppastion being now rendered ineffectual, the articles of teaty twere ratified by parliament, with some trifing variations, on the 25ilh of Mirch, 1707 , when the duke of Queensbury finally dissolved that antilnt assembly, and Scotldind ceased to be a separate independent king itom.

1. The couricils of the goeen were governed, till 1710 , by a whig ministry; but in that jear in important revolution was effected, which put the tories finto the possession of power. The tiwo prinépal events' whitch were brouglit aboat by thé newveaders wcre, the deprivation of tle ddke of Marlborough of the commiand of the army, and the coilcluding a peace with Inuis, in 1715. On the latter of these mensures we shall not here attempt to decide," bot the character of Marfborough' was of that kind, which afforded ample scope to bis enemies and his fifends. By a continuane of contuet and suecess, almost uaparalefled, he had gained to the allies \& prodlioious tract of dodntry; from the begiming of the war, which hid now contilitod nime years, fe hild perepetoally advanced: and never retreated betore his enemfes, 格 lost an dvantage he húd obtamed over them. Te most freguently gimed the encuincs' posts without fighting, but where he' was obfiged \$o attack, no fortifications were able to resite him. He had never besieged a city which he did not take, nor engaged in a battle in which he did not come off victorious. Notwithstanding however, all these great qualitics, he has been chargect, and perhaps jatily, wifh ingratitude, avarice, and want of principle: On hís retura from the campaigin of 1711 the was accused of tafing a brite of 6000 L a-year riom a Jew, who bad contracted to supply the army witis bread; and the queen thought proper to tisiniss bim from all lis employments.
2The listory of the latter part of this reign consists entirely of the intrigues of the whigs in't tories against each other. Whether the ministry at this time wished to alter the yiccession from the Hanoverian line, camot now cleavly to discovered; but it is cer trim that the whigs firmly believed if, and the tories but faintly denied the charge.
The violent dissension betiesin these two partics, their unbounded liceetioustets

## BRITISH EMPIRE.

cabals and tumults made the queen's situation very disagrevable; her health declined, and on the e8th of July, 1714, she fell into a lethargic insensibility. Notwithstanding all the medicines the plysicians could prescribe, the distemper gained ground se - fast, that next day they despaired of ber life.

All the members of the privy council were now summoned to attend, and they began to ppovide for the security of the constitution. A letter was sent to the elector of Hanover, informing him of the queen's desperate situation, and desiring him to repair 'to Holland, where be would be attended by a British squadron, to convey him to England. At the sime time, they dispurched instructions to the earl of Strafford, at the Hague, to desire the states Gencral to be ready to perform the guarantee of the protestant succession. Precautions were talgen to secure the sea-ports, and the command of the fleet was bestowed on the earl of Berkely, a professed whig.

On the Loth of July, the queen seemed to be somewhat relieved by the medicines which had been given her. She arose from her bed about eight in the morning, and walked a little. Atter some time, cesting her eyes on a clock that stood in her chamber, she continued to gaze at it fur some minutes. One of the ladjes in waiting asked her what she saw there more than usual, to which the queen answered only by turuing her eyes upon lier with a dying look. She was soon after seized with an apoplectic fit, from which, however, she was somewhat recovered, by the assistance of Dr. Mead. She continued all night in a state of stupefaction. She exhibited some signs of life betrixt twelve and one the next day, but expired the following morning a little atter seven o'clock, having lived 49 years, and reigned upwards of 12 . She was the last of the unfortuiate family of the Stuarts, whose government had been disturbed by frequent insurrections, and who have always been considered as being, with the exception of Mary II. strongly inclined to arbitrary power.

The names of Newton and Locke adorned the reign of Willinm III. and he had a particular esteem for the latter, as he had also for Tillotson and Burnet, though he was far from being liberal to men of genius. Learning flourished, Dowever, in this reign, merely by the excellency of the soil in which it had been planted. Our readers are in general acquainted with the improvements which learning and the polite arts received undec the aaspices of queen Aune, and which put the court on a footing with that of her great enemy, Louis XIV. Many of the great men who had figured, in the reigns of the Stuarts and William were still alive, and in the full exercise of their faculties, when a new race sprung up in the republic of learning and the arts. Addison, Prior, Pope, Swift, lord Bolingbroke, lord Shaftesbury, Arbuthnot, Congreve, Steele, Rowe, and many other excellent writers made their appearance, and rendered the English as triumphant in literature as in war. Natural and moral philosophy kept pace with the polite arts, , and even religious and political disputes contributed to the udvancement of learning.

## BATISH EMPIRE.

## Chapter XV.

## British Empirs - During the reigns of George I. and George II.. if

QUEEN Anne had no sooner resigned her breatb, than the privy council met, and three instruments were produced, by wbich tha elector of Hanover appointed several of his known adberents to be added as lords justices to the seven great officers of the kingloti. Orders were also immediately issued out for proclaiming George king of England, Scotlund, and Ireland.
The regency appointed the earl of Dorset to carry him the intimation of his accession to the crown, and to attend him in his journey to England. They sent the general officers in whom they could confide to their posts, they reinforced thie garrison of Portsmouth, and appointed the celebrated Mr. Addison secretary of state. No tumult, no commotion, rose against the accession of the new king; and this gives a strong proof, that if the tories really intended to exclude him,' they never took any rational measures to accomplish their purpose.

The king first laeded at Greenwich, where he was received by the duke of Northumberland and the lords of the regency. From the landing-place he walked to his house in the park, accompanied by a great number of persons of distinetion. Having retired to his bed-chamber, be seat for such of the nobility as had distinguished thenselves by their zeal for bis succession. He expressed the greatest regard for the duke of Marlborough and other leaders of the whigs ; but the tories found themselves excluded from the rogal favour.

The general character of George appeared, at first view to afford strong reasons why a reign of unusual tranquillity and national benefit might have been expected. He was frank and sincere, generous and grateful, just and humane. Though grave and sedate, he was not an enemy to mirth, or a stranger to tho familiarity of private friendship. In the department of polities, he was not destitute of skill or knowledge. He wns connversant in the arto of negotiation ; he understood the interests of different states, and the intricacies of the Germmic system; and he was atteative to all the motions of the European powers. But, unfortanately for Great Britain, he rendered her strength and resources subservient to the benefit and preservation of his electoral dominions, For these, particularly for his more recent acquisitions, he felt a constant alarm; ; these were the foundations of his frequent and multifiarious treaties; these he was more anxious to secure against his jealous enemies, than his kingdom against the attempts-of the pretender ; and when be equipped fleets and armics, he had an cye to the ultimate protection of his favourite possessions, under the pretence of resisting invasions for which the island was sufficiently prepared, and of guarding against insurrections which he did not dread.

In consequence of George's attachment to the whigs, the jucobites raised tho most
terrible outeries; and an opportunity seems to fiaye been offered to the pretender, of striking a decisive blow. Instead of this, he continued a calm spectator on the continent, and ouly sent over bis emissaries to disperse ineffectual manifestoes, and delude the unwary. Copies of a printed address were sent to the dukes of Shrewsbary, Marlborough, Argyle, and other noblemen of the fint distiaction, vindicating his tight to the cipo, and complaining of the injustice of his people. Yet, thongh be still complained of their conduct, he never took any step to correct his own, or remove that obstacle by which his father had lost his throne. He still continued to profess the truest regard to the catholic religion; and, instead of concealing his sentiments on that bead, gloried in his principles.

The parliament boing soon dissolved, a new one was assembled, in which there were a great majority of whigs returned, both from England and Scotland. On the first meeting of this assembly, violent measures were resolved upon against the late ministry. Part of them kept away from busiaess. A committee was appointed to inspect all the papers relative to the late treaty, and to select snch of them as might serve for grounds of accusation. The earl of Oxford was impeached of high treason, and sent to the Tower. The violence of the commons was answered with equal violence withont doors. Tumults became every day more frequent, and every tumuls served only to increase the severity of the legislature. They now passed an act, declaring that it any persons to the number of 12 , unlawfully assembled, should continue together one hourafter being required to disperse by a justice of peace, or otier officer, and after hearing the act against riots read in public, they should be deemed guilty of felony, withoat benefit of elergy.

These vindictive proceedings excited the indignation of the people, especially of such as were connected with the jacobite faction. A rebellion commenced in Scotland, where to their other grievances, they joined that of the uniun, which they were ta ght to consider as an oppression. The earl of Mar, assembling $\$ 00$ of his vassals in the Mighlands, proclaimed the pretender at Castleton, and setting up his standard ot Bracmar, assumied the title of lieutenant-general of his majesty's forces. Two vessels arrived from France, with arms, ammunition, and a number of officors, together with assurances to the earl, that the pretender bimself would shortly come over to holid his own forces.

In consequence of this promise, the earl soon found himself at the head of 10,000 men, well armed and provided. He secured the pass of Tay at Perth, where his head quarters were established, and made thimself mastor of the whole provigee of Fife, and all the sea-coast on that side of the Frith of Forth. He marched theace to Donv blain, as -if he had intended to cross the Forth at Stirling bridge; but thene lie was iifformed that* the duke of Argyle, who, on the occasion, was appointed commander in chief of all the forces in North Britain, was advanciag against him from Stirling, with all his own clans, assisted by some troops from Ireland. Upon this he thought proper at first to retreat ; but being soon after joined by some of the clans under the earl of Scaforth, and others under general Gordon, he pesolved to face the eneny, and difected his march towards the south.

## BRITISH EMPIRE.

The fuke of Argyle, apprised of his intentions, resolved to give him battle in, the neighbourhood of Dumblaine, though bis forces did not amount to balf the number of the enemy. In the morning, therefore, be drew up his army, which did not ercsed $\$ 500 \mathrm{mcn}$, if order of battle, but bo soon found himself greatly outlianked by the insurgents. Thin dinke, therefore, perceiving that the earl of Mar made attempts to surround him, was obliged to alter his disposition, which on account of the scarlity of general 'officers, was not done so experlitiously as to be finished before the rebels begen the attack. The left wing of the duke's army received the centre of thin enemy, and supported the first charge without shrinking. It secined even for a while victarious, and the earl of Clanronald was killed. But Glengary, who was second in command, undertook to inspire his intimidated foress with courage, and waving his bonnet, cried out several times, "Revenge!" This animated the rebel troops to such a degree, that they followed him close to the points of the enemy's bayonets, and got within their guard. A total rout begon to ensue of that wing of the royal army, and gencral Wetham, their commander, flying fall speed to Stirling, gave out that the rebels were completely victorious.

In the mean time, tho doke of Argyle, who commanded in person on the right, attacked the left of the enemy, and drove them before him two miles, though they often fased about and attempted to rally. Having thus entirely brolken that wing and driven them over the river Allan, he returned back to the field of battle, where, to his great mortification, be found the enemy victorious, and patiently waiting for the assault. However, instead of renewing the engagement, both parties continued to gaze at each other, neither caring to begin the attack. In the evening, both parties drew off, and both claimed the victory. All the advuntages of a victory, however, belonged to Argyle.. Ife had interrupted the progress of the enemy, and in their circumstances, delay was defeat. In fact, the earl of Mar soon found his losses and disappointments increase. The castle of Inverness, of which he was in possession, was delivered up by lord. Lovat, who had hitherto professed to act in the interest of the pretender. The marquis of Tullitardine forsook the earl, in order to defend his awn part of the country; and many of the clans, secing no likelihood of coming to a second engagement, returned quietly home.

In the mean time, the rebellion was still more unsuccessfully prosecuted in England, From the time the pretender had undertaken this wild project in Paris, in which the duke of Ormond and lord Bolingbroko were engaged, lord Stair, the English ambassador, had penetrated all his designs, and sent faithful accounts of all his measures and of all his adherents, to the ministry at home. Upon the first rumiour, therefore of an insurrection, they imprisoned several lords aad gentlemen of -whom they had a suspicion. But these precautions were not able to stop the insurreetion in'the westero coutities, where it was already begun. The preparations of the rebels were, however, weak and ill conducted ; every measure was betrayed to government as soon as projected, and many revolts were repressed in the very outset.
The university of Oxford partook of the spirit of disoficetion; and the hiealth of ling James was a common toast in the academic parties of conviviall indulgence. Major

## BRITISH EMP RE.

gegeral Pepper heing ordered to seize some well known jucobites, who had retired to that town, entered it with, a body of troups, and sending for the vice-chancellor and pozyor, desird their assistance in the discuvery and sppretiension of malcontents. He also intimated, that if any of the stadents or of the citizens should tumulsously assemWhe in the strepts, begond the number allowed by the late act against riots, be would cerrainly tire upon them.

The insurrection is the northern counties came to greater mntarity. In the month of Uctober, 1715 the earl of Derwentwater and Mr. Forster tonk the field with a body of horse, and Leing joined fy some gentlemen from the borders of Scotland, proclumed the pretender. Their first attempt was to seize upon Newcastle, where they had many friends ; but finding the gates shut against them, they retired to Hexham. To oppose these, general Curpenter was detached by government with a body of 900 men, and an engagement was hourly expected. The rebels bad two. methods by which they might buve conducted themselves with prudence and safety. The one was to march directly into the western parts of Seotland, and hore join general Gordon, who commanded a strong body of Highlanders. The other was to cross the Tweed, and boldly to attack general Carpenter, whose forces did not exceed their own. From the infatuation attendant on the measures of that party, neither of these counsels was pursued. They tonk tho rout to Jedburgh, where they hoped to leave Carpenter on one side, and penetrate into England by the western border. This was the effectual means to cut themselves off either from a retreat or assistance. A party of Highlanders, who had joined them by this time, refused to accompany them in such a desperate incursion, and one halt of them actually retorned to their own country. At Brampton, Mr. Forster opened his commission of gneneral, which had been sent him by the carl of Mar, and pruclained the pretender. They continued their march to Penrith, where the body of the militia, that bud assembled to oppose them, fled at their appearance. From Penrith they proceeded, by way of Kendal and Laneaster, to Preston, of which they took possessiou withont any resistance. But here was an end to their prosperity ; for generul Wills, at the head of 7,000 men, came up to attwok them ; and from his activity there was no escape. They now, therefore, began to naise barricadoes about the town, and to put the place in a posture of defence, repalsing the first attacks of the royal army. Next day, however, Wills was reinforced by Carpenter, and the town was invested on nll sides.

In this deplorable situation, Forster offered to capitulate ; but Wills replied that he would not treat with rebels; and that the only favour they had to expect, was to be spared from inmediate sluughter. Submitting to these hard terms, they laid down their arus, and were pat under a strong guard. Alt the noblemen and leaders were secured; and a few of dieir officers tried for derecting the royal army, and shot by order of a court martial. The common men were imprisoned at Chester and Liverpoot; the noblemen and considerable officers were sent to London, and led through the streets pinioned:and bonod together, to intimidate their party.

Though by this time the pretender night easily have seen that his affairs were desjecate, yet, with his usual infatuation, be resolved to hozard his person among his friends
in Scotland, at a time whyn such a measure was too late for success. Passing thetefere, through France in disguise, and embarking in a suall vessel at Dunkirk, he arrived, after a voyage of a few days, on the coasts of Scotland, with only six gentlemen in 1 i train. He passed unknown through Aberdeen to Fetcresso, whero lie wes met by the cart of Mar and about 30 nobleuen ond gentlemen of the first quality. There he was solemuly procisimed, and his declaration, dated at Comerey, was printed and dispersed, He went from thence to Duxice, where be made a public entry; and in two dajs nerre be arrived ate Scone, where he intended to have lad the ceremony of his coronation peiformed. He ordered thanksgivings to be made for his safe arrival; he enjoined the ministers to pray for him in their churches; and, without the suallest share of power, sent through the parade of royalty. Having spent some time in uniupertant parade, he resolved to abandon the eaterprize.

He made a speech to his grand council, in which fie informed them of his want of money, arms, and ammunition ; and therefore deplored that lie was obliged to leavo them. He once more embarked on board a sfnall Frencls ship that lay in the harbour of Montrose, accompanied with several lords his adherents, and in five days arrived at Graveliae.

General Gordon, who was left commander it chief of the forces, with the assistance of eart Mateschal, proceeded at their head to Aberdeen, where he secured three vessels to sail northward, which took on board such persons as inteaded to eseape to the confieent. He then continued bis mareh through the Highlands, and quietly dismissed his forces as be went forward. The retreat was made with such expedition, that the duke of Argyle, with all his activity, could never overtake his rear.

The rebellion being ended, the law was put in force with all its terror; and the prisons of London were crowded with those deluded persons, whom the ministry seeued resolved not to pardon. The earl of Derwentwater and lord Kenmuir were beheaded at the scaffold on Tower-hill, and sabmitted to their fate with the calmest couposure. The earl of Nithsdale had the happiness to escape, in womas's clothes, that were brought him by his mother, the night before the time appointed for his execution.

An act of parliament was next made for trying the private prisoners in London, and not in Lancashire, where they were taken in arms. 'This was considered liy sume of the best lawyers, as an alteration of the antient constitution of the kingdon, by which it was supposed that every prisoner should be tried in the place where his offeace wat committed; as a jury of, neighbours would be best gavalified to euter into the nature of the crime.

In the beginning of April, commissioners for trying the rehels met in the court of common pleas, when the bills were found against Mr. Forster, M. Mackintosb, and 20 of their confederates. Forster escaped from Newgate, and reached the continint in safety : the rest pleaded noi guilty. Pitts, the keeper of Newgate, being suspected of having connived at Forster's escape, was tried for his life, but acquitted. After this, Mackintosh and several other prisoners broke from Newgate, after having mastered the keeper and turnkey, and disarmed the sentivel. The court proceeded to the trial of those that remained; four or five were hanged, drawn, and quartered, at Tybura. The judges appoin el

## BRITISH EMPIRE.

to"tiy the rebels at Liverpool, found a consraerable namber of tnem guilty of high treason. Trenty-two were exccuted at Manchester and Preston, and about 1000 were transported to North America.
The year 1791 was distinguished by the commencement of the ruinous South Sea schenf. To explain this as concisely as possible, it must be observed, that ever since the revolution under king William, the government not laving sufficient sopplies granted by parliament, or what was granted reqairing time to be collected, they wegre obliged to borrow money from several different companies of merchants, and among the rest from .bat company which traded to the South Sea. In the year 1716, the goverament wis indebted to this company about nine millions and a half of money, for which they granted. at the rate of six per cent. interest. As this company was not the only one to which government was indebted, sir Robert Walpole formed a design of lessening the nationat debts, by giving the several companies an alternative, either of accepting an interest of five per cent. or of being paid the principal. The South Sea company, having augmented their loan to ten millions, were cantented to receive $500,000 \%$, ambually às interest, instead of 600,000 h. which they had usually received. In the same mauner the governors and company of the bank, and other companies, were content to receive a diminished annual interest for their respective loans, all which greatly lessened the debits of the nation.

In this situation of things, one Blount, a scrivener, proposed to the ministry, in the name of the South Sea company, to buy up all the debts of the different companies, and thus for the South Sea company to become the sole creditors of thestate. The terms he offered to government were extremely advantageous. The South Sea company was to redeen the debts of the natlon out of the hands of the private proprietors, who were creditors to the government, on whatever terms they could agree on; und for the interest of this money, which they bad thus redeemed and taken into their own hands, they would be content to be allowed by government five per cent. for six years; after which the interest should be reduced to four per cent. and should be at any time-redeemable by parliament. For these purposes, a bill passed both houses. Now came the part of the scheme wbich was big with fraud and ruin. As the dircetors of the South Sea company could not of themselves be supposed to possess so much tioney as was requisite to buy up the debts of the nation, they were empowered to raise It by operiing a subscription to an imaginary scheme for trading in the South Seus; froms which commerce immense advantages were promised, and still greater expected by the rapacious credulity of the people. Alt tic creditors of zoveroment, therefore, "*ere invited to come in and exchange their securities ; viz. the security of governmeat for that of the South Sea, company.

The director's hooks were no sooner opened for the first subscription, than crowds came to make the exchange of governitient stock for South Sea stock. Tic delusion was arti fally continued and spread. Subscriptions in a few days sold for donble the price they had been bought at. The scheme succeeded even beyond the projector's hopes; and the whole nation was infected with a spirit of avaricious coterprize. The infatuation

## BRITISII EMPIRE.

prevailed; the stock increased to a surprising degree, even to near ten times the valuo it was first bought for,

After a few months, however, the people waked from their dream of riches, ant found that all the advantages they expected were merely imazinary ; while thousands of families were involved in one common ruin. Many of the directors, by whose aps the people were laught to expect such great benefit from a traffic to the South seas, bad amassed considerable fortunes by the credulity of the public. It was some consolation, however, to the people, to find the parliament sharing in the general indignation, and resolving to strip these unjnst plunderers of their possessions. Ordert were first given to remove all the directors of the South Sea company from their seats in parliament, and the places they possessed under government. The principal delinquents were panished by a forfciture of all such possessions and estates as they bad acquired during the contineance of the popolar frenay.

The next care was to redress the sufferers. Several just and useful resolutions were taken by parliament : and a bill was speedily prepared for repairing the late sufficiugs, as far as the i, ispection of the legislature could extend. Of the profit arising frons the South Seu scheme, the sum of $7,000000 \mathrm{l}$. was given back to the origital proprietors; several additions were also made to their divideads, out of what was powessed by the company in their own right ; and the remaining capital stock was also divided anoug the old proprietors, at the rate of $3 \$$ per cent. In the mean time, petitions fiom all parts of the kingdom were presented to the house, demanding justice ; and the whole nation seemed exasperated to the highest degree. Poblic predit sustained a terible shock. Some principal members of the minintry were deeply concerned in these fraudulent transactions. Tha bank was drann upon faster than it could supply; and nothing was heard but the ravings of disappointte nt, and the cries of despsif. By degrees, however, the effects of this terrible calamity wore off, and uatters returaed to their former trauquillity.

The wther events which distiaguiah the reign of George I. may be related in few *ords. The parliament trok occasion, from the rebellion in Scethusd and the nouth of Eagland, to prolung their own duration, and that of all sueceeding parliameots, from three to seven years. A bill was passed, which deprived the lrish lords of all right of final jurisdiction, and rendered them subservient to the British legislature. The quar rels of this prince with Sweden and Spain are intended to be noticed in another part of this work.

Soon after the breaking up of the parliament, in the year 1797, the king resolved to visit his electoral dominions. Having appointed a regeacy, he embarked for Holland, and lodged, after his landing, at a little town called Voet. Next day be proceeded on his journey, and in two days more, between ten and cleven at night, arrived at Dilden, to all appetrince in perfect health. He supped there very beartily, and continuel) his journey early next morning ; but between eight and nine ordered his coach to stop, It being perceived that one of his hands lay motionless, Monsicur Fabrice, who kad formenly been servant to the king of Sweden, and who now atfeuded king George, ate kempted to guicken the circulation, by chafing it between his own. As this bad no effect,

## BRITISH EMPIRE.

tbe surgeon, who followed on horseback, was called, ant fo rubbed it with spirits. Soon after the king's tongue began to swell, aad he bad just streugth enouga to bid fthem hasten to Osnaburgh. Then fillling insensibly in Fibrice's arms, he never res* covered, but expired at eleven o'clock the next morning, in the 68th year of his age, and 1 Sth of his seign. His borly was conveyed to Hanover, and there interred among his ancetors.

On the accession of George II. the two great parties into which the mation had been so long divided, again changed their names, and were now called the coart and country parties. Throughout the greatest part of this reign, there seems to have been two objects of controversy, which wre debated every session, and tried the strength of the opponents. The government, on the accession of George II. owed more than thirty millions of money; and though there was a long continuance of profound peace, yet this sum whis found constantly increasing. Demanis for new supplies were made every session of parliament, either for the purpose of securing friends on the continent, or guarding the nation against internal conspiracies, or of euabling the ministry to act vigorously in conjunction with the powers in alliance. It was vainly alledged that thepe expences were incurred without prudence or necessity, and that the increase of the national debt, by multiplying and increasing taxes, would at last become aa intolerable burden to the poor. These arguments-were offered, canvassed, and rejected; the court was constantly victorious, mod every demind was granted with cleerfolness and profusion.

The earlier part of the reign of George IL was marked by few events of considerable importance. Sir Rolert Walpole, who was at that time prime ninister, deserves our blame for his attachment to the system of corroption ; but merits our commendation for his avoiding, as long as possible, to plange the nation into a war with Spain. The clamours of the opposition, however, at leogth prevailed; and the Spanish war, whichi commenced in 1759, was succeeded, the next year, by hostilities witi France, in beluif of the queen of Hungary. In this war was fought the battle of Dettingen, at which the king himself was present; and the French were defeated, with the luss of about 5000 men.

Though the English were vietorions in this engagement, the French were very litfo disconcerted by it. Thicy opposed prince Charles, and interrupted his attempts to pass the Rhine. In Italy they also gained some advantages ; but their chief hopes were placed on an intended invasion of Fngland. From the violence of parliumentary disputes in England. Frunce had been persnaded that the counfry was ripe for a revolution, and only wanted the presence of the pretender to bring about a change. An invasion was therefore actually projected. The troops destined for the expedition amountedto 15,000 " and preparations were matle for embarking them at Dankirk, and some of the ports nearest to. England, under the eye of the young pretenter. Thie duke de Roquefeaille, with 29 ships of the line, was to see them safely lunded on the opposite shore, and the famous count Saxe was to command them when landed: But the whole project was discoacerted by the appearanee of sir Jolin Norris, who, with a superior fleet, mide up to attack them. Tin French fleet was obliged to put back; a very bard - Vol I
gale of wind damaged thef tranaports beyond redress ; and the French, now frustrated iil tieir selieme of a sudden desernt, thought fit openly to declare war.

* The national joy for sir John Norria's sucress, honever, was soon damped by thio miscarriage of sidnirals Matthens and Lestock; who, through a misunderstamfing har tween theuseives, suffered a Frenels fleet of 94 sail to escape th in uear Toulin. If the Netherlands, the British arus were attended with. still worse success. The I tuch had there assembled an army of 120.000 men, commanded by count Saxe, natural soa to the late king of Poland, an officer of great experience. The English were beaded by the duke of Cumberland, who had an inferior army, aud was much inferior in the knowledge of war to the French gencral. Count Saxe, therefore, carried all before him. In 1742, he besieged Fribourg, and in the beginning of the campaign, 1741, invested the strong city of Tournay. To save this place, if possible, the allies resolved to lizard an engagement; and on this ensned the bloody battle of Fontenoy, in which the allies leit on the field of battle near 12,000 men, and the French alatost an equal number. In consequence of this vietory, Tournay was soon after taken by the French.

Tu balance the bad saccess, however, admirals Rowley and Warran had retrieved the honour of the British ©lag, and made several rich captures at sea. The fortress of Louisbourg, a place of great consequence to the British commerce, surrendered to general Pepperell; while, a short time after, two French East India shrips, and a Spanish slip from Peru, ladea with treasure, put into the harbour, supposing it still their ownt, aad were taken.

During this gleam of returning success, Charles Edivard, the son of the old pretender to the Bitish crown, resolved to make an attempt ta recover what lie called his right. Being furuished with some money from France, he embarked for Scotland, aboard as small frigate, accompanied by the marquis of Tullibardine, sir Thomas Sheridan, and some others; and, for the conquest of the whole British empirc, only brought with fim seven officers and arms for 2000 men.

Fortune, however, seemed no way more favourable to this attempt than to others sjomilar to it. His convoy, a ship of 60 guns, was 50 disabied in an engagement with an Engilish mans.of mar, that it was obliged to return to Brest, while he continurd his course to the western parts of Scotland. Oa the 27 th day of July, 1745, lie landed on the coast of Lochaber, and was in a litte time joined by the Highlanders, to the number of 1500 . The ministry at first could scarcely be induced to credit his arrival ; but whicu they could no longer doubt of it, they sent sir John Cope, with a small body of forces, to oppose his progress.

By this time the young adventurer was arcived at Perth, where be performed the ceremony of proclaiming his father king of Great Britain. From thence, descending towaris Edinburgi, and his forces continuaily increasing; he entered the copital without opposition ; but was unable, from want of cannon, to reduce the castle. Here he again proclaimed his father; and promised to dissolve the union, which was considicred as one of the national grievances. In the mean time, sir John Cope being reinforect by two regiments of dragoons, resolyed to give the enemy battle. The rebels attacked
him near Prestor-pans, and in a few minutus put ham and his troops to flight, with the loss of 500 metr .

- Ihis vietory gave the rebels great influence: and haitthe pretender marched directly to England, the consequeace might have been fatal to freeforp. Hut he was amused by tho promise of suecours, which never came; and thas infaced to rearain in Edin, burgh till the season for action was lost. He was joined, honever, by the envi of Kilmarnock, tord Balmerino, lords Cromarty. Efeho, Ogilsy. Pinsligu, ang tho eldest son of lord Lovat, who, with their vassals, considerably increased his areny. Lord Lovat hime self, so remakable for his treachery, was an cothasiast in favour of the pretender, but tus unvilling to act openly, for fear of the nifuistry.

But white Charles was thus triting away his time at Ealinhurgh, the fritish ministiy were tuking effectual unethods to oppose bium: 6000 Dutch troops, that had come over to the assistance of the crown, were dispatched oorthwards, under the command of general Wade ; but, as it was thea said, these could lend no assistance, being prisonersof France upon their parole, and under engagement not to oppose that power for a year. But, lowever this be, the duke of Cutnberland zooa affer arrived trom Flanders, and ras follored by another detachment of dragoons and infaatry, well disciplined and inured to action; and, besides these, volunteers offered themselves in every part of the kingiom.

At last, Chartes resolved upon ant irruption into Prgland. He entered that country by the western border, and took the town of Carlisle; atter which he continued his march southisards, having received assurances that a considerable body of forces would be landed on the southern coast, to make a diversion in bis favour. He established his head quarters at Manchester, where he was joined by about 200 Raglish, fonned into a regiment, under the command of colonel Townley. From thence he parsued his march to Derby, intending to go, by the way of Chester, into Wales, where he hoped to be joined by a great number of malcontents ; but in this the was prevented by the factions among his followers.

Being now advanced within 100 miles of London, that capital was in the utmost consternation; and had be proceeded with the same expedition he had hitherto used, perliaps he might have made litmself master of it. But be was rendered incapabie of pursuing this, or any other rationat ptan, by the discontents which began to prevait in this army. In fact, the young pretender was but the nominal leader of his forees; his genetals, the Highland chiefs, being averse to subordiuation, and ignorant of command. They were now unanimous in their resolution to return to their own country, and Charles was forced to comply. They retreated to Carliste without any loss; and from thense, crossing the river.Eden and Solway, entered Scotland. They next marched to Glasgow, which was laid under severe, contributions. From thence advancing to Stirling, they were joined by lord Lewis Gordon, at the head of some forces which had beea assemhled in his absence.-

Other clans litewise came in, and from sotne supplies of money received from Spain, and some akirmishes with the royalists, in which he was victorious, the pretender's affairs began to wear a more promising aspect. Being joined by lord Druamond, he investod
the castle of Stirling, in the siege of which mueh time was consumed to no purpose. General Hawley, who commanded a considerable bödy of forces near Edinburgì, undertook to raise this siege, and advanced towards the rebel army as far as Falkirg, After two days spent in mutually examining each others strength, an engagement ensued, in which the king's forces were entirely defeated, with the loss of their tentp and artillery.

This was the end of all the triumplis of the rebel army. The duke of Cumberland having arrived, was put at the head of the troops at Ediaburgh, which amounted to about 14,000 men. With these he advanced to Aberdeen, where he was joined by several of tiee nobility attached to the bouse of Hanover; the enemy, in the mean time, retreating before him.. He next advanced to the banks of the Spoy, a deep and rapid fiver, where the rebels might have disjuted hifs passage; but their contentions sith one another were now risen to such a height, that they could scarce agree in any thing At last they resolved to wait their pursuers. An engagemment ensued at Colloden, near Inverness; in which the rebels were defeited with great slaughter, and a final period was put to all the hopes of the young ndventurer. The conquerors behaved with the greatest cruclty; refusing quarter to the wounded, the unarmed, and the defenceless. Some were slain who had only been spectaturs of the combat, and soldiors were seen to anticipate the base employment of the executioner. The duke, immediately atter the action, ordered 36 deserters to be execited : the conqnerors spread terror wherever they came; und, after a short space, the whole comntry round was one dreadiul seene of plunder, slaughter, and desolation.

Immediately after the engagertent, the young pretender fled away with a captain of Fitzjames's cavalry; and when theis horses were fatifued, they both alighted, and separately sought for safety. There is a striking resemblance between the adventures of Charles 11. atter the battle of Worcester, and those of the young pretender after the batte of Colloden. For some days the wandered in the country. Sometimes he found refuge in caves and cottages, withont any attendants at ad. Sometimes he lay in forests * with one or two companions of tis distress, continually pursucd by the troops of the conqueror, there being a reward of $\$ 0,000 \mathrm{~d}$. offered for taking liit eitber dead or alive. In the course of his adventures, he bad oceavion to trust his life to the fidelity of abovo 50 individenis; not one of whom could be prevailed upon, by so great a reward as was offered, to betray him whom they looked upon to be theirking's son.

For six months the unfortunate Charles continued to wander in the frightful wilds of Glengary, vften hemmed round by his, pursuers, but stifl -sscued by some providential accident from the impending danger. At length, a privateer of St. Maloes, hired by bis adberents, arrived at Lochranach, in which be embarked in the most' wreteleed attire. He was clad in a coat of black frize, thread-bare; over which was a common Highland plaid, girt round him by a belt, from which bung a pistol and degger. He had not been shifted for many weeks; his eyes were hollow, his visage wan, atd his eonstitition greally impaired by famine and fatigoe. He was acedumpani-d by Sultivan and Sheridan, two Irish adherents, who had shared all his ealamaties; togetherwith Cumeron of Lochicl, his brother, and a few other exiles. They set sail for France ;

- and after having been chased by two English men of war, affived in safety at a place called Roseau, near Morlaix, in Bretague.

While the pretender was thus pursued, the scaffolds and giobets were preparing for his adherents. Seventeen officers were hanged, drawn, and quartered, at Kenhington* common, in the neighbourhood of London; bine were executed in the same manner at Carlisle, and 11 at York. A few obtained pardons, and a considerable number of the comilon men were transported to America. The earls of Kilmarnoch and Cromarty, and lord Ralmerino, were tried and found guilty of high treason. Cromarty was pardoned ; bat Kilmarnoch and Balmerino were executed; as was also Mr. Radeliffe, brother to the fate earl of Derwentwater, who was sentenced upou a former conviction. Lord Lovat was tried, and'suffered soaie time after.

Immediately after the suppression of the rebelion, the legiblature andertook to establish several regulations in Scotland, which were equally conducive to the happiness of the people and the tranquility of the united kingdoms. The Higblanders had, till that tinie, continued to wear the military dress of their ancestors, and never went without arms. In consequence of this, they considered themselves as a body of people distinct from the rest of the nation, and were ready, upon the shortest notice, to second the insurrections of their chiefs. Their habits were now reformed by an act of the legislatare, and they "ere compelled to wear clothes of the common fashion. But what contributed still more to their real felicity, was the abolition of that bereditary jurisdiction, Which theif chitftums exerted over them. The power of their chieftains was totally destroyed, and every sulject in that part of the kingdom was granted a participation in the cominoa liberty.

Concerning the succeeding events of the war, it may be remarked in general, that the French were successful on land, and the English at sea. Both parties, however, became suon tired of hostilities; and in the year 1748, a pacification was concluded, in tertus which afforded very little advantage to either, and were -rather disgraceful to this country. No mention was made of the right which the Spaniards clatmed to search British vessels in the American seas, though this had been the original cause of the quarrel; nor were the limits of the possessions of the contracting powers on the western coutinent ascertained with the requisite precision.

In the year 1751 died Frederick, prince of Wales, whose good-nature had rendered him popular, and on whose accession to the throne, those who opposed the administration grounded all their hopes of suceess.

The continance of real peace was limited to a feiv months; for, in the year 1749, tostilities began in America, occasioned partly by the new settlement of the English at Acadia, now called Nova Sentia, and partly by the desigo of the French to extend a chain of forts on the back of the English colonies, from Canada to Lotioniania. In 1756, war iwas more openly commenced; and the English having obtained some advantage hy sea, the enemy determined either to strike a decisive blow, or at least to spread the alarm of an intended invasion. Several bodies of their troops were marched down to the coasts that lay opposite to the British shores; these were instructed in the art of embarking and-relanding from flat-hottomed boats, whish were made in great - Vol. I

## BRITISH EMPIRE.

numbers for that expedif on. The number e: men amountea to about 50,000 , but at ${ }^{\circ}$ discovered the utmost relletange to the undertaking. The ministry were greatly alarm. ed. They applied to the Dutch for 6000 men, which they were by treaty obliged to fornish, in case of an invarion. This supply was refused; the Duteh alledging that thè treaty was to send the troops in the case of es actual, and not of a threatened, invasion. This excuse was accepted, and 10,000 Hessians and Hanoverians wern trouzht or $\mathbf{p}$.

The discontent which this measure excited, and the danger of iavasion to which this nation appeared to be exposed, occasioned those acts of parliament for the better regulation of the militia, which have since been attended with so many important consequences. The vigorous administration of William Pitt, who cime into power in the year 175\%, had a strong tendency to promote the success of the military expeditions which were about this time carried into execution. The French were attacked on every side, and sustained great losses in all the four quarters of the world. In the midtf. however, of the national exultation, the sovereign, George II. was removed from this state of existence. On the esth of October, he rose at his usual hour; and as the weather was fine, he would take a walk in the girdens of Keasington, where he then resided. In a few minutes after his return, bcing left alone, he wiss beard to fall down on the floor. The noise of this bringing his attendants into the room, they lifted him iuto bed, where he desired, with a faint voice, that the princess Amelia might be sent for; but before she could reach the apartment he expired, in the 77th year of lis age, and the 33 rd of his reigo. An attempt was made to bieed bim, but without effect, and the surgeons, upon opening him, discovered that the right ventricle of his heart was ruptured, and a great quaptity of blood discharged through the aperture.

To describe with minuteness the manners of a period which is so recent, must appear superfluous; but it may not be improper to mention two or three of the most celebrater literary charicters it produced, Such were Pope, whose pieces display less vigour and varicty, than those of Dryden, but are more elegant and correct. Gay, whio not only distinguished bimelf as a fabulist, but gained great reputation by bis Beggar's Opera. Dr. Young, who had wit as a satirist, and wliose Night Thoughts will long be mad with pleasure and profit. Thomson, whose beautifuf poein on the scasoos is characterised by elegant and accurate description. Arbuthnot and Mead, distinguished as well by their general information, as by their skill in the medical profession.

# DRITIS: EMPIKE 

CHAPTER XVL

## : <br> Burisur Exprax - Moon, the accastion of George III.

KING George III. ascended the throne amidst the greatest successes both by sea and land. In his first sperci to the parliament, he declared his resolution to carry on the war with vigour, till it might be brought to a termination safe and honourable to the nation and the allies. The direction of affairs was possessed by William Pitt, the most popular minister that had appeared for ages; a minister who gained so much of the confidence of the people, that his boldest designs were supposed to be the result of prudent deliberation, and his most oppressive taxes were paid without regret, In such circumatances it was evident, that if any change of men or measures took place, it must be attended with a correspondent change in a great part of the nation, from the most fervent loyalty to a state of disaffection and disgust. It was not long before all this was realised.

Mr. Pitt having strongly recommended a war with Spain, and that proposal not being agreed to by the other members of the privy council, resigned his employment of secretary of state in 1761. He was created carl of Chatham, and had a pension of 30002 , a-year settled upon bim for three lives. The eat of Bute, a Scottish nobleman, reputed of high tory principles, had now an uncontrolled sway in the, cabinet. For the more effectual preservation of his power, he was desirous of accelerating a peace ; and as the French and Spaniards were by this time weary of war, a treaty was concluded at Paris on the 10th of February 1763. Though considerable advantages were obtained by Britain, the terms were by many considered as too favourable, and this, added to the popularity of the late prime minister, and the opposite character of his successor, had a tendency to increase that spirit of disaffection, which at this time materially affected the peace of the nation.

The affair of Mr. Wilkés is still irell remembered, and therefore needs not to be very minutely described. Mr. Wilkes, member of parliament for Aylesbury, and colonel of - the Buckinghamshire militia, was guilty of two very different offences, which drew down upon him the vengeance of government. On account of a periodical publication, of considerable merit, called the North Britain, be was arrested by a general warrant, and committed to the Tower. This commitunent being afterward declared illegal, he was discharged from his confinemant. He even obtained 1000d. damages, and full costs of suif, of the under secretary of state, for scizing his papers. Though be was deprived of the command of the Buckinghamshire militin, expelled the house of commons for offences of a moral kind (his writing the Essay on Woman, an obscene, blasphemous parody on Pope's Essay on man), though declared an outlaw, in consequence of his retiring to France, and, after his return, scecessively rejected by the house of
commons as a member, he obtained all the advantages his ambition could prompt him to desire; he was loaded with city honours, and found wealth following in their train; and at length procured from a succeeding parliament, a ceasure of the proceedings of their predecessors respecting the Middlesex election, as being subversive of the rightr of elections.

The history of the American war, and of the various events with which it was connected, will be given in that part of our work which describes the American continent.

The catholic inhabitants of these realus had long laboured under cruel disadvantages, from which the legislature, in 1781, were determined to relieve them. Some remains however, of the spirit of persecation, and an apprehension of the awfol effects which might follow, if that party, who had formerly kindled so many fires in Smithfield, should ever again prevail, induced many individuals to look on the penal statutes as a necessary bar to confine them within the bounds of submission.

Thus a society wns formed in London, which took the title of the Protestant Association of which lord George Gordon was elected president; and it now prepared to act in i Ilecisive mamer against the resolutions of the legislature.

On the o9th day of May, 1780, the associators held a meeting in order to settle in what manner they should present a petition to the house of commons against the repeal of the penal statutes. A long speech was made on this oecasion by their president, who represented the Roman persuasforn os ganaing ground ruphdly in this country; that the only method of stopping its progress, was to go up with a spirited remonstrance to their representatives, and to tell them, in plain and resolute terms, that they were determined to prescrve their religious-freedom with their lives, \&c.

This harangue being received with the loudest applause, he moved, that the whole body of the association should meet on the 2nd day of June, in St. George's Fields, at ten in the morning, to accompany him to the hoase of commons on the defivery of the petition. This being unaninously assented to, he informed them, that if he found himself attended by fewer than $£ 0,000$, he would not present the potition. He then directed they should form themselves into four divisions; the first, second, and third, to consist of those who belonged to the city. Westminster, and Southwark; the fourth of the Scotch residents in London. They were, by way of distinction, to wear blue cockades in their hats.

Three days previous to the presentation of the petition, he gave notice of it to the house, and acquainted it with the manner in which it was to be presented; but this was recefved with as much indifference and unconcern as all his former' intimations.

On the end day of Jone, according to appointment, about 50 or 60,000 men assemwhed in St. George's Fields. They drew up in four separate divisions, as haeb been agreed, and proceeded to the parliament house, with lord George Gordon at their head. An fmmense roll of parchment was carried before them, containing the names of those nho bad signed the petition.
Wis their wey to the honse, they behaved with great order and decency; but as soon
ds they were arrived, great disturbances took place. The riders began by compelling all the members, of both houses, they met with, to put blue cockades in their hats, and call out, "No Popery." They forced some to take an oath that they would vote " for the repeal of the popery act, as they styled it. They treated others with great indiguity, posting themselves in all the avenues to both houses; the doors of which they twicet endeavoured to break open.

Their rage was chiefly direeted against the members of the house of lords ; several of whom narrowly escaped with thejir lives.

During these disturbances, lord George Gordon mosed for leave to bring up the petition. This was readily granted; but when he proposed it should be taken into inmediate coasideration, it was strenuously opposed by almost the whole house. Enraged at this opposition, he came out several times to the people during the debates, nequainting them how averse the house appeared to grant their potition, and naming particularly those who had spoisen against it,

Several members of the house expostulated with him in the warmest terms on his unJustifiuble cenduet; and one of lis relations, colonel Gordon, threatened to run thim through the moment any of the rioters should force their entrance into the bouse. It was some hours before the house could carry ou its deliberations with any regularity, which was not done till the members were rclieved by the arrival of-a party of the guards.

Order being restored, the basiness of the petition was resumed; when lord George Gordon told them it had been signed by near 190.000 British protestant subjects. He therefore insisted that the petition should be considered without delay. But, notwithstunding the dangers with which they were monaced, and the proof which the mover of the petition had given thint no meanv zlounld be lc ft unemployed to compel them to grant it, the commons continued immoveable in their determination. Of 200 members then preseat in the honse, six only voted for the immediate consideration of the petition

In the mean tiuc, the mol had dispersed itself into varinus parts of the metropolis, where they demolisted two Romish chapeh belonging to foreigo ministers; and openly vented the coost terriole menaces against all people of that persuasion.

On the 4 th day of June ghey assimbled in great numbers in the eastern parts of London; and a ttacked the chapels and houses of the Roman catholies in that quarter, stripping them of their contents, which they threw intu the street, and committed to the flasmes.

They renewed their outrages on the following day, destroying several Romish chapels, and demolishing the house of sir George Saville, in resentinent of his having brought into parliament the bill in favour of the Rewuan catholics.

Next day both houses met as usual ; but finding thatino busineas could be done, they adjourned to the 19th.

During this day and the following, which were the 6th and 7 th of June, the riotery were absolute masters of the metropolis and its environs.

Some of those who had been concerned in the demolition of the chopels belongtag to

## BRITISII EMPIRE.

foreign ninisters, having peea seired and seet to Newgate, the mob 'collected beffore that prison, and demauded their immediate release. On being refused, they proceeded

- to throw fire-brands and all manner of combastibles into the keeper's bouse; which unhappily communicated the fire to the whole building; so that this immense pile was soon in flames. In this scene of confusion, the prisoners were all released. They amounted to about 300 ; among whom several were under sentence of death. "They set fire, in the same manner, to the king's bench and Fleet prison, and to a number of houses belonging to Roman catholics. The terror occasioned by these incendiaries was such, that most people hung out of their windows jieces of blue silk, which was the colour assumpd by the rioters; and chalked on their doors and shuttcrs these words, "No Popery," by way of sigaifying they were friendiy to their cause.

The night of the 7 th of June coneluded these horrors. No less than 36 different conflagrations wore counted at the souc tius. The bank had been threatened, and was twice assailed; but, happily, was too well guarded for their attempts. In the evening large bodies of troops wrrived from all parts, and came, in time to put a stop to the progress of the rioters. They fell upon them every where, and many were slain and wounded, besides the numbers that perished through intoxication.

It was not until the afternoon of the 8th, that people began to recover from their consternation. During great part of tho day, the disorders of the preceding night had created so terrible an alarm, that the shops were almost universally shut up over all Loudon. The melancholy effects of misguided zeal were not, hoivever, confined solely to London. The outrageous disposition of the popalace was preparing to act the like horrid seenes in other parts of England. Tho molo sose in Holl, Bristol, and Bath; but, through the timely interposition of the magistracy, these places were saved from their fury.

On $_{n}$ the subsiding of this violent and unexpected commotion, it was thought proper to secure lord George Gordon. He was arrested, and committed elose prisoner to the Tower, after having uadergone a long examination before the priacipal lords of the council.

On the 19 th day of June, both houses met again, according to adjournment. A speech was made on this occasion from the throne, acquaiating them with the mensures that had been taken in consequence of the disturbances, sand assuring them of the utthost readiness to concur in whatever could contribute to the safety and maintenance of the laws and liberties of the people. The speech was lighly approved; but the conduct of administration was severely censured, and charged with unparwonable neglect, for not calling forth the civil power, and employing the military in due time to obviate the mischiefs that had been committed. Ministry excused itself, from the want of sufficient strength to answer all the demands of assistance that were made during the riots, and the absolute inpossibility of suppressing them till the arrival of troops from the country. The various petitions were now taken into consideration, that had been presented for the repeal of the act which had occasioned the riots; but the house continued in the same mind. Nevertheless it was thought proper to yield somashat to the preiadices of the people, by passing a bill for preventing persons of the popish persuasion

## BRITISH EMPIRE.

from traching or educating children of protestante; but this w/s afterwards thrown out by the lords.

- The year 1783 was marked by a treaty, which concluded the American contest, and * acknonledged the independence of the United Colonies.
For several years after this pacification, few events occurred of much importance to the'tlomestic history of this country. His majesty's indisposition, with which be was attacked in 1788, appeared to threaten very serious consequences; but these were happily averted, by his subsequent recovery.

On account of the violent agitation of parties, which contiaued for several succeeding years, it is a task impossible to be performed, to give such a narratiou of them as would prove satisfactory to every description of readers. Having no wish to rekindle, in the slightest degree, that flame of discord which is now so happily extinguished, we. shatt borrow our account of that period from a respectabie geographical treatise; without, however, undertaking to defend every assertion the following extract may contain, we shall only observe, that it is, in our opinion, as correct and impartial as any dotail of the like size wo have met with on the subject.

Early in the sessions of 1791 , Mr. Wilberforce made a motion, in a committee of the house of commons appointed for recciving aad oxamining evideace on the slavetrade, "that the chairnan be instructed to move for leave to bring in a bill to prevent the further importation of African negroes into the British colonies." Although this question was supported with great eloquence by Mr. Francis, Mr. W. Smith, the chan: cellor of the exchequer, and Mr. Fox, yet it was negatived by a majority of 75. One tmmediate consequence of this was; the establistment of a company for the express parpose of cultivating West Indian, and other tropical productigus, at Siecra Leone, on the coast of Africa, the bill for chartering which was introduced on the 28 th of March, by Mr. Thoraton.

On the esth of March, 1791, a message was delivered from his majesty, importing that the endeavours which he had used, in conjunction with bis adlies, to effect a pacification between Russia and the Porte, not having proved successful, his majesty judged it requisite, in order to ald weight to his representations, to make some further augmentation of his naval force. In consequence of a majority in support of this measure, a very large naval armament was prepared. Our fleet, collected to support the cause of the Turks against Russia, amounted in April to 33 ships of the line; and after maintaining this lorge equipment for four months, at an enormous expense, it was at last dismissed.

The proposed Russian war was certainly most unpopular, and the recoption which the proposition of it met with in the bouse of commons ought perhaps to have induced the immediate dereliction of a meaeure, which, however meritorious its intentions might be, was not crowned by the public favour: No valuablo purpose, was/attaised by this armament. Russia has yielded little or nothing more than her first pron posal; and we baye not so etfectually assisted the 'Tuks, as to have any clain to their gratitude. The mipister's popularity was consideralty injured by thene gexponsive
and injudicious preparatifns, in which Europe was astenistied to behold, for the first time, Britaio acting in a subservient capacity to the nargow and interested politics of, - Prussia.

Soon after the rising of the parliament, the nation was disgraced by a series of oftrages and violences, as unprovoked and wanton as have ever darkened the annals of a civilized people; and which, for the space of four days, spread terror and alarm thirough the large and opulent town of Birmingham, and the adjacent country.

Concerning the French revolution, much differencs of sentiment prevailed in this country; and much heat and ill-temper the discussion of that subject appeared unnecessarily to provoke. A considerable body of the whig party in Great Britain rejoiced in the emancipation of a neighbouring nation, and flattered themselves that they saw, in the establishment of the first Freach constitution, not only the annibilation of despotism in that country, but the commencement of a now system of politics in Europe, the basis of which was peace, happiness, and motual concord.

In most of the large towns in Great Britain, associations were formed for the celebration of that event, by anniversary dinners on the 14th of July; but the opposite party were not indifferent spectators of these proceedings. The popnlace were inflained by the mot injurious insinuations, conveyed in wewspapers and pamptiets : the fiends of the French revolution were (certainly falsely as to the majority) stigmatised as determined repablicans; and the act of joining in a convivisl meeting on the odious $1+t \mathrm{t}$ of July, was represented as an attempt to overturn the British constitution, in chureh and state.

Notwithstanding the pains which haid been taken to depreciate these associations, the meeting in London consisted of not, iess than 1500 respectable gentlemen, many of them literary cliaracters of bigh reputation. As, however, rumours had been apread to the disadvantage of the meeting, and the populace appeared to colleet in a tumultuous manner round the Crown and Anchor tavern, where the meeting was held, the company dispersed at an early hour.

At Biruingham the causes of discord were more numerous than cven at London. A violent animosity had sutsisted for years between the ligh chorch party and the dissenters of that place: and the religious controversies which took place betseen Dr. Priestly and some of the ciergy of Hirmingham, areatly contributed to increase this animosity.

In such circumstances, it is not sarprising that the ignorant part of the inhabitants shoula confound the cause of the French, revolution with that of the dissenters, especially since the majority of that persuasion have, since the revolution in 1688 , beentirmly attached to the whig sysicm, and since Dr. Priestly, whom the populace considered as at the bead of the dissenters there, had distinguished biuself by opposing dbe celebrated pamphlet of Mr Burke.

A festive meeting, in commemoration of the French revolution, was projected at Birmingham, on Thursday, the b4th of July; and on the preceding Monday, six copies of a most, inltammatory and seditious hand-bill, proposing the Prench revolation as a model to the English, and exciting them to rebellion, were left by some persun unknown in

## BRITISH EMPIRE,

a public nouse. As the contehts of this hand-bill were pretty)generally circulated, they caused some ferment in the town ; the magistrates thought it ploper to offer a reward of 100 guineas for discovering the author, printer, or publisher of the obnoxious paper; . and the friends of the meeting, intended for the 14th, thought it necessary at the same time to publish an advertisement, explicitly denying the sentiments and doctrines of the seglitions hand-bill, and disavowing all connexion with its author or publishers.

The viexs and intentions of the meeting having, however, been much misrepresented, the majority of the gentemen who projected it thoaght it adviseable to. relinquish the sebeme: accurdiugly, notice was given to that effect; but the inteation revived, and the company met at the appointed time, to the amount of between 80 and 90 . The ingenous Mr. Keir, well known for his great attuinments in chemistry and other branches of philosophy, and a member of the established church, was placed in the chair.

The gentlemen had scarcely met, before the house was surrounded by a tumultuous crowd, who testified their disapprobation by hisses and groans, and by the shout of "Church and king." which became the watch-word on this occasion. At five o'clock the company dispersed; and soon afterwards, the windows in the front of the hotel were demolished, notrithstanding the appearance and interference of the magistrates.

Dr. Priestley did not attond the festival, but dined at home, at Fairhill, with a friend (the celebrated Mr. A. Walker, the philosopher.) from London. After sopper they were alarmed with the intelligence that thic mobs were assembled at the new dissenting meeting-house (Dr. Priestley's), and were threatening both the doctor and his house. The rioters soon set the meeting-house on fire, and nothing remained that could be consumed. The old meeting-house shared almost a similar fate. After this they proceeded to Dr. Priestley's hoose, the doctor and his family having just had time to escape to a stuall distance, where they could distinetly hear every shout of the mob, and the blows of the instruments that were used to break down the doors. 'The whole of the doctor's library, his valuable philosophical apparatus, his manuseripts and papers, were destroyed by the mob.

The next day, this infatuated multifade demolished the elegant mansion of Mr. Ryfand; where, finding a profusion of liquor, a dreadful seene of intoxication ensued, and several of the wretched rioters perished in the cellars by suffocation, or by the falling in of the roof. The country residence of Mr. Taylor, the houses of Mr. Hutton (the ingenious historian of Birmingliam), of Mr. Humphrey, of Mr Russell, and several others, were destroyed by the resistless fury of the mob, who continued their depredations until Sunday night, when three troops of the 15 th regiment of light dragoons arrived. The town was then illominated, and all was acclamation and joy. Of the unfortunate and infatuated wretches who were taken in the act of rioting, five were tried at Worcester, and one was found guilty and execoted. At Warwick 12 were triec, but only four received sentence of death, of whom one was reprieved. For the honour of our country, we indulge the earnest hope that the disgraceful scones which. were acted at Birmingham, in 1791, will never be revived; but that, while tho continent of Europe is unhappily drepelicd in humau blood, this island will remain as cone

Vol I

* 6 H


## BRITISH EMPIRE.

ricenous for its barmony, forder, and tranquility, as for its constitutional freedom and pational prosperity.

The marriage of the duke of, York with the princess roval of Prussia took place on . the e9th of September, this year; at Berlin ; and on the esth of October, they arrived. in England, and were received with public joy and applause. The Prussian monarch gave to the pritucess a portion of 100,000 erovms. A fornaf renunciation is made, in favour of the mate succession, of all right of ipheritance arsing from the house of Prussia and Brandenburgh, as usually done on the marriages of the Prussian princesses. The suan of $4,000 \%$, sterling is annually assigned for pin-money and other expences : and 8,000 , annually of jointure, in case of the death of her hasband. In consequence of this union, and to coable his royal highness to live in a style suitable to bis exalied station, and to the high rank of the illustrious personage to whom he was allied, parbanent voted the sum of $18,000 \%$. per sanom, to his royal higtiness. Ilis majesty also settled an additional $7.000 \%$. per annum upon him, out of bis Irish revenue ; which, with $19,000 \mathrm{l}$. per annum that he before enjoyed, made the suin of $97,000 \mathrm{l}$. per annum. The revenues arising from the bishopric of Osnaburgh are said to amount to about 17,000\%. per annum.

- On the End of April, 1799, the house of commons, in a committec of the whole house on the African slave-trade, came to a resolution, $£ 50$ against 85 , for the graduat abolition. This sulject was supported by the united talents of Mr. Wilberforce, Mr. Fox, and Mr. Pit, for the immediate abolition. Mr. Dundas took a middle course, and argued for the gradaal relinquishment of a triffic, which every good man must abbor, as degrading and debasiog our fellow creatures to a level with the beasts. This bill, however met with a different reception in the house of lords.

The royal proclamation, on the 21 st of May, 1799, against seditious writiogs, which was followed by orders for embodying the militia of the kingdom, engaged coosiderable share of the pablic atteation. It had the intended effect, and excited numerous addresses, testifying the loyalty of the people.

In the beginning of the year 1793, numerous assnciations were formed throughout the kingdom agairst republican principles and theories, or, as the plarase usually adopted by such associations was, against republicaas and levellers. To say that there were no persons who had embraced republican principles, and would have bren willing to concur in changing the form of the goverament of this country, would be absurd; but there appears no reason to suppose that the cause for alarin was so great as many imagined, and others at least affected to believe. The truth lies between the two extremes.

The controversies occasioned by the pamphiets of Messrs. Burke and Calonne, and particularly the writings of Mr. Paine, writings well adepted to the. .comprehension of the lower claos of people, and pregoant with pointed remarks on some existing abuses, though, perhaps, with liule of sound policy or prineiple to recommend the $\cdot$, bad undoubtedly contributed to render the example of the French revolution in some degree contagious. But the disaffected party was neither numerous nor respectable.

## BRTIISH EMPIRE.

Thie chursh, the aristocracy, and all the most opulent of the fommunity, were averse to any change or innovation whatever. It was among the lower part of the middle class of socicty that democratical opinions were chefly entertained; and among them more probably as a matter of conversation, than as a project to be reduced to practice.

The viotent proceeding of the French, however, had terrificd the well-disposed part of the. people, and almost disgusted them with the very name of reform. From the period of the fatal 10 th of August, the converts from the Irench system were numerous; the proscription and persecution of the emigrants rapidly increased the number; and the premeditated ill treatment and unjust death of the king, almost eatirely annihilated the spirit of republicanism in this country. The public yanted only to be excited, to give the most forcible proofs of its attachment to a constitotion which had so wisely provided against the intolerable persecations of tyranny, and the no lass deplorable mischiefs of faction.

The first disposition manifested by Great Britain to break with France, regarded the navigation of the Scbellt, which the French had determined to open for the benefit of Antwerp and the Netherlands. This impediment, however, might perhaps liave been removed, frow the titte disposition which was evinced by Holland to assert its right to * the exclusive navigation, and from the readiness of the Fretich to refer the whole affair to a negotiation.

The next exception which was taken by the English ministry was to the decree of fraternity, which was offered by the French convention to the revolting subjects of any monaretial (or, us they said, tyrannical) government, and which was construed into a direct affont to this country, and a plot against her peace.

The atien bill, which the French complained was an infraction of the commercial treaty, was the oext cause of dispute; and this offence was angmented by the probibition to export corn to France, while it was freely allowed to the powers at war with that country,

At length, towards the end of January, M. Chauvelin was officially informed by the Engish court, that his character and functions, so long suspended, had entirely terminated by the fatal death of the king of France ; that he had no more any public character here, where his fature residence was forbidden. Eight days were allowed for his departure ; and this notification was published in the gazette. M. Marathad been sent by the executive council of France with enlarged powers, and, it was said, with advantageous proposals to Gicat Britain; but arriving in Eugland exactly at the period of At. Chauyelin's dismission, he thought it prudent immediately to return biotic.

Mr. Secretary Dundas, on the 28 th of January, presented to the house of commons a messige ftom the king, in which bis majesty expressed the necessity of making a further augnentation of his forees by sea and land, for maintaining the security and riphts of his ourn dominions, for supporting lis allies, and for opposing views of aggrandsement and ambition on the part of France. The question in relation to this subject wus carried by a great mejority in favour of mimisters.

## ERITISH EMPIRE,

On the 95 th of March, $[1794$, lord Greuville and S. Comte Woromzow signed a convention at London, on behalf of his Britannic majesty and the empress of Russia, in 'which their majesties agree to employ their respective forces in carrying on the " just and necessary war," in which they were ergaged against France; and they reciprocally promise not to lay down their arms, but by common consent. Notwithstanding this so: lema treaty, Catharine took no active part whatever in the war. Ancih r treaty waskioncluded between his Britannic inajesty and the king of Sardinia, signed at London, the 25 th of April,-by which Great Britaia engaged to pay 900,0001 , per annum to the king of Sardinia, and three months in adrance. A treaty was likeaise concluded between his highness the prince of Hesses Cassel and his Britannic majesty; the former was to furnish 8,000 men fur the war during three years; in return for which, England was to pay 100,000 月 levy-money, and 56,0001 . sterling per annum for six years. In this treaty, Great Britain engages to pay the landgrave a sum of money for each Hessian that is slain; so that the more men he loses, the more money he gains.

The prosecutions which hase taken place in England and Scotiand for seditious words, and for livellous and dangerous publications, may certainly be considered as stroagly characterising the spirit of the times; we shall therefore give a concise account of some of the principal of these trials.

At Edinburgh, Thomas Mair, esq. Was tried before the bigh court of justiciary, for seditious practices. In the indictment, the prisoner was charged with wickedly and feloniouly exciting, by means of seditious specebes and harangucs, a spirit of disloyalty and disaffection to the king and the established government; of producing and reading aloud in public meetings a seditiois and inflammatory writing, called, " in Address from the Society of United Iristmen in Dublin, to the Delegates for promoting a Reform in Scotland," rending to produce in the minds of the people an insurrection and opposition to the established government. The jury being named, Mre. Muir objected to mont of them ; be observed, that as the gentlemen, however-respectable, were all subseribers to the Guldsuiths'-hall association, and had offered a reward for discovering those who had eirculated what they called seditious writings, they had already prejudged him, and were therefore improper persons to pass upou his assize : but this objection was repelled: ty the court:
The most material witness aguinst the accused was Anne Fisher, a servant of his father; she snid that she carried from him to the printer a Declaration of Rights, marked with some corrections, to be printect: she added, that she had heard Mr. Mair talk to the countrymen coming to the shop of his father, very often concerning Paine's Rights of Man, which she heard him say was a very good book; that he - wishod his hair-dresser to purchase them, and keep tbeth in his shop to enlighten the people; that Mr. Muir saif, whea the refora toot place, he would be member for Calder; that members would then be aloweal 30 or 40 stillings a day, and that none but honest nen would be aduitted, to keep the constitution clean ; and that she had caused an organist in the streets of Glangow to play ca ira at Mr. Muir's desire.

After a trial of sixteces hours' duration, the jury returned a verdict, finding the prisoren.

## RRITISH EMPIRE.

guily. The court then proceeded to pronounce sentence, and orderec sim to the trirsported beyond the scas; to such phace, as his majesty, with fie advice, of his privy council, should jodge proper, for fourteen years. He was soon after sent to Botany Buy, whence he found means to escape in an Averican vessel, and, after a variety of extraordinary adventures and escapes, if the accounts that base betn received are nuthentic, arrived in France, where ho was received with, public, congratulations, as the tiatyr of liberty, and where he still contipues.

On the 17 th of September, of the same year, the Rev. Mr. Palmer, gn unitarian elergyman, residing at Dandee, was tried by the circuit, court-pf josticiary, before lords Eisgrove and Abercrombie. The indictment charged him with being present at a meeting held at Dundee, denominating itself" A Socicty of the Friends of the People;" that he did there put inta the hainds of George Mealmaker a writing of a seditious import, in the form of an address to their friends and fellow citizens, containing, among other seditious expressions, the following words; "Yon are plunged into a war hy a wicked minister and a compliant parliament, who seem careless and unconcerned for your welfare; the end and design of which is almost too horrid to relate ; the destruction of a whole people merely because they will be feee." When the court proceeded to the examination of witnesses, Gcorge Mealmaker, weaver, in Dandee, achnowledged bimself to be the aothor of the proper in question ; it appeared, howerer, that Mr Palmer had enrrected it, oriered it to lie printed, and circulated it. The verdict was returned the same day, finding the prisoner guilty; in consequence of which be was sentenced to transportation for 14 years. This gentleman was sent to the hulks with Mr, Muir, and sailed with hin to Botany Bay.
© Oa the 21st of January, 179h the two bouses met. The speech from the throne enabivated, with some degree of minuteness, the advantages obtained by the allies, and exhorted to a spirited prosecotion of the war, and to a reliance on the resources of the country, and the strength of our allies, for ultimate success. The address to his marjesty, in which the parliament agreed to support him in the continuance of the wnf, was carried in favurr of ministry by a very great majority.
In March following, the secession of the king of Prussia from the great cayse of the allies agitatal the political world for sevesal weeks, when it was aunounced that the whole proceeded from his inability to supply his troops from the resources of his onn country, and therefore that he wast be subsidised to enable him to eaphlay his furces for the great parpose of restoning regular government to France. The parliament, influenced by the arguments which were advanced by the minister, ve'ed the sum of Q,500,000t. to the granted to his majesty, to enable him to fulfil the stipulations of the treaty conclouted with Prussia for the more vigorous prosecution of the war, and for such exigencies as might arise in the year 1794. Notaitlistunding this fresh treaty, the Prassian monarch soun after eutirely reliuquisbed the war, baving found full occupation for himsolf and his tromps in endeavouring to suppress the iasurrections in Poland, which we shatl particulaly notice in our narrative of the events of that unfortunate country.

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On thr 12th of May I794, a message from tais majesty was brobght down to the house oy Mr. Secretary Dundas, in which be informed them, " That the seditious practices

* which had been for some time carried on by certain societies in London, in correspon: dence uith-sucieties in different parts of the country, had lately been pursued with .increased activity and boldacss; and had been avowedly directed to the object, of assembling a pretended general convention of the people, in contempt and defiance of the authority of parliament ; that his majesty had given orders for seizing the books nad papers of these societies, which were to be laid before the house ; and that it was recommended to the bouse to consider them, and to pursue such measurcs as were necessary, in order to prevent their pernicious tendency."

The same day Mr. Thomas Hardy, a shoe-maker in Piccadilly, who had acted as secretary to the Loudon Corresponding Society, and Mr Daniel Adans, the secretary to the Society for Constitutiona! Information, were apprehended, by a warront fioma Mr. Dundas, for treasonable practices, and their books and papers were, scized, Mr, Itorne Tooke, Mr. Jeremiah Joyce, preceptor to lord Mahon, and Mr. Theiwall, uho had for some time entertained the town as a political lectorer, were afterwards in the course of the week, arrested and committed to the Tower, on a charge of high treason.

On the day following the seizure of the papers of these societies, thay were brought doun sealed to the house of commons by Mr. Dundas, and referred to a committee of srerecy, consisting of 21 members.

In consequence of the first report of the committee of seerecy, with respeet to the $\mathrm{p}^{\text {laus }}$ which had been formed by these societies for holdiag a general convention of the people, and iotimating their suspicions that large stands of arms land been collected by these societies, in order to distribate them among the lower orders of, the people, the clancellor of the excbequer moved " for leave for a bill to eamponer his majesty to secure and detain such persons as bis majesty suspectod were conspiring against his person aid government." By this bill the temporary suspeosion of the Habeas Corpus act is effected. It was carried, on thie smister's motion, by a majority of 162.

On the first of June, 1794, the British fleet, under the command of admiral lord Tlowe, obtained a signal victory over that of the French, in which two ships were sunk, une burnt, and six brought into Portsmouth harbour.

On the 10th of September, a special commission of oyer and terminer was issued for the prisoners confined on a charge of high treason in the Tower of London; and on the 2nd of October, it was opened at the sessions house, Clerkenwell, by the lond chief justice Eyre, in an claborate charge to the grand jury; and in the course of their proceedinga, the jury found a bill of indietment against Thomas Hardy, Joln Horne Tooke, and ten others; and on the 28th of October, Thomas Hardy, the late secretary to the Lonflon corresponding Society, was put on his trial at the Otd Bailey. Mr. Wood opened the pleadings, and stated tine overt acts of high treason, with which the prisoner was charged. When he had finished, sir John Scolt, the attorney-general, in a speech of uine bours, went into a minute detail of the sobject of tiese prosecutions for high treason.


## BRITISH EMPIRE.

The counsel for the prosecution then proceeded to produce their evidence, which consisted of prapers that had been fourd in the custody of different persons, and seized under the warrant of the privy council.
.Previously to the court's breaking up, about 12 o'clock a conversation ensued respecting the gentlemen of the jury, who wished to be discharged on their honour, to which Mr. Eirskine, on behalf of the prisoner, consented; but the court was of opinion, that the law would not permit the jury to separate, after having once impannelled. The jury were therefore consignsal to the care of the sheriffs, by whom preparations for their accommodation in the session's houst had been previously made, and the next* day the jary laving complained that their accomodations were uncoufortable, and incapable of affording them the necessary rest, they were provided that eyening, and all the subsequent evenings of the trial, with beds at the Hummams in Coyent Garden.

The 99th, 30th, and 3ist of October, were employed in the production of evidence for the crown, both documentrry and oral, which tatter took up great part of the morning of November the 1st. This being finished, Mr. Erskine, in behalf of the prisoner, addressed the jury for the space of six tours. The remainder of the day was occupicd in the examination of witoesses for the prisoner, many of whom gave him an excellent character.

The court adjourned at half past twelve on Sunday morning, November 2od, till the Monday following, when the counsel for the prisoner proceeded with their evidence: ufter whieh Mr. Gibbs bikewise addressed the conrt in bis favour: He was followed by the solicitor-general in reply. The next day the solicitor-general concluded his reply, and the lord president commenced the summing up the evidence, which he resumed the following day, and finished about noon. The jury then retired: and after having been absent two hours and a half, returned and delivered their verdict, Not guily.

On Mondey, November 17th, the court again met, and proceeded on the cral of Jolan Horne Tooke, esq. on the same charge of high treason. This trial was conducted in the same maner as the preceding, and ended on the Saturday following, about eight in the evening, when the jury retired, and in a few minutes returned and delivered their werdict, Not guilty.

On Mopday, the 6th of December, the court again met, and Johin Augustus Bonney, Jeremiah Jayce, Stewart Kyd, and Thomas Holeroft, were arraigned, and a jury was sworn in : whus the attorney-general informed the court that be should decline going ioto the evidened agaiust the prisoners, as it, was the same as had been adduced on the two late trials, and on which, after the most mature consideration, a verdict of acquittal Lud been given. The prisoners were of course aequitted and discharged.

Mr. Thelivall was then put to the bar, and, after a trial of five days, acquitted. But
Towardo the elose of the year 1795, a dreadfal and oppressive scarcity, pervaded the hingdom. The price of the half peek loaf rose in the metropolis to half-a-crown, and in some places it was still higher. Several instances occurred of persons who perished Through iabsolute want ; and the pgor were every where in the utmost distress. A commiftee of the house of commoas was appointed to consider of the lighb price of cord,

They drew up and entered into an engagement to use only brown bread, and renuce the consumption of whe A in their fanilies by every possible expedient. This engagement was signed by the principal persoas in the ministry, and great numbers of the men-, bers of both bouses.

On the e9th of October, the king openeif the session of parliament. Immense crowds were assembled, who at length became riotous, loudly exclaiming. "No wart No Pitt! No famine!? A few voices, it is said, were heard to excluim, " Down with George !" In the park and in the streets adjacent to Westminster-hall, some stones and other things were thrown, nine of which, it is asserted, struck the state coach, and ont of them, which was suspected to have proceeded from a window in Margaret-street, near the Abbey, perforated one of the windows by a small circular aperture, from which circumstance, it was supposed by some to have been a bullet, discharged from an airgun, or some stmilar eagine of destruction, but no bullet was found, and whatever it was, it neither touched the king nor the eeblemen who attended him. Is his majesty returned from the house through the park, though the gates of the horse-guards were shar, to exclude the mot, this precaution was not sufficient to prevent a rencwat of the outrages, and another stone was thrown at the carriage as it passed opposite to Spring-gardea Terrace. After the king had alighted at St. James's, the populace attacked the state carnage, rad in its way through Pall-Mull to the Mews, it was almost demolished.
In consequence of these daring insilts and outrages, a proclamation was issued, offering a reward of 1000 , to any person or persons, other than those actanlly concerced -in doing any act by which his majesty's royal person was immediately eadangered, who should give informetion, so that any of the authors and abettors in that outrage might be apprehended and brought to justice.

Several persons were apprebended on suspicion of having insulted his majesty, one of whom, named Kyd Wake, a journeyman printer, was brought to trial, and found guilty of looting, groaning, and lhissing at the king. He was sentenced to stand is the pillory at Gloucester, on a naarket day, to be imprisoned and kept to labour during five years, in the penitentiary house at Gloacester, and, at the expiration of his, imprisonment, to find security in one thousand pounds for his good bebavioy for ten years.

In the two houses, after an address had been voted, testifying their indignation and abhorrence at the daring outrages offered to his mijesty, two bills were immediately brought in ; the one by lord Grenville, in the opper house, entitled, "Ah act for the safety and preservation of his majesty's person and government againist treasonable and seditious practices and attempts :" and the other by Mr. Pitt, in the house of commions, entifled, "An act to prevent seditious meetings and assemblies." These bilh were vigorötsly opposed in both bouses, though only by the ustal mincrities in point of newbers. Petitions, with very numerous siguatures, were likewise presented against them from every part of the kingdom. They, fiowever passed, and are now beconee a part of the law of the land.
-The beginning of the year 1797 was disfinguished by as cxtraordinary an event an periaps ever occurred in this or uny other war-the invasion of Great Britain by a force of 1800 men, without artillery, and almost without accoutrements. The alarm at first was genenal and great throughout the whole of Pembrokeshire, on the coast of which the landing was made; but the men sarrendered, on the approach of a very inadequate force, and almost without resistance. On inquiry, it appeared that they consisted entirely of galley-staves, and other criminals from Brest; and the object was suppesed to bo at once to create analarm on the British coast, and to rid the French repuoblic of a number of desperate persons; but whatever the intentions of the enemy thight be, they met, on the whole, with a complete disappointinent ; for not only the expiedition proved entirely fruitiess, but as two of the ships which disembarked the menwere returning into Brest barbour, they were captured by the St. Fiorenzo and Nymph frigates.

The apprehensions excited by this circumstance had scarecly subsided, when a more serious cause of alarm occurred to agitate the minds' of the public. The bank of England discontinued the issuing of specie in their eustomary payments. A run (to speak. in the commerciai phraseology) had taken place upon some of the country banks; and the great demand for specie from the bank of Eugland induced the directors to lay the state of their company before the minister; in consequence of which, an order of council was made on the $26 t h$ of Fetiraary, prohibiting the further issue of specie from the bank. This order was atterwards sanctioned and ratified by an act of parliament, by which the restriction was continied to midsummer, and afterwards by another act, con . tiouing it to the end of the present war.

On the third of March, governtnent received intelligence of an important advantage obtained by the British flect, under the command of sir John Jervis, over a Spanish fleet of much superior force, on the 1 th of February, off Cape St. Vincent. The English admiral, by a succeasfal manceurre, separated the rear of the enemy's fleet from the main body, and caplured tion ships of 112 guns, ope of 84 , and one of 74.

The seamen of England, however, who had so long heen the defence and the glory of the natide seemed suddenly to conspire its overthrow. In the middte of April, a most alarming unatiny broke out in the Channel fleet at Spithead, under the command of lord Bridport. The sailors required an advance of their pay, and certain regulations to be adoptyd relative to the allowance of provisions. They appointed delegates, two for each ship, who for several days had the entire command of the whole fleet, over which no officer had the least authority. In this critical situation, governuent deemed it post expedient to promise a full compliance with all their demands ; on which they cheerfully returned to their duty. But in a week or two afterwards, no act of indemnity having been offered in parliament for the security of those concented in the mutiny, ticy again rose, deprived their officers of their authority, and the dispute seemed to wear a more gloomy aspect than before. A bill, securing to the seamen what they had been promised, was therefore hastily passed through both housas, Vol 1
and ford Howe sent dowit to Portsmouth to act as mediator. The delegater of the fleet declared themselves satisfied, and harmony and good order were immedi-- ately restored.

The ferment, however, still continued in other parts of the navy, and soon after the seamen of some ships lying at Sheerness began to mutiny, and belaved riotously, and so contagious was the spirit of insurrection now become among the seamen, that almpt all the ships of armiral Duncin's fleet at Yarmouth appointed delegates, and sailed to the Nore, to join the ships from Sheerness. New grievances were required to he redressed, and new and extravagant demands to be complied with; government was now conviuced that to yield would be only to encourage a repetition of similar proceedings, and every disposition was therefore made to force these slips to submission. All conmonication. between them and the shore was cut off, and no provisions or water suffered to go to them. The mutineers, to supply themselves with these, detained all vessels coming up the river, and took out of them whatever they chase, for which their delegates, the principal of whom was one Richárd Parker, a man of strong natural abinities, gave draughts on the treasury, as taken for the ase of the navy of Eogland. At leagth, being reduced to great want of water, and dissentions and distrust prevailing amoug thensselves, several ships left the mutinous flect, and sarrendered themselves at Sheerness. Some of these were fired upon by the others; but at leugth they all came in and gave up their delegates, who, with a number of others that were considered as principals in the mutiny, were tried by a court-inartial. Some of them were executed; others sentened to different punishments, and the rest pardoned. Richard Parker was the first who was tried and executed. He displayed great presence of mind, and suffered with the utmost fortitude.
As if to erase this stain from the anmals of the British navy, the fleet of admiral Duncan, consisting principally of the ships which had been engaged in this unhappy and diso graceful muting, sailed soon after to wateh the motions of the Dutch fleet in the Texel, where it remained for some timie blockaded, till, on its ventoring out, an engagement ensued, in which the English fleet obtained a complete vietory, taking the Dutch adairal De Winter, the vice-admiral, and nine ships.

The principal events of the succeeding year having taken place in Ireland it is necessary to give a retrospective view of the affairs of that kingdom, that ti readers may thus be enabled the better to understand the occasion of those contery ons which bave been attended with such a profuse waste of the blood of British subjec s.

The forfeitures that fell to the crown, on account of the Irish rebellions and the revolation, are almost incredible; and had the acts of parliament which gave them avay been atrietly enforced, Ireland must have been peopled with British inbabitants. But many political reasons occurred for not driving the Irish to despair. The irieuds of the revolution and the protestant religion were sufficiently gratified out of the forfcited estates. It was therefore thought pradent to relax the reins of government, and not to put the fofeitures too rigorously into execution. The experience of half a ceatury has eunfirmed the wisdom of the above considerations. The lenity of the measuret
pursued in regard to the Irish Romari catholies, and thig great pains taken for the in, struction of their children, with the progress which knowledge and the arts have made in sbat country, have greatly dimimished the popish interest. The spirit of industry has enabled the Irish to know their own strength and importance, to which some accidental circuunstances have concurred. All her ports were opened for the exportation of woot and ifoolten yaris to any part of Great Britain; and of late years, acts of parliament have been made oceasionally, for perinitting the importation of salt beef, pork, butter, cattle, and tallow, from Ireland to Great Britain.
Bot though some laws and regulations bad oceasionally taken place favourable to Ireland, it must be acknowledged that the infiabitants of that country laboured under considerable grievances, in consequence of certain onjust and imjudicious restraints of the parliainent of England respecting their trade. These restraints had injured Ireland, without benefiting Great Britain: The Irish had been prohibited from manufacturing their own wool, in order to favour the woollen manifictory of England; the consequence of which was, that the trish wool was smuggled over into France, and the people of that country were thereby emabled to rival us in our woollen manufacture, and to deprive us of a part of that trade. An embargo had atso been laid on the exportation of provisions from Ireland, which had been extremely prejudicial to that kugdon. The distresses of the Irish manufacturers, as well as those of Great Britain, had been much increased by the consequences of the American war. The circumstances oceasioned great murmuring in Ireland, and some attempts were taade for the relief of the inhabitants of that kingtom in the British parliameat, but for some tiaie without saccess; for a partiality in favour of the trade of England, prevented justice from being done to Ireland: But several incidents, which happened afterwards, at length operated strongly in favour of that kiugdom, When a lurge boily of the king's troops had been withdrawn from Ireland, is order to be employed in the American war, a considerable number of Irish gentlemen, farmers, traders, and other persons, armed and formed themselves into volunteer companies and associations, for the defence of Ireland against any foreign invaders. By degrees, these volunteer associations became numerous and well disciplined; and it. was soon discovered that they were inclined to maintain their rights at home as well as to defend thyiselves against foreign enenies. When these armed associations became aumerous and fruidable, the lrish begun to nissume a higher tone than that to which they had been ace stomed, and it was soon manifent that their renionstranens met with moosual atteotion, 0yth from their own parliament and from that of Great Britain. The latfer, on the 11th of May, 1779, presented an address to the king, recommending to his majesty's most serious consideration, the distressed and impoverished state of the loyal and well, deserving people of Ireland; and desiring him to direet that there shouldbe prepared and laid before parliament, such particulars relative to the trade and manu-l factures of Great Britain nod 1reland, as should enable the national wisdom to pursues effectual measures for promoting the common strength, wealth, and commerce, of hisy thinjesty's subjects of both kingdoms.
To this address the king returned a' favourable answer; and in Octaber; the same: year, both houses of the Irish parliment also presented addresses to /his rajjesty, ial
which they declared thay nothing but granting Ireland a free trade could save it from ruin. Notwithstanding which, it bejog soon after suspected by many of the people of . that kingdom, that the members of their parliament would not exert themselves with vigour in promoting the interests of the nation, a very daring and numerous mob asserrbled before the parliament-bouse in Dublin, erying out for a fice trade and a short money-bill. Thicy assaulted the members, and endeavoured to compel them to swenr that they would support the interest of their country, by voting for a short money-bill, and they demolisited the house of the attorney-genenal. The tumult at fength subsided: and two Irish money-bills, for six months only, were sent over to England, where they passed the great-seal, and were immediately returned, without any dissatisfaction being expressed by goverument at this limited grant.

In the mean tinc, the members of the opposition in the English parliament very strongly represented the necessity of inmediate attention to the complaints of the peoplo in Ireland, and a compliance with their wishes. The arguments on this side of the question were also cuforced by the accounts whieh came from Ireland, that the volunteer association in that kingdom amounted to $\$ 0,000$ men, umpuid, self-appointed, and isdependent of government, well armed and sccoutred, datly improving in discipline, and which afterwards increased to 80,000 .

The British ministry appeared for some time to be undetermined what part they should act in this importank business ; but the remembrance of the fatal effects of rigorous measures respecting America, and the very critical situation of Great Britain, at length induced the first lord of the treasury to bring in such bills as were calculated to afford effectual commercial relief to the people of Ireland. Jaws were accordingly passed, by which all these acts were repealed, which had probibited the exportation of woollen manufactures from Ireland, and other acts by which the trade of that kingdom to foreinn countries had been restrained; and it was likesise enacted that a trade between Irelaid and the British colonies in America, and the West lidies, and the British settlements on the coast of Africa, should be allowed to be carried on in the same manner, and subjectto similar regulations and restrictions with that carried on between Great Pritais and the said colonies and settiements.

These laws in favour of Ireland were received with much joy and exnitafon in that kingdom ; and the Irish nation, being indulged in their requisitions respegng trade, now began also to aim at important constitutional reformations; and in various counties and cities of Ireland, the right of the British parliament to make lawf which should bind that kingdom was denied in publie resolutions. By degrees, the spifit which had beea manifested by the Irish parliament seemed a little to subside; and a remarkable instance of this was, their agreeing to a perpetoal mutiny-bill,-for the regylation of the Irish army, though that of Eagland had always been passed, with a true consuzational caution, ooly from year to year. This was much exelaimed against by some of the Irish papists, and indeed it is not easy to clear their parliament from the charge of incorsistency; but this bill was afterwards repealed, and the commercial advantages afforded them by several acts in their favour, greatly contributed to promote the prosperity of Ireland. As before observed, by the act repealing the statute of the 6 th of Georgo I.
they were fully and completely emancipated from the juitisiliction of the British parliament; and the appellant jurisdiction of the British house of peers in Irish causes was , likewiso given up.

- In the year 1789, the government, the nobility, and the people of Ireland, vied with cach other in countenancing and giving an asylam to many families of the Genevese, who kere banished from their city, and others who voluntarily exiled thenselves for the cause of liberty, not willing to submit to an uristocracy of their own citizens, supported by then swords of France and Sardinia.

A large tract of land in the county of Waterford was allotted for their reception, a town was marked out, and entited New Geneva, and a sum of money granted for erecting the necessary building'. These preparntions for their accommodations were, bowever, rendered ultimately useless, by sonie misumderstanding (not filly comprehended) which arose between the parties ; and the scheme accordingly felt to the ground.

Upon the occasion of the unhappy malady with which the king was afflicted, the lords and commons of Ireland came to a resolution to address the prince of Wales, requesting him to take upon hian the government of that Kingdom during his mejesty's indisposition, under the stile and title of prince regent of Ireland, and to exercise and administer, according to the haws and constitution of the realm, all the royal authorities, jurisdictions, and prerogatives, to the erown and government thereof belonging. The marquis of Buckingham, being then lord-lieutenunt, having declined presenting the address, as contrary to his oath and the laws, the two houses resolved on appointing delegates from each: the lords appointed tho duke of Leinster and thie earl of Charlemont; and the commons, four of their members. The delegates proceeded to London, and, in February, 1759, presented the address to lis royal highness, by whom they were most graciously reccived; but his majesty having, to the infinite joy of all lis subjects, recovered from hifs severe indisposition, the prince retumed them an answer, fraught with the warmest sentiments of regerd for the kingdom, and of gratitude to parliament, for the generous manner in which they proposed investing him with the regeney, though the happy recovery of his royal father had now readered his acceptance of it unnecessary.

The parlingent of Irclind lins extended liberat iodulgences to the Roman catholies of that kingdom, $\mathbf{y}$ establishing the legulity of juter-marriages between them and the pro festants, by ardmiting them to the profession of the law, and the bencfit of edacation, and by removing Ill obstructions upon their industry in trade and mandifactures. A recigrocal preference in the corn tride with Britain hits been established. Further progess has been made in checking the immoderate use of spirituous liquons; and some "IFec institationts beve been ordrined for the regulation of claritable foundations.

In the year. 715 , mimensequence of the concestions of government, a bill passed the Yguanture, by which the Romai catholics, being treeholders, are entitied to yote for pombers to serve in pariament. The patriots of Ireiand have been less successful in tieir attempts to procure a refocm in parliament itself, as, notwithstanding the resoldtion in the beguning of the session, to inquire into the state of the representation, Hotling

Vol. I.
: 6 L
effectual has been done ; the times, it is alledged, discouraging useful innovations from tice just dread of rufnous or hurtful ones.

Notwithstanding the catholics of Ircland had been restored, in some measure, to their, civil rights by the concessions of the elective franchise, it does not appear that either their own leaders or their parliamentary adherents were satisfied with what had been granted, or were likely to be contented with loss than a total repeal of all remmining disqualifications; and when, in the beginuing of the year 1795, eari Fitzwilliam was uppointed lord tieutenant of Ireland, after the accession of the Portland party to the administration, they considered the point in dispute as absolutely conceded by the ministry.

A committee was therefore appointed to bring forward a petition to parliament, for a repeal of all remaining disqualifications. Notice of this his lordship transmitted to the minister, stating at the same time his owa opinion of the absolute necessity of concession, as a measure not only wise, but essential to the public tranquillity. To this no answer was received, and on the 12th of Pelaruary, Mr. Grattan moved for leave to bring in a bill, for the further relief of his majesty's subjects professing the Roman catholic religion; and after a feeble opposition, leave was given. By the intrigues, however, of another political party, at the head of which was Mr. Derestord, a gentle= man who lad united in his own person, or in that of his-son, the importont and discordant offices of minister, commissioner of the treasury, of revenue, counsel to the commissioners, store keeper, and banker, the measure was defeated, and lord Fitzwillian suddenly recalled. His lordship left Dublin for England, on the Q5th of Marel, which day was observed in that city as a day of general mourning ; the shops were shut, no business was transacted, and the citizens appeared in deep mourning. In Collegegreen, a number of respectable gentlemen, dressed in black, took the horses from his excelleney's carriage, and drew it to the water side. His lordship wished, as usual ou such occasions, to distribute money; but, with the noblest enthusiasm, the offer was rejected, even by a mob. The military had been ordered out, in expectation of some disturbance, but nowing appeared among the populace, but the serious emotions of sorrow, and the utmost order and decorum.

Earl Cambden, who was appointed to succeed lis Iordship, arrived in Dyblin on the 31st of March. The whole system of administration was now changed/ all ideas of concession on the part of government were abmadoned, and coercivg neasures ulone employed to silence all complaints. Of this harsh and unyielding fstem, the factious and disaffected took advantage to promote their designs, and increale the numbers of their adherents.
About the begining of the year 1791, the society which has since became so notorious, under the name of United Irishmen, was instituted; the ostensible principles of which were parliamentary reform, and what they chose to term catholic emancipation, or a full restoration of the catholics to all the privileges of Irish subjects. This society if said to have owed its origin to a person, whose life has since paid the forfeit of his trea sonable intrigues, Mr. Theobald Wolfe Tone, and its constitution certainly evinced much ability and political knowledge. The real views of the muthors and leaders, which 9

Matterly at least appear to live been rio less than to eftect a topel separation of tie coumtry from Great Britain, and the erection of a repmblic, after the plan and under the -protection of France, were probably scarcely mistrusted by the great body of the niembers.

The first and principal article expressed that "the society was constituted for the purpise of forwarding a brotherliood of affection, a commuuity of rights, and an union of power among frishmen of every religions persuasion, and thereby to obtain a complete reform th the legislaturg, founded on the principles of civil, political, and religious liberty." For several years this society, from the secrecy and circumspection with which its affairs were conducted, attracted but little the atteation of government. Hut the violence of party disputes, which foilowed on the recal of earl Fitzvilifan, considerably increased the number of its attierents, and added to them sevent persons of abilities and influence, in particular Mr. Irthur O'Connor, who had distinguished himself by this able support of earl Fitzariliam's administration in the house of commons; Dn M1'Nevin, who had been chairnan of the comtaittee for enforcing the claims set forth in the catholic petition; and Mr. Oliver Bond, an opulent citizen of Dublin, who had been an active supporter of the same principles. From the confession of these very persons, it appears, however, that when they joined the society, the viens of its leaders were no loager confined to parliamhtary or constitutional relief of any kiud; since, in the year 1795, through the medium of Mr. Tone, and other Irish refugees, who had fled to France, a regalar communication was opened between the French directory and the United Irishmen; and in tho course of the suminer of 1796, lord Edward Fitagerald proceeded to Switzerland, and had an interview near the French froutier, with general Hoche, when it is believed the whole plan of an invasion was finaily adjusted. An attempt to carry it into execution was made in the December following, when the French fleet took the opportunity afforded by a thick fog, to elude the vigifance of udmiral Colpoys, by whom they had been for several noonths blocked up in Brest, and vet sail for Ireland. But the fleet was dispersed by violent storms: a part of it, however, consisting of eight two-deckers, and nine other vessols of ilifferent classes, anchored on thie 24th in Bantry bay. The violence of the weather preventing any attempt to effect a landing, thoy quitted the coust on the 97 th in the evening: but an officer and seven men were driven ox shore, in a boat belenging to one of the French ships.- This officer, upon examination, streed, that the fleet, when it left Brest, consisted of about 50 sail, and that it had on board $\$ 5,000$ men, counnanded by general Hoche. A considerable degree of alarm was excited In Ireland, by the appearance of this armanent, but the people in generat in this part of the kingidom evineed the vost determined loyalty, and manifested the greatest readiness to meet and resist the enenny, whenever they might attempt a descent.

The failure of the expedition under Hoche did not, however, discourage the members pf the Irish union; they, on the evontrary, endeavoured more firmly to cement their allihace with Erance, and establisbed a regular commanication and correspondence with that country. New arrangements were made for an invasion, and Dr. M'Nevin, about Whis time, trunswitted to the French gosernment a niemorial, in which he stated that

## BRITISH EMPIRE.

. 50,000 United Irishmenewere enrolled and organised in the province of Ulster. During the summer of 1797, great preparations wene therefore made for a second attempt, f both at Brest and in the Texel; it having been deternined that the Duteh should supply a fleet and land forces, to co-operate in this design. Ihut this plan was rendered abof tive, by the memoratle victory of lord Duncan over the Dutch fleet, on the 11th of October of that year.

In the beginning of the year 1798, Afr. O'Connor came to England, with an intention, as it ifiterwards appeared, of going over to Franice, in conjunetion with Juhn Jians, an active member of the Loadon Corresponding Society, James Coigley, an Irish priest, and a person of the name of Allen. Being. however, suspected, they were apprehended and tried at Maidstene, where they were all nequitted except Coigley, on whom lad been found at treasumatite, though extremedy atmurd paper, purporting to be an address from the " Secret Committen of Englond to the Executive Directory of France.' He was therefore comvicted and execited. O'Conmor, after his acquital, vas detained on another charge of treaion preterred againat him, and sent back to Ireland.

In the course of these different negotiations with the enemy, the violence of ponte of the disaffected party in Trelanif could scarcely be restrained from breaking out into open insurrection, witiont swating for the promised ilssistance frou the Gallic repeblic; but they wore over-mted by those ntio hitit wore cootimes and curtion. Thic goverament of lreland, in the mean time, received only obseure and perplexed intelligence of these proceedings, which appear to have been conducted with so much art and secrecy, as to prevent administration from discovering, for a considerable time, the real views and conduct of the society. Bat at length they recefved information, that a sedifions meeting was to be held at the house of a person of the name of Alexaniter, at Betfast, on the 13th of Aprit, 1797 ; and, in consequence, colonel Barber, with a detachment of soldiers, proceeded on that day to the place of mecting, where he found two socictica of committees actaally aitting, and siczed ticis papers anit minutes, among which were the pritited declarations and constitution of the United Irishmen, various reports from provincial and county committees, and several other important documents, which fett them no longer in doubt respecting the extent and views of this formidabif conspiracy. About the same time likerise the ungistrates, in other parts of the kingd/nis, discovered other papers that were circulated by the societv, and which kerved ry conitirn the discoveries already made, and to throw additional light on the procy ftings of the conspirators.

The most setive and vigorous measures were now adopted by governmont; a very considerable addition was mate to the mifitary foree of the kingdom; a bill kas passed, prohifiting seditions mectings ; the habens corpus act was suspended; whole countics were proclained out of the king peace, and seizures , made of great quantities of conceated arims:

In the enforcement of these measures, many nets of rigoun, und even cruelth appear to have boen commited by the agents of government; but it should be at the same time remenberet, that numerous acts of atrocions barbarity wero likewise
committed by the robels. Theloyalists knew, that if the sebiomes of their enemies proved successfult, thio plander and confication of their property was tye least evil they bad to fear. Thie concealment aud obscurity of the darger, they lanew to be imminent, might well excite a dread, which rendered then incapable of listening to the dietutes of modeThion, or even, in some cases, of justice.

These figorous meusures were, likovise, in some degree, still forther jastified, by the more eomplete discovery which government soon after made of the thaitorous desigus and proceedings of the society. Among other members of it was a Mr. Meynoids, who had formerly been a silk manufacturer of some note in the city of Dublin. He had been sworn an United Irishman, in Pebruary, 1797, and in the winter following appointed treasurer for the county of Kildare, in which lie resided, and ulso a colonel in the rebel army. This person, whetber moved by remorse and retarning love for his country, or by other motives, it is not necessary to inquire, disclosed to goverament, about the latter end of Fetruary, 1798, tie nature ami extent of tie conspiracy, and a meeting of delegates being summoned for the 12th of March, at the house of Mr. Oliver Bond, he gave information of it, in consequence of which fourteen of the delegates were apprehended, with their secretary, MCan: and at the same time, Dr. M'Nevin, coun sellor Dmmett, and some other active unembers of the societies, were taken into castody. A warrant had been issued ugaint lord Edivard Fitzgerald, but he escaped; he was afterwards, howover, discovered in the place of lis concealment, when, on the police officers entering the room, the unluppy nollemme made a desperate defence: he wounter two of the principal of thein, Mr. Jutice Swan and captain Ryau, dangerously, and was liimelf so severely wounded, that be languished a few days only before he expired.
The seizure of the delegates gave a fatat blow to all the plans of the United Irishmen. A new directory was cbosem, but their proceedings were soon disclosed by another informer a captain Armstrong, who find pretented to enter into the conspiracy, with the intention of discovering their schemes, and betraying thein to government. Tho contuition and alarm into whith the rebels were thrown by the discovery of their plots, and teprehending of their leader, determined them to make a desperate effort, and a general insurrection was resolved on by the military committee, to take place on the 29d of Mor ${ }^{\text {b }}$; but government boing perfictly informed of the intentions of the conspirators, eat severul of thic principal of them to bo apprehended ; on the 19th and 21st, the city an county of Dublin were proclaimed by the lord licutenant and council. in a state of instin pction ; the guards of the castle, and all the principal objects of attack, ware trebled, Ind the whole city in fact converted into a garrison. The infitu ated inultitude, however implicitly obedient to the directions they had reecived fron their leaders, roso at the time appointed, in various parts of the country; and, on the S5th, appeareत in great force, their number amounting to not less than 15,000 , io the neighbourtiond of Wexford and Enaiscorthy, and attackiod and cut in pieces the whole A a party of the North Cork militia, except colonel Foote, and two privates. They Sen made an attack, on the 2sth, on the town of Enniscorthy, which they carried Vols 1.

509

## BRITSII EMPPIRE.

sword fo hand; and on the 30th made thoinsclven masters of Wexford, whene they liberated from prison My. Beauchamp Bagenal Ilarvey, who was aftervards nominated to the chief command of their army. Under lim, as their general, they attacked the towny of New Ross, but wero repulsed with great slaugbter. They were likewise repulsed in ticir attacks on some other places. The royal forees, however, suffered a check om the 4 bh of June, when the strong post of the robals being attacket by colonel Walpole, he was unforturntely killed in the begianing of the action, and lite carps, being in a situation in which it was umble to nct, nas forced to retine to Arklow. Rncouraged by this sucecss : thic retel army, on the gith, iferunted io. if tefore Arktow, where gencral Needbam consmanded a considerable bolly of the kith troops ; but the position that general had taken, and the dispositions he made, were such, that, they were defeated with great lass.

On tho elst of Jume, general Lake made his grand attack on the strong position of the rebiels on Viuegar hill, near Emniscorthy, having grudually collectei troops from erery part, till be had ahmost surromded them. They maintainsd thair groand obstinately, for an hour and a halif, bat at leogth fod with precipitation, leaving behind them
 calibres.

Inmediately after this action, a large body of the kings, forces advanced to Wexford, which general Moore entered so opportumely as to pirevent the town from boing laid in athes. The rebels, before they evacuntet the town, offered to treat; thut general Lake refused to sigo any terms with rebels with arnis in their hands; though to the deluded. multitude he promised pardon, on condition of delivering up their learers and returning to their allegiance. The rebel troops immediately evacuated tie tomo; their general, Magenal Harveg, bat quittei then soon aftr tict tatto of New Trots, frat being discovered and tulien with some others in a cave, fo was tried by a court marial, and exccoted on the bridge of Wexford.

In the begiming of June, Alarming commotions likewise took place in the north of Ireland, and the insurnection soon becamo atmost genemf in the coastios of Down and Antrim; but on the 12th, thio reliels received a complete defeat at Mallymitinck, where they lost upwards of 400 men. They fought with great obstindey, and their leader, Mfunro, onas taken prisoier, and afterwants execited.

The English govemment, in the mean time, though nos dissati fied ford Camden, resolved to give Irctand a military Jord-ficutemban ; and the pyila Comualis arrived at Dablia in that capacity, on the goth of Juve, and immery ftely assumed the reins of goverument. The conduct of his lordstip was temperate find judicions. On the igth of July, he sent a messame to the liouse of commons by lord Catereaih, intimating that he fiad recelved his majesty's commands to acquaint them "that ho had signified his gracious intention of granting a general pardon for all offecnees, conmmitted on or before a certain day, upon such conditions, and with such exceptions as might be compatible with the gencral safery." Ifut "t these offers of mercy to the repentany were not to preclude measures of vigour aguinst the obstinate"t

- A special commission was mow mpenat in Dublie, for tha trial of the priacipal delinquents, several of whom were tried and executod. Among thew Mr. Oliver Bond was tried, couvicted, and condemned, and iis lifs fite the other conspirators began to foreteee their own. Thio rebellioutippeared to bo coupletely crushed; the fugitive rebels were every whero returning to their allogiance, und delivering up their arms, and no hopg, remained of any effectuat nssistance from France. In this situation, an negotiation was Apened betireen the Irish government and the state prisoners, the issue of which was, that goverument consented to pardon Mr. Boad, and desist from aoy firther prosecution of the Ieaders of the conspiracy, whio, on their parts, engaged to u ihio full consfession of all the proccediugre anil plans of the society; after witich they were to be permitted to transport theanctice to any coantry not at war with his wajesty. The informition they coinmunicated, was thid before the Iribh house of commons, ani has furpithed inaternis for thic trief decomit here ghtom. Mr. Oliver Bond survived his par* don only a Colv days, mat Mr. Aithur O'Conaon, Dr. MNevin, and the rest, after having been a considerable time confined in Ireland, were removed to prisons in Scotlind.

Aher fhe fittaro of the expertition uider gricrat Ifoche, France, fortunately for Great Britain, made no attempt to assist the Irish insurgents till it was too late ; and the afid they then sent was very foeble, and inadequate to the end proposed. On the
cod of August, some frigates and traneporss from France appeared in Killala bay, und limited atout 1000 meit, with a guantity of arms and ammenithon. The number of insurgents who joiued the invaders was not considerable; but the Preneh general Humbert, ty his condact, proved himself an officer of ability, and worthy of command, whire thind mas a filior prospect of success. Te adwaced, williout lass of time, to Cisthebar, whern gemeral Likevoas collecting his forees, attueked, ind compolled Lim to retreat, with the loss of six pirces of cannos and a few men, aftor which ho rdvancel towards Tiam; bit on the 7th of September, the marguis Cornwaltis came up. whth the Frenchin the vichity of Cistrebar, when chicy reticated, and the nest morn-
 Heem were digersed, and a great number of them killed or taken.

Another etfort wats aftorrards mate by the French, 10 sumport, or rather to refrindte, (Xe flomes of rebeltion in Ireland On the seventeenth of September, a floct suifed Y in Prance consisting of oind ship of the line, thic Hoctic, and eight frigates, with Dops and ammunition on board, destined for Ireland; bat this armameat was complefy defeuted, by the squadron under the command of sir Johin Borlase Wirren.

The few remuining troops of rehels, who were disporsed among the woods and mountains, now succearively laid dowa thicir arms. A chief; of the namo of Holt, at the head of a number of handiti, continued for some thae to commit depredarions in the mountainous farts of the county of Wichlow; but at last it was believed that ho made terms with government, and was permitted to save his life, by rellinguishing for ever his native 3 Sountry.

Exery estimate of the number of those whin lost their lives in this deplorable contest ${ }^{\circ}$ must necessarily be vague and uncertain. Some liave stated it at 30,000 , while others have swelted it to 100,000, of whom, they aity, pine-tenths were of the insurgents; the foss of the royalists being about $10,000 \mathrm{menh}$. Slaughter and desolation have at length procured a kind of peace ; but the geat problem is to discover by what means the flames of discord may the prevented fiom bursting out africil. As the most elfectuat preventative of a repatition of these calamities, government recommended, and carried into effect, a legislative union of the tiro kingdoms. A proposition for such an pnion was submitued to the parliament of England and Ireland on the sume day, January 2end, 1799, and in both houses of the English pardiament, the address, which is considered as an approbation of the measure, passed without division. A simitar addreas was carried in the Irish house of lords by a majority of 33 , but rejected in the commons by a majority of tiro, whica the next day increased to six rggainst the measure, which was therefore laid aside for the time.
Government, however, by no means totally abandoned it ; for in the beginning of the next session on the 15 th of January, 1800 , the proposition was again submitted to the parliament of Irefand; when the address in the house of lords passed without a debate, and, after an nnimated discussion in the commons, whicb lasted till the noon of the following day, was approved by a majority of 42 . The articies of this union, which have siace been votcil, import, That the king đoms of ©rat Brituin and Ireland shall, upon the Ist day of Junvary, which shail be in the yeer of our Lord 1801, and for ever after, be united inta one kingdom, by the name of the United Kingdom of Great Britain and lrcland :" "t that of the peers of Ireland at the time of tho inion, four spiritual lords, by rotation of sestions, and 98 temporal peers for life, aball be the number to sit and vote in the house of lords; and that 100 commoners, viz. two for each county of Ireland, two for the city of Dublim, two for the city of Cork, and one for each of the $\$ 2$ most considerable cities, towns, and borouglo, be the number of the representatives of Irelamd in the house of commons of the paritament of the United Kingdom"
It is atso provided by these articles "that, for the space of e0 ycars after the union shill tike place, the coatribution of Great Brituin and Ireland respectively torrards the expenditure of the United Kingdom in each year shall be defrayed in Aie proportion of fitteen parts for Girear Efritain, and two parts for Ireland," y/s proportion at the explration of that time to be aubject to revision and rogulation fom other consideratious.

How far this plan of union will prove a remedy for the distreled condition and discontents of the poor, time must discover. At first view it seems difficult to say how a legislative union can remove the cawse of the civil commotions which .. have lately distracted that unfortunate kingdom ; horr it cas lessen religious prejodices, or prevent, what it seens rather calculated to increase, the expenditurn of Irish property at a distance from the country wherice it is derived. Yet must it not be denied that unity in goveramerit has many advantages, and is indeed easentially necessary; and

## BRITISH EMPIRE.

that a close connection and firm, consolidation of the three kingdoms, with an impartial and equal distribution of protection and rights, fairly graked and faithfully maintained, must tend to infuse new life into every part of the united nation, while it adds ;
-iv the prosperity, the wealth, and the power of the whole.
The treaty of Amiens, thet procured a short interval of peace, and the renewal of liostilities in 1803, will be discussed in that part of our work which relates to Prance.

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Vol. I.

## CHAPTER XVII.

Pafsent State of the Betersh Emptir-_The Constitution-the King-his Duties and Prerogatincs-the Pcert-thioir Title, and Privileger-the Commons -the forms of enacting Laws and transacting other business in Parliament-the Erecative Power-Privy Council-Cabinet, \&oc_-Recemuer-Taxes-National Debt -Different species of Srock-Bank of Englaud, sco,-the Army-the Nany -Titles of Honotr-Orders of Kuighthood, sic:-Lames-Administration of Public Justice-Ecclesiastical extablishment of England aud Ireland-of Soos-land-Catholic and Protestant Dissenters_Jews, Free-thinhers, fo.-Religious and Boneoolent Sucletics-Uniwersitics-Pablic Schools-Literary SicidiesPresent State of British Literature-Agrictulture-Manufactueres-Commerce-Population-Prescat State of the principal Citier and Towns in England, Wales, Scotland, and Ircland.

WHOEVER wishes to become acquainted with the present state of the British Enpire, must have lis attention first of all attracted by tho nature of that constitution; to the excellencies of which we are indebted for so many blessings, and the security of which it becomes us to watch with tho mort joalous caution, The term Constitution signifies the form of government which is established in any country or kingdorn. The origin of that of Britain we have already traced from the times of our Saxon anceators, related its progress through diffcrent ages, ofid its many escapes from the most ruminent danger of being crushed by the strong hand of monarehial power, or torn to pieces by aristocratical or democratical marchy. It oaly remains, therefore, to describe tho nature and operation of the three great parts of which it is composed, namely, the king, the lords, spiritual and temporal, and the house of compuons the representatives of the people.

The supretse executive gorcrument of Great Britain and Irclang is vested by our constitution in a single person, king or queen ; for it is indifferent, to which sex the crowi descends : the person entitiod to it is immedintely entribted with alt the ensigns, rights, and prerogatives of sovereign poirer. To understand the royal rights and authority in Britain, we must consider the king under six distinct views. lot. With regard to his title. Ind. To his royal family. Srd. His councils. 4th. His dutics. 5th. His prerogative. 6 th. His revenue.

First, His title. The grand fundamental maxim, upon which the right of succession to the throne of these kingdoms depends, is, that the crown, by common law and constitu tional custom, is hereditary, and this in a manner peculiar to itself; but that the right

## BRITISH EMPIRE.

 of inheritance anay, from time to time, be changed, or limited by act of parliameat : under which limitutions, the crown still continues hereditary.On the death of queen Elizabeth, without issue, it became necessary to recur to the . other issue of Ler grandtather, Henry VII. by Etizabeth of York, bis pucea; whose eldeat daughter, Margaret, having married James IV. king of Scotland, king James VI. of Segtland, and of Eagland the first, was the lineal descendant from this allianee. So that in his person, as clearly as in Henry VIII centered all the elaims of the different competitors, from the Norman invasion downward; he being indisputably the lineal heir of William I. And, what is stif more remurkable, in his person centered all the right of the Saxon monarchs, which had been suspended from the Norman invasion till his suecession; for Margaret, the sister of Edjar Atheling, the daughter of Eduard the Outlaw, and grand-daughter of King Edmund Tronside, was the person in whom the hereditary right of the Saxon kings, supposing it not abolishied by the conquest, resided. She married Malcolm 1IL, king of Scotland ; and Heary II. by a deacent from Matilda, their daughter, is generully called the restorer of the Saxon line. But it must bo ratemberei, thint Malcalin, by his Saxym gueen, had sots is well as daughters; and that the royal fautily of Scolland, from that time dowawarl, were the ©ffipring of Malcolm and Margaret. Of this royal family, king James I, was the lineal descendant, and therefore united in his person every possible claim, by ficteditary fight, to the English as well as Scottish tirone, being the heir of Egbert and William the "Norman,

At the revalution, in 1688, the convention of estates, or representative body of the people, declarkd, that the miscondact of James II amounted to an abdication of the government, and that the throne was thereby vacant. In consequence of this vacancy, and from a regard to the antient line, the convention appointed the next protestant heirs of the blood royal of king Charles I, to fill the vacant throne in the old order of succession, with a temporary exception or preference to the person of king WilJiam III.

On the impenting failure of the protestant line of king Charles I. whereby the throne might have become vacant, the king and parliament extended the setfenent of the crown to the protestant line of king James 1, viz. to the princess Sophia of Hanover and the heirs of her body, being protestants; and she is new the common stock, from whom the heirs of the crown desectid.

The true ground and principle upon which the revolution proceeded, was entirely a new case in polities, which had never before happened in our history, the abdication of the reigning monarch, and the vacancy of the throne thereupon. It was not a definsenee of the right of suceession, and a voiv limitation of tho crown by the ling and both houses of parliament : it was an act of the nation ulone, upon a conviction that there was no king is being; for in a full assembly of the lurds and commons, met in convention upon the supposition of this vacancy, both hooses ceme to this resolotion, that king James 11. having endeavoured to subvert the constitution of the kingdom, by breaking Sie original contract between king and people, and by the advico of jesnits and other Wieked persons, having violated the frodaniental Jaws, nod having withdrawn himself our of this kingdom, has abdicated the goverument, and that the throne is thereby vacant

## BRITISH EMPIRE.

They held that the miscondact of king James amonated to an endeavors to subvert the constitution, and not nufactual subrersion cr total dissolation of the govermment. They therofore very prudently voted it to umoant to no more than an abdication of the goveromena, and a chisequent vacancy of the throne, wherely the governuent was ailowed to subsith, though the executive magistrate was gone, and the kingly office to remixis, though James nas no lorger king. Thus the constitution was kept entire, ailich, upon every sound principle of governpent, must have otherwise fallen to pieces, had so pribeipal and constituent a part as the royal authority been abolisbed, or even sisspeaded.

Hence it is easy to collect, that the fitle to the cromn is at present hereditary, though mot quite so absolutely bereditary as formerly, and the common stock, or ancestor, from whom the desecat mast be derived, is also different. Formerly, the common stock was king ligbert, thien William the Conqueror, afterwards, in the time of James 1. the two common stocks united, and so conlimued, till the varnucy of the throne, in 1688: now it is the princess Sophtia, in whom the iaheritapee was vested by the new king nind parliament. Tormerly the doscent was alisolate, and the crown went to the next heir, without any restriction; but now, upon the newr settenent, the inheritance is conditional, Bcing limited to such ligirs ealy of the body of the princess Sophia, as are protestant niembers of the charfa of England, and are married to none lint prote tants.
Second, His royal family. The first and most considerable branch of the rogal farily, regarded by the laws of England, is the queen. The queen of England is either queen regent, quech consort, or queen dowager. The quecn regent is sha who holds the crown in her own right, as the first, and perhaps the second, queen Mary, queen Elizabeth, and queen Anie; amd aucls a one has the same pories, prerogatives, ights, dignitics, and duties, as if she lyat teen a king. But the quece consort is the wife of the Tifisuing king: and slie, by virtue of hes marriage, is participant of divers prerogatives aboro otfier women. She is a public person, esempt and distinct from the king; and not like other murried women, so closely connected as to have lost all legal or separate existence, so long as tho marringe continucs. She is of ability to purchase lands, and to convey them; to mako leases, and perform other acts of ownership, without the concurrence of her lord: hith separate coirts mind officors, not only in matters of ceremony, but even of lav; way sue und be sued alone, without joining her husband, and hath a separate property in goods as well as lands, and a rightit to dispore of them by will. The quloen baih altio many excmptions and minute prerogatives, as well as some pecintiry arivantages, which fona hor distinct revenue. Though she is in all erespects a subject, yot, in point of the security of lier life and person, sho is put upon the sanic footing with the kivg. It is equally treason to compass or imagine her death, as that of the King thinseff; and to violite or defile the queen consort amounts to the salific highe cringe, as well in the person comatiting the fact, is in the queen herself, if consenting
A queen comeger is the widow of the king, and as such enjogs most of the privilegef $s$ Which she hod when quern consort. No man can marry her without a special licencos from the King, and when married to a sutiject, she still retains her regal dignity.

The prince of Wales, or heir apparent to the crown, and also his royal consort, and

## BRITISH EMPIRE.

the princess royal, or eldest daughter of the King, are likewise peculiarly regarded by the lawi. For to compass or conspire the death of the former, of to yiolate the chastity of either of the latter, are as much high treason, as to conspire the death of the king, or violate the chastity of the queen. The heir apparent to the crown is usually made prince of Wales and earl of Chester by special creation, but, by being the king's ellest son, he is Ty inheritance duke of Cormwall.

The rest of the royal family may be considered in two different lights, according to the different senses in which the term is used. The larger sense includes all those who are hy any possibility inheritable to the crown. The more confined sense includes only those who are in a certain degrec of relation to the reigaing priace, and to whom therefore the law pays an extruordinary regari ; but after that degree is passed, they fall into the rank of ordianry sulyects.

No descendant of King George II. under 25 years of age, other than the issue of prinesses married into forcign families, is capable of contracting matrimony, without the previous consent of the king, simified under the great seal, and any marriage contracted withont such consent is void.

Third, His councis. In Pritim, the law, in order to assist the king, lathassigned him a diversity of councils to advise with. The first of these is the high court of parliament. The next is composed of peers of the realm, and may be called together by the king, to impart their advice either in time of parliament, or when there is no parliament in being Besides this general meoting, it is usually looked upou to be the right of each particular peer of the realm, to demand an audience of the king, and to lay before him, with decency atd respect, stelr matters as he shall judge of importance to the public good. A third council belanging to the king, are bis judges of the courts of lar, for Law matters; but his principut council is that which is cilled the privy cometh, and of which we shail tiereafter more paiticularly spoak.

Foarth, The principal duties of the king are expressed in his oath at his coronation, which is afministered by obe of tie archbishops or bishops of the realm, in the presence of ath the propte. This coronation oath is conceived in the following terms. The archbishop or bishop stall say, "Will you solemnty promise and swear, to govern the people of this kingdom of Engiand, and the dominions thercunto belonging, according to the ztatutes in parliament agreed on, and the laws and customs of the same?" The king or queen shall say, "I solemnly promise su to do."

Archbisbop or bishop. "Will you, to your pomer, cause law and justice, in mercy. to be execited in all your judgments = Ktng or quicen. "I will."

A rchbishop or lishop. II Will you, to the utwost of your power, maintain the laws of God, the true profession of the gospel, and the protestant reformed religion, establisted by the law \% And will you preserve unto the bishops and elergy of this realm, and to the churches committed to their charge, all such rights and privileges, as by the law do or shall appertain onto them, or any of them? King or queen. "All this I Promise to do.

Affer this the kiag or queen, liying his or her hand upon the holy gospels; shall Vot b
say, "The things which Iplave here Lefore promisod, I will porform and keep: so help "me God." And then kisses the book.

Fifth, His prerogative. The king of Great Britain, notwithstanding the limitations of • the power of the crown, is the greatest monarch reigning over a free people. His power is very great, though he has no right to extend his prerogative boyond the antient limits or boundaries prescribed by the constitution ; he can make no new laws, nor + isz any new taxes, nor act in opposition to any of the laws, but he can make war or peace; send and receive ambassadors, make treatics of league and commerce, levy armies, and fit out fleets, for the defence of his kingdom, the amoyance of his enemies, or the suppression of rebellion; grant comtnissions to bis officers, both by seh and land, or revoke them at pleasure ; dispose of all magazines, castles, \&C. ; summon tho parliament to mect, and when met, prorogue or dissolve it at pleasure ; refuse lisis ussent to any bill, though it had passed both honsea; which, consequently, by such refusal, has no more force than if it had never been moved; but this is a prerogative that the hingo of England have seldom ventured to exerciee. He possesses the right of choosing hit own council ; of nominating all the great officers of state, of thic househotd, and the claurth: and, in fine, is the fountain of honour, from whom all degrees of nobility and knighthood are derived.

Sixth, His revenue. This is of two kinds, ordinary und extraordinary, and is party approptiated to tie support of his majesty's hoosehold, and partly for mational purposes ; but as the greater part of the revenue is derived from the authority of parliament, it is proper to defer the discussion of it, till we have described the nature and operation of that august assembly.
The parliament is assembled by the king's writs, and its sitting must not be intermitted above three years. Its constituent parts are, the king, sitting there in his royal political capacity, and the three estates of the realm; the lords spiritual, the lords temporal, who sit together with the King in one lionse, and the commons, who sit thy thenselves in another.

The hing and these three cstates together, form the great corporation, or body politic of the kingdom, of which the king is suid to be the head, the beginning, and the end. For, upon their coming together, the king meets them, either in person or by representation, without which there can be no beginning of a partiament; he also has alove the power of dissolving them.

The tords spiritual consist of two archbishops and e4 bishops. The lords teraporal consist of all the peers of the realim, the bishops not being in strictness held to be such, but merely lords of partiament. Some of the peers set by descent, as do all antient peers; some by creation, as do all the new made ones ; others, since the union with Scotland, by election, which is the case of the 16 "peers who represent the body "of the Scoteh nobility. The number of peers is indefiaite, and may be incrensed at vill by the power of the crown. Their titles and order of dignity are dukes, marquises, earis, viscounts and lords or barons.

- The commons consist of all such men of any property in the kingdom at binve not
seats in the housc of londs, every one of thom is supposed to lave a voice in parfiment, either persomally or by his representatives.
The counties ere therefore represented by knights, elected by the proprietors of tands; the cities and boroughs are represented by citizeas and burgesses, chosen by the mercantic part, or the supposed trading interest of the nation. The number of English representativeris 513 , of Scoteh 45, of Irish 100, in all 668. Aud every member, though chosen by one particular distriet, when elected and returned, serves for the whole reatm. Ifor the end of his coming thither is not particular, but general ; not merely to serve his eonstituents, but also the comanotiwealth, and to adviso his majesty, as apptars from the writ of summons.

The power and jurisdiction of parliament is so trauscendent and absolute, that it cennot to confinet, cither for causes or persons, within any bounds. It hath sovercign and uncontroulable authority, in making, contiruing, enlarging, restraining, abrogating, repealing, reviving, and expounding of laws, concerning matters of all possible denosuination, ceclesiastical or temporal, civil, military, maritime, or crimiaal, this being the placo whice thet itsolute despotic power, whith must in all governments reside some= where, is entrusted by the constitution of these kingloms.

In order to prevent the miseliefs that might arise, by placing this extensive authority in hands that are cither incapable or improper to manage it, it is provided that rio one shafl sit or vote in cither house of parliament, unless be be 21 yeurs of age. To prevent innovations in religion or goverameat, it is enacted, that no member shail sit or vote in either house, till he liath, in presence of the house, taken the oaths of allegiance, supromacy, and abjuration, and subecribed and repeated the declaration against transubstantiation, tif fivecatlou of the saints, and the sacriffee of the maks. To prevent dingers that may arise to the kingdom from foreign attachments, connections, or depentencies, it is enacted, that no alica, bora out of the dominions of the crown of Grent Britain, even though he be naturalized, shall be capable of being a member of either house of partiment.

Some of the most important privileges of members of either house are, privilege of speech, of person, of thatir domestics, and of their lands and goods. As to thic first, privitege of speech, it is declarel by the statate of 1. W, and M. at. \&. c. 2. as one of the liberties of the peopte, "that thic freedom of speech and debates, and procecdings in pariament, ought not to the impeached or questioned in any court or place out of parliament." And this freedom of speecls is particulurty demanded of the king in person, by the speaker of tho house of commons, at the opening of every new parliament. So are the other privileges of persons, secrants, lands, mad goods; this meludes not only privilege from iliegat viviener, but nlso from legal arrests, uniess in case of debt, and acizures by.process from the coarts of liw.
The hoase of lords are attended by the judges of the court of kings beneh and common pleas, nind such of the barons of the exchequer as are of the degree of the coif, or hare heen made serjeants at haw; ns likewise by the masters of the court of chancery; for their advice in point of law, and for the greater dignity of their proceedinge.

Thie speaker of the bouse of lords is jocuerally the lord chanccitor, or lord-keeper of
the great scal, which dignities are commonly vested in the same person. Eacis peer has a right, when a vote papes contrary to his sentiments, to enter lis dissent on the journals of the house, with the reasons for such dissent; which is usually stiled his protest.

- Upon particular occasions, these protests have been so bold, as to give offence to the majority of the house, and have therefore been expunged from the journals: but this has beca thought a violent measure.

The house of commons tany be properly slyled the grand inquest of Great Britain, empowered to inquire into all national grievances. The peculiar laws and customs of the house of commons retate principally to the raising of taves, and the elections of members to serve in pardiament. With regard to taxes : it is the antient imdisputable frivilege, and the right of the house of commons, that all grants of subsidics, of parfianentary aids, do begin in their hoose, and be first bestowed by them ; altbough theis grants are not effectual, until they have the assent of the other two branches of the legis: Jature.

The general reason given for this exclusive privilege of the house of commons is, that the supplies are raised upon the body of thie people, and therefore it is proper that they alone shovid have the right of taxing themselves And so reasonably jeatous are the commons of this privilege, that lecrein they will not suffer the other house to exert any power, but that of rejecting; ticy will not permit the least alteration or amendment to be made by the lords, of the mode of taxing the people by a moncy-bill. Thiter this appeltation are included all bills by which money is directed to be raised upon the subject, for any purpose, or in any shape whatever; either for the exigencies of government, and collected from the Lingdom in general, as the land-tax; or for private bencfit, and collected in any particular district, es by turnpikes, parish rates, and the like.

The method of making laws is much the same in both houses. In each house the act of the majority linds the whole: and this majority is declared by votes openly and publicly given ; not us at Venice, and many other senatorial assemblics, privately or by ballot. this tatter method may be serviceable to prevent intrigues and unconstitutional combinations, but it is inpossible to be prictised in the liouse of commons, where every member's conduet is aubject to the future censure of his constituents, and therefore nhould be opealy submitted to their inspection.

To bring a bill into the house of commons, if the relief eought by it be of a private nature, it is first necessary to prefer a petition, setting forth the grievance, desired to be remedied. This petition must be presented by a member, and, when founded on facts, that may be in their uature disputed, is referred to a committee of memfers, who examine the matter alleged, and report it to the house; and then (or, otherwise, upon the mere petitioni) leave is given to bring in the bill. In public matters, the hill is brought in upoa motion made tu the honse, without any petition. (In the house of lords, if the bill begins there, it is, when of a private nature, referred to two of the judges, to examine and report the state of the facts nileged, to see that alt neecssary parties consent, and to settie all points of technical propriety.) This is read a first time, and, at a coaveniont distance, a second time; and after eacb reading the speaker explains to

## BRITISH EMPIRE,

the liouse the substance of the bill, ansl puts the question, whether it shall proceed any farther. The introduction of the bill may be opposed, as thy bill itself may at citler of the readings ; and, if the opposition suceced, the bilt must be dropt for tuat.

- scesion.

Afer the second rendiog it is committed, that is, referced to a committee; which is efther selected by the house in business of small fioportance; or else, if the bill is a matter of great or national consequence, the house resolves itself into a committee of the whole house. A committee of the whole bouse is compased of every member; and, to forn it, the speaker quits the chair, (another menber being appointel chairman), and may sit and debate as a private member. In these committecs, the bill is debated, clause by clause, namendments made, the biank filted up, and sometimes the bith entirely new-modelied.

After it hins gone throught the cominttee, tho chairman reports it if the house, with zucl amendments as the committee have made; and then the bouse re-consider the whole bill again, und the question is repentedly put upon every elanse and amendment. Whice the house have agreed or disagreed to the amendments of the commiltee, and scmetimes added new nmendments of thicir own, the bill is then ordered to be engrossed, or written in a strong gross hand, on one or more long roils of parchinent sowed together, When this is finished, it is read a thind time, and amendments are sometimes then made to it ; and if a netr cluse be added, it is done by taeking a separate piece of parclinent on the bill, wtich is catted a rider. The speaker then again explains the contents; ani, holding it up in his hands, puts the question, whether the Lift stratt pass. If this be agreest to, the titte to it is then setted. After this, one of the members is directed to rarry it to tho tords, and deaire their concurrence ; who, attended by severat more, carries it to the lar of the foonse of peers, und there delivers it to their speaker, who comes down from his roolsack to receive it. It there passes through the forms, as in the other bouse (excepting engrossing, which is already done), and if refected, no more wotlica is tiken, but it paseses sub sitentic, to prevent unbecoming altercations. But if it be agreed to, the lords send a message by two masters in chancery (or, sometimes, in matters of high importance, by two of the jodges) that they have agreed to the same : and the bill remains with the lords, if thoy bave made no amendment. Hot if any amendments are made, such amendments are sent down with the bill, to receive the concurrence of the commons. If the commons disagree to the umundavents, a conferenco usually follows, between members deputed from each house ; who, for the most pirt, settle and adjust the difference: but if both bouses remain inflexible, the bill isstropped. If the commons agree to the asoendments, the bill is sent beek to the lords, by one of the members, with is message to acquaint them therewith. The same forms are observed, mutatis mutandis, when the bill begins in the house of lonis.

But when an act of grace or pardon is passed, it is first signed by bis majesty, and then read once only in each of the houses, without any new engrossing or aumendFuent. And when both houses have done with any bill, it is deposited in the house of peers, to wait the rogal assent; except in the case of a money-bill, which, after receiv-
ing the concurrence of the lords, is sent back to the house of commons. It may bia necessary here to acquaipt the reader, that both in the houses and in their committoes, the slightest expression, or most minute alteration, does not pass till the speaker or the chairman pats the question ; which, in the house of commons, is answered by nye. or no; and in the house of pecrs, by content or not content.

The giving the royal assent to bills is a matter of great form. When the king is to pass bills in person, be oppears on his throne in the house of peors, in his royal fobes, with the crown on his hend, and attended by his great officers of state, and heralis. A seat on the riglot hand of the throne, where the prifices of Scotland, when peers of England, formerly sat, is reserved for the prince of Wales. The other princes of the hfood sit on the left land of the King, and tie chascellor on a close bench, removed a little backwards.

The viscounts and temporal barons, or lords, face the throne, on benches, or wool-pucks, covered with red eloth or baize. The ben th of bishops runs along the house, to the har on the right hind of the throne ; as the dukes and earls do on the jefh. The chancellor and judges, on ordinary days, sit upon wool-packs, betreen the barons and the throne. The common opiaion is, that the house sitting on wool is symbolical of wool being formerly the staple commodity of the kingdom. Many of the poers, ou solemn occasious, appear in their parliamictatary robes, None of the commons bave any rolies, excepting the speaker, who wears a long black silk gown ; and when he appears before the king, it is trimmed with gold.

The royal assent may be given two ways; first in person. When the king sends for the loouse of commons to the house of peers, the speaker carrics up the money-bill or bills in his hand; and, in delivering thew, be addresses his mojesty in a solema speech, in which he seldom fails to extol the generosity and loyatty of the cominons, and to tell his majesty how necessary it is to be frigal of the public ilioney. It is upon this oceasion, that the commons of Great Britain appear in their highest lustre. The title of alt bills that have passed both houses are read; and the king's anstrer is declared by the clerk of the parliament in Normun French. If the king consents to a public bill, the elerh usaally declares, le roy le veat, "the king wilh it so to be "" if to a private bill. soit fait comme il cst desire, "be it as it is desircd." If the hing refuses this assent, it is in the gentle language of, le roy savisero, "the king will advise upon it" When a money-bill is passed, it is carrief up and presented to the ling by the speaker of the house of commons, and the myal assent is thas expressed, te roy remercie ses loyat subjects, aceepte four trenevolence, et aussi le voit, "the Ling thanks his loyul splbjects, accepts their benevolence, and wills it so to be," In caso of an act of grace, which origiaally proceeds from the crown, and has the royal assent in the first stage of it, the clerk of the pariament thus pronounces the gratitude of the subjecf. les prelats, seigneurs, et commons, en ce presëent partiament assemblies, au nom de tout vas autres subjects, remercient très humbtemint votre mijeste, ot prient-a Dieu vous donner en santé bonne vic et longue : " the prelates, lords, and commons, in this present parlitamenL assembled, in the unme of all your other suhjects, most humbl; thank your majesty, and pray to God to grait you in health sod weatin long to live."

## EIRTISH EMPIRE.

Second, Dy the statute 33 Heury VIII. c. 91, the King may give his assent by lettent patent, under his great seal, signed with his band, and notified, in his nbsence, to bith houses assembled together in the ligh bouse, by comatassioners, consitting of certain. peers named in the letters. And, when the bill has received the royal assent in cither of these ways, it is then, and not before, a stalute, or act of parliament.

The statute or act is placed among the records of the kingdom; there needing no forinal promulgation to give it the force of a law, as was becesssary by the civil Lans with regard to the emperor's edicts ; because every man in England is, in judgment of law. party to the making of an act of parliament, being present thereat by "his represcutatives. However, copies thereof are usually printed at the king's press, for the infurmation of the whole land.

From the above gencral view of the Englist constitution. it appears that no secunity for its permanency, which the wit of man can devise, is wenting. If it should be oib jected, that parfiaments may become so corrupted, as to give up or betray the libetiea of the people, the answer is, that parliaments, as every other body politic, are supposed to vatch over their political exisience, as a private person docs over has natural life, If a parliament were to act in that manner, it mist become felo de oc, an cvil that no human provisions can guard against. Bat these are great resources of Jiberty in England; and though the constitation has been even overtarned, and sometimes dangeronsly wounded, ye: its own innate powers have recovered and still prescre it.

The king of England, besides his high court of parliament, has subordinate officert and ministers to assist him, and who are responsible for tieir advice and conduct. They are male by the king's nomination, without either patent or grant; aud, on taking the requisite ouths, they become immediately ptivy-crunsellors during the life of the king that chooses them, but subject to removal at his pleasure.

The duty of a privy-comasellor appears from the oati of office, which consists of seven articles: Ist. To advise the king, according to the best of his cunning and discretion. end. To advise for the king's bonour, and good of the pnblic, without partiality throngh affection, love, need, doubr, or dread. Srd. To keep the thing's counsel secret. $4 t h$. To avoid corruption. 5th. To help and strengthen the exceution of what shall he there resolved. Gth. To withstand all persons who woald arterppt the contrary. And, lastly, in genorst, 7 th. To observe, keep, and do all that is good and true counselfor ougit to do to lis sovereiga lord.
As no govermment can be so complete as to be provided uith laws that may anstrer every unforesecas emergeney, the privy-council, in such eases, can supply the deff-ciency- It has been even lnown, that, upon great and urgent occasions, such as that of a famine, or the dread of one, they can suparsede the operation of the law, if the parliament is not sitting; bot this is considered as illegal, and an act of parliument mast pess for the pardon und indemnification of thiase concerned.

The office of secretary of state was formerly divided into a southera and a northern de--partment. The southern containod France, Spain, Portugal, Italy, the Swiss cantons, Constantinople, and, in stort, all the states in the southern parts. The northerm com-
prehended the different state of Germany, Prussia, Poland, Russio, Sweden, Denmark, Holland, Flandersp and the Hanscatic towns. This distinction is now abolished ; and there is one secretary for forreign affiairs, and another for the home department. During the American war, there was a third sceretary of state, whose office was revived in 1796 , by the title of secrstary for the war departmeat.

The cabinet council is a committee of the privy-council, conjisting of a select number of infinsters and mothemen, iccordtag to the king's offnton of their integrity fand abilities, or attachment to the views of the court; but though its operations are porrerful and "extensive, a cabinet-council is not essontial to the coustitution of Fingland.
This observation naturally leads us to mention the pernon who is so well koom by the name of the finst minister; a term unlmown to the Kigish constitution, though the etfice, in elfect, is pertaps nceessary, The constitution points out the tord high chancellor as minister; but the affairs of lis own court give finh sufficient cmployment. When the office of the fist lard of the treasury is united with that of chancellor of the exchequer (offices which we shall explain hereafter) in the same person, he is cothsidered as first minister The truth is, lis majesty may make uny of lis servants lis first minister. But though it is no office, yet there is a refponsibility anmexed to the inaie and common repite, that renifers it a post of difficuty und daniger. We slait now take a short review of the nine ureat oficers of the crown, who, by their posts, take place next to the princes of the royal family and the twe puimates.

The first is the lord high steward of Eugland. This is an ofice very antient, and formerly was hereditary, or at least for life: but now, and for echtiries past, it is exercised onty occasionally; that is, at a coronation, or to sit as a judge on a peer or peeress, utien tried for is capfat erime. In coronations, it is hiclit for that diy only, by some high nobleman. In eases of tials, it is exercieed generally by the loni chancellor, or lord keeper, whose commission as bigh stewant cuds with the trial, by breaking his white rod, the badge of his ottice.

The lord hifig chuccilor presides in the court of climeery, to moderate the severities of the law, in all eases where the property of the subject is conecrned; and be is to determine aecording to the dictates of equity and reason. He is an officer of the greatest weight and power of any now subsisting in the kingdom, and is superior in precedency to every temporal lord. The is a privy-counselfor by his office; and, nccording to some, prolocutor of the lioure of lords by prescription. To him belongs the uppointmeat of all justices of the pence ; be is vibitor, In right of the king, of all hospitals and colleges of the king's foundution, and patron of all the king's livines under the value of $20 \%$ per annum in the king's books. He is the gencral guardian of all infunts, ideots, atid lunatics, and bath the superintendance of all charitable usea in the kingdom, over and above the extensive jurisdietion which be exercises in his judicial capacity in the court of chancery.

The post of lord bigh treasurer has of late been vested in commission, consisting of five persons, who are called lords of the treasury ; but the first commissioner is supposed to poasesa the power of lond high treasurer. He has the management and charge

- of all the revenues of the crown kept in the exchequer; as also the letting of the leases of all crown lands, and the gitt of all places belonging to the customs in the several ports of the kingdom.
- The lord president of thr council was an officer formerly of great power, and hath * precedence next after the. loid chancellor and lord treasurer. His duty is to propose all the business transacted at the council-board, and to report to the king, when his majesty is not present, all its debates and proceedings. It is a place of great dignity as well as difficulty; on account of the vast number of American and West Indian causes, captures, and the like affairs, that, come before the board; all which may be abridged, to the vast convenience of the subject, by an able president.

The office of lord privy-seal consists in his putting the king's seal to all charters, grants, and the like, which are signed by the king, in order to their passing the great seal; and the is responsible, if he should apply the privy-seal to any thing against the law of the land.

The office of lord great chamberlain of England is hereditory in the dake of Ancaster's family. He attends the king's person on bis coronation, to dress him ; he has likewise charge of the house of lords during the sitting of parliament; and of fitting up Westminster-ball for coronations, trials of peers, or impeachments.

The oflice of lord high constable has been disused since the attainder and execution of Stafford, dake of Buckingham, in the year 1521, but is occasionally revived for a coronation.

The duke of Norfolk is liereditary earl marshal of England. Before England became so commerciol a country, as it has been for a bundred years past, this office required great aibilities, learning, and knowledge of the English history, for its discharge. In war time he was judge of army causes, and decided according to the principles of the civil law.
If the cause did not admit of such a decision, it was left to a personal combit, whica was attended with a vast variety of ceremonies, the arrangement of which, even to the smallest trifle, fell within the marshal's province. To this day, he or his deputy regulates all points of precedency, acconding to the archives kept in the herald's office, waich is eatirely within lis jurisdiction. He directs all solemn processions, coronatious, proclamations, general mournings, and the like.

The office of lord high admiral of Eugland is now likewise held by commission, and is equal in its importance to any of the preceding, especially since the increase of the British naval power. The English admirality is a board of direction as well as execution, and is in its proceedings independent of the crown itself. All trials upon life and death, in maritions affairs, are appointed and held under a commission immediately issuing from that board; and the members must sign even the death-warrants for execution; but 'ft may ve cusily conceived, that, as they are removable at pleasure, they do nothing that can clash with the prerogative of the crown, and conform themselves to the directians they receive from his majesty. The board of admiralty regulates the Whole naval force of the rcalm, and names ail its officers, or confirms them when named: so that its jurisdiction is very extensive. The commissioners appoint vice-aduiVol. I.
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rals under them : but an appeal from them lies to the high court of adluiralty, which is of a civil nature.

This court is held iff London ; and all its processes and procecolings run in the lord high admiral's name, or those of the commissioners, and not in that of the. king. The judge of this court is commonly a doetor of the civil law, and its proceedings are according to the method of the civil law : but all criminal matters, relating to piracies, and other capital offences committed at sea, are triod and deteraùned according to the laws of England, by witnesses and a jury, over since the reign of Heary VIII.

- Revenues of the British government. The king's ecclesiastical revenues consist in, 1st. The custody of the temporalities of vacant bishopries; from which he receives litte or no advantage. Ind. Corodies and pensions, formerly arising from allowances of meat, drink, and clothing, due to the king from an abbey of monastery, and which he generally bestowed upon favourite servants ; and his sending one of his chaplains to be maintained by the bishop, or to have a pension bestowed upon him till the bishop promoted him to a benefice. These corodies are due of common right, but now disused, Srd. Extra-parocbial tithes. 4th. The first fruits and tenths of beneficies. But such has been the bounty of the crown to the church, that these four branches now afford little or no reveaue.

The king's ordinary temporal revenue consists in, 1st. The depnesne lands of the erown, which at present are contracted within a narroir compass. ©nd. The hereditary excise : being part of the consideration, for the purchase of his feudal profits, and the prerogative of purveyance and pre-emption. Srd. An annual suw issuing from the duty on wine licences; being the residue of the same consideration, 4th. His forests. 5th. His courts of justice, \&c. In lieu of all which, $900,000 \mathrm{l}$. per annum is now granted for the support of his civil list.

The extraordinary grants are usually called by the synonymous names of aids, subsidies, and supplies, and are granted, as has been before hinted, by the commons of Great Britain in parliament assembled; who, when they have voted a supply to his majesty, and settled the quantum of that supply, usually resolve thequselves ioto what is called a committee of ways and means, to consider of the ways and means of raising the supply so voted. And in this committee, every member (though it is looked upon as the peculiar province of the chancellor of the exchequer) may propose such scheme of taxation as be thinks will be least detrimental to the public. The resolutions of this committee (when approved by a vote in the house) are in general esteemed to be, as it were, finat and conclusive. For, though the supply cannot be accually raised upon the subject, till directed by an act of the whole parliament, yet no monied man will scruple to advance to the government any quantity of ready cash, if the proposed terms be advantageous, on the credit of the bare vote of the house of commons, though no law be yet passed to establish it.

The annual taxes are, 1st. The land tax, or the antient subsidy raised upon- a new assessment. snd. The malt tax, being an annual excise on malt, mum, eider, and perry.

## BRITISH EMPIRE,

- The perpetual taxes are, 1st, The customs, or tomage and poundage of all merchandize, exported or imported. Ind. The excise duty, or inland imposition, on a great variety of commodities. 3rd. The salt duty. 4th. The post office, or duty for - the carriage of letters. Sth. The stamp duty on paper, parchment; \&c. 6th. The duty on houses and windows. 7th. The duty on licences for hackney coaches and chairs. 8 th. The, duty on offices and pensions.

Tire gross reccipt of these annual and permanent taxes, including the balances of the preceding year, amounted, in the year 1797, according to the report of the Select Committee of Fimance to the following sums.


The net produce of all these taxes, deducting the balances of the preceding year, repayments on over entries, drawbacks, bounties in nature of drawbacks, and other aliowanees on the customs, excise, stamps, and salt, is stated, by the same committee, to have amounted, in that year, to $18,790,0931$; and the whole of the permanent revenue to $20,508,0001$. How these immense sums are appropriated is next to be considered : and this is, first and principally, to the payment of the interest of the national debt.

In order to take e clear and comprehensive view of the nature of this national debr, it must first be premised, that after the revolution, when our new connexions with Europe introduced a new system of foreign politics, the expences of the nution, not only in settling the new establishment,- but maintaining long wars, as principals on the continent, for the security of the Dutch barrier, reducing the French monarchy, settling the Spanish succession, supporting the house of Austria, maintaining the liberties of the Germanic body, and other purposes, increased to an unusual degree; insomuch that it was not thought adviseable to raise all the expences of any one year by taxes to be levied within that year, lest the unaccustomed weight of them should create murmurs among the people.

It was therefore the bad poliey of the times to anticipate the revenues of their posterity, by borrowing immense sums for the current services of the state, and to lay no moré taxes upon the subject than would suffice to pay the annual interest of the sums so borrowed : by this means converting the principal debt into a new species of property, transferable
from one man to anothor, at any time and in apy quantity: a system which seems to have had its original in the state of Florence, A. D. 1344 ; which government then owed about 60,0001 . sterling and befog unable to pay it, formed the principal into an aggregate sum, - called metaphorically a mount or bank; the shares whereof were transferable, like our stocks. This laid the foundation of what is called the national delut ; for a fos long annuities, created in the reigo of Charles IL will hardly deserve that name; and the example then set, has been so closely followed since, that the capital of the funded debte, British and foreigo, on the 1st of February, 1799, amounted to $465,159,531 \mathrm{l}$, and the annual charge of it to $19.558,037 \mathrm{l}$.

Of this funded debt, the commissioners for buying up the national debt had redeemed, on the 1st of February, 1799, 37,381,7711. The unfunded, at the same time, amounted to $15,295,6741$.

To cleck, in some measure, the too rapid accumulation of a debt, already so enorsnous, a part of the supplies for the years 1798 and 1799, have been raised within the year. In 1798, a voluntary subscription was entered into for the service of government, which produced about $1,500,0001$; and the taxes, called the assessed taxes, were trebled, and in some instances quadrapled, with sllowance of relief in certain cases : titese produced about $5,000,000$ / In the year 1799, an act passed, for leyying a tenth of all income, upwards of 200 t . with a tax, according to a certain scale on all income from 200 l . to 60\%. per annum.

The total expenditure of the year 1797, for the interest of the poblic debt, the civil list, the army, navy, foreign loans and remittances, pensions, bounties, extraordinary and secret services, \&c. amounted, according to the report of the Select Committee of Finance, to $50,165,603 \mathrm{~L}$. 18s. 2 Fd ; and the total of the ordinary revenue and extraordinary resources, including a lottery and a loan of $97,000,000$ l, to $55,090,890 \mathrm{l}$. Is. $0 \frac{1}{4} d$.

The produce of the several taxes before mentioned were originally separate and distinet funds; being securities for the sums advanced on each several tax, and for them only. But at last it became necessary, in order to avoid confusion, as they multiplied jearly, to reduce the number of tliese separate funds, by uniting and blending them together, superadding the faith of parliament, for the general security of the whole. So that there are now only three capital funds of any account : the aggregate fund; the general fund, so called from such union and addifion; and the South Sen fund; being the produce of the taxes appropriated to pay the interest of such part of the national debt, as was advanced by that company and its annuitants: whereby the separate funds, which were thus united, are become mutual securities for each other ; and the whole proiuce of them, thus aggregated, liable to pay such interest or annuities as were formerly charged upon each distinct fund; the faith of the legislature being moreover engaged to supply any casual deficiencies.

Tie customs, excises, and other taxes, which are to support these funds, depending on coftingencies, upon exports, imports, and consumption, mast necessarily be of a very uncertain amount : but they live always been considerably more than sufficient to saswer the cbarge upon them. The surplusses, therefore, of the three great national

## BRTTISH EMPIRE.

fonds, the asgregate, zeneral, and South Sea fumde, over ait above the interest and annuities changed upon them, are directed by statute $\$$ Gieq 1. c. 7 , to be carried together, and to attend the disposition of parliament ; and are usually denominated the

- sioking fund, becase originally destined to be held sacred, and to be applied ioviolably to the redemption of the national debi. To this liave been since added many other entiec duties, granted in subsequent years ; and the anuual interest of the sums borrowed on'their respective credits, is clarged on, and payable out of the produce of the sinking fund. However, the net surplusses and savings, after all dedyetions paid, amount, annually, to a very considerable sum. For ns the interest on the nitional debt lias been at several times reduced (by consent of the proprictors, who had their option either to lower their interest, or be paid their principal), the suvings from the appropriated revenues must needs be extremely large. On this sinking fund depends, in a great measure, our hopes of discharging or moterating our incumbramces; and therefore the prudent upplication of the large sums now arising from this fund, is a point of the utmost importance, and well worthy tho erious attention of parliument.

Betreen the yoass 1797 and 173\%, several encroachments were made uppn the sinking fund, and ia the year $1703,500,000$ d. was taken from it by sir Robert Walpole, under pretence of easing the landed interest. The practice of ulienating the sinking fund being thus began, has continued ; and in 1736, it was anticipated and mortgnged; and every subsequent administration has broken in upon it, thus converting this excellent expedient for saving the kingdom, into is supply for the worst of porposes.

In somie years the sinking fund bas protuced from two to three millions per annum, and if only $1,212,000$ h of it had been inviolably applied to the redemption of the public debts, from the yeur 1733, inssead of only $8,500,000$, paid off hy it, as is the case at present, $160,000,000 \%$ would liave been paid, and the nation have been extriented and saved.

Differeat schemes bive been formed for paying the public debts: hut no method can be so expeditions and effectual, as an unalienable sioking fund, as this money is improved at compound interest, and therefore in the most perfeet manner: but money procired by a loan bears ouly siupte interest. "A nation, therefore, whevever it applies the income of such a fund to current expences, rather that the redemption of its debts, chooses to lose the benefit of compound intereat, in order to avoid paying simple interest, and the loss in this case is equal to the difference between the increase of mouey at compound and simple interest:"

No permanent provision has ever been made for the progressive and permanent payment of this impense debt, until 1786; when parliament had the wisdom and the firmness to pass an act for vesting unalienably, in commissioners, the sum of $1,000,000$. annually ; in which aet every possible precaution was taken that could be devised for preventing the surplus from being diverted, at any future time, and for carrying to the account of the commissioners, for the purposes of the act, the interest of such stock as should be purchased, and such_temporary annuities as should fall under the pro-- Yus. I.
visions of this aet: $37,381,771 /$, of the capital of the debt hand becn purclased in February, 1799.

- Before any part of the aggregate find (the surplusses whereof are one of the chief ingredients thint form the sinking fiind) can be applied to dimiaish the priucipal of the public debt, it stands mortgaged by parliament to raise an antiaal sum for the maintenamce of the kiang's liousehold and the civil list. For this purpose, in the late reigns, clie prodace of certain brancles of the excise and custoins, the postoodice, the duty on winelicences, the rgvenues of the remaining erown-lands, the profits arising from courts of justice (which artides indude all the hereditary revenue of the crowi), anid also a clear annuity of 120,000 , in moncy, were settled on the king for life, for the support of his majesty's houschold, and the honour and dignity of the crown. And as the amount of these several branchics were uncertain (though in the late reign they were computed to have sometimes riised almost a million), if they did not raise anntually to 800,000 , the parliament engaged to make up the defiefency. But his present majesty fiaving, soon after bis accession, spontaneously signified his ussent, that his own hereditary revenues might be so disposed of, as might best condice to the utility and satisfastion of the public, and taving accepted the limited sum of 800,0001 . (now iacreased to 900,0001 ) per annum, for the support of bis civil list, the said bereditary and ottier revenues are now cerried into and made part of the aggregate fund : and the aggregato fond is clarged with the paymeut of the annuity to the crown. The expences defrayed by the civililist aro those that, in any shape, relate to civil govermment, is the expences of the hoosehold, all salaries to officers of state, to the judges, and every onc of thic Kings servants ; the appoiutments to foreign ambassadons, the maintenance of the queen and roynl family, the king's- private expences, or privy parse, and other very numierous outgoings, as secret service money, pensions, mid other bounties. These, sometimes, hive so far exceeded the revenues, appointed for that purpore, that application has been made to parliament to discharge the debts contracted on the civil list, which is properls the whole of the ling's revenues, in lis own distinct capscity; the rest being rather the revenuio of the public or its creditors, though collected and distributed again in the mame nind by the officers of the crown.
- In order to give a clear idea of the moncy transactions of the several comparies, if is proper we stoould say something of money in general, and particularly of paper-monicy, and the difference between that and the current specie. Moncy is the standurd of thic value of all the necessaries and accommodations of lifo; und paper-money is the representative of that standard to such a degree, as to supply its place, and to answer all the parposes of gold and silver coin. Nothing is necessiry to make this representative of tuoney supply the place of specie, bat the credit of that office or company who delivers it ; which credit consists in its always iveing ready to turn it into speci, whenever required. This is exaetly the case of the Bank of England; the notes of this company are of the same value as the current coin, as they may be turbed into it whenever the possetcor pleaser. From bence, as notes are a kand of money, the counterfefiting theny is punithed with death, is well as coining.

The metbol of depositing moncy in the bank, and exchanging it for notes (though they bear no intereat), is attended with many conveniences, as athey are not ouly safor thain mogey in the hands of the owner himself, but as the notes are more portatile, and - capable of a fouch more casy conveyance, since a bank-note for a very large sam may be sent ty thio poss, and, to prevent the desigar of robbers, may without damsge, bo cut jin two, and sent at two several times: Or bills, called bank-post-bills, may be liad, by feplication to the bank, which are particulaly calculated to prevent losses by rolhberies, they being made payatie to thic order of the pection who tikes themin out, at a certain number of days after sight; which gives no opportunity to stop bills at the bank, if tiey stiould be lost, and prevents their being so catily negotiated by strangers as consmon bank-notes are: and intiocver considens the bazard, the expence, and trouble, there woold be in scniting large sums of gold and silvee to and from distant places, must also contider this as is very singultor pdrantegc Besides which, another benefit attends thein ; for if they aro destroyed by time, or other accidents, the bank will, on oath being made of such accident, aud.secority being given, pay the mosey to the person whio was in possession of them.
Bank-notes differ from all kinds of stock in these three particulars; 1st. They are always of the same value. end. They are paid off without being transforred: and, srd. They bear no interest; while stocks are a share in a company's fund, bougbt without any condition of liaving the principal returned.

India boats idideed (by sotme persons, thoygh erroncously, denominated stock) aro to bo excepted; they being payable at six months notice, either on the side of the company, of of the posiession

By the word stock was originally meant a particular sum of mopey contributed to the eatablishing a fund, to enatile a compray to carry on a certain trade, by means of which tho person became a partuer inthat traile, and received a share in the profit made thereby, is proportion to the mocey employed.
But this term bas been oxiended farther, though improperly, to signify any sum of moneg, which the been leat to the government, on condition of receiving a certuin interest till the money is repoid, and which makes a part of tho mational debt. As the security both of the government and the public companies is esteemed preferable to that of any pirivato perison ; as stock is necgotiable, and may be sold at any time; and as the interest is niways panctually paili when diof they are enablect to borrow rowey at a lower interest than what might be obkinued from lendiog it to private persons, whero there is offen some danger of losidg koth principal and ioterest.
Bat us every apital stock or fund of a coimpany is ruised for a particular purpase, and limited by government to a certain sum, it necessarily follows, that, when thit fund is completed, no stock com bo bought of tho company; thoingh stires, sleedy purchased, may be transferred from one persoa to another. Thit beivg the cose, there is frequently a great disproportion between tho original value of the whaks, and what is given for them when triusferred; for if there ane more bayens than sellets a porson Who of indifferent about selling, will not part with-his share without a considerablo

## BRITISH EMPIRE.

profit to limself; and, on the contrary, if many are disposed to sell, and few inclined to buy, the value of such spares will naturally fall, in proportion to the iumportance of those - whio want to tara their fock into specie.

This obseryotion may scrve to give our readers some idea of the nature of that unjustilable and dishonest practice, called stock-jobbing, the my-tory of which consists is nothing more than this : the persons concerned in that practice, who are denominated stock-jobbers, make costracts to buy or sell, at a certuin distant fime, a cortuin tuantity of some particular stock; against which time they endearour, accozing as their contract is, either to raiso or lower such stock, by sprcading ramours and fielitious stories, ia order to induce people either to sell out in a liurry, und consequently cheap. if they aro to deliser stock; or to become unwilling to sell it, and consequiently to mako it dearer, if they are to receive stock.

The persons who make theso contracts are not in general possessed of suy real stock; and when the time comes that they are to reccive or deliver the quantity they have corftracted for, they only receive or pay such a sum of money as mukes tho difference between the prico the stock was at when they made the contract, and the price it bappens to be at when the contract is fulfilled; and it is no uncommon thing for persons eot worth $100 /$ to make contracts for the buying or selling $100,000 \%$. stock. To the language of Exchange-Alley, the boyer is, io this case, called the bull, and the seller the bear; one is for raising or tussing up, and the other for lavering or trampling upon the atock.
Besides these, there is another set of men, who, though of a higher rank, may properly enough conve under the same denomination, These are the monied meen, who are dealers in stock, and contractors with the governiment, whenever any money is to be borrowed. These, indeed, are not fictitions, but real buyers and selfers of stock; but by rusing false hopes, or creating groundless fears, by preteniting to bay or sell large quinntities of stock on a sudden, by using the fore-mentioned set of men as thtir instruments, und other similar practices, they are cmabled to raise or fall stocks one or tiro per cent. at pleasure.

However, the real value of onc stock above another, on uceount of its being more profitable to the proprictors, or any thing that will really, or only in imagination, affect the credit of a company, of endanger the government by which that credit is secured, must naturally have a considerable effect on the stocks. Thus, with respect to the interest of the proprietors, a share in the stock of a trading company, which produces 51. or 61. per cent. per amnum, must be more valuable than an sennuity with government security, that produces no more than $3 \%$ or $4 \%$ per cent. per, annum : and consequenty such stock must sell at a tigher price than such on annuity. Though - it must be observed, that a share in the stock of a trading compuny, producing 51 . or 66 . per cent por annum, will not fetch so much money at market as a goverthnent annuity producing the same sum, because the security of the company is not reckoned equal to that of the government, and the continaince of thicir paying so much per annmin is more precarious, as their dividend is, or ought to be, aliways in proportion to the profits of their trade.

## BRITISH EMPIRE.

The: company of the bank was meorporated by parliament, in the 5th and 6 th years of king William and queen Mary, by the name of the goverwgrs and company of the bank of England, in consideration of the loan of $1,200,000$ l. granted to the government ; for which the subscribers received almost 82 , per cent. By this charter, the company are not to borrow under their commou seal, unless by act of parliament; they are not to ţade, or suffier any person is trust for them to trade, io any goods and merchandize; but they may deai in bills of exchange, in buying or selling butlion, and foreign gold and silver coin.

By ain act of parliament, passed in the Sth and 9th years of William III. they were empowered to enlarge their capital stock to $9,201,1711.10 \mathrm{~s}$. It was then also enacted, that bank stock should, be a personal, and not a real estate; that no contract, either in word or writing, for buying or selling bank stock, should be good in law, unless registered in the books of the bank within seven days, and the stock transferred in fourteen days; and that it should be felony, without benefit of elergy, to counterfeit the common seal of the bank, or any sealed bank-bill, or bank-note, or to alter or crase such bills or notes.
By another act, passed in the 7th of queen Anne, the company were empowered to augment their capital to $4409,343 \mathrm{l}$. and then they advanced $400,000 \mathrm{l}$, more to the government; and in 1714, they advanced another loan of $1,500,000$ I.

In the third year of the reign of king George I, the interest of their capital stock was reduced to 57 . per cent. when the bakk agreod to deliver up as many exchequer bills as amounted to $2,000,000 \mathrm{~L}$ and to accept an annuity of $100,000 \mathrm{l}$. ; and it was declared fawful for the bank to call from their members in proportion to their interests in their capital stock such sums of money as in general court should be found necessary, If any member should neglect to pay his share of monies so called for, at the time appointed by notico in the London gazette, and fixed apon the Royal Exchange, it should be lawful for the bank not only to stop the dividend of such a member, and to apply it toward payment of the money in question, but also to stop the transfers of the share of such defaulter, and to charge him with the interest of 51 . per cent. per annum, for the money so omitted to be paid; and if the principal and interest should be three months unpaid, the bank should then hare power to sell so much of the stock belonging to the defaulter, as would satisfy the same.

After this the bank reduced the interest of the $2,000,000 \%$. lent to the government from 57 . to 41 . per cent. and purchased several other unnuities, which were afterwards redeemed by the government, and the national debt, due to the bank, reduced to $1,600,000$ l. Bus in 1749 , the company engaged to supply the government with $1,600,0001$, at $\$ l$. per cent. which is now called the three per cent. annuities ; so that the government was now indebted to the compang $3,200,000 l$. the one half carrying 41 . and the othier $3 l$. per cent.

In the year 1746, the company agreed that the sutm of $986,800 \mathrm{l}$. due to them in the exchequer bills unsatisfied, on the daties for licences to sell spirituous liquars by retail, should be cancelled, and in lieu thereof, to accept an annuity of $99,449 \mathrm{~L}$ the interest of

## BRITISH EMPIRE:

that sum nt 42 . per cent. The company also agreed to advance the fartiver sum of $1,000,000 l$. into the exchequer, upon the credit of the doties arising by the nalt and land - tax, at $4 l$. per cent. for exchequer bills to be issued for tiat purpose ; in consideration of which, the company were enabled to augment their capitat with $986,800 \%$; the interest of which, as well as that of the other annuities, was reduced to three and a half, per cent. till the 25 th of December, 1757 , and from that time to carry only ghree per cent.

And in order to enable them to circulate the said exchequer bills, they established what is now called bank circulation; the nature of which not being well understood, wel shall take the liberty to be a little more particular in its explanation than we have been with regard to the other stocks.

The company of the bank are obliged to keep cash sufficient to answer not only the common, but also any extraordinary demand that may be made upon them; and whatever money they have by them over and above the sum supposed necessary for these purposes, they employ in what may be called the trade of thie company; that is to say, in discounting bills of exchange, in buying gold and silver, and in government securities, \&c. But when the bank entered into the above-mentioned contract, as they did not keep unemployed a larger sum of money than what they deemed necessary to answer their ordinary and extraordinary demands, they could not conveniently take out of their current cash so large a sum as a million, with which they were obliged to furnish the government, without either lessening that sam they employed in discounting, buying gold and silver, \&ce. (which would have been very disadvantageous to them,) or inventing some method that should answer all the purposes of keeping the million in cash. The method which they chose, and which folly answers their end, was as follows.

They opened a subscription, which they renew annually, for a million of money, wherein the subscribers advance $10 \%$. per cent. and enter into a contract to pay the remainder, or any part thereof, whenever the bank slall call upon them, under the penalty ot forfeiting the 101 . per cent. so advanced; in consideration of which, the bank pays the subscribers four per cent. for the money paid in, and one-fourth per cent. for the whole sun they agree to furnish; and in case a call should be made upon them for the whole or any part thereof, the bank farther agrees to pay them at the rate of five per cent. per annum for such sum, till they repay it, which they are under an obligation to do at the end of the year. By this means, the bank obtains all the purposes of keeping a million of money by them; and though the subscribers, if no call is made upon them (which is generally the case), receive six and a half per cent. for the money they advance, yet the company gains the sum of $23 ; 500 \mathrm{l}$. per annum by the contract: as will appear by the following account.

The bank receives from the goverament for the advance of a million, 90,0001 .
The bank pays to the subscribdrs who advance 100,000 l, and engage
to pay, wien cailed for, 900,000 亿 more,
6,5002.
The clear gain to the bank therefore is ?
28,5001.

Thils is the state of the case, provided the company should make no call on the subscribers, which they will be very unwilling to do, because it woguld not only lessen their profit, but afficet the public eredit in general.

Bank stock may not improperly be called a trading stock, since with this they deal very largety in foreign gold and silver, in discounting bills of exchange, \&ce. Besides whith, they are aliowed by the government very considerable sums annually, fon the management of the annuities paid at their office : all which arlvantages render a share in their stock very valuable, though it is not equal in value to East India stock. The company make dividends of the profits half-yearly, of which notice is publicly given, when those who have 'occasion' for their money may readily receive it : Dut private persons, if they judge convenient, are permitted to continue their funds, and to have their interest added to the principal.

We shall here give a brief account of some recent events, of considerable importance in the history of this great company. In tie beginning of the year 1797, a scarcity of specie presailing, and an alarm having been excited by the reports of an invasion, the, run became so great on suvpral banks in the north, that they were unafle to make theif payments, and obliged to draw largely on the bank, which, having before advanced great sums to government for foreign loans and public services, found the drain of its specie so great as to be compelled to represent the pressing necessity of the case to the trinister.
An order of the privy council was in consequence issued, prohibiting the baak from paying in specie, either notes or dividends; and a bill was brought into parfiament, to sanction this order, and exteud the prohibition to the $\Omega 4$ th of June following; nfter which it was still further extended to ono mionth after the next session of parliaGnent ; and in that session continued till one month after the termination of the present war.
-The bank is, however, allowed to resume its payments in cash at any intermediate period, by communicating its intentions to the speaker of the house of commons; and giving one months notice. To facilitate commercial iutercourse, bank notes of one and two pounds were issued, and Spanish dollars, stamped at the bank, were made current at Four shillings and ninepence. But this being above their real value, and the price of silver soon after falling, such numbers of counterfeit stamps appeared, that it was judged advisable to call them all in; which was done, the bank advertising in the beginning of October, 1797, that they tould give eash for them till the last day of that month, but no: longer. After the first week, as it was apparent that a considerable loss must be sustained by the lower and middling classes, if all the counterfeit stamps were refused, the bank, much to its honour, consented to receive all that were not base silver.

On the occasion of this prohibition of payment, a secret committee of the house of commons was appointed to examine the state of the out-standing demands on the bank of England, and its funds for discharging the same. The statement of these demands and funds, to the 25th of February, 1797, was as follows.

## BRITISH EMPIRE.

Out-standing demands
Funds for dischargife those demands, not including the perma-

Surplus of effects of the bank, exclusive of the above-mentioned

## permanent debt of $11,686,800$,

This company is under the direction of a governor, deputy governor, and 24 directors, who are annually elected by the general court, in the same manner as in the East India company. Thirteen, or more, compose a court of directors for managing the affairs of the company.

The South Sea company is under the direction of a governor, sub-governor, deputygovernor, and 21 directors ; but no person is qualified to be governor, his majesty excepted, unless such governor has, in his own name and right, $5000 l$, in the trading stock; the sub-governor is to have $4000 l$, the deputy governor $3000 \%$, and a director 2000 , in the same stock. In every general court, every member having, in his own name and right, 500 l . in trading stock, has one vote ; if 2000 l , two votes; 3000 l , three votes; and if 5000 l. four voles.
The East Indis company, of which we shall treat in describing India, the bank of England, and the South Sea company, are the only corporated bodies to which the government is indebted, except the million bank, whose capital is only one million, constituted to purchase the reversion of the long exchequer orders.

The interest of all the debts owing by the government was some years since reduced to three per cent. excepting only the annuities for the year 1758 , the life annuities, and the exchequer orders; but the South Sea company still continues to divide four per cent on their present capital stock, which they are enabled to do from the profits they make on the sums allowed to them for management of the annuities paid at their office, and from the interest of annuities which are not claimed by the proprietors.

As the prices of the different stocks are continually fluctuating above and below par, so when a person, who is not acquainted with transactions of that natere, reads in papers the prices of stocks, where Bank stock is marked perhaps 197. India ditto $194 \frac{\mathrm{r}}{\mathrm{K}}$ South Sea ditto $97 \frac{1}{4}, \& \mathrm{kc}$. he is to understand that $100 \%$. of those respective stocks sell at such a time for those several sums.

In comparing the prices of the different stocks one with another, it must be remem; bered, that the interest due on them from the time of the last payfoent, is taken into the current price, and the seller never receives any separate consideration for it, except in the case of India bonds, where the interest due is calculated to the day of the sale, and paid by the purchaser over and above the premium agreed for. But as the interest of the different stocks is paid at dirierent times, this, if not rightly understood, would lead a person not well acquainted with them, into considerable mistakes in his computation of their value; some always having a quarter's interest due on them more

## BAITISH EMPIRE.

than others, whicin makes an appearance of a considerable difference in the price, when in reality there is none at all; thus, for instance, old South Sea annuities sell for 8521 . or $85 \%$ 10s, whillo new South Sea annuities fetch only 8432 orp $84 /$, 158 , though cach of them produces the annual sum of three per, cent. bat the old annuifies bave a quarter's interest more due on them than the new annuities, which amounts to 15 shillings, the exact difference. There is, however, one or tro causes that will always make one species of annuities sell somewhat lower than another, though of the same real value; one of which is the annuitics making but a small copital, and there not being, for that reason, so many people at all times ready to buy into them, as into othere where the quantity is larger ; because it is apprelended that whenever the government pays off the national debt, they, will begin with that particular species of aunuities, the capital of which is the smallest.
We now proceed to consider the military state of this king glom, which includes the whole of the soldiery, or such persons as are peculiarly appointed among the rest of the people, for the safeguard and defence of the reelui.

In a land of liberty, it is extremely dangerous to make a distinct cider of the profession of arms. In sueh, no man should take up arms, but with a view to defend his country and its laws: he puts not of the citizen when lie eaters the camp; but it is because he is a citizen, and would wish to continue so, that he makes himself for a while a soldier. The laws and constitution of these kingdoins know no such state as that of a perpetual standing soldier, Gred up to no other profession than that of war; and it was not till the reign of Henry VH that the kings of England had so much as a guard about their persons.

It seems universally agreed, by all bistorians, that king Alfred' L. settled a national militia in this kingdom, and by his prudent discipline, made all the subjeets of his dominions soldiers.

In the mean time, we are not to imagine that the kingdom was left wholly without defence, in case of domestic insurrections, or the prospect of foreigo invasions. Besides those, who, by their military tenures, were bound to perform forty days' service in- the field, the statote of Winchester obliged every man, according to his estate and degree, to provide a determinate quantity of such arms as were then in use, in order to keep the peace; and constables were appointed in all hundreds, to see that such arms were provided.

These weapons were changed by the statute 4 and 5 Ph. and M. c. 2. into othersof more modern service; but both this and the former provisions were repealed in in the reign of Jamks I. ; while these continued in force, it was usual, from time to time, for our princes to issue commissions of array, and to send into every county officers, in whom they coald confide, to muster and array, or set in military order, the inlabitants of every district ; and the form of the commission of array was settled in parliument in the sth Henry. IV. But at the same time it was provided, that no mae should be compelled to go out of the kingdom at any rate ; nor out of his sbire, but in cases of urgent necessity; nor should provide soldiers, unless by consent of parliament. About the reign of king Henry VIII. iord licutenants began to be introduced, as standing representatives.
of the crown, to keep the counties in military order; for we find them mentioned as known officers in the statute shand 5 Ph and M. c. 3. though they had not been then long in use; for Camdai speaks of them in the time of queen Elizabeth as extraordinary

- magiatrates, constituted only in times of difficulty and danger.

Soon after the restoration of king Charles 11., when the military tenures were aboy lished, it was thought proper to ascertsin the power of the militia, to tveognise thẹ solo right of the crow to ggverar and command them, and to put the wholo into a mote regular method of military sabordination; and the order in which the militia now stapds by law is principally built upon the statutes which ware then enacted. It is true the two last of thein are apparently repealed; but many of their provisions are enacted, with the addition of some new regulations, by the present militia laws; the general scheme of which is to discipline a certain number of the inhabitants of every county, chosen by lot, for five years, and officered by the lord lientenant, the deputy lieutenants, and other principal land-holders, inder a commission from the crown. They are not compeilable to march out of their countics, unless in case of invasioa or actual rebellion, nor in any case to bo sent out of the kingdom. They are to he exercised at stated times, and thefr discipline in general is liberal and essy: but when drawn out in actual service, thiey are subject to the rigours of martial law, as necessary to keep them in order. This is the consitutioral-security which our laws have provided for the public peace, and for protecting the realm against foreign and domestic violence, and which the statutes declare is essentially necessary to the safety and prosperity of the kingdom.

But as the mode of keeping standing armies has universally prevailed over all Europe of late years, it has also for many years past been annually juiged necossary by our iegislature, for the sifety of thie kiagdom, the defence of the possessions of the crown of Great Britain, and the preservation of the balance of power in. Europe, to maintain, even in time of peace, a standing boty of troops, under the command of the crown; who are, however, ipso facto, disbanded at the expiration of every year, unless continued by parliament.

The land forces of these kingdoms in time of peace amount to about 40,000 men, iocluding troops in garrisons in Ireland, Gibraltar, the Enit Indies, and America; but in time of war the number is much greater. The whole of the regular force, in the year 1798 , amounted to 78,627 men; and the militia and fencibles, including 6,911 fencible eavalry, to $69,00 \mathrm{~g}$ mien. To govern this body of troops, an annual act of parliament passes, "to punish mutiny and desertion, and for the better payment of the, army and their quarters." This regulates the manner in which they are to be dispersed among the several innkeepers and victuallers throughout the kingdom; and establishes a law martinl for their government.
4 The maritime state is nearly related to the former, though much more, agrecable to thic principles of our free constitution. The royal navy of England has ever been its greatest flefence and ornament; it is an antient and natural strength; the floating butwayk of the izland; an army from which, however strong and powetful, no danger can ever be apprebended to liberty; and accordingly it has been assiduously cultivated, even from the carliest ages. To so much perfection was our naval reputation arrived
in the 12th century, that the code of maritime laws which are called the Laws of Oleron, and are received by all mations in Europe as the ground and construction of all their maritime constitutions, was confessedly compiled by our king Kichard I. at the isle of Oleron, on the coast of France, then part of the possessions of the crown of England. And yet so vastly inferior were our ancestors in this point to the present age, that even in the maritime reign of queen Elizabeth, sir Edward Coke thinks it matter of Boast that the royal nary of England then consisted of 33 ships. The present condition of our marine is in a great measure owing to the salutary provisions of the statute called the navigation act; whereby the constant increase of English shipping and seamen was not only encouraged, but rendered unavoidably necessary. The most beneficial statute for the trade and commerce of these Kingdoms is that navigation act, the rudiments of which were first framed in 1650 , partly with a narrow view : being intended to mortify the sugar islands, which were disaffected to the parliament, and still held out for Eharles II. by stopping the gainful trade which they then carried on with the Dutch'; and at the same time to clip the wings of those our opulent antl aspiring neighbours. This prohibited all ships of foreign nations from trading with any English cplantations withont liceace from the council of state. In 1651, the prohibition was extended also to the mother country ; and no goods were suffered to be imported into England, or any of its dependeacies in any other than English bottoms, or in the ships of that Euro* pean nation, of which the merchandize imported was the genuine growth or manufacture. At the Restoration, the former provisions ivere continued by statute 12 Car. 2 a c. 18. with this very material improvement, that masters and threc-fourths of the mariners shall also be Englisb subjects,

The compliment of seamen, in time of peace, usually hath amounted to 12, or 15,000 . In time of war, they formerly amount to about 30,000 men; and after the commencement of the American war, to above 100,000 , including marines. The vote of parliament for the service of the years 1798 and 1799 was for 120,000 seamen, including marines.

This nayy is commonly divided into three squadrons, namely, red, wlite, and blue, whica are so termed from tioe differences of sheir colours. Each squadron has its admiral . but the admiral of the red squadron has the pripeipal command of the whole, and is styled vice-admiral of Great Britain. Subject to each admiral is also a vice and rear adrairal. But the supreme command of our nayal force is, next to the king, in thise lords commissioners of the admiralty.

Not rithstanding our favourable situation for a maritime pquér, it was not until tbo vast armoment pent to subuloe us by Spain, in 1588, that the nation, by a vigorous effiort, became filly sensible of its true interest and natural strength, which it has since so, happily cusivated.

We may safely affirm that the British navy is able to cope with all the otber fleets of Europe. The brilliant victories of lords St. Vineent, Duncon, and Neison, and the

- Kurrender of the whole Dutch fleet lying in the Texel, have established the unrivalled Superiprity of Britain over all the maritime powers of Europe. At the bigineng of the yoar 1800 , the British naval force consisted of 144 ships of the line, in coran


## BRITSIH EMPIRE.

mission; 22 fifty-gun ships, 200 frigates, and 292 other ships of war; in the who\% 658 ships ; including receiving ships, slips in ordinary and building, 902 , of which 994 were of the line.

We shall close this account of the military and maritime strength of England, or rdther of Great Britain, by observing, that though sea officers and sailors are subject to a perpetual act of parliment, which answers the annual military act that is passed for the goverament of the army, yet neither of those bodies are exempted from legaf jurisdiction in civil or criofnal cases, but in fow instances, of no great moment The soldiers, particylarly, may be called upon by a civil magistrate to enable him to preserve the peace against all attempts to break it. The military officer who commands the soldiers on those occasions is to take his directions from the magistrate ; and both he and they, if their proceedings are regular, are indemnified against all consequences, be they ever so fatal. Those civil magistrates who understand the principles of the constitation, are, however, extremely catious in calling for the military on these ocea sions, or upon any commotion whatever; and, indeed, with good reason; for the frequent employment of the military power in a free government is exceedingly dangerous, and cannot be guarded against with too much caution.
The title of the king of England is, By the Grace of God, of Great Britain, France, and Ireland, King, Defender of the Faith. The designation of the kings of England was formerly his or her Grace, or Highness, till Henry VIII. to put himself on a footing with the emperor Charles V. assumed that of Majesty; but the old designation was not abolished till towards the end of queen Elizabeth's reign. The title of Defender of the Faith, above mentioned, was given to Henry VIII. by the pope, on account of a book written by the king against Luther and the reformation. Besides the titles already given, the king of Great Britain has others from his German dominions, as Elector of Hanover, Duke of Brunswick, Lanenburg, \&c.
Since the accession of the present royal famity of Great Britain, A. D. 1714, the royal achievement is marshalled as follows: quarterly, in the first grand quarter, Mars, three lions passant guardant, in pale Sol, the imperial ensigns of England, impaled with the royal arms of Scotland, which are, Sol, a lion rampant, within a double tressure flowered, and counter-flowered with fleurs-le-lis, Mars. The second quarter is the royal arms of France, viz. Jupiter, three fleurs-de-lis, Sol. The third, the ensigns of Ireland, which is Jupiter, and harp, Sol, stringed Luna. And the fourth grand quarter is his present majesty's own coat, viz. Mars, two lions passant guardant, Sol, for Brunswick, impaled with Lunenburg, which is, Sol, semee of hearts, proper, a lion rampant, Jupiter; having antient Saxony, viz. Mars, an horse currant, Lana, enté, or grafted, in base and in a shield sur tout, Mars, the diadem, or crown of Charlemagne; the whole within a garter, as sovereign of that most nolde order of knighthood.
The motto of Dieu et mon Droit, that is, God and my Right, is as old as the reign of Richard L who assumed it to shew his independency upon all earthly powers. It was afterwards revived by Edward III. when he laid claim to the crown of France, Almost every king of England had a particular badge or cognisance ; sometimes a white
hart, sowetimes a fetlock with a falcon, by which it is said Edward IV, alloded to the infidelity of one of his mistresses : and sometimes a portcullis, which was that of the tyouse of Lancaster, many of the princes of which were born in the castle of Beaufort. The white rose was the bearing of the house of York; and that of Lancaster, by way of contradistinction, adopted the rel. The thistle, which is now part of the royal armoriat, bearings, belonged to Scotland, and was very significant when joined to its motto, Nemo me impune lacessit, " None shait provoke me unpusished."

The titles of the king's eldest son are, Prince of Wales, duke of Cornwall and Rothsay, eart of Chester, electoral prince of Bruuswick and Lunenburgh, earl "of Carrick, baron of Renfrew, lord of the isles, great steward of Scotland, a.ad captain-general of the artillery company.

The order of the Garter, the most honourable of any in the world, was instituted by Xdward III. January 19, 13/4. It consists of the sovereign, who is always king or queen of England, of 25 companions, called Knights of the Garter, who wear a medal of St. Georgo killing the dragon, supposed to be the tutelar saint of England, commonly ensmelled on gold, suspended from a blue ribband, which wes formerly worn about their necks, but since the latter end of James I. now crosses their bodies from their slioutder. The garter, which is of blue velvet, bordered with gold, buctled under the left knee, and gives the name to the order, was desigaed as an ensiga of unity and combination, on it are embroidered the words, Honi soit qui mal y perse, "Evil be to him who evil thinks."

Knights of the Batb, so called from their bathing at the fime of their creation, are supposed to be instituted by Henry IV. about the year 1399; but the order seems to be more antient. For many reigns they were created at the coronation of a king or queen, or other solemn occasions, and they wear a scarlet ribband banging from the left shoulder, with an enamelled medal, the badge of the order, a rose issuing from the dexter side of a sceptre, and a thistle from the sinister, between three imperial crowns placed nithin the motto, Tria juncta in unum, "Three joined io sne." This order being discontinued, was revived by king George I. on the 8th of Mry, 1725; and the month following, 18 noblemen, and as many commoners of the first rank, were installed knights of the order, with great ceremony, at Westminster, where the place of installment is the chapel of Iteary VII. Their rotes are sptendid and showry, and the number of knights is undetermined. The bishop of Rochester is perpetual dean of the order, which has likewise a register and other officers.

The order of the Thistle was instituted, as the Scottish writers assert, by Achaius, in the ninth century, upon his making an offensive and defensive league with Charle magne, King of France; or, as others say, on account of his victory over Athelstan king of England, when he vowed, in the kirk of St. Andrew, that he and his pos terity should ever bear in their ensigns the figure of that cross on which the sain suffered.

- This order has been frequently neglected, and as often resumed. It consists of the sovereign and 12 companions, who are called knights of the Thistle, and have on their casigns Vol. I.
this significant motto, nemo me impune lacessit, "None shall attack me with impunity."

Thic order of St. Paffick was instituted February the 5 th, and the installation of the first knight was performed on the 17th of March, 1783. It consists of the sovereigi and 15 other knights companions. The lords lieutenants of Ireland for the time being officiate as grand masters of the order, and the archbishop of Armah is the prelate, the archbishop of Dublin the chancellor, and the dean of St. Patrick the register of the order. The knights are installed in the cathedral of St. Patrick, Dublin Their robes are splendil, and the badge is three crowns united together on a cross, with this motto, quis separabis, "Who shall separate;" 1783 fastened by an Irish harp to the crown imperial. A star of eight points encircles it on the coat.

Baronets can scarcely be said to belong to an order, having no other badge than a bloody band in a field argent, in their arms. They are the only hereditary honoy under the peerage, and would take place even of the knights of the garter, were it nbt that the latter are always privy counsellors; there being no intermediate honour between them and the parliamentary barons of England. They were instituted by James I. about the year 1615 . Their number was then 900 , and each paid about $1000 \%$, on pretence of reducing and planting the province of Ulster in Ireland ; but at present their number amounts to 700 .

A knight is a term used almost in every nation in Europe, and in general signifies a soldier serving on horseback; a rank of no mean estimation in antient armies, and entitling the parties themselves, to the appellation of Sir.

Other knighthoods formerly took place in England; such as those of bannerets, bachelors, knights of the carpet, and the like ; but they are disused. Indeed, in the year 1773, at a review of the royal navy at Portamouth, the king conferred the honour of knights bannerets on two admirals and three captains. They have no particular badge on their garments, but their arms are painted on a banner placed in the frames of the supporters.

It is somewhat difficule to account for the origin of the word esquire, which formery signied a person bearing the arms of a nobieman or knight, and they were therefore cailed Armigeri. This title denoted any person, who by his birth or property, was entitled to bear arms ; but it is at present applied promiscuously to any man who can afford to live in the character of a gentleman, without trade; and even a tradesman, if he is a justice of the peace, demands the appellation. This degree, so late as in the reign of Henry IV. was an order, and conferred by the king, by putting about the party's neck a collar of SS, and giving him a pair of silver spurs. Gower the poet appears, from his effigies on his tomb in Southwark, to have been an esquire by creation. Scrjeants at law, and other serjeants belonging to the king's honsehold, justices, of the peace, doctors in divinity, law, and physic, take place of other esquires; and it is remarkable, that all the sons of dukes, marquises, earls, viscounts, and barons, are, in the eye of the law, no more than esquires, though commonty designated by noble titles. Tbe appellation of gentieman, though bestowed so promiscuously, is the root of all Eng-

## BRTISII EMPIRE.

lish honcur; for every nobleman is presumed to be a gentleman, though every gentleman is rot a nobiemak.

The manicipal law of Eogland, or the rule of civil conduct pescribed to the inhabithats of that kingdom, may, with sufficient propricty, be divided into two kinds; the unwriten or common law, and the written or statute law. The unuritten law includes not only general customs or the common law properly so called, but also the particular custons of certain parts of the kingdom, and likewise those particular laws that are observed only in certain courts and jurisdictions. The civil law of the Roman empire, and the canon law of the pontiff, tre admitted in some cases, as established customs in. common law. The statute law of this kingdom consists of all those acts of parliament which have been enacted from the time of Magua Charta and remain unrepealed. The laws of Scotland are subject to a similar division.
The court of chancery, which is the court of equity, is next in dignity to the high court of parliament, and is designed to relieve the subject against frauds, breaches of trust, and other oppressions, and to mitigate the rigour of the law. The lord high chancellor sits as sole judge, and, in bis absence, the master of the rolls. The form of proceeding is by bills, answers, and decrees; the witnesses being examined in private: bowever, the decrees of this court are only binding to the persons of those concerned in thein, for they do not affect their lands and goods; and consequently, if a man refuses to comply with the terms, they can do nothing more than send him to the prison of the Fleet. This coort is always open ; and if a man be sent to prison, the lord chancellor, in any vacation, can, if he see reason for it, grant a habeas corpas.

The clerk of the crovn likewise belongs to this court; he, or bis deputy, being obliged always to attend on the lord chancellor, as often as he sits for the dispatch of business. Through his hand pass all writs for summoning the parliament or choosing of members, commissions of the peace, pardons, $\&$ c.

The King's Bench, so called either from the kings of England sometimes sitting there in person, or because all matters determinable by common law between the king and his subject are here tried, except sucb affairs as properly belong to the court of exchequer. This court is likewise a kind of check upon all the inferior courts, their judges, and justices of the peace. Here preside four judges, the first of whom is styled lord chief justice of England, to express the great extent of his jurisdiction over the kingdom : for this court can grant probibitions in any cause depending either in spiritual or temporal courts ; and the house of peers does often direct the lord chief justice to assue out his warrant for apprehending persons under suspicion of high crimes. The other three judges are called jutices or judges of the King's Bench.
The court of Cormmon Pleas takes cognizance of all pleas debatable, and civil actions depending, between subject and subject; and in it, besides all real actions, fines, and recoveries are transacted, and probibitions are likewise issued out of it, as well as from the King's Bench. The first judge of this court is stiled lond chief justice of the - Common Pleas, or common bench : besides whom there are likewise three other judges, or justices of this court. None but serjeants at law are allowed to piead here.

The court of Exchequer was instituted for managing the revenues of the crown, and has is power of judging both according to law and according to equity. In the proceedings according to law, 'the lord chief baron of the exchequer and three other barone, preside as judges. They are styled barons, because formerly none but barons of the realin were allowed to be judges in this court. Besides these, there is a fifth, called cursitor baron, who has not a judicial capacity, but is only employed in administering the oath to sheriffs and other efficers, and also to several of the officers of the custont-house. But when this court proceeds according to equity, then the lord treasurer and the chancellor of the Exchequer preside, assisted by the other barons. All matters touching the king's treasury, revenne, customs, and fines, are here tried and determined. Desides the officers already mentioned, there belong to the Exchequer, the king's remembrancer, who takes and states all accounts of the revenue, customs, excise, parliamentary aids and subsidies \&c. except the accounts of the sheriffs and their officers ; thip lord treasurer's remembrancer, whose business it is to make out processes againat sherifs, reccivers of the revenue, and other officers.

For patting the laws effectually in execution, a high sheriff is annually appointed for every county (except Westmoreland and Middlesex) by the king; whose office is both ministerial and judicial. He is to execute the king's mandate, and ail writs direeted to him out of the king's courts of justice; to impannel juries; to bring causes and malofactors to trial; to see sentence, both in civil and criminal afmi.s, excented; and at the ansize to attend the judges, and guard them all the time they are in his county. He is likewise to decide the elections of knights of the shire, of coroners and verderers ; to judge of the qualifications of voters, and return such as he shall determine to be duly elected. It is also part of his office to collect all public fives, distresses, amercements, into the Exchequer, or where the king shall appoint, and to make such payments out of them as his majesty shall think proper.

As his office is judicial, he keeps a court called the county court, which is held by the sheriff, or bis under sheriffs, to liear and determine all civil causes in the county, under forty shillings : this, however, is no court of record; but the court, formerly called the sheriff's tourn, was one; and the king's leet, through all the county: for in this court inquiry was made into all criminal offences against the common law, where by the statute law there was no restraint. This court, however, has been long since abolished. As the keeper of the kiug's peace, both by common law and special comruission, he is the first man in the county, and superior in rank to any nobleman thercin, during his office. He may command att the people in his county to attend bim, which is called the posse comitatus, or power of the county.

Under the sheriff are various officens, as the under sherifts, derks, stewards of the courts, bailiffs (in London called serjeants), constables, goalers, beadles, \&c..

The next officer to the sheriff is the justice of peace, several of whoun are commissioned for each county, and to them is entrusted the power of putting great part of the statute law in execution, in relation to the highasas, the poor, vagrants, treasons, felo-. nies, riots, the preservation of the game, \&ce. \&c. and they examine and commit* to

## BRITISH EMPIRE.

-prison all who break or disturb the peace, and disquiet the king's subjects. In order to punish the offenders, they meet every quarter at the county town, when a jury of 19 men, called the grand inquest of the county, is summoted to appear. The jury upon .oath is to inquire into the cases of all the delinquents, and to present them by bill, guilty of the indictment, or not guilty; the justices commit the former to goal for theis trial at the next assizes, and the latter are acquitted. This is called the quarter-sestions. for the county.

The jastice of peace ought to be a person of great good sense, sagacity, and integrity, and to be not withont some knowledge of the law : for ptherwise he may commit mistakes, or abase lis authority; for which, however he is amenable to the court of King's Bench.

Fach county contains two coroners, who are to inquire, by a jury of neighbours, how and by whom any person came by a violent death, and to enter it on record as a plen of ye crown. Another branch of their office is to inquire concerning shipwreck, and dertify whether wreck or not, and who is in possession of the goods. In his minsterial office he is the sherifl's substitute.

The civil government of cities is a kind of small independent policy of itself; for every city hath, by charter from the king, a jurisdiction within itself, to judge in all matters. civil and criminal ; with this restraint only, that all civil causes may be removed from their courts to the higher courts at Westminster; and all offences that are capital are committed to the judge of the assizc. The govemment of cities differs according to theis different charters, immunities, and constitutions. They are constituted with a mayor, aldermen, and burgesses, who, together, make the corporation of the city, and hold a court of judicature, where the mayor presides as judge. Some cities are counties, and choose their own sheriffs; and all of them have the power of making bye-laws for thein own government. Some have thought the govermment of cities, by mayor, aldermen and common council, is an epitome of the English government, by kings, lords, and commons.

The goverument of incorporated boroughis is much after the same manner ; in some there is a mayor, and others two bailiffs; all which, during their mayoralty on magistracy, are justices of the peace within their own liberties, and consequently esquires.

The cinque-ports are five bavens, formerly esteemed most important ones, that lie on the east part of England towards France, as Dover, Sandwich, Romney, Hastings, and Hythe, to which Winchelsea and Rye have been since added, with similar franchises in many respects. These cinque ports were endowed with partieular privileges by our antient kiggs, upon condition that they should provide a certain number of ships at their own charge, to serve in the wars for forty days, as often. as they were wanted.
For the better government of villages, the lords of the soil or manor (who were formerly called barons) have generally a power to hold courts, called courts-leet and oourt-baron, where their tenants are obliged to attend and receive justice.

[^10]baron the conveyances and alienations of the copyhold renants aro enrolled, and they . are adinitted to their estates on descent or purchase.

A constable is a very aytient and respectable officer of the peace, under the English constitution. Every buadred has a high constable; and every parish in that hundred a constable, and they are to attend the high constable upon proper occasions. They are assisted by another antient officer called the tything-man, who formerly superintended the tenth part of an hundred or ten free burghs, as they were called in the time of tho Saxons, and each free burgh consisted of ten families. The business of constable "is to keep the peace in all cases of quarrels and riots. He can imprisen offenders till they are brought before a justice of peace; and it is his duty to execute within his district, every warrant that is directed to him from that magistrate, or a bench of justices. The neglect of the old Saxon courts, both for the preservation of the peace, and the more easy' recovery of small debts, bas been regretted by many eninent lawyers; snd it has of late been found necessary to revive some of them, and to appoint others of a similar nature.

Besides these, there are courts of conscience in many parts of England for the relief of the poor, in the recovery of payment of small debts, not exceeding forty stallings.

There neither is, nor ever was any constitution provided with so many fences as that of England is, for the security of personal liberty. Every man imprisoned bas a right to bring a writ before a judge at Westminster-hall called his Habeas Corpus. If that judge after considering the cause of commitment, shall find that the offence is bailable, the party is inmediately admitted to bail, till he is condemned or acquitted in a proper court of justice.

The rights of individuals are so attentivly guarded, that the subject may, without the least -danger, sue his sovereign, or those who act in his name, ond under his authority: be may do this in open court, where the king may be cast, and be obliged to pay damages to his subject. The king cannot take away the liberty of the meanest individual, unlless he has, by some illegul act of which he is accused or suspected upon oath, forfeited his right to liberty, or except when the state is in danger, and the representatives of the people think the public safety makes it necessary that he should have the power of confining persons on such a suspicion of guilt; such as the case of rebellion within the kingdom, when the legislature has sometimes thought proper to pass a temporary suspension of the Habeas Corpus act. The king has a right to pardon ; but neither he nor the judges to whom he delegates his authority can condemn a man as a criminal, except he be first found guilty by 12 men, who must be his peers, or his equals. That the judges may not be influenced by the king or his ministers to migrepresent the case to the jury, they have their salaries for life, and not during the pleastre of their sovereigo.
Neither can the king take away or endanger the life of any subject, without trial, and the persons being first chargeable with a capital crime, as treason, murder, felony, or some other act injurious to society, nor can any subject be deprived of bis. liberty, for the highest crime, till some proof of bis guilt be given upon oath before a-

## BRITISH EMPIRE.

mangistrate : and he has then a right to insist upon his being brought, the first opportunity, to a fair trial, or to be restored to liberty on giving bail for his appearance. If a man is elarged with a capital offence, he must not underge the ignominy of being tried for his life till the evidences of his guilt are laid before the grand jury of the town or county in which the fact is alledged to be committed, and not unless 19 of them agree to a bill of indietment against him. If they do this, be is to stand a second trial before 12 other men, whose opinion is definitive. By the 28th Edward IIL, it is enacted, that where cither party is an alien born, the jury shall be one helf aliens, and the other denizens, if required, for the more impartial trial; a priviluge indulged to strangers in no otice country in the world," but which is as untient with us as the time of king Ethelred.

In soure cres, the man (who is nalways supposed innocent till there be sufficient proof of his guitt) is allowed a copy of the indictment, in order to assist him in making his, lefence. He is also furnished with the pannel, or list of the jury, who are his true and proper judges that he may learn their characters, and discover whether they want abilities, or whether they are prejudiced agninst him. He may in opea court peremptorily object to 80 of the number; and to as many more as he can give reason for their not being admitted as his judges ; till at last 19 unacceptionable men, the neighbours of the party accused, or living near the place where the supposed fact was committed, are approved of, who take the following oath, that they shall well and truly try, and true deliveranco make between the king and the prisoner, whom they shall have in charge according to the evidence. By challenging the jury, the prisoner prevents all possibility of bribery or the influence of any superior power: by their living near the place where the fact wras committed, they are supposed to be men who knew the prisoner's course of life, and the credit of the evidence. These only are the judges from whose sentence the prisoner is to expect life or death; and upon their iategrity and understanding, the lives of all that are brought in danger ultimately depend, and from their judgment there is no appeal; they are therefore to be all of one mind, and after they havo filly heard the evidence, are to be confined without meat, drink or candie, till they are unanimous in acquitting or condemning the prisoner. Every juryman is therefore rested with a solemn and awful trust; if he without evidence submits his opinion to that of any other of the jury, or yields in compliance to the opinion of the judge ; if he ueglects to examine with the utmost care; if he questions the veracity of the witnesses, who may be of an infamous character ; or after the most impartial bearing, has the least doubt upon his mind, and yet joins in condemning the person accused, he will wound his own conscience and bring upon bimself the complicated guilt of perjury and murder. The freedom of Englistapen cousists in its being out of the power of the jurdge on the bench to injure them for declaring a man innocent whon he wishes to bring in guilty. Were not this the ease, juries would be useless; for, far from being judges themselves, they would only be the tools of another, whose province is not to guide, but to give a sanc tion to their determination. Tyranny might triumph over the lives and liberties of the sebject, and the judge on the bench be the minister of the prince's vengeance.
iTrial by jury is so capital a privilege, and so great a security to the liberty of the subject, that it is much to be regretted that persons of education and property are often too ready to evade serving the office. By this means juries frequentiy consist of ignorant und illiterate persons, who reither have knowledge enough to understand their rights and the. privileges of Englishmen, nor spirit enough to maintain them. No man should be above serving in so important anoflice, when regularly called upon; and those wha, from indolence or prile, decline dischanging this duty to their country, seem hardly to dpserve that security and liberty. wiech the jahabitants of England derive from this invaluable institution.

Juries have, indeed, always been considered as giving the most effectual check to tyranay; for in a mation like this, where a king can do nothing against law, they are a security that ise shall never make the laws, by a bad administration, the instraments of cruelty and oppression. Were it not for jurics, the adivice given by fither Taul, in his maxims of the republic at Venice, might take effect in its fullest fatitude. " When the offense is committed by a nobleman against a subject," says he, " let all ways be tried to justify him ; and if that is not possible to be done, let him be chastised with greater noise than damage. If it be a subject that has affronted a nobleman, Iet him be punishis with the utmost severity; that the subjects may not get too great a custom of laying their hands on the patrician order." In short, was it not for juries, a corrupt nobleman might, whenever he pleased, act the tyrant, while the judge would have that power which is now denied to our kings. Btt by our bappy constitution, twhich breaths nothing but liberty and equity, all imaginary indulgence is allowed to the meanest as well as the greatest. When a prisoner is brought to take his trial, he is freed from all bonds; and though the judges are supposed to be counsel for the prisoner, yet as he may be incapable of vindicating his own cause, other counsel are allowcd hin, he may try the validity and legality of the indictment, and may set it aside, if it be contrary to law. Nothing is wanted to clear up the cause of innocence, and to prevent the sufferer from sinking under the powen of corrupt judges, and the oppression of the great. The racks and tortures that are cruelly made use of in other parts of Eirrope, to make a man accuse himself, are here unknown, and none punished without conviction, but he who refuses to plead in his own defence.

As the trial of malefactors in England is very different from that of other nations, the following account may be useful to foreigners and others, who have not seen those proceedings.

The court being met, and the prisoner called to the bar, tho clerk commands him to hold up his hand, then charges him with the crime of which he is accused and asks him whether he is guilty or not guilty. If the prisonen answers guilty, hiftrial is at an end, but if he answers not guilty, the court proceeds on the trial, even though he may before have confessed the fict ; for the law of England takes no notice of such* Confessions ; and unless the witnesses, who are upon oath, prove him. guilty of the crime, the jury must acquit him ; for they are directed to bring in their verdict according to the evi-1 dence given in court. If the prisoner refuses to plead, that is, if he will not say in

## - BRTHISH EMPIRE.

court whether be is gatiny or mot gality. Jee might, till lately, by the faw of England, ba pressed to death, with a load of iron upon his breast; but at present, the same sentence is passed on him as in case of conviction.

When the witnesses have given in their evidence, and the prisoner has, by himself or his counsel, cross-examined them, the judge recites to the jury the substance of the evidence given against tho pris6ner, and bids them discharge their conscience: when, if the matter be very clear, they commonly give their verdict without going out of the court ; and the foreman, for himself and the rest, declages the prisoner guilty or not guifty, as it may happen to be. But if any doubt arise among the jury, and the matter require debate, they all withdraw into a room, with a copy of the indictmeat, where they are locked up till they are umanimously agreed on the verdiet; and if any one of the jury should die during this their confinement, the prisoner will be acquifted.

When the jury have agreed on the verdict, they inform the court, by an officer who waits without, and the prisoner is again set to the bar, to hear lis verdict. This is unalterable, except in some doubtful cases, when the verdict is brought in special, and is therefore to be deternined by the 19 judges of England.

If tho prisoner be found guilty, he is then asked what reason he can give why sentence of death should not be passed upon him.

There is now pronerly no benefit of elergy; it is changed to transportation or burning in the hand. Upon a capital comviction, the sentence of death, after a summary account of the trial, is pronounced on the prisoner, in these words ; "The law is, That thou shalt return to the place from whence thon comest, and from thence to be carried to the place of execution, where thon shalt be hanged by the neek, till thy body be dead; and the Lord have mercy on thy soul $1^{\prime \prime}$ " whereupon the sheriff is charged with the execution.

All the prisoners found not guilty by the jüry are immediately acquitted and discharged, and in some cases obtain a copy of their indictment from the court, to proceed at Jaw against their prosecutors.

We now procced to consider the different denominations of religion, which subsist in this country; and begin with that which is established by law.

The sovereigns of Kagland, ever since the reign of Henry VIII. bave been called, in public Writs, the supreme heads of the church; but this titie conveys no spiritual meaning; as it only denotes the royal power to prevent any ecelesiastical differences, or, in other words, to substitute the hing in place of the pope before the Reformation, with regard to temporalfies and the internal economy of the church. The kings of England never intermeddle in eeclesiastical disputes, unless by preventing the convocation from sitting to agitate them, and are contented to give a sanction to the legal rights of the clergy.

The church of England, under this description of the monarchial power over it, is geverned by two archbishops and of bishops, beside the bishop of Sodor and Man ; who, not being possessed of an English bnrony, does not sit in the house of peers. The two archbishops are those of Canterbury and York, who are dignified with the Yol 1.

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- iffreas of Your Grace. The former is the first peer of the rsalm, as well as metropolltan of the English clypch. He takes precedence, next to the royal family, of all dukes ant officers of state.' He is emabled to hold ecelesiastical courts upon uli affairs thipt were formerly cognisable in the court of Rome, when not repugnant to the laws of God, or the King's prerogative, IIe has the privilege consequently of granting, in certains cases, lifences and dispensations, together with the probate of wills, when the party dyiug is worth upwards of five pounds, Besides his own diocese, he has under him the bishops of.Lonton, Winchester, Kly. Lincoln, Roghester, Litehfield, and Coventry, Hereford, Worcester, Bath and Wells, Saliabury, Exeter, Chichester, Norwich, Gloacester, Oxford, Peterburgh, Bristoi ; and in Wales, St. David's, Landafi, St. Asaph, and Bangor.

The archbishop of Canterbury has, by thê constitution and laws of England, such extensive powers, that ever since the death of archbishop-Laud, the government of Enghaud bas prudently thought proper to raise to that dignity men of very mollerate principles; but they have geverally been men of considerable learaing and abilities. This practice has been attended with execllent effects, with regard to the publie tranguillity of the cluarch, and consequently of the state.
The arelibishece of York takes place of all dukes not of the blood royal, and of all officers of state, the lord chancellor excepted. He has in his province, besides his oin diocese, the bishoprics of Darham, Carlisle, Chester, and Sodor and Man. In Nortbumberland he has the power of a palatine and jurisdiction in all eriminal proceedings.
The bishops are addressed by the appellation of Your Lordship, styled "Pight reverend father in God," and take the precedence of all temporal barons. They bave all the priviteges of peers; and the bishoprics of London, Winchester, Durbam, Salisbury, Ely, and Lincoln, require no additional revenues to support their prelates in the rank of noblemen.

English bishops are to examine and ordain priests and deacons, to consecrate churches and burying places, and to administer the rite of confrmation. Their jurisdiction relates to probation of wills ; to grant adaninistration of goods to such as die intestate; to take care of perishable goods, when no one will administer; to collate to benefices; to grant nastitutions to livings ; to defend the llberties of the church; and to visit their own diocese once in three years.

England contains about 60 archdeacons, whose office it is to visit the churches twice or thrice a-year; but their offices are less lucrative than they aro honourable. Subordinnte to them are the rulal deans, formerly styled arch-preslyters, who signify the bishop's pleasure to his clergy, the lower class of which consists of priests and deacons.

The ecclesiastical government of England is, properly speaking, lodged in the convocation, which is a national representative or synod, and answers pretty nearly to the ideas we have of a parliament. They are convoked at the same time with every parlikment ; and their business is to consider of the state of the church, and to call those to an account who have adranced new opinions inconsistent with the doctrines of the church

## BRITISH EMPIRE.

of England. Somic clergmon, of an intolerant and persecuting spirit, during the refign of queen Amne, and in the beginning of that of George 1. raised the power of the conwocation to a height that was inconsistent with the principles of religious tolemtion, and indeed of civil liberty; so that the erown was obliged to exert its prerogative of calling the members together, and of dissotving them; and ever siace they have wot been permitted to sit for any time in which they could do bosiness:
The court of arches is the most antient consistory of the province of Canterbory ; and all appeals in church matters, from the judgment of the inferior courts, ane directell to this. The processes ron in the name of the judge, who is ealled dean of the arches; and the advocates who plead in this court must be doctors of the civil lav The court of audience has the same authority with this, to which the arehbishop's chancery was formerly jomed. The prerogative court is that wherein wills are proved, and adininistrations taken out. The courts of pecuilars, relating to certain parishes, live a jurisdiction among themselves, for the probate of wills; and are therefore exempt from the bishop's courts. The see of Canterbur? lias no less than 15 of these peculiars. The court of delegates receives its name from its consisting of commissioners delegated or appointed by the royal commission; but it is no standing court. Every bishop has also a court of his oun, called the consistory gourt. Every archdeacon has likewise his court, as well us the dean and chapter of every cathedrai.
The ecefesiastical establiafiment of Ireland is perfectly similar to that of England.
The bounds of this work do not admit of enterime at large upon the doctrinal and economical part of the church of Scotland. It is sufficient to say that its first principle is at parity of ecelesiastical authority among all its presbyters; that it agrees in its censares with the reformed churches abroad in the chief heads of opposition to popery; Lut that it is modelled principally aiter the Calviaisticat plan established at Geneva.

This establlstiment, at various periods, proved so tyrannical over the laity, by having the power of the great and lesser excommunication, which were attended by if forfeiture of estate, and sometimes of life, that the kirk sessions, and other bodies, have been abridged of all their dangerous posers over the laity, who were extremely jealous of their being reyived. Even that rettic of popery, the obtiging formicators of both sexes to sit upon what they call a repenting stool, in the church, and in full view of the congregation, begins to wear out, it having been found that the Scotch women, on account of that penance, were the greatest infanticides in the vorld. In'short, the power of the Scotch elergy is at present very moderate, or at feast very moderatcly exercised; nor are they accountabld for the extravagancy of their predecessors. They have been, ever tince the Revolution, firm adherents to civil liberty and the house- of Hanover; and acted with reinarkable intrepidity daring the rebellion in $17+5$. They dress without clerical robes; but some of them appear in the pulpit is gorns, after the Geneva form, and bands. Tliey make no use of set forms in worship. The rents of the bishops, since the abolition of epispocacy, are paid to the king, who commonly appropriates them to plous purposes. A thousand pounds a-year is always sent hy bis majesty for the use of protestant schools erected by act of parliament in North Britain, and the

Western Isles; and the Scotch clergy, of late, have planned out funds for the support of their widows and orphans. The number of parishes in Scotland are 890, of which $S 1$ are cullegiate chufches; that is, where the cure is served by more than one minister.

The highest ecclesiastical autnority in Scotland is the general assembly, which we may call the coclesinstical parliament of Scotland. It consists of commissioners, same of whom are laymen, finder the title of ruling elders, from presbyteries, royal burghe, and universifies.

A presbytery, consisting of less than 12 ministers, sends two ministers, and one ruling elder; if it contains between 19 and 18 ministers, it sends threc, and one ruling elder; if it contain between 18 and et ministers, it sends four minizers and two ruling elders; but it the presbytery has of ministers, it sends five ministers and two ruling elders. Every royal burgh sends one ruling elder, and Edinburgh two ; whose election must bo attested by the respective kirk sessions of their own burghs. Every university sends one commissioner, usually a minister of their body. These commissioncrs are chosen yearly, six weeks before the meeting of the ussembly. The ruling elders are often persons of the first quality of the country.

The king presides by his commissioner (silbo is always a nobleman) in this assembly, which meets amnully in May; but he has co voice in their deliberations. This assembly chooses a clergyman for its moderator, or speaker. Appeals are orought from all the other ecclesiastical courts in Scotlond, to the general assembly; and no appeal lies from its determination in religious matters.

Provincial synods are next in authority to the general assembly. They are composed of a number of the adjacent presbyteries, over whom they have a power; and there are 15 of thean in Scotland; but their acts are reversible by the general assembly.

Subordinate to the synods are the presbyteries, of which there are 69 in Scotland, each consisting of a number of contiguous parsshes. The ministers of these parishes, with oue ruling elder, chosen half yearly out of every session, compose a presbytery. These presbyteries meet in the head town of that division, but have no jurisdiction beyond their own bounds, though within these they bave cognizances of all ecelesiastical causes and matters. A chief part of their basiness is the ordination of candidates for livings, in which they are regular and sotemn. The patron of a living is bound to nount nate or present in six months after a vacancy; otherwise the presbytery fills the place, jure devoluto; but that privilege does not hold in royal burghs.

A kirk session is the lowest ecclesiastical judicatory in Scotland, and its authority does not extend beyond its own parish. The members consist of minispers, elders, and deacons. The deacons are laymen, and act nearly, as churchwardens do in England, by baving the superintendency of the poor, and taking care of other parochiat alfairs. The cider, or, as he is called, the ruling eider, is a place of great parochial trust, and he is generally a lay-person of quality or interest in the parish. The elders are supposed to act in a kind of co-ordinancy with the minister, and to be assisting to him in many of his clerical duties, particularly in catechising, visiting the sick, and at the communien table

## 3RITISH EMPIRE.

- The office of ministers, or preaching preslyters, includes the offices of duacons and ruling elders; they alone can preach, administer the sacrament, cateekike, proasonce charch censures, ordain deacons and ruling elders, assist at the imposition of bands upon other ministers, and moderate or preside in all ecclesiastical courts o: judlcatories.

Having thus described the eeclesiastical establishment of the United kingdom, it becomes necessary to enumerate the different denomimations of dissenters: and bere it will be proper to begin with sucb as aro so mnited among theaselves as to compose collective bodics, governeal by fixed rules of discipline. Among these we may reckon the sociaty of Friends, or, as they are usually denominated, Quakers.

The Quakers are a religious sect, which took its rise about the middle of the 17 th century. A summary account of their tencts having been pablished by themselves, the following is abstrueted from it.
" They believe in one cternal God, the Creator and Preserver of the universe, and in Jesus Christ, his Son, the Messials and Mediator of the new covenant."
"When they speak of the miraculous conception, birth, lite, miracles, death, resarrection, and ascension of our Saviour, they use scriptural terms, and acknowledge his Divinity."
"To Clirist alone they give the title of the Word of God, and not to the scriptures, although they highiy esteeni these sacred writings, in suberdination to the spirit from. which they were given forth."
"They believe (and it is their distinguishing tenet), that every man coming into the world is endued with a mieasure of the light, grace, or good spirit of Cbrist, by which, as it is attended to, he is enabled to distinguish good from evil, and to correct the corrupt propensities of his nature, which mere reason is altogether insufficient to overcome."
"They think the influence of the Spirit especially necessary to the performance of worship; and consider as obstructions to pure worship, all forms which divert the attention of the mind from the secret influence of this unction from the Holy One. They think it incumbent ór Christians to meet often together, and to wait in silence to have a true sight of their condition bestowed upon them ; believing even a single sigh arising from such a sense, to be more acceptable to God than any performance, however specious, which origmates in the will of man."
"As they do not encourage any ministry but that which is Dolieved to spring from the influence of the Holy Spirit, so neither do they restrain this influence to persons of any condition in life, orgto the male sex alone; but as male and female are ene in Christ, they allow such of the female sex as are endued with a qualification for the ministry, to exercise their"gifts for the genernl edification of the church."
"Respecting baptism, and what is termed the Lord's supper, they believe that the baptism with water, administered by John, belonged to an inferior and decreasing dispotisation."
" With respect to the other rite, they believe that communion between Christ and tis Vol. I.
church is not maintamed by any external performance; but only by a real participation of his divine nature by fiath."
" They declare againt oaths and war, nbiding literally by Christ's positive injunc: tion, "Swear not at all." From the precepts of the gospel, from the example of our Lord, and from his spinit in their hearts, they maintain that wars and fightings are repug nant to the gospel."
" They disuse the natnes of the months and days which were given in honour of the heroes or fabe gods of the heathens; and the custom of speaking to a single person in the plural number, as having arisen also from motives of adulation. Compliments, superfluity of apparel and forciture, ontwarl show of rejoicine and mourning, and observations of days and times, they esteem to be incompatible with the simplicity and sincerity of a Clristian life ; and public diversions, garoing, and other vain amusements of the wortd, they condems as a waste of tione, and diverting the attention of the mind from the sober duties of life."
"This society bath a discipline established among them, the purposes of which are the relief of the poor, the maintenance of good order, the support of the testimanies which they believe it is their duty to bear to the world, and the help and recovery of such as are overtaken in faults."
" It is their decided judgment that it is contrary to the gospel to sue each other in a court of law. They enjoin all to end their differences by speedy and iupartial arbitration, according to rules laid down. If any refuse to adopt this mofle, or, having adopted it, to submit to the award, it is the rule of the society that sud be dsorned."

The Methorlists form a very considerable boily in this country. This seet originated fiom a society, which was founded in 1729, by one Mr. Morgan and Mr. John Wesley. In the month of November that year, the latter, being then fellow of Lincoln college, began to spend some evenings in reading the Greek New Testament, along with Mr. Charles Westey, student, Mr. Morgan, commoner of Christ's Church, and Mr. Kirkham, of Merton college. Three years after, they nere joined by Mr, Ingham, Mr. Broughton, and Mr. Hervey; and in 1735, by Mr. George Whitfield, then in his 18 th ycar.

This society attained the name of Methodists from the strict reg-ilarity of their living. Desides their attendance on private and social wonships and their frequent receiving the communion, they ittracted universal notice by their visiting the sick, the poor, and the prisoners in the gaol. They instituted a fund for the relief of the poor; and, the better to accomplish their benevolent designs. Mr. Wesley abriplged himself of alt the superfluities, and some of the necessuries of tife; and, by proposing the scheme to some gentemen, they quickly increased their funds to $80 /$. a-year.

In 1735, many of the members of this fraternity dispersed; Messrs. J. and C. Wesley. lugham, and Delamotte, embarking with general Oglethorp as missionaries to Georgia. It is not our intention to follow them in their voyage to the Western continent, but to sive a brief and impartial account of theiç labonrs in the United Kingtom.

Ou Mr. Wesley's return from a visit which he made to count Zinzendorf, in 1798, he applied bimself with the greatest assiduity and soccess to the projagation of this doctrine. Multitudes of converts were made in various parts of the kingdom ; and the reproaches poured upon hiin by his opponents, seem to have rendered his zeal more fervent if posible than before. Ifis original plan seems to have been to make an union of elergy' men, and disseminate his principles by their méans. Finding this to be impracticable, he had recourse to lay preachers, who willingly yiolded obedience to one who was so far their superior in knasledge and abilities; and thus he became the head of a sect.

From the year 1738 to $1747, \mathrm{Mr}$. Wesley and his itinerants were employed in various parts of England. In 1747 be went over to Dublin, where a society had been formed by one Mr. Williams, a clergyman. Here they proved so successful, notwithstanding the great number of catholics and the violence of their other opponents, that in 1750 , they had erected meeting houses in every part of the kingdom, and had formed 99 circuits, which employed 67 itinerants, besides a considerable number of local preachers. In Scolland their labours have not been equally suecessful, for in 1790, there were only eight circuits supplied by 90 itinerants.

Mr. Whittield was equally indefatigable, and probably more successfol, as to his personal labours, than Mr. Wesley, He soon became extremely popalar, and collected mumerons followers in England, Scotland, and Ireland, as well as in America. He was patronised by the late countess of Huntingdon, by whose neme his followers are generally distinguished.

The other denominations of protestant dissenters may generally be reduced to these three : Presbyterians, Independents, and Baptists.

The Presbyterians are of two kinds; those who conform to the doctrines and discipline of the lirk of Scotland, and thase who have assumed the name of Unitarians, as expressive of their dissent from what is called the orthodox belief respecting the Trinity and the diviaity of Christ.

The Independents are generally Calvinists, and are styled Independents from their forming out of each congregation a society, which holds itself to be fully competent to the transacting of all ecclesiastical concerns.

The Raptists adopt the same mode of church government with the Independents, but differ from them in bsptizing only aduls, and that by immersion. To these sects may be added the Moravians, of whom we intend to speak more largely in our account of Geruiny.
The Catholics in England are not numerous, but are many of them of antient families, and are considered as more tolerant than their bretliren in-Ireland or on the continent.

The Jeirs have several synagogues at London and other places; but though they pqseess many privileges do not so much abound in this country is in Hulland, Poland, or many others.
-Fiee thinkers, or Deists, are such as professedly renounce revelition, and folloir
whet they style the religion of nature. Such were Toland, Tindul, Bolingbroke, Shaftesbury, Blount, Clubb, ffume, and Mandeville. These abound more in the higher than in the lower circles ; but their numbers are at this time undoubtedly diministing.

The religious and benevolent societies which are supported by the iuhabitants of the United Kingdom are equally numerous and reppectabte. Such are, 1st. The society for the propagation of the gospel in foreign parts which was instituted by William III, in 1701. 2nd. The society for promoting Christian knowledge. Ind. Society in Scotlaud for the same purpose which has laboured for the conversion of the Highlanders. 4th. The society for promoting religious knowledge among the poor. 5 th. The London Missionary society. 6th. The Baptists Missionary society, 7th. The Edinburgh Missionary socicty. 8th. The British and Foreiga Bible society. 9th. The religious tract society. 10th. The royal Humane society. Heh. The, Philanthrophic society for the prevention of crianes, \&e. \&c. \&c.

The Universities of England are two, Oxford and Cambridge : in Scotland four, St. Andrews, Glasyow, Aberdeen, and Edinburgh; in Ireland one, that of Dublin, founded by queen Elizabeth and very richly endowed.

In each of these universities there are four facultics; viz. Theology, Lair, Physic, and the Arts and Sciences, comprehending methematics, natural and moral philosophy, \&c, and in Oxford and Cambridge music is considered as a fifth ficalty. In each of these fuculties there are two degrees, those of Bacbelor and Doctor, only in the faculty of Arts thic upper degree is styled that of Master, not Doctor.

Of public schools there are a very considerable number, aunong the principal are to be reckoned those of Eton and Westminster.

Some branelies of literature may now be considered as stationary or retrogressive, while others are making rapid progress towards perfection. To the former of these may be referred Poctry, and the pure Mathematics ; to the latter History, Geograply, Botany, Chemistry, and Nataral Philosopby.

The first place among our literary societies is claimed by the Royal Society, affer this follow the Royal Society of Edinburgh, the Medical Society of London, the literary and Philosophical Society at Manchester, the Royal lrish Academy, the Society for promoting the discovery of the interior parts of Africa, \&e,

Other societies have successfully extended their influence to the mechanical arts and manufacturers, all of which are at present in a state of rapid improvement.

Great Britain is, of all other countries, the most proper for trade; as well from its situation as an island, as from the freedom and excellency of its constitution, and from its natural products, and considerable manufactures. For exporfation, our country produces many of the most substantial and uecessary commodities; as buttcr, cheese, corn, cattle, wool, iron, lead, tio, copper, leather, copperas, pit-coal, alum, saffron, $\& \mathrm{c}$. Our corn sometimes preserves other countries from starving. Our horses are the most serviceable in the world, and highly valued by all nations for their hardiness, beauly, aud strength. With beef, mutton, pork, poultry, biscuit, we victual, not only our owa fiects, but many fore a vessels that come and go. Our irgn we export, manufactured in

## BRITISH EMPIRE.

"great guns, earcases, bombs, \&e. Prodigious and almost iacredible is the value likewise of other goods from hence exported, viz liops, flax, lecmp, hats, shoes, bouse-hold-stuff, ale, beer, red-herrings, pilchards, salmon, oysters, liquorice, watehes, rib- --bańds, toys, \&c.
There is scarcely a manufacture in Furope, bot ishat is brought to great perfection in England, The woollea manufacture is the most considerable, and exceeds in goodness and quantity that of any other nation. Hard-ware is anot\#er capital article : locks, edge-tools, guns, swords, and cther arms, are of superior excellence; hpugbold utensils, of brass, iron, and pewter, also are very great articles; und our cloeks and watches era in great estecin.

Of the British commeree, that branch which we enjoyed exclusively, viz the cornfinerce with our colonies, was long regarded as the most advantagcous. Yet, since the separation of the American States from Great Britain, the trade, the industry, and manufactares of the latter bave continually increased. New markets have opened, the returns from which are more certain and less tedions than those from America. By supplying a greater varicty of markets, the slitl and ingenuity of our artizans have taken a wider range, the productions of their labour have been adapted to the wants, not of rising colonies, but of nations tho most wealthy and the most refined; and our conrmereial system, nis longer resting on the artificial basis of monopoly, has been rendered more solid, as well as more liberal. The trade of England to the United States, in a vuibety of articles, is likewise very considerable.

The principal istands belonging to the English in the West Indies are Jamaica, Barbadoes, St. Christopher's, Grenada, Antigua, St. Vineent, Douminica, Auguila, Ner vis, Montsernt, the Bermudas or Souncr's Islands, and the Babama or Lacayan Islands in the Atlantic ocean, besides Martinico and St. Lucia, lately taken from the F'reneh.
The Eugli-h triute uith their West India Islands consists chiefly in sugar, rum, cofton. logwood, cocos, coffec, pimento, ginger, indigo, materials for dyers, mahogany, and machineel plonks, drugs, and preserves; for these, the exports from England are osnaburghs, a coasse kind of Jinen, with which the West Indians now elothe their-siaves; linen of all sorts, with broadt-coth and kerseys, for the planters, their overseers, dind families; silks and stuffs for their ladies, and twousehold servants; bats, red cajs for their slaves of both sexes; stoekings and shoes of all sorts ; gloses and millinery ware, and perukes; laces for linen, woolfen, and silks; strong beer, pale beer, pickles, eandles, butter, mot' cliecse ; from-ware, nis sams, files, axes, hatehets, chissels, adzes, hoes, mattockr, gonges, planes, nugurs, nails, lead, powder, and shot; brass and copper-wares ; toys, coals, and pantiles; cabinet-wares, suuffs, and in general whatever is raised -or manufactured in Great Britain, also negroes from Africo, und all sorts of Iodia goods.

The trade of England to the Past Indies constitutes one of the most stupendons pofitical as well as commercial machines tirat is to be met with in bistory. The trado itself is exclusive, and lodged in a company, which has a temporary monopoly of it, in conVol. I.

## BRITISH EMPIRE.

sideration of moncy advanced to the government: This company exports to the Ens:* Indies all kinds if wooplon manufacture; all sorts of hard-ware, lead, bulliou, and guicksilver. Their imports consist of gold, diamonds, raw silks, drugs, tea, pepper, arrack, porcelaia or china ware, saltpetre for home consumption; and of wrought. silks, muslins, calicoes, cottons, and all the woven manufactures of Thilia, for exportution to foreign countries.

To Turkey, England Sends, in her own bottoms, woollea eloth, lin, lead, and iron, hardware, ircy ptensils, clocks, watches, verdegris, spices, cochineal, and logwood. She imperts from thence raw silks, carpets, skins, dying drugs, cotton, fruits, medicinal drugs, coffee, and some other articles, Formerly the balance of this trade was $500,000 \mathrm{~K}$. annually, in favoor of England. The English trade was aftervards diminished through the practices of the. French; but the Turkcy trade at present is at a very low ebb with the Freuch as well as thie English.

England exports to Italy woollen goods of various kinds, peltry, Jeather, lead, tin, fish, and East India goods; and brings back raw and thrown silk, wiaes, oil, soap, olives, oranges, Teavots, pomegranites, tried fruits, colours, anchovies, and other articles of laxury: the balance of this trade to England is minually about $200,000 \%$.

To Spain England sends all kinds of woollen goods, leather, tin, lead, fish, corn, fron and brass manufactures, baberdashery wares, assortments of linen from Germany and elsewhere, for the American colonics ; and receives in retorn, wines, oils, dried fruits, oranges, lemons, olives, wool, indigo, cochineal, and other dying drugs, colours, gold and silver coin.:

Portugal formerly was upon commercial accounts, the favourite ally of England ; whose fleets and armies lave more than oneo saved her from destruction-- England sends to this country almost the same kind of merehandizes as to Spain, and reccives in return vast suantities of wines, with oils, salh, dried and moist fivits, dying drugs, sand gold coin.

The treaty of commerce between Faglind and France has been so varioasly represented, that it is not easy accurately to estimate its advantages; 'but' whatever they were, a total suspension of them has now taken place by the presentwar, and their return is yery encertain.

England sends to Flanders, serges, flannets, tin, lead, sagars, and tobacco ; pnil receives in return, laces, linen, cambrics, and other articles of luxury, by which England loses upon the balance 250,000 . steriting yenrly.

To Germany England sends cloths and stuffs, tin, pervter, sugars, tobacco, and East India mercbandize ; and brings thence vast quantities of limen, thread, goat skins, tinsed plates, timbers for all uses, wines, and many other acticles, Piefore the late war, the balance of this trade was thought to be $500,000 \%$, annually, to the prejudice of England: but that sum is now greatly reduced, as most of the German priaces find it their interest to clothe their armies in English mavugetures.

- Wo have already arentioned the trade with Denmark, Norway, Sireden, and Pussia, which formerly was against England; but the balance was lately vastly diminished, by the great inprovements of her American colonies, in raisigg hemp, Hax, making 'pot-ushes, iron works, and tallow, all which used to be furnished to her by the northern powers.

The goods exported to Poland, cliefly by the way of Dantzic, are many, and the duties upon them low. Many articles aro sent there, for which there is no longer any demand in offier countries. Poland consumes large quantities of our woollen goods, hardware, tead, tia, salt, sea-coal, \&c. and the expoits of manufictured tobacco is greater to Polnad than to any other country. The balance of trade may be estimated much in our favour, but the late change of circumstunces in Poland mast stop tirnt trade.

To Ilolland England sends an immense quantry of many sorts of merchandize ; sucti as all kinds of woollen goods, liides, com, coals, East India and Turkey commodities, tobacco, tar, sugar, rice, ginger, and other American productions; and makes return in fine limen, face, eambrics, thread, tapes, incle, madder, boards, drugs, whalebone, trait-oil, toys, and many other things; land the batance is usually supposed to be much in farour of England.

England sends to the coast of Guinea sundry sorts of coarse twoollen and linen, iroin, pentor, triak, and hardware manufactores, lead, shot, swords, knives, firearms, gumporder, and glass manufactures. And, besides its drawing no money out. of tho kingdom, it lately supplied the American colonies with negro slaves, amounting in number to above 100,000 annually : but this trade is now happily abolished. The other returns are in gold-dust, gam, dying and other drugs, red-wood, Guineagraias, and ivory:
To Arabia, Persia, Chine, and other parts of Asia, England sends much foreiga silver colir and bullion, and sundry English manufactures of woollen geods, and oe lead, iron, and brass; and brings home irom those remote regions muslins and cottons of tany various kinds, calicoes, raty aad wrought silk, chintz, teas, porcelain, golddust\% coffee, saltpetre, and many other drugs. And so great a quantity of those various merchandizes are exported to forcign European nations, as more than abundantly compensates for all the silver bullion which England carries out.

During the infancy of conmierce to foreign parts, it was judged expedient to grant exclusive charters to particular bodies or corporations of men ; hence the East lndia, South Sea, Hudson's Bay, Turkey, Russia, Royal African companies: but the trado to Turkey, Russis, and Africa, is now laid open ; though the merchant who proposes ta trade thither must become a member of the company, be subject to their laws and regulations, axd advance a simall sum at admission, for the purposes of supporting constils, forts, \&c.

The number of the inhabitants of this country is a subject that has long exercised the jokgment of those who are skilled in the science of political arithmetic; but it is now ascertained by an actual enumeratios, taken in 1801, by the authority of pariament, and is as follows.

## BRITISH EMPIRE.

## THE POPULATION OF ENGLAND, SCOTLAND, AND WALES,

| Summaiky. | Mates. | Females. | Total |
| :---: | :---: | :---: | :---: |
| England | S,987,935 | 4,943,499 | 8,331,434 |
| Scotland | 734.487 | \$6+,581 | 1,599,068 |
| Wales | Q57,178 | 284,568 | 541,546 |
| Army | 198,851 |  | 198,35 1 |
| Navy, | 126,979 |  | 196,979 |
| Seamen in registercd vesiols | 144.558 |  | 144,558 |
| Convicts | 1,410 |  | 1,410 |
| Grand Tetal | 6,450,198 | 5,492,448 | $10,949,616$ |

In England 1,5 54,997 persons are employed chiefly in agriculture, and $1,789,589$ in trade, matufactures, and haudicrats. In Walus 189,052 are employed in agriculture, and 33,822 in trade, $\& \cdot \mathrm{c}$.

Fondon, the metropolis of England, and perhaps the most populous and rich city on the face of the globe, is situated in an extensive plain, or valley, watered by the Thames, only confined ou the noth by a few small elevations ; bcing a place of great antiquity, and first mentioned by Tacitus. It was in former times of far less extent, and surrounded with walls, but now inclades Southwark, in itself a city, on the other side of the Thames ; and Westminster, another city on the west; so that, like some places of antient geography, it might be mamed Tripoles, or three cities. The noble river Thames is bere about 440 yards in breadth, and is crowned with three bridges, the most antient of which was formerly covered with houses and shopp, now removed;

* but the inconveniences it presents to navigation cinnot be so easily remedied. The Thames is crowned with a forest of masts, and conveys into London the wealth of the globe, forming an excellent port, without the danger of exposure to maritime cmmity.

It is, however, a great defect, that instead of open quays and streets on the banks of the stream, the view is obstructed, on both sides, by irregular masses of buildings, which do not even admit of a path. London presents almost every variety which diversifies human existence; upon the east it is a sea-port, replete with mariners, and with the trades connected with that profession. In the centre it is the seat of aumerous mapufactures, and prodigious commerce; while the western, or fashionakte extromity, presents royal and noblo splendour, amidst scenes of the highest lusury, and most rumous dissipation.

Few cities can bonst a more salubrious situation, the subjacent snil being pare gravel, by which advantage, united with extensive sewers, the houses are generally dry, cleanly, and healthy. Provisions and fucl are poured into the capital, even from
distant parts of the kiogilom, the latter unticle being coals, from the countics of Nerthumberland and Durham, transferred by sea, and thenco deppminated sea-coal. Thee smoke is csteemed to purify the dampmess of the air, but injure the beauty of the edifices; the sublime architecture of St. Paul's for instance, being obscured by sable vieeds, London requires in ons year 101,075 beeves, 707,456 sheep, with calves and pigs in proportion; the vegetables and fruits nonually poasumed in the year, are valued at $1,000,090 \%$. sterling.

Its length from Hyde-park Comer oh the West, to Poplar on the East, is about six mikes the breadith unequal, from threo miles to one and-less ; the circumference may be about 16 miles. The houses are almost universally of brick, and disposed with insipia similarity :-but in recompeace, most of the streets are excellently poved, and have convenient paths for foot passengers, a mark of respect to the common people, almost unkuown to the capitals on the continent. Another natiomal feature, is the atbundance of charitable foundations, for almost every infirmity and distress incident to human nature. The multitude and rich display of the shops impress strangers with ustonishment, nor are they less surprized at the constant torrent of pupulation rolling through the pribelpal streets, hor at thic strurm of carriages at att times crowting all the roads to the capital, and the noctarial illuminations which extead even to four or five miles of the environs.
Though thie imprestion of the tide bo folt as far as Staites, the Thames, at London, and a considerable way below, is untalnted with salt. Its waters are raised by machinesry, and conducted- in innumerable pipes for domestic uses, white the parts mole remote are supplied with water from some small ponds near Hampstead, and from that laudable work of Middleton, tho New River, which conveys it copious nddition from the North. The water of the Thanes is said to impart peculiar qualities to the liqnor called porter ; but this idea perhaps only teads to strengthen the monopoly of the Londou breirers.

The environs of Iondon present a spectacle almost as grand and interusting as that of the metropolis itself. Extensiverstreets of villas and bouses are contioued in almost every direction, within seven or eight miles. Yet few of the public edifices in London ean pretend to auseb magnificence. The cathedral of St. Panl's forms one of the chief exceptions; the exterior architecture of this principul cathedral of the protestant faith being majestic to a -degree of sullimity, but the interior is defective in decoration. The tombs recently ordercd, in imitation of those in Westminster, will contribute to obviate this remark. In the colonnude, fountains, \&ce. it yields to St. Peter's at Rome; and, in general, the pybilic edifices of London are in disadvantageous positions, without proper avenues or points of prospect. It is surprising that fountains, or jets d'eau, which so much difersify the omaments of a city, though in a garden they be puerile, should be alnost unknown in. Jondon, except a dimiontive specimen in one of the courts of the Temple.

- Westminster abbey may claim the next rank to St. Paul's cathedral, being not ouly in itself a grand impressive edifice, of the Gothic class, but as being the sanctuary of the illustrious dead, of all ranks, periods, and profesions, from the victo-

Kob I.
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rious monareh down to the humble pedagogue. It wos founded by Sehert, King of the East Saxons ; was afterrards ruined by the Dancs, nad refounded by Edvard the-Cobfeesor, whose tomb is the most anticut porr remnining. The prefint edifice was the work of Heny III ; and Heary V1I, added an elegmit chapel, and his tomb, the work of Torrigiano; in the vaults under this chapel, the late mionarchs and their offspring have been deposited. The body of the edifice is crowded with illustrious tombs, dccreed by the bation, orecrected at the expence of individuals; this part is open to genemal inspection; and others, more retired, are displayed by tho attendants for a trifing remuncration. Adjacent are the two houses of parfanent, and Westminstor Lall, a vast room, 230 feet long, and 70 wide, with a curious ceiling of Irish oak, and apartucnts on the side, in which urc held the primecipal courts of justice.

The churches and chapels exceed 200 in number, and a few aro of beautifal architectere. Some are the productions of Inigo Jones ; is is also the noble banquetinghouse at Whitehall, with a masterly ceiling, painted by Rubens, representing the apoticosis of James I.
Near London bridge, a pillar of 199 feet elevates its bold front above most of the spires, and is called the Monument, being destined to commemorate the conflogration of London, in the reign of Charles. II. The Tower is only venerable from antient fame; and remarkable for the cariosities which it contains. The new edifice, erected by the company trading to the East Indies, has a considerable degree of elegance, and sime of the lialls of the companies liave a respectable-nppearance. The Bank is a structure of the Ionic order, more remakkible for its intrinsic wealth than exterior magnificesuce. The arclitecture of the prison called Negwgite is singulaly appropriate. Somerset Honse presents an elegant specimen of recent architecture, but may, perhaps, in future times, be found as deficient in solidy, ns it is at present inconvenient in the beight and stegness of the stairs, and in some other respects. The terrace of the Adelphi is a pleasiug piece of arclitecture, and presents an interesting prospect of the river.
The Pantheon is an elogant edifice resembling that at Rome, but dediented solely to public amusement. The royal palace of St James's is an irregular building, of very modest aspect. The queen's palace, formerly Buckingham house, not ouly aspires to elegant canvenience, but contains some valuable paintings, and an excellent library, formed sulely by the taste of the reigning monarch. The palace of Kensington presents an exuberance of valuable pictures, little known and rarely visited. The houses in the West end of the town, of themselves shew the gentle gradations of rank in England, those of the chief nobility being rarely distinguishable from the oflers; the more remarkable are, Foley-house, the Duke of Manchester's; the late Rlrs. Montague's, in Portman-square ; Chesterfield house ; lord Spencer's, in the Green park; Marquis of Lansloyn's, Berkely-square ; duke of Northumberland's, at Charing-cross; Burling-ton-holisc, with a fine colonnade behind the front wall; and those of the duke of Devonthire and the earl of Bath, all in Piccadilly ; nor must Cumberland-house and Caritonhouse, in Pall-Mall, be forgotten.
Next to the capital in dignity, though not in extent for opulence, is York, which is

## BRITISH EMPIRE.

not only the chief city Gi, a argte and fertile province, but may be regarded as the metropolis of the North of Enghand. The nome has been gredually corrupted from the antient Eboracum, by which denomination it was reinarkable even in the time of the * Romans, for the temporary residence and death of the Roman emperor Severus. This vencrable city is divided by the river Ouse ; and the gothic cathedral is of celebrated beauty, the western front being peeuliarly rich, the chief spire very lofty, and the windows of the finest painted glass. York divides with Edinburgli the winter visits of the northern gentry.

But Livcrpool, in Ianeashine, is now generally allowed to approach the nearest to London iu wealth and popalation, being the seat of a vast commerce, which has been continually on the increase, siace the beginning of the last century, when it was merely a village. It is first mentioned in the reign of William the Conqueror; yet in Leland's time, was not even a parish, but had only a chapel, the parish-church being that of Walton. In 1699, Liverpool was admitted to the high honour of being constituted a parish. In 1710, the dock was constracted; and the chief merchants came-originally from Ireland, a circimstance which has given a distinct tinge to the maniuers of the towa. Thencefurth the progress was rapid; and in 1760 , the population was computed at 85,787 souls. In 1773 , they amounted to 34,407 , in 1787 , to 56,670 ; at present they may be computed at between 70 and 80,000 .

The number of slips which paid duty at Liverpool, in 1757, was 1871; in 179h they amounted to 4,265 . In the African trade, a distinguisling feature of Liverpool, there was only onc slip employed in 1709 ; in 1792, they amounted to 192. It was computed, that betireen the end of August, 1778, and that of April, 1779, Liverpool sent out no less than 170 privateers. In the recent act for the contribution of seamen to theroyal navy, according to the ships registered in each, the estimate is as follows.

| London | 5795 | Hull | 791 | Bristor | $666^{\circ}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Liverpoor | 1711 | Whitehaven | 700 | Whitby | 575 |
| Newcastle | 1940 | Sunderland | 669 | Yarmouth | 506 |

Bristol is still a largo and flouristing city, though much of its commerce with the West Indies and America have passed to Liverpool. This metropolis of the West of England gradually rose to eminence in the Anglo-Saxon period; and was so flourishing and opulent in the reign of Henry II. that, besides other charters, he granted the possession of Dublin in Ireland; and a colony from Bristol was accordingly transplanted.

The tradë with Ireland has continued chiefly to centre in this city: even in that reign, as antient writers inform us, the port of Bristol was replete with vessels from Ireland, Norway, and other parts of Europe. Bristol is pleasantly situated at the con-- fftience of the Froome with the Avon. Besides the cathedral, there is a large elureh of Gothic construction, that of Radeliffe, founded in the 18 th century, and improved and repaired by Canyng or Canyngs, an opulent mérchant of the 15 th century cele-
brated by William of Worcester. In the treasury room of this charch, is an antient chest, the source ascribel to several literary forgeries. The hot wells in the neighbourhood appeared to heve been known in 1480 ; but the water was chiefly used externally, till about the year 1670, when a baker dreaming that his diabetes was relieved by drinking the water, lie tried the experiment and recovered. Since that period its reputation has increased, and many commodious and elegant ereetions have contributed $t 0$ recommend those wille to invalifs. Ta the atjacent rocks are found Leautiful crystais, which, before the introduction of artihcial gems, were greatly is fashion for female ormaments. The trade of Bristol is chiedly with Ireland, the West Jadies, and North America, Hamburgh, and the Baltic; that with Guinea, not the most laudable, is resigned to Liverpool. By the mavigation of the two rivers, Severn and Wye, Britol also engrosses most of the trade of Wales. In 1787, Bristol employed about 1600 coasting vessels, and 416 ships engaged in foreign commerce. Inhabitants about 80,000 .

The proximity way here authorize the mention of Bath, estecmed the most elegant town in England. The hot haths, from which it derives its name, were known in the lomoa times, mor was their celebrity lost even in the dark period of the Anglo Saxom Listory Bat tho toma bas been greatly enlarged and decorated in the 17 th centory. The waters are used both internally and externally, chiefly in zonty, bifious, and paralytio cases, being frequented at tro times in the year, what is called the spring season, from April to June, and the autumnal, from September to Decenber. Two thirds of the company are attracted merely by amasement, society, antl dissipation, in all w bich it is only second to London. Situated io an vale, Buth is very liot in summer. The houses are constructed of white stone; which abounds in the vicinity.

But next to Bristol in point of opulence, must be classed the towns of Manchester, Birmingham, andSheffield.

Manchester, in Lancashire, was known in the Roman times under the name of Manounium, a small Roman station ; but it continued in obscurity till the time of Elizabeth, when Camden mentions its manufacture of woollen cloths, then called cottons. Durang the civil wars under Charles I. Manchester remained in the hands of the parlinment. In 1708, the inhabitants were only computed at 8,000 . In 1757, they fell short of 20,000 ; at present they are supposed to amount to about 70,000 . The cotton manufactures of Manchester are sufficiently known over Europe; and the marchinery, greatly indebted to the genius of Arkwright, excites astonishment at the progress of human art and indastry.

Birningham, in Warwickahire, was originally a village, belonging to a family of the same name, whose monuments remain in the old church. Leland mentions it as a fown inhabited by smiths and culters, in the time of Henry VIII, and by *orimers, now called bit makers. The extension and improvement. of Birmingham originated in a great degree fom Mr. John Taylor, who introduced the manufacture of gilt buttons, and japanned and enamelled works; but the toy manufacture was known in, the reiga of Charles II. The great fabiric, called Soho, belonging to Messrs. Boutton and Vatts is situated about two miles from Blrmingham, But in Staffordshire.

## BRITISH EMPIRE:

Sheffield, in the most southern part of Yorkshire, is styled by Leland the chief market town in Hallamshire, (for in the north, many partुicular districts usurp the name of shires). The company of cutlers of Hallamshire was established by act of parliament, in 1695 ; but Sheffield had been distinguished for a kind of knives, called whitters, and other articles of cutlery, as early as the 13 th century; yet, till within the last half century, the manufactures of Sheffield were conveyed weekly to the metropolis, on packhorses. In 1751, the river Don was rendered navigable to within two miles of the town, which facilitated the export. The plated goods commenced about 1758.

The other chief towns in England, not aspiring to such pre-eminence, though several be of far more importance than others, shall be classed, as before mentioned, in a kind of geographical order, beginuing at the south-west, and proceeding to the north.

Falmouth, in Cornsrall, the most westerly port in England, is chiefly remarkable for the arrival and dispatch of packet boats.

Exeter, in the adjacent county of Devon, is an antient respectable city. It is the seat of an extensive commerce in coarse woallen goods, manufactured in a part of Somersetshire, and in Devon and Cornwall. They are exported to Italy and other parts of the continent, to the annual value, as is supposed, of 600,0001 . and the East India Company purchase ycarly to a considerable amount. Besides the native wool of the above-mentioned counties, Exeter imports from Kent about 4000 bags a-year. Some ships are also occupied in the cod fishery of Newfoundland, and in the Greenland capture of whales. The imports are from Spain, Italy, Hamburgh, and the Baltic; and coals from the north of England and Wales. It is, moreover, the residence of many genteel families ; and the frequent resort of others from the neighbouring counties.

Dorchester, the chief town of the county of Dorset, is a place of considerable antiquity, situated on the river Frome ; but has no manufactures, and is only celebrated for its malt liquor.

Salisbury, the principal town of Wiltshire, is chiefly remarkable for extreme neatness, and for its cathedral, a beautifal piece of Gothic architecture, with the loftiest spire in England, the height being 400 feet. There is a manufacture of flannels, and another of cutlery goods and hardware, the superiority of the scissars being particularly noted. Wilton, in the same county, is famed for the manufacture of beautiful carpets.

Winchester, the chief city of Hampshire, was, for many centuries, the metropolis of England, a pre-eminence which it did not wholly lose till the 13 th century. The port was Southampton, but the superior safety and couvenience of that of London, gradually restored the latter to that metropolitan dignity which it held in the Roman period. Winchester remains a venerable city, with many vestiges of antient fame and splendour. It is situated in a bottom, amid open chalky downs, upon the small river Itchen. The cathedrab rather impresses the idea of majestic gravity, than of magnificence ; and has no spire, having been erected before that mode of architecture was used. The ashes of several Saxon monarchs are here preserved with revereace. Not far from the catbedral stands the celebrated college, founded by William of Wickliam, and which Vol. I.

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## BRITISH EMPIRE.

ins sent forth many illustrious characters. The regulations of this school are, in some instances, poculiar and severe; but in this, and the other grand English seminaries, the equality of the pupks, except in respect of age and abilities, and even the subsorvency in which the younger are held by the elder, tead to steel and fortify the mind against the subsequent cares and emulations of life. In the ceatre of the city is a small, but most elegant Gothic cross ; and at the western extremity is the shell of a palace, built under the direction of sir Christopher Wren, yet heavy and inelegant ; it was began by Charles IL. but left unfinished at his dearlh. It bas since been used for French prisoners, and in 1796 was the residence of about 640 emigrant priests from France.

In the same county is situated Portsmouth, the grand naval arsenal of England. The harbour is noble and capacious, narrow at the entrance, but spreading out into an inland bay, five or six mites in length, and from two to four in breadth. The advanhages derived from nature have been improved by the art and industry of successive generations ; and to a patriot, Portsmouth presents one of the most interssting scenes to be found in the British dominions. The regular fortifications towards the land, in themselves happily a novelty to the British eye; the magnitude and varicty of the maritime objects and manufactures, and the prospect of Spithead, the grand focus of naval armament, conspire, with a thousand relative ifeas concerning the power of England, supreme in every sea, to excite our astonishment and exultation.

Lewes is esteemed the chief town of Sussex; the situation is lofty and picturesque, especially the site of the antient castle, belonging to the powerful earls of Warren and Sussex. Beneath, in a pleasant plain watered by the river Ouse, stand tho ruius of an antient castle.

Chichester retains some littlo traffic.
Brighthelmstone is a fashionable resort for the sea nir and bathing; an extensive beach extends four miles under lofty cliffs, and on the other side are wide open downs, composed of nullerous verdant hills, diversified with winding cavilies: towards Shoreham are some pits of a kind of bitumen, which might, perhaps, be used in some manufacture. When dried and rolled by the waves, it forms balls of various sizes, frequent on the beach, and formerly used as fiel by the poor, though since forbidder, on account of the noxious smell. Brighthelmstono not only presents the nearest open shore to the capital, but it is distinguished for the peculiar mildness and salubrity of the air.

Canterbury, the clief town of Kent, and the metropolis of the English church, is chiefly remarkable for coclesiastical antiquities; and the county town is Maidstone, noted for hops and thread. Kent presents many other important towns, as Deptiord, Greenwich, Woolwich, Gravesend, Chatham, Rochester, and the fishionable resorts of Margate, Ramsgate, and Tunbridge. Dover and Deal are remarkable havens.

Having completed this brief survey of the clief towns to the sonth' of the Severn and the Thames, those of the middle and northern counties may be again connfienced from the west.

Hereford, the capital of a county bordering on Wales, was known in the Saxon times as an episcopal see. The castle, supposed to have been founded in the reign of the

Confessor, is on the lent bank of the river Wye. The cathedral is large, but the towe proseais hitle remarkable, having gone into great decay : the only manufacture is that of gloves.

Gloucester, the capital of the county so called, is admired for the regularity of the four principal streets, joining in the centre of the town. It avails itself of the traffic oi the Severn, which, among other fish, affords a luxurious supply of lampreys. This town has been recentiy celebrated for its neatness and the cheapness of its prosisions.
Worester is also situnted on the noble river Severn, over which there is a beautiful bridge. The manufictures are chiefly gloves and woollen stuffs; and the porcelain maintains a bigh reputation.

On the east, the first town of note is Coventry, esteemed the most inland and centrical of the English torms; whence, perhaps, the military plirase of sending a man to Coventry, where be would be the most remote from service. The manufactures are chiefly ribbons, with a few gauzes and camlets. The beautifal cross, crected in 1541, after being much damaged by lapse of years, hass been taken down.

The next memorable toun is Norvich, the capital of Norfolk, from its size and consequence justly styled a city. It is, however, not mentioned till the year 1004 when it was ruined by the Danes. The worsted manufactory is supposed to have been introduced bere by the Flemings, in the 12th century, and was followed by that of sayes, irmst, botnbizeenis, sec. Of late, the damadks, camlets, crapes, staffs, sec. here wrought, have been computed at the yearly value of $700,000 \mathrm{l}$; but the fashionable use o cottons, and the interruption of conmerce by war, have considerably lessened the consumption. The wool is chicfly from the counties of Lincoln, Leicester, and Northamton; the chief exports to Holland, Germany, and the Mediterraneme. Norwich is of course opulent and extensive ; but the streets are confined and devious.

Yarmouth is a noted sea-port, with a beautifil quay, and remarkable for its fishery of macharel in May and June, and herrings in October and November: the latter, cured by salt, and dried in the smoke of wood, are called red herrings, and, besides home consumption, form a considerable article of export to Spain and Italy.

In procceding northward, Lincoln must arrest our attention, though now much fallen fiom its formor fame. The interior of the cathedral is admired for its lightness and magnificence. The sheep of this county form a celebrated breed, but the wool gocs chiefly to Norwich. Lineoln trades in conts, imported on the Trent.

In a topography of England, Leicester and Shrewsbury might deserve description, but its geography can oniy einbrace the most important topics. The city of Chester must claim the next consideration. It is of Roman origin, and the chief streets are singular in their construction, being excavated bencests the level of the ground, whill a covercal portico, in the front of the houses, affords an elevated and sheltered footpath; bencath are the shops and warebouses, on the level of the strects, to which the passongers descend by occarional stairs. The trade of Chester is not considerable, kut it carries on a share of the traffic wift North Wales; and its two annual fuirs are
famous for the sale of Irish linens. It is the favourite residence of many genteel families of North Wales.
Near an extensive bayoof the Irish sea, which might now be termed the bay of Lancaster, while antiquaries affect to retain the Roman name of Moricambe, stands Lancaster, an antient and populous town. The name is in the North pronounced Loneaster, the proper etymology, as it stands on the river Lon. When the counties of Cumberland and Westmoreland belonged to the Scots, this was regarded as a kind of frontier place, and wis defended by a strong castle, situated on a commandiug eminence. Lançaster afterwards gave the title of duke to princes of the royal blood; and the contentions of the houses of York and Lancaster are well known. There is a bridge of five arches over the Lon, which opens into a considerable baven; the seat of a moderate commerce, especially with the West Indies.

On the east, the extensive province of Yorkshire contains many flourishing towns besides the capital, York, und Sbeffield, already described. On the Humber, the wide receptacle of many rivers, stands the great sea-port of Hall, or Kingston-uponHull ; the latter name being only that of the rivulet. The town was founded by Edward I.; several privileges were obtained from Richard II.; and the first staple of trade was stock-fish, imported from Iceland. In the civil wars of the 17th century, Hull displayed the first flog of defiance agginst the monarel. The harbour is artificial, and is supposed to present the largest dock in the kingdom. The trade is important with America and the south of Europe, but chiefly with the Baltic ; and several ships are employed in the northern whale fishery. The coasting traffic is extensive in coals, corn, wool, and many manufictures ; and Hull supplies the commerce of many northern counties, having not only communication with the Trent, and other branches of the Humber, but with the rivers and canals of Yorkshire.
Leeds, Bradford, Halifax, and Wakefield, are the chief centres of the great manufactures of woolten cloths and stuffs. Leeds is the principal mart for broad cloth, or what foreigners term fine English cloth. It is situated on the river Eyre, in an extensive vale; and the population is computed at 16,000 : the cloths are woven in the beighbouring villages, but ife syed, prepared, and sold at Leeds. The cloth-hall appropriated to the sale is a vast edifice; and the whole business is transacted within the space of an hour on the market-days. Halifax is on an elevated situation, and very populous. It is the chief market for the thinner woollen cloths, such as stuffs, calimancoes, \&ic. Scarborough, on the eastern coast, is a place of celebrated resort for sea-bathing, and the mineral water; the site is romantic, but the port is small, and chiefly frequented by fishing vessels.

Durham is a pleasant and venerable city, extending partiy over an eminence ; the river Were, ninding around in the form of a horse-shoe, renders it peninsular. Near the neck of iuid is placed the castle, of which little more than the keep remains; which is surrounded by the pleasant garden of the bishop's adjacent palace. Towards the point of the peninsula stands the caithedral, a most august edifice, in a most august situation, with deep declivities on the south and west, down to the river ; the banks
of which are finely wrooded, and rieh in the wild beaties of nature, which have been improved, not injured, by the taste and opulence of the clergy. The bridge on the east is narrow, and meanly executed; but on the nouth there's an elegant modern bridge ; and on the west, that of trishop Flambard in adisired for the lightness and becuty of the arches.

About a mile from the town, on this sile, stands Nevil's cross, where David II king of Scotland, was taken prisoticr, affer a bloody confict. Thie cathedral was beilt about the year 100\%, at lease the forrer part, whith betongs to what is called the Sason form of architecture; and is nowr repaling, ot the expence of the bihhop and chapter. Some braches of the woollen manufacture are caried on at Durham, and a few elegant carpets bave been lately made there, in a kind of Moeaic form.
Stockton on the river Tces, Sundeland at the mouth of tio Were, and South-Shiedis on that of the Tyue, are sea-port towns in the bistopric (for so the county of Durham is commonly styled in the north), of considerable size, trade, and population Hart-laPool is only a bathing place.

On the river Tyue stainis Newrattle, so fermed from a fortress erected by EdirardI. This is a large and poputons town, or rather city, placed on the centre of the grand coal-minies, in the counties of Durfam and Northumberland, which have for cepturies supplied Loodon and mont of the east and south of England with that fuel; wlich bas perliaps contributed more to the manuffictures and comineree, and consequent weath and power of this kingdom, than wny other material or circumstance. The coal fleets sometimes amount to 500 3ail ; their station is of Shialds, and the quays of Jarrow and Willington. Even as a nurnery of seamiet, the tride if lavaluable. In all perts of the neighbourbood are seen large carts, laiten with coals, and proceeding towards the port, on inclined planes, without the help of horses or men, to the great surprise of the stranger. Neir Nowiastle are itso found quiries of grondtone, and many ghashouses sinoke around, the productions of which hive been recently of remarkable purity. Their exports wre pickled salmon, lead, salt, butter, and tallow. The suburb of Gates head stands on the sonth of thio Tyne; and is cunnected with the city by a grand bridge. The shops and crowided streets recal the ited of London; but the latter are generatly narrow, steep, and incommodious.

Berwick-apon-Tweed, on the Scottioh side of the river, is a large, populous, and well-buits town. The ctief reundining town in Eagland is Carlisle, the capital of the county of Cumberland, placed at the contlacece of the rivers Pettril und Caidews with the Eden. The old fortifications remisin mearly entire. It is supposed to have been the antient Lugubillia; bot neitier the casto nor cathedral are remarkabie. The chief manufactures are libens, prinied and checked, whips, and fish-hooks. The town is little populous; and is chiefly tmenorable for transactions in the antient wars hetween Scotland and Eogland.

Edinbargh, the capitat of Scotland, naturally claims the first place in this division. The eastle, before thio use of antillery, was decmed to be impregable, It was probably built by the Saxon sing Edwin, whose tofitory reached to the Frith of Forth, and who gave hifs name to Eulinbwgit, is it certatioly did not fall int the hands of the Scots VoL. I.
tilf the reign of Indolplus, who lived in the jear 953. The town was bitt for the benefit of protection from, the castle ; and a more inconvenient situation for a capital can scarcely be conceived; the ligigh street, which is on the ridge of a bill, Jying east and west: and the lanes rumning down its sutes north and soieth. In former times, the town was surrounded by water, excepting towards the east ; so that when the French landed fia Scotland, during the regency of Mary of 亻iulse, they gavo it the name of I islebourg. This situation suggestet the idea of buildiug very lotty houses, divided into storics, each of which contains a suit of rooms, generally large and commodions, for the use of a famity; so that the high street of Edinburgli, which is cliefly of Lewn stone, broad, and treil paved, makes a most augzst appearance, especially as it rises a foll mite in a direet tine and gradual asceut from the palice of Holyrood-house, on the east, and in ferminated on the west by the rude majesty of its castie, buit upona lofty rock, inaccessible on ail aides, except where it joins to the city. The castle not only overiooks the city, its environs, gardens, the new town and a fine rich neighbouring country, but cuur mands a most extensive prospect of the river Forth, the shipping the opposite coast of Fife, and even some bills at the distance of 40 or 50 miles, which border upon the Highlands.

This crouded population, however, was so extremely inconvenient, that the English, who seldom went farther into the country, returned with the deepest impreasion of Scotch anastiness, which became proverbial. The castle has some good apartments, a tolerable train of artillery, and has not only a large magazine of arms and ammunition, but contains the regalia, which were deposited here under the most solemn-legal justruments of their never being removed from thence. Alt that is known at present of those regalia is sontained in the instrument which was taken at that time of their being deposited, where, Niey are fully described.

Facing the castle, as we have already observed, at a mile's distance, stands the abbey, or rather palace, of Holyrood-house. The inner quadrangle of this palace, begun by James V. und finished by Charles I. is of miaguificent modern architecture, built *ccording to the plan and under the direction of sir Willian Bruce, a Scoteh gentleman of family, and ouc of the greatest architects of that age. Round the quadrangle ruas an arcade, adorned with pilasters : and the inside contains magnificent apartmenta for the duke of Hamilton, who is hereditary keeper of the palace, and for other noblemen. Its long gallery contains figures, some of which are from portraits, but all of them painted by modern artists, of the kings of Scotland, down to the time of the revgr Jution. James VII, whien duke of York, intended to lave made great improvements about this palace; for at present nothing can be more uncomfortable than its situation, wt the bottoin of bleak, uaimproved crags and mountains, with scarcely a single tree iu is neightiourinood.

The chapel belonging to the palace, as it itood when repaired and onnmented by that: prince, is thought to have been a most elegant piece of Gothic architecture. It had a very lofty roof, and two rows of stone galleries, supported with curious pillars. It was the conventual church of the old abbey. Its inside was demolished and rifted of all its rich ormanents, by the fury of the uiob at the revolation, which even broke into the

## BRITISH EMPIRE.

repositories of the dead, and discovered a vault, till that time unknown, which contained the bodics of James V. his first queen, and Heary Darnley. Tho walls and roof of this suitent chapel gave way, and fell down ou the sed and 3d of December, 1768, ocensioned by the enormons weight of a new' stone roof, laid over it some years before, which the walls were unable to support.

The liospital, founded by George Herriot, goldsmith to James VI. commonly called Herriots Work, stands on the south-west of the castle, in a noble situation. It is the finest and most regular specimen which Inigo Jones (who went to Seodand as architect to queen Anne, wife of kiug James VI) has left us of his Gothic manner, and far exceeding any thing of that kind to be seen in England. One Balcanguthille, a divine, whom Herriot left his executor, is zaid to have prevailed upon Jones to admit sonse barbarous devices into the building particularly the windows, and to have inisised that the ornaments of each should be somewhat different from those of the others. It is, notwithstanding, upon the whole, a delightfut fabric, and adorned with gardens, not inelegantly laid out It was built for the maintenance and education of poor children, belonging to the citizens and tradestmen of Edinburgh, and is under the direction of the city magistrates.
. Among the other pablic edifices of Edinhurgh, before the revolution, was the college, whifch clatms the privileges of an university, founded by James VI, and by bim put under the direction of the magistrates, who have the power of chancellor and vice-chancellor. I.ittle can be said of its buildings, wrich are calculated for the sober litérary manners of those days; they are, however, improvable, and may be rendered elegant. What is of far more importance, it is supplied with excellent professors in the several branches of learuing; and its schools, for every part of the medical art, are reckoned equal to any in Europe. This college is provided with a library; founded by one Cloment Little, which is said to have been of late greatly atugnented; and a museum belonging to it was given by sir Andrew Balfoar, a physician. It contoins several natural and some literary curiosities, which one would little expect to find at Edinburgt.

Thic parliament square, or, as it is there called, close, was formerly the most oriamental part of this city; it is formed into a very noble quadrangle, part of which conzists of lofty buildings; and in the middle is a fine equestrian statue of Charles II. The room built by Charles I, for the parliament bouse, though not so large, is better proportioned than Westminster-half; and its roof, though executed in the same manner, has been; by good judges, held to be superior. It is now converted into a court of law, waere a single judge, called the lord-ordinary, presides by rotation; in a roum near it stt the other judges; avd adjoining are the public offices of the law, exchequer, chancery, sarievalty, and magistracy of Edinborgh; and the valuable library of the lawyers. This equals any thing of the kind to be found in England, or pertaps in any part of Europe, and was at first entirely founded and fornished by lawyers. The number of printed books it contains is amazing; and the collection has been made with exquisite taste and judguneat. It contains likewise the most valuable manuscript remains of the Scottish bistory, chartularies, and other papers of antiquity, with a series of medalo. Adjoining the library is the room where the public records are kept; but both it, and that
which contains the libryry, thonght tofty in the mof, are miserably dark and dismal. It is said, that preparatigns are now carrying on, for lodging both the books and papors in rooms far better suited to their importance and value.

The high church of Edinbargh, called that of SL. Giles, is now divided into four churches, and a room where the general assemhly sits It is a large Gothic building, end its steeple is sarmounted by arches, formed into an imperial crown, which bas a good effiect to the eye. The churches and other edifices of the city, erected before the town, contain little but what is common to sueh buildings; but the execlent pavement of the city, which was begun about two centuries ago by one Merlin, a Frenchman, deecrves particular attention.
The modern edifices, in and near Edinburgh, such as the excliange, public offices, ins hospitals, lridges, and the like, demonstrito the vast improvement of the taste of the Scots in theie public works. Parallel to the cits of Edinburgh, on the vorth, the nobility, genitry, and others, have almost completed a new town, upon a plan which does honour to the present age. The streets and squares are laid out with the ctinost segularity, and the houses are huilt with stone, in an elogant tiste, with all the conveniences that render those of England so delightfial and commorious. The frouts of some are soper bly fiuithed, displaying at the same time the jadgment of the builder, and the public spirit of the proprietor.

Between the ofid and the neew town lies a narroir bottom or vale, which, agreeably to the original plan, was to hive been formed fato a shect of water, borgered by a terracewaik, and the ascent towards the new tomn covered with pleasure gardens, alurubberies, \&c. But this elegant design fell to nothing, through the narrow ideas of the magitrates, who, finding greater benefits by ietting the ground to inforior tradesmen, upon builhing leases, this spot, formed by nature as an agreeable opening to a crowded city, became a nuisance to the gentiemen who had been so liberal in ornamenting the buildings upon the summit. A decision of the house of lords (in which a certion great laminary of thio bave, equally distinguisbed for his tasto and good sense, leartily concurred) put a stop to the mean ercctions,
At the west or upper end of this vale, the caatle, a solid rook, not less than eo stories higb, looks down with awful magnificence. The eastern extremity is bounded by a atriking object of ort, a lofty bridge, the middlo arch being 99 feet tigh, which joins the new buildings to the city, and renders the descent on each side the vale (there being no water in this place) more commodious for carriages. We are the more particular in describing this place, that the reader may form some idea of its pleasant situation, standing on an eminener, uith a gentle declivity on each side, iv the lieart of a rich cpaitry; the view southward, that of a romantic city, its more romantic , castle, and distant bills, riving to an amazing heigbt; while the prospect northward gives foll scope to the eye, delghts the imagination, and fils sthe mind with such ideas as the works of nature alone can inspire. One agrecable prospect, horever, is still wanting, a lasndsorie elpan ian or tavem, with a gentel coffee-room, towards the side that overiooks the Forth: and whigh might be easily accomplisted by subscription ; and Esom the great resprt of saveltirs, could not fail to bring a profitable return.

## DRITISH EMPIRE.

Edinhurgh may be considered, notwithstanding ity eastle, and arr open wall which incloses it on the south side, of a very modern fabric, but in the lloman manner, fis an open town ; so that in fact it would have been impracticable for its inhabitants to liave, defended it against the rebels, who took possession of it in 1745.

Ediaburgh contains a playhouse, which has now the sanction of an act of parlinment; and concerts, assemblies, balls, masic meetings, and ofter, polite amusoments, are as frequent and brilliant here as in any part of lis majesty's dominions, London and Bath excepted.

Edinburgh is governed by a lord-provost, four bailiffs, a dean of guftd, and a treasurer, animally chosen from the common council. Every company or incorporated trade choses its own deacon, and here are 14 ; namely, surgeons, goldsuiths, skinners, furriers, hammer-men, wrights or carpenters, masons, tailors, bakers, butchers, cordwainers, weavers, fullers, and bonnct-makers. The lord-provost is colonel of the townguard, a military institution, to be found in no part of his majesty's dominions but in Edinburgh: they serve for the city-watch, and patrole the streets, are useful in suppressing small commotions, and attend the execution of sentences upon deliaquents. They are divided into three companies, and wear an iniform ; they are inmediately commanded by three officers, under the name of captains. Besides the guard, Edinburgh raises 16 companies of trained banits, which serve as milith. The revenues of the city consist chiefly of that tax which is now common in most of the bodies corporate in Scotland, of two Scotch pennies, amounting in the whole to two-thirds of a farthing, laid on every Scotch pint of ale (containing turo English quarts) consumed within the precinets of the city. This is a most judicious impost, as it renders the poorest people insensible of the burden. Its product, however, has been sufficient to defray the expence of supplying the city with excellent water, brought in leaden pipes from the distance of four miles; of erecting reservoirs, enlarging the harbour of Leith, and completing other public works, of great expence and utility.

Leith, though near two miles distant, may be properly called the harbour of Edinburgh, being under the same jurisdiction. It contains nothing remarkable but the remains of two citadels (if they are not the same), which were fortified and bravely defended by the French, under Mary of Guise, against the English, and afterwards repaired by Cromwell.

The neighbourbood of Edinburgh is adorned with noble seats, which are daily increasing; some of them yield to few in England; but they are too numerous to be particularised here. We cannot, however, nvoid mentioning the marquis of Abercorn's a short way from the city ; the duke of Buccleugh's house, at Dalkeith ; that of the marquis of 1.0thian, at Newbottle; and Hopefoun-house, so called from the earl its owner. About four miles from Edinburgh is Roslin, noted for a stately Gothic chapel, estcemed oue of the most curious pieces of workmanship in Europe; founded in the year 1440, by William St. Clair, prince of Orkney and of Oldenberg.
a Glasgow, in the shire of Lanerk, situated on a gentle declivity, sloping towards the river Clyde, 44 miles west of Edinburgh, is, for population, commerce, and riches, the Vol. I.
*7 E
second city in Sectland, and, considering its size, the first in Great Britain, and perbaps ${ }^{\circ}$ in Eurbpe, as to eleganoe, regularity, and the beautiful materials of its buildings. The strcets cross each other at right angles, and are broad, straight, and well paved, and consequently clean. The houses make a grand appearance, and are generally four on five stories high, and many of them, towards the centre of the city, are supported by arcades, which form piazzas, and give the whole an air of magnificence. Some of the modera built churches are in the finest stile of architecture; and the cathedral is a stupendous Gothic building, bardly to be parallelled in that kind of architecture. It contains threes churches, one of whici stands above another, and is furnished with a very fine spire, sprfoging from a tower, the whole being reckoned a masterly and matcibless fabric. It was dedicated to St. Mungo, or Kentigern, who was bishop of Glasgow in the sixth century. The cathedral is upwards of 600 years old, and was preserved from the fury of the rigid reformers by the resolution of the citizens. The town-bouse is a lofty building, and has very noble apartments for the magistrates. The university is esteemed the most spacious and best built of any in Scotland, and is at present in a thriving state.

In this city are several well-endowed hospitals; and it is particularly well supplied with largo and convenient inns, proper for the accommodation of strangers of any rank. They buve lately built a handsome bridge over the river Clyde; but our bounds do not allow us to particularise that, and the other public-spirited undertakings of this city, carrying on by the inbabitants, who do honour to the benefits arising from their vast commerce, both foreign and internal, which they carry on with amazing success. In Glasgow are seven churches, and eight or ten meeting-houses, for sectaries of various denominations. The number of its inhabitunts bas been estimated at 60,000 .

Aberdeen bids fair to be the third town in Scotland, for improvement and population. It is the capital of a shire, to which it gives its name, and contains two towns, New and Old Aberdeen. The former is the shire town, and evidently built for the purpose of commerce. It is a wrell-built city, and has a good quay, or tide-harbour; in it are three churches, and several episcopal meeting-houses, a considerable degree of foreign commerce and much shipping, a well-frequented university, and about 90,000 inhabitants.

Old Aberdeen, near a mile distant, though almost joined to the new, by means of a long village, has no dependance on the other; it is a moderately large market town, but has no haven. In each of these two places there is a well-endowed college, both together being termed the university of Aberdeen, although quite independent of each other.

Perth, the capital of Perthshire, lying on the river Tay, trades to Norivay and the Baltic; is finely situated, has an improving linen manufuctory, and lies in the neighboarhood of one of the most fertile spots in Great Britain, called the Carse of Gowry. This town is supposed to have incrensed one-third since the year 1745 ; and contains about 11,000 inhabitants. Dundee, by the general computation, contains about 10,000

## BRITISH EMPIRE

'mhabitants; it lies acar the mouth of the river Tay; it is a town of coasiderable trade, exporting much linen, grain, herrings, and poatiry, to suadry foreign parts ; and has three churches. Montrose, Aberbrothick, and Drechim, lie sin the same county of -Angus : the first has a great and flourishing foreign trade, and tie manufactures of the other two are in an improving state.

The antient Scots valued themselves upon trusting to their own valour, and not to fortifications, for the defence of their country. This was a maxim more heroical perhaps than prodent, as they havo often experienced; and, indeed, at this day, their forts would make but a sorry figure, if regularly attacked. The castles of Edinburgh, Stirling, and Dumbarton, formerly thought places of great strength, could not hold out 48 hours, if besieged by 6000 regular troups, with proper artillery. Fort William, whicts lies in the West Highlands, is sufficient to bridle the inhabitants of that neighbourtood; as are fort George and fort Augustus, in the north and north-west : but none of them can be considered as defences agaiast a foreign enemy.

We shall not pretend to enter upon a description of the noble edifices that, within the course of this and the last century, have been erected for private persons in Scotland, because they are so numcrous, that, to particularise them, exceeds the bounds of our plan. It is sufficient to say, that many of them are equal to some of the most superb buildings in England and foreign countries : and the reader's surprise at this will cease, when he is informed that the genius of no people in the world is more devoted to architecture tivan that of the nobility and gentry of Scotland; and that there is no country in Europe, on account of the cheaphess of materials, where it can be gratified at so moderate expence. This may likewise account for the stupendous Gothic cathedrals, and other religious edifices, which antiently abounded in Scotland; but at the time of the reformation, they were mostly demolished, by a furious and tumultuous mob, who, in theso practices, recived too much countenance from the reforming clergy, exasperated at the long and sore sufferings thoy had endured from the popisti party.

Dublin, the capital of Ireland, is, in magnitude and the number of inhabitants, the second city in the British dominions; much about the size of Stockliolm, Copenhagen, Derlin, and Marseilles, and is supposed to contain about 156,000 ishabitunts. It is situated 970 miles N. W. of Londox, and near 60 miles W. from Holyhead, in North Wales, the usual station of the passage vessels between Great Britain and Ireland. Dublin stands about seven miles from the sea, at the bottom of a large and spacious bay, to which it gives name, upon the river Liffey, which divides it ulmost into two equal parts, and is banked in, through the whole length of the city, on both sides, which form spacious and noble quays, where vessels below the first bridge load and unlond before the merchants' doors and warehouses. A stranger, upon entering the bay of Dublin, whichs is about seven miles broad, and in stormy weather extremely dangerous, is agreeably surprised with the beautiful prospect on each side, and the distant view of Wicklow mountains ; but Dublin, from its low situation, makes no great appearance. The increase of Dublin, within these last 90 years, is incredible; and it is generally supposed that 7000 houses have been added to the city and suburbs since the reign of queen Anne. The number of houses in the year 1777, was 17,151, and are now catimated at

## BRIFISH EMPIRE.

not less than 89,000 . This city, in its appearance, bears a near resemblance to London. The houses are of brick; the old strects are narrow and mean, but the new streets are as clegant as those of the metropolis of Great Britain. Sackville-street, which is sometimes called the Mall, is particularly noble. The houses are elegant, lofiy, and uniforuly built, and a gravel walk runs through the whole, at an equal distance from the sides.

The river Lifly, though unvigable for sea-vessels, as far as the custom-house, or centre of the city, is but small, when compared with the Thames at London. Over it are two landsoure bridges, latoly builf, of stone, in imitation of that at Westminster, and there mie three others, that have little to recommend them. Formerty the centre of Dublin, towards the custom-house, was crowded and inconvenicut for commercial purposes ; but of late a trew strect has heen opened, leading from Essex -britge to the eavte, where the lord-lientenant resides. A new exchange has been lately erected, an elegant structure of white stone, richly embellished with semi-columns of the Corinthian order, a cupola, and other ornaments.

The barracks are pleasautly sitanted on an eminence near the river. They consist of four large courts, in which are generally quartered foar batallions of foot, and one reginent of horse; from hence the castle and city guards are relieved daily. They are said to be the largest and completest buildings of the kind in Europe, being capable of contaiuing 3000 tiot and 1000 horse.
The linen-hall was erected at the public expence, and opened in the year 1728, for the reception of such linen cloths as were brought to Dublin for sale, for which there are convenient apartments. It is entirely under the direction of the trustees for the encouragemeat of the linen manufactory of lieland, who are composed of the lord chancellor, the primate, the arelbistiop of Dublin, and the principal part of the nobility and gentry. This national institution is productive of great advantage, by preventing many frauds, which otherwise would be committed in a capital branch of trade, by which nuany thousands are employed, and the kingdom greatly enriched.
Stephen's Green is a most extensive square, round which is a gravel-walk of near a mile. Here genteel company walk in the evenings, and on Sundays after two o'clock, and in fine weather make a very gay appearance. Many of the houses round the green are very stately; but a want of uniforinity is observable throught the whole. Ample awends will be inade for this defect, by another spacious square near Stephen's Green, now laid out and party built. The houses being loffy, uniform, and-carried on with stonc, as far as the first floor, will give the whole an air of magnificence, not exceeded by any thing of the kind in Britain, if we except Bath. The front of Trinity college, extenting above 300 feet, is built of Portand stone, in the finest tastr.
The parliament honse was begin in 1799, and finished in 1739, at the expenee of $40,000 \%$ This superb pile was in goneral of the lonic order, and was jusily accounted one of the foremost arclitectural beauties. The portico in particular was, perhaps, sithout parallel: the internal parts also had many beauties, and the manner in which this bailding was lighted hass been much admired. This superb building, on the 97 th of Felruary, 1792, was observed to be in flames, about five o'clock in the afternoon,
when the housb of lords, as well as thie commons, was sittilig, and in full debate. When the ularm was given, one of the members aade his way to the rsof, and looking dowa into the house from one of the ventilators, confirmed the apprehensions of those within, by saying that the dome was surrounded by fire, and would tumble into the hoase in five tminutes. The volume of fire, by which the dome was surrounded, soon made apertores on all sides; by melting the copper from the wood-work, and thus exhibiting the eavity of the dome filled with flames, like a large furnace, wlich, at about half past six, tumbled into the bouse with oric great crash. The valuable library and all thic papers of importance were saved. It thas since been rebuilt, and restored to its forme. elegance and beauty.

Dut one of the greatest and most laudable undertakings tinat this age can boast of, is the building of a stone wall, about the breadth of a moderate street, and of a proportionable height, and three miles in length, to confine the chaninel of the bay, and to shelter vessels in stormy weather.

The civil government of Dublin is by a lord-mayor, \&ic, the same as in London. Every third year, the lord-mayor and e4 companies, by virtue of an old charter, are obliged to perambulate the city, and its liberties, which they call riding the Franchises. Upon this eceasion the citizens vie with each other in show and ostentation, which is sometimes productive of atsagreeable consequences to many of their fanailies, In Dublin there are two largo theatres, that are generally well filled, and which serve as a kind of nursery to those in L.ondon. In this city are 18 parish churches, eight chapels, three churches for French, aud one for Dutch protestants, seven presbyterian meeting-bouses, two for methodists, two for quakers, and 16 Roman catholic chapels, A royat hospital, like that at Chelsen, for iavalids ; a lying in hospital, with gardens, built and laid out in the finest tante; an hospital for lunatics, founded by the faunous Dean Swift, who himself died iosane; and sundry other hospitals, for patients of every deseription. Some of the charches have been lately rebuith, and others tare retiliding, in a more elegant manner. Aad, indecd, whatever way a stranger turns himself in this city, he will perceive a spirit of elegance and magnificence; and if lie cxtend his view over the whwle kingdom, he will be convinced that works of ornament and pablic utility are no where more encouraged than in Irelant, chiclly through the munificence of partiament.

It has, however, been matter of surprise, that, with all this spirit of national improvement, few or no good inns are to be met with in Ireland. In the capital, which may be elassed among the second order of cities in Europe, there is not one inn which deverves that ciame. This may in some measure be accounted for, by the fong and sometimes dangerous passage from, Chester and Holyhead to Irelond, which prevents the gentry of England with their families, from visiting that island: but as it is now proposed to make turmike roads' to Portpatrick in Scothand, from whence the passage is short and safe, the roads of Ireland may, by this means, become more frequented, especially when the rural beauties of that kingdom are more generally known. For though in England, Fraice, and Italy, a traveller mects with viens the most luxuriant and rich, bie is sometimes cloyed with a sameness that runs through the whole; bot in Norts Britain aud Ireland, the rugged mountains, whose tops took down upon the clouds, the extensive Vol. I.
letees, enriciced with buthy ilanak, the cavities, pleme, and cataracts, have a wonderful effict upun the hinagination of every edmien of unture, hovever rough atad unadorned with artificial beauties?

Cork is deservedly reckoned the seconil city in Jraland, in maguitude, rictics, and commeree. If lite 199 miles S, W. of Dublin, nad contuius abave 8500 houses. Its haven is deep, and well sheltered fiom all widsd: but sinull wessehs only can come up to the city, whiels stand about seven ariles op the river tee, This is the chief port of merchaints an the kiagdom; and there is, perhaps, mpre becf, tullow, and butter, shipped off here, thatr in all the ether perts of Ireland put together. Hence there is a great resent of shipe to thie port, particnlarly of those bormb from Geont Britain to Jamaice, Earbadoes, and all the Caribbice islands, which pat is here to victual and complete their liding. It appears, that in the reign of Eifward IV. there were 11 churches in Cork, though there are liow anly seven, and yet it has ever siuce that time been esteemed a thriving city; but it must be observed, that, besides the churches, there are at this time six mass-houses, tiro disemifog mectinghowes, another for quakers, and a chaspel for Frenci protestants. Kinsale is a populous and strong town, with an excellent harbour, and colssiderable commerce and shipping: and it is, moreover, occasionally a xtation for the myyal navy ; for which end this port is furmished with proper naval offieers and store-keepers. Waterford is recknied next to Cork-for riches-atid shipping, and contains 2561 hooses. It is conumnded by Duncamon fort; and on the west side of the town is a citadel. Jinerick, is a handsome, populous, commercial, strong city; it lie on both sides the Shanuon, and contans 5957 houses.
Beffate is a large seaport and trading town, at the mouth of the Lagen Water, where it falls into Carriclfergas bay. Downpatrick has a flourishing linen manufucture. Carrictfergus, or Kinoekfergus, by some deemed the capital town of the province, has a good harbour and caste. but littlo commerce. Derry, or Londonderry, as it is most usually called, stands on Lougt-Foyl, is a strong little city, having linen manufactures, with some shipping. All this estreme north part of Ireland is situated so near to Scotland, that they are in sifith of each other's cossts. Donegall, the county town of the same name, otherise called the connty of Tyrcomnel, is a place of some trade; as is liketrise Enniskilling. All which last-méntioned places, end many more, though less considerable, are chicily, and industrionsly employed in the manufucturing of lipen and finen thread, to the benefit of the whole kingdom, which, by its vast annunl exportations of lineen into England, is enabled to pey for the great ammal importations from. England kato Irclind ; and likerise to render the money constantly drawn from Ireland into England, hy her ibsentees less griexous to her.
Though Ireland contains no strong places, according to the inodern improvements in fortification, yet it has several forts and garrisons, that serve as comfortable sinecures to military officers. The chief are Londonderry, and Culmore fort, Cork, Limerick, Kissale, Duncuntion, Foss-Castle, Dublin, Chatlemont, Galwas, Carrickfergus, Maryborough, and Athlone. Each of these forts is furnished with deputy-governors, uxder various deniomiations, who have pecuniary provisions from the government,

- It caunot bo pretonded, that Irelend is as yet furnished with any public edifices, to


## BRITISII FAPPIRE

compard sith thoso to be found in edantries where snvereigns and their courts reside ; but it bas some elegant public buildings, which do honour to the taste and public spirit -of the inhabitants. The castle, Essex-bridge, and several edifices about Dublin, already mentoned, are magnificent and elegant pieces of architecture, and many noble Gothic ciurches, and other buil tings, aro to be seen in Treland:-

The Irish nobility and gentry of fortuno now vie with those of England in the magnificent structure of their hiouses, and the elegance of their orinthents. In speaking of the public buildings of this kingdom, we most not forget the numerous barracks where the soldies are lodged, equally to the case mad cotveniency of the inhatitints.

But having exhausted so large a proportion of our bounds in describing our native empire, it is necessary that we descend into no farther particulars, but take our departure for the continent of Europe.


# VIEW OF THE WORLD. 

## BOOK III.

Northern Europe.

## CHAPTER I.


#### Abstract

Geographical description of the North op Europe-General description of the European continent-Its droision into four principal parts, the Northern, Western, Eastern, and Southern-History of the discovery of the north of EuropeBy what means it became kneos to the rest of the sorld -Its grond divisions, Eass Greenland, Iceland, Tornoe islands, Lapland, Norway, Sweden, Denmark, Germany, Prustia, Bohcmia, Hungary, and Danubian procences.


WE have cormmenced our geographical journey with an examination of our native country, because it is that part of the terraqueous globe with which we are more especially concerned, and because we judged it necessary that the reader, by being made acquainted with the natural and political advantages enjoyed at home, might be furnished with the better standard to enable him to ascertain the condition of those nations by which we are surrounded. From the British Isles we pass over to the northera part of the European continent, because it is the birth-place of our ancestors, as well as of the hardy warrions who erected so many independent states on the ruins of the enervated empire of Rome. Whoever has not diligently studied the customs and constitution of the northera nations, can never thoroughly understand the bistory of France, of Spain, of Portugal, and of Italy.



Italy is divided into many small states. Piedmont, Montserrat, Savoy, Milan, Parma, Madeira, Mantua, Genoa, Tuscany, Lucca, Venice, \&c.

Chief cities. Turin, Casal, Milan, Parma, Modena, Mantua, Venice, Genoa, Florence, \&c.

| Popedom | 240 | 120 | Rome | 820 S. E. | 0 | 59 bef. | Catholic |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Naples | 280 | 120 | Naples | 870 S. E. | 1 | 0 bef. | - |
| Hungary | 300 | 200 | Duda | 7805. E. | 1 | 17 bef. | $\underline{4}$ |
| Turkey | 800 | 700 | Constantinople | 1390S. E. | 1 | 58 bef. | Mahometan |

In the prosecution of our present design, we shall divide Europe into four parts, according to the four cardinal points, deviating, however, in some small degree, from the strictress of this plan, when we can, by that means, avail ourselves of any important political relation.

Among the northern parts of Europe we number all those coontries which are sitdated between the Rhine, the Alps, and the frontiers of Turkey, Poland, and Pussia. This division comprehends the dominions of Denmark, Sweden, the Germanic body, the emperor, and the king of Prussia. All of these states are united by their relation to the empire ; their language is generally derived from the Gothie or Teutonic, and in most of them the protestant religion prevails.

The western Europe comprehends all that is placed between the Rhine, the Alps, the Mediterrancan, and the Atlantic; namely, Holland, Flanders, France, Switzerland, Italy, Spain, and Portugal. All these countries may be considered as subject either to the empire on the influence of Prance; most of their languages are derived from the Latin, and in most the catholic religion is predominant. © The eastern countries, Poland and Russia, are subject the Czar, whose empire extends to the utmost confines of the Rast, and who is head and protector of the Greek church. Their languages are of Sclavonian origin. Lastly, to the south of Europe we refer Turkey in Europe, which is abundantly distinguished by religion, language, government, and manuers, from the Christian nations, and forms part of an extensive and barbaric empire, whicl'comprehends.considerable regions in Asia and Africa.

How long these countries continucd unknown to the rest of the worle, it is not easy

precisely to determine, but it appears from Homer, and still more clearly from Herodotus, that anber was known to the Greeks from which it is inferred, that there was a -trade from Phonicia to Prussia. A voyage to this country appears to have been performed by Pitheas of Marseilles, about 70 years after the death of Herodotus. They eot an acquaintance with some of the inhabitants of these countries by thedr frons; with the Cimbri, Marcomanni, \&ce, by the purchase of German slaves, and Ly their conquests in higher Germany and in Hungary.

The Enthonhans, Pinlanders, and Goths, were known to then orily by hame; and they considered Norway, Sconen, and Dunnoe, as islands near the Icy sea.

The Arabian geographers were not much better informed; they seem to speak of Sweden, Finlind, \&ce, without any exact information is to their situation, and distinguishing circuinstances. Alficd the Great was well acquainted with Norway, Sweden, Dermark, Germiny, Bohemia, and Prussia ; having at his court many intelligent Danes, and having cansed a voyage of dicovery to be performed as far as Archangel. 1celand was discovered by accident, in 860 ; and Greenland by a similar circumstance, in 983.

Thus were the northern regions discovered, one after another, and experienced, in their turn, the benefits of civilization. But of this we sliall speak more largely, in the course of the next and succeeding chapters.

The most northeri part of Europe is Eait Greenland, with which we shall therefore begin our survey.

## EAST GREENLAND.

East Greenland was, for a long time, considered as a part of the continent of West Greenland; but is now discovered to be an assemblage of islands, lying between $76^{\circ} 47^{\circ}$ and $80^{\circ} 30^{\circ}$ of north latitude, and between $9^{\circ}$ and $20^{\circ}$ of east longitude. It was discovered by sir Hugh Willoughly, in the year 1553, who called it Grcentand ; supposing it to be a part of the western continent. In 1595 it was again visited, by William Barentz and John Cornelius, two Dutchinen, who pretended to be the original discoverers, and called the country Spitzbergen, or Sharp Mountains, from the many sharp-pointed and rocky mountains with which it abounds. They altedged, that the coast discovered by sir Hugh Willoughby was some other country; which, accordingly, the Hollanders delineated on their maps and charts, by the name of Willoughby Lind; whereas, in fact, no sucti land ever existed: and, long before the voyage of these Dutchmeh, Stephen Barrows, an English ship-master, had coasted along a desolate country, from north latitude $78^{\circ}$ to $80^{\circ} 11$, which was undoubtedly Spitzbergen. The sea, in the neighbourhood of the islands of Spitzbergon, abounds very much with whales, and is the common resort of the whale fishing ships from different countries, and the country itself is frequertiy visited by these shlps; but till the late voyage of the Hon. Capt. Ptipps (liord Mulgrave), by order of his majesty, the situation of it was erroneously laid down. It was imagined that the land stretched to the northward as far as $82^{\circ}$ of north latitude;
but eaptain Phipps found the most northeriy point of land, called Soven Islands, not to exceed $80^{\circ} 30$ of lativuce. Towards the east, he saw other iands, lying at a distance; so that Spitzbergen plainly appeared to be surrounded by water on that side, and not joined to the continent of Asia, as former navigators had supposed. The north and west coasts also he explored, but was prevented by the ice from sailing so far to the nortloward as he wished. The coast appeared neither habitable nor accessible. It is formed of high, barres, black rocks, without the least marks of vegetation; in many plaves bare and pointed; in others covered with snow, appearing even above the clouds. The valleys between the high ciffs were filled with snow and ice. "This prospect," says captain Phipps, "would have suggested the idea of perpetual winter, had not the mildness of the weather, the smooth water, bright sun-shinc, and constant day-light, given a cheerfulness and novelty to the whole of this romantic scene." The current ran along this coast half a knot an hour north. The height of one mountain seen here was found, by geometrical mensuration, to be at one time $1503 \frac{1}{2}$ feet, at another $1503_{3}^{\prime}$ feet. By a barometer, constructed after De Luc's method, the height was found to be $1588 \frac{1}{2}$ feet. On this occasion, captain Phipps has the following remarks. "I cannot account for the great difference between the geometrical measure and the barometrical, according to M. de Luc's caiculation, which amounts to $84 \frac{1}{7}$ feet. I have no reason to doubt the accuracy of Dr. Irving's observations, which were made with great care. As to the geometrical measure, the agreement of so many triangles, each of which must have discovered even the smallest error, is the most satisfactory proof of its correctness. Since my return, I have tried both the theodolite and barometer, to discover whether there was any fault in either; and find them, upon trial, as I had always done before, very accurate."

There is good anchorage in Schmeerenburgh harbour, lying in north latitade 74 $4^{\circ} 44^{\prime}$, cast longitude $9^{\circ} 50^{\circ} 45^{\prime}$, in is fathom, sandy bottom, not far from the shore, and well sheltered from ail winds. Close to this harbour is an island, called Amsterdam Island, where the Dutch used formerly to boil their wiale-oil ; and the remains of some conveniency, erected by them for that purpose, are still visible. The Dutch ships still resors to this place for the latter season of the whale-fishery.

The stone about this place is chiefly a kind of marble, which dissolves easily in the marine acid. There were no appearances of minerals of any kind, nor any sigus of antion or modern voleanoes. No insects, or any species of reptiles, were seen, not even the common earti-worm. There were no springs or rivers; but great plenty of water was prodnced from the snow, which melted on the mountains.

The most remarkable views, which these dreary regions present, are those called icebergs. They are large bodies of ice, filling the valleys between the bigh mountains. Their face toward the sea is nearly perpendicular, and of a very lively lighe green solour. One was about 300 feet high, with a cascade of water issuing from it. The black mountains on each side, the white snow, and greenish colowsed ice, composed a very beautiful and romantic picture. Lange picces frequently broke off from the ictbergs, and fell with great noise into the water. One piece was observed to have flouted vut iato the bay, and grounded in 84 fathoms ; it was 50 feet high above the sur-


GREENLAND WHAL, FISHERY.
.. GREENLAND WHALE FISHERY.
foce of the water, and of the same beautiful colour with the iceberg from whel it hat separated.

- Trese islands are totally unimhabited, though it doth not appear but that human creatures could subsist on them, notnithstanding their viciuity to the pole. Eight English sailons, who were accidentally left bere by a whale fisbing ship, survived the wiater, and were brought home next scason. The Datch then attempted to settle a colony on Amsterdius island, above mentioned; but all the people perisicd, not through the severity of the climate, but of the seuryy, owing to the want of those remedies which are now so happily discovered, and which are found to be so effectual in preveiting and curing that dreadful disease. The late account also of six Rassian sailors, who staid four yeurs in this inhospitable country, affords a decisivo proof, that a colony might be settled on East Greciland, provided the doing so conld aaswer any good purpose.

As the whale fillicry is one of those oljects which give the greatest importance to northern discoveries, we conceive that an account of it may tiere bo with propriety introduced.

In a commerclal view, the whale tribe is of great importance to mankind, supplying us with thove two valuable articles, oil and whalebone, and likervise with spermaceti, They are clicielly tuken in the northern seas.

The Euglisli send out with evely stiph alx or sesen bianto feich of these has one farpooner, one man at the meder, one manager of the line, and four seamen to row it. In each boat there are also two or three harpoons, several lances, and six lines, each 120 fathous longe fastenod together. As soon as the whale is struck with the parpoon, it darts down into thie deep, carrying the histrument off in his body; and so extremely rapid is its motion, that if the line was to entangle, it would either anap like a thread, or arerset the bats. One man, therefore, is stationed to attend only the line, that it may go regularly out, and atiother is now emploged in continually wetting the place it rums against, that the vood may not take fire from the friction. It is wonderful that so large an animal should be able, with such astonishing velocity, to cut through the water, for tils fligit is as rapid as that of an eajle. Whena the whate retums to breathe, the harpooner inflicts a fresh wound, till at length, fainting from loss of blood, the men venture the boat quite up to him, and a long steeled lance is thrust into his breass, and through the intestines, which soon puts nin enid to his existence. When the carcase begins to float, holes are cut in thie fins and tail: and ropes beling fastened into these, he is towed to the ship where he is fistened along the larboard side, fleating with his back in the water.

The operation next to be performed is that of taking out the blabter and whilebone. Severat meen got upon the animal, with iron calkers, or Fpors, to prevent theis sippang, and separate the tail, which is hoisted on deck, aud they cut square pieces of biubber, weighing two or thres themand pounds each, which by means of the chpetum, are atso hipieted up. Trebe ife here cut into fuitior picies, virich aro those into the nold, and 'eft for three or four days to dnath. Wreo sit the hlopher 5 cut from the belly of the hish, it is tarned on one side, by meatis of a

## EAST GRPFNLAND.

piece of tubber left in the thittle, eillet the eath, or furming piece. 'Thny then cut out this sile in lathe picees as before - ani alou the whalebone, which are preserved entire, mill lisistel of dech, whise the blades are cut and separated, and left till tho men have tine to secme and clean thein. The whigh is next turued with its back upwards, anit the hiulh + cut out from the lach omi com in bone: they conelude the whole by eatting the bubber from the other sile. Pint previously to lettiog the remainder of the boily that suna, they cat out tivo large mper jath-hones, which are boisted on deek, cleansel, aind fastened in the almonh, and the are placed under them, to reetive the of which they divelante This ail bidmass to the cagtain In three or four days they hoist the pieces of bibblecr ont of the hold, chop, and put them, by small picces, thoougb the bung-hole into the casks.

A whate, the longest blate of whose mouth measures nine or ten fect, will yithd about 30 butts of thathber: but nome of the larget will yeld upwards of 70 . One of the latter is generally worth nbuut $1000 \%$ sterling; and a full slip of 800 twis burthen, will produce more than 5000 , from one vovaige,

Promiuns on eviry in hate that is thken, are given to all engaged, from the captain to the mea who rots the boats, which renker them netive in tine service of their onployers. To give our reiders sone idea of the prodice of the whate fintery, we stall make choice of the fi-liery of the year 1697 , as periaps the most fortomate that cier was known. In this year there were 189 vesels of diferent nations, of which IeI were Dutch, 47 from Hambuigh, two Samdish, four Danish, twelvo from Eremen, two from Bamben, and nie from Labec; which cauglit in all 1968 fish.

The following was the number of puncheons of blubber produced.


Estimating the whalebone at about 9.000 weight for every whale, there must have been in the whole not-far short of $4,000,000$ weight.

Mr. Anderson, in his Natural History of leeland and Greenland, observes, from an arcotmt of the Duteb whale tisherg, for 46 years, ending in 17\%1, that in this time they bad employed 5886 ships, and canght 32,907 whales; which, valaed one'twith another 6t $500 /$, each, give an amount of the thole value of above $16,000,000 \%$, sterling, gained out of the sea, mostly hy the labour of the people, deducting the expence of the wear and tear of stipping. the casks, and the provisions.

The whale fishery bepias ia May, and continues through the months of June and July; but whether the slifs have good or bad success, they must come anay, and ger
clear of the ice by the end of Aught, so that in the month of September, nt furthets, thry may be expected home ; but the more fortunate ships offen return in June or July.

## ICELAND.

Iccland is a large island, Iyag in the nothern part of the Allantic ocean, betreen $63^{\circ}$ and $68^{\circ}$ of nortb latitude, and betireen $10^{\circ}$ and $26^{\circ}$ of west lougitude; its greatest length being about 200 miles, and its breadth 300.

This country, fying partly mithin thie frigid zone, and being liable to be surroimded with vast quantities of ice, which come from the polar seas, is, on arcount of tho colitness of its elimate, very inhospitable; but much more so for other reasons. It is exceodingly subject to earthquakes: and so full of voleanoes, that the little part of it which appears fit for the hatitation of man, seems aluost totally tuid westo by tlien.

The best account that liath yet appeared of the island of Iceland is in a late publication, Inflect, "Letters on. Iceland, \&e. written by Uno Von Troil, D. D. first clapplain to his Sliedist majesty," This gentleman saited from London the 19 th of July, 1779, in company with Mr. Banks, Dr. Solander, and Dr. James Lind, of Edluburgh, lis a ship fur which 1002. sterling was paid every month, Affer viliting the western isles of Scutland, they arrived on the e8th of Aurust, at Iceland, where they cast anchor at Bessestedr, or Bessastadr, lying in about $64^{2} 6$ north lalitude, in the western part of the istand. The country had to them the wost dhmal appearnice that can be concrived. " Imagine to jourself," sajs Dr. Troil, " a country, which, from one end to the other, presents to your view only barren mountains, whose sumpits are covered uith eternal suow, and between them fields divided by vitrified cliffs, whove high and sharp pointa scom to vie with each other to deprive you of the sight of a little grass, which scantly springs up among them. These same dreary rocks tikewise conceal the fow scattercd habitations of the natives, and no where a single tree sppears, wlich night affurd shelter to frieadship and iunocence. The prospect before us, thaugh not pleasing, wss uncunimon and surprising. Whatever presented itself to our view, bore the marks of devastation ; and our cyes, accustomed to behold the pleasing coasts of England, now saw nothing but the restiges of the operation of a fire, Heasen knows how antient :

The climate of Iceland, however, is not unwholesome, or naturally subject to excessive colds, notwithstanding its northwardly situation. There have been instances, inteed, of Fharenheit's thermoneter sinking to 94-below freezing point in winter, and rising to $104^{\circ}$ in summer. Since the jear 1749, observations bave been made on the weather; and the result of these observations hath been unfovourable, as the culdness of the climate is thought to be on the increase, and of consequence the country is in danger of becoming unfit for the liabitation of the bumin race. Wood, which formerly grow in great quantifies all over the island, eannot now be raised. Even the hanily fis of Norway, cannot be reared in this island. They seemed indeed to thrive, till they were
tbout two feel. high; but then their tops withered, and they ceased to grow. This is owing chefly to the storins and hurricanes, which frequently happen in the months of May and June, and which are very unfavourable to vegetation of every knd. In 1779, governor Thodai sored a little barley, which grew very briskly; but a short time before it was to be reaped, a violent storm so effectually destroyed it, that only a few grains were found seattered about. Besides these violent winds, this illand lies under another disadvantage, owing to the floating ice already meationed, with which the coists are often beset. This ice comes on by degrees, always, ufth ais easterly wind, and frequently in such quantities, as to fill up all the guls on the north-west side of the istand, and even covers the sea as far as the eye can reach; it atso, sometimes, drives to other shores. It generally comes in January, and goes away in March. Sometimes it only reaches the land in April; and, remaining there for a long timie, does an incredibie deal of mischicf. It consists partly of mountains of ice, said to bo sometimes 60 fathons in lieight; and partly of held-ice, which is neither so-thick nor so much dreaded. Sometimes these enormous masses are groundid in shoiat water; and in these cases they remain for many mouths, nay years, undissolvod, ciulling the athosplere for a great why round. When many stich bulky and lofty ice-ruasses are floating togethern the wood, which is often found drifting between them, is so minch chufod, and pressed with such violence together, that it sometimes tales fire; which circunstance has occasioned fabmious accounts of the ice being in flames

In 1753 and 1754, this ice oceasioned such a violent cold, that horses and sheep dropped down dead by reason of it, as welh a ior want of food; borses were observed to feed upon dead cattie, and the sheep aie each other's wool. In 1755, to wards the end of the month of May, the waters were fromen over in one uight to the thichness of an inch und five lines. In 1756, on the 26th of June, snow fell to the depth of a yard, and coutinued falling througb the montus of jaly and August. In the year following at froze very fard towards the end of May and begnoning of Jume, in the sooth part of the istiand, which occasioied a grear scescity of grass. These fronts are, generally followed by a famific, many examples of which are to be found in the Icelandic ciroaicies.

Desides tifese calamities, a number of bears sunually arrive with the ice, whici commit great ravages among the sieep. The Ieclanders attempt to dastroy these intruders as soon as they get sight of them. Sometimes they assemble tozether, int drive them vack to the ice, with which they often nioat off again. For want of firc-arius, they are otiged to use spears on these occasions. The goveminent also encourager the destraction or these autimals; by paying a premium of ten dollars ter every bear that is silledy and purchising tio skin of bim who kiiled it.

Notw thistanding this disisit picture, however, thaken from Von Troil's letters, some tracts of ground, in hingh cultivation, are mentioned as being covered by the great eruption of liva in 1783. It is possible threfore, that the above may have been smmewher exaggerated.
Thelhder and lightning are seldom heard in Icelond, exeept in the neighbouthood of soicanoes. Aurora Borealis is very frequent and strong. It moza comnioldy appears
in Jry weather; though there are not wanting instances of its being seen before or after rain, or even during the time of it. The lunar halo, which prognosticates bad weather, is likewise very frequent here ; as are also parhelions, which appear from one to nine in number at a time. These parleclions are observed chiefly at the approach of the Greenland ice, when an intense degree of frost is produced, and the frozen vapours fill the air. Fire-balls, sometimes round and sometimes oval, are observed, and a kind of ignis fatuus, which attaches itself to men and beasts ; and comets are aliso fiequently mentioned in their chronicles. This last circumstance deserves, the attention of astronomers.

Iceland, besides all the inconveniencies already mentioned, has two very terrible ones, callod by the natives skrida and snioflodi. The name of the first imports targe pitces of a moautain tumbling down and destroying the lands and houses which lie at the foot of it: this happened in 1554, when a whole farm was ruined, and 13 people buried alive.

The other word signifies the effects of a prodigions quantity of snow, which covers the tops of the mountains, rolling down in immense masses, and doing a great deal of domage: of this there was an instance in 1699 , during the night, when two farms were buried, with all their inhabitants and cattle. This last aceident Iceland has in common with all very mountainous countries, particularly Switzerland.
"Iceland abounds with hot and boiling springs, some of which spout up into the air to a surprising beight. All the jets deau which have been contrived with so much art, and at such an enormous expence, cannot by any means be compared with theie wonders of nature in Iceland. The water-works at Herenhausen throw up a single column of water, of half a quarter of a yard in circumference, to a height, of about 70 feet; those at the Winterkasten, at Cassel, throw it up, but in a much thimer column, 130 feet; and the jet deau at St. Cloud, which is thought the greatest of all the French water-works, casts upa thin column 80 feet into the air ; but some springs in Iceland pour forth columus of water, several feet in thiekness, to the height of many fattioms ; and many affirm of several hundred feet."
"These springs are unequal in their degrees of heat; but we have observed none under 188 degrees of Fatrenteit's thermometer ; in some it is 192, 199, 212, and in one small vein of water 213 degrees. Frem some the water flows gently, and the spring is then called lang, "a bath;" from others it spouts with great noise, and is then called Huer, or ketle. It is sery common for some of these spouting springs to close up, and others to appear in their stead. All these hot wuters have an incrusting quality; so that we very commonly find the exterior sarfice, from whence it burits forth, covered with a kind of rind, which almost resembles chnsed work, and which we at first took for lime, but which was afterwards found, by Mr. Bergman, to be of a siliceous or flinty nature. In some places the water tastes of sulpbur, in others not ; bat when drank as soou as it is cold, tastes like common boiled water. The inhabitunts use it at particulas *imes for dying; and were they to adopt proper regulations, it might be of still greater asse."
"Victuals may also be boiled in it, and milk held over its steam becomes 'sweet;
Vol. 1 :

## NORTHERN EURUPE.

owing, most probably, to the excessive heat of the water, as the same effect is produced by boiling it a long, time over the fire. They have begun to make sult by boiling sea-water over it; which, when it is refined, is very pare and good. The cows which drink this hot water yield a great deal of miik. Egbert Olaffien relates, that the water does not become turbid when alkali is thrown into it, nor does it change the colour of syrup of violets. Horrebow asserts, that if you fill a bottle at one of the sponting springs, the water will dooil over two or three times while the spring throws forth its water; and if corked too soon, the bottic will bursi"
"Among the many hot springs to be met ivith in Iceiand, severa! bear the name of Geyser: the folioxing is a description of the most remarkabie of that name, and in the whoie island. It is about two days joumey from Hecla, near a farm called Hankadat, Here a poet would have an opportunity of painting whatever nature has of beautufui and terribie, onited in one picture, by delineating this surpnising phenomenon. Represent to yourself a targe field, where you see on ove side, at a great distance, high mountains, covered with ice, whose summits ave generally wtapped in clouds, so that their sharp and unequal puints become invitibie. This lozs, nowever, is compensated by a certain wind, which causes the clouds to sank, and cover the mountain itgelf, when its summit appears, as it were, ta rest on the clouis. On the other side, Hecla is seen, with its three points coverei with ice, ising above the clouds, and, with the smoke witich ascends from it, forming other ciouds, or some distance from the real ones; and on another side is a ridge of high rucks, at the foot of which boiling water, from time to time, issues forth; and further on extends a marsh, of about three English miles in circumference, where are 40 or 50 boiling springs, from which a vapour ascends, to a prodigious height."
"In the midst of these is the greatest spring, Geyser, which deserves a more exact and particular account. In travelling to the place, about an English mile and a half from the Geyser, from which the ridge of rocks still divided us, we heard a loud roaring noise, like the rushing of a torrent, precipitating itself from stupendous rocks. We asked our guide what it meant; he answered, it was Geyser roaring; and we soon saw with our naked eyes, what before seemed aimost incredible."
"The depth of the opening or pipe, from which the water gushes, cannot well be determined, for sometimes the water sunk down seseral fathoms, and some seconds passed, before a stone, which was thrown into the aperture, reached the surface of the water. The opening itself was perfectly round, and 19 feet in diameter, and terminated in a bason, 59 fect in diameter. Both the pipe and the bason were covered with a rough stalactic rind, which had been formed by the force of the water : the outermost border of the bason is nine feet and an inch higher than the pipe itseff."
"The water bere spouted several times a-day, but always by starts, ang after certain intervals. The people, who lived in the neighbourhood, told us, that it rose higher in cold and bad weather than at other times ; and Egbert Olaffsen and several others affirm, that it has spouted to the height of 60 fathoms. Most probably they guessed only by the eye, and on that account their calculation may be a little extravngant ; and indeed it is to be doubted whether the water was ever thrown up so high,


Uhough probabiy it sometimes mounts higher than when we abserved it. The method we took to observe the height was as follows. Every one in company wrote down, at each time that the water spouted, bow higit it appeared to him to be thrown, and we afterward's chose the mectum. The first column marks the spoutings of the waters, in the order in which they foliowed one another; the second the time when these effasions happened the third, the beight to which the water rose ; and the ithst, buw long each spouting of water continaed.

| No. |  | Time, | Height. | Duration. |
| :---: | :---: | :---: | :---: | :---: |
| 1 | $\Delta t 6$ | 49 m. | 30 feet | 20 seconds. |
| 9 |  | $5!$ | 6 | 20 |
| 3 | 7 | 16 | 6 | 19 |
| 4 |  | $3 t$ | 60 | 15 |
| 5 |  | 51 | 94 | 6 |
| 6 | 8 | 17 | 18 | 30 |
| 7 |  | 29 | 19 | 40 |
| 8 |  | 36 |  | 40 |

"The pipe was now for the first time full oi" water, which ran slowly iato the bascon.

| 9 | 9 | 05 | 48 | $i 10$ |
| ---: | ---: | ---: | ---: | ---: |
| 10 | 10 | 16 | 24 | 100 |

"At 35 minutes past 1e, we heard, as it wete, three discbarges of a gun under-ground, which made it smoke ; the waier flowed over immediately, but instantly sunk again. At eight minutes after two, the water flowed over the border of the bason. At is minutes after thice, we again heard several subterruneous notses, thougir noi so strong as before. At 43 minates after four, the water flowed over very strongly during the space of a minute. In six minutes after, we heard many loud subierraneous discharges, not oníy near the spring, but also frow the neighbouring ridge of rocks, where the water spouted. At 51 minutes after six, the fountain spouted up to the height of 99 feet, and continued to do so for four minates. After this great effort, it sunk down very low into the pipe, and was entirely quiet during several minutes, but soon began to bubbie again ; it was not, however, thrown up into the air, but only to the top of the nipe."
"The force of the vapours which throw ap these waters is excessive; it not only prevents the stones, which are thrown into the opening, from sinking, but even throws them up to a very great hejght, together with the water. When the bason was fuil, we placed ourselves befgge the san, in such a manner that we could see our sliadows in the water; when every one observed, round the shadow of his own head (though not roand that of the heads of others), a circle, of almost the same colours which compose the rainhow, and roynd this another bright circle. This most probably proceeded from the vapours orhaling from the water."
"Not far from this place, another spring, at the foot of the neighbouring aridge of rocks, spoited water to the beight of one or two yards each time. The opeoing througlr which this water issued was not so wide as the other; we imagined it possible to stop up the hole entirely, by throwing large stoaes iuto it, and even flattered ourselves that our atternpts had succeeded; but, to our astonishment, the water gushed forth in a very vioient manner. We liastened to the pipa and found all the stones thrown aside, and the water playing fieely through its former chanuel. In these large springs, the waters were hot, in the highest degree, and casted a litte of sulphur; but in other respects it was pure and clear. In the smaller springs of the neighbourhood the water was tainted; in some it was as muddy as that of a clay-pit; in others as white as milk ; and in some tew as red as blood."
"Iceland abounds with pillars of basaltes, which the lower sort of people imagine have been piled upon each other by the giants, who made use of supernatural force to effect it. They have generaliy from three to seven sides; and are from four to six feet in thickness, and from 12 to 16 yards in length, without any horizontal divisious. But sometimes they are only from six inches to ore foot in height, and they are then very reguiar, insomuch that they are sometimes made use of for windows and door-posts. In some places they only peep out here and there among the lava, or more frequentiy anong the tuff; in other places they are quite overtirown, and pieces of broken pullars only make their appearance. Sometimes they extend, without interruption for two or three miles in length. In one mountain they have a singular appearance; on the top the pillars tie horizontally, in the middle they are sloping; the lowest are perfectiy perpendicular; and in some pats they are bent into a semicircular figure. The matter of the Iceland basalies scems to be the same with that of Stuffa; though in some it is more porous, and inelines to a grey. Some we observed, which were of a blackisth grey, and composed of several joints. Another time we observed a kind of poroor glasyy stone consequently a iava, which was so indietinctly difided, that we were for some time at a ioss to determine whether it was basaltes or not, though at last we alf agreed that it was."
Iron ore is found in some ports of the island, and that beautiful copper ore calied malachites. Horrebow speaks of native silver. A stratum of sulphur is found near Myvatu, from nine inches to two feet in thickness; partly of a brown colour, and pardy of a deep crange. Immediately over the sulphur is a blue earth; atoon that a vitrolic and aluxuinoos one; and beneath the sulphur reddish bole.

Iecland is noted for the volcanoes with which it abounds, as alraady mentioned, and waidh seem to be more farious than any yet discovered in the other parts of the globe. Indeed, from the latest accounts, it would seem that this miserathe countiv were bitle other ithan one continued voicano. Mounc Hecta has been commoniy scopposed to be Gie onily butning mountain, or at least the principal one, in the isiand. (See Hetla.; It has indeed been more taken aotice of than many others of as great extma, partiy from its having bad more frequerni eruptons than any single one, and partly from its sittution, which exposes it to the sight of ships shiling to Greentand nnd North Amencs. Sut in' a list of eruptions, pubisitied in the appeadix to Pennant's Arctic Zoo ugu it
appears, that out of 51 remarkablo ones, only ove thifd have proceeded from Hecla, the other mountains, it seems, being no loss uetive in the wrork of destruction than this celebrated one. These eruptions tike place in the mountains covered with ice, which the inhabitants call Jokuly. Somo of these, as appears from a large map of Iecland, made by order of his Danish majesty, in 1734, have been swallowed op. Probably the great lakes met with in this country mary bave been oceationed by the sinking of sucir mountains, as several instances of a similar matare are to be mét with in other parts of the world. The great Icelandic lake, called Mevatr, may probably liave been one. Its bottom is entirely formed of lava, divided by deep cracks, which slietter, during winter, the great quentity of truuts which inhatit this latie. It is now only So feet deep; but was originally mich deeper; being nearly filted up in the year 1748, by an eruption of the great mountain Krafle. The fiery stream took to its course towards Myvata, uud ran into it with a hornil noise, whtch continued till the ycar 1730.
" The mountains of Iceland, ${ }^{7}$ snys Mr. Peninnt, "are of two linds, primitive and posterior. The former coasist of stratia, usailly regular, but sometimes confused. They are formed of different sorts of stone, without the least appearince of fire. Some aro composed of sand and feestone, petrositex or chith, slaty or fisile sfonc, and various Rends of earth or bole, and steatite, different sorts of breccia or conglatinated stone ; jaspers of different kinds, Iceland crystal ; thio common rhombuid spathum, chalcedonies stratified and botryoid; zeolites of the most clegant kinds; crystals, and various other substances, that have no relation to volcanoes. These priaitive mountains are those called Jokuts, and are higher than the others. One of them, called Jisian or Itias, is 6000 feet light. It acems to bo composed of great and liregatar rochs, of a dark grey colour, piler on each other. Anotier, called Enheberg is about $\$ 000$ feet bight the Sugefield Jokul, $2 e 87$ yards; the Suncfielfines, or promontory of Snacfield, is from 200 to 400 fathoms. Hornstrand, or the censt by the North Cape Nordi, is very high, from 300 to 400 fathoms. The roeks of Drango are seven in number, of a pyrainidal figure, rising out of the sea, at a small distance froin the cliffs, foar of which are of a vast hicight, and have a most magnifieent appearanece"
"Eastward from thio Sracfield begins the Eisberge, foaring to a vist leight; minny parts of which hive felt the efficets of fire and in somo of the mielted rocks are largo cavities. Badda-lekkur, a rock at one end of this momtain; is also voleanic, and has in it a great cavorn, hung with stalactite. The natne of Sol-ndumar is given to a tremendous range of volcatio rocks, composed entirely of slags, and covered in the season twith sea-fowl?
"It would be endless, however, to mention all the places which bear the marks of fire, in various tofrms, either by having been vitrified, claanged into a fiery colour, rageed, aud tlack, or bear the marks of having ruif for wiles in a sloping contso toivards the sea."
These volcainos, though so dreadfut in their effects, felfon begin to throw out fire whliout giving warring. A rubterrancous rombling noito, heard at a considerable distance, as if uther fofeanocs, precedes the eruption for hoveral days, with a roaning and cracking in the place from whence the fire is about to burst fortir; many liety ineteors

Vol. I.
-7K
are ouserveu, out generally mattended wilh any, violent concussion of the corth, though sometimes earthquakes, of which several instanees are recorded, have accompanied these dreadfol conflagrasions. Wise drying up of small lakes, streans, and rivulets, is, also considered as a sign of an impending cruption : and it is floought to lixston the cruption, when a motutatis is so covered with ice, that thic fiofes ate flopted op tirough which the exhalations formerly found a fiee prassages. The innediate sigu is the burnting of the mass of ice, iththa direalfut ocoise; flames then issue fortlifrom the carth, and lightuing and fire-balls from the simoke; stones, asties, \&e, sre thiumn out to vast
 weighing 890 pounis, was thmow to the ditane of of Englab mites: A quantity of white pamice stonie is throwa up by the boithig waters; ind it is confecturet, ivith great probability, that the lateer proceeds fiom thio she, as a quantity of ath sufficient
 bums.
To enumerate the raviges of so miny dreadfut votcanoes, whith, froin thine imue-? moriat, have contributed to render this dreary country atill loss habitable than it is from the cinate, would greatly axceed our linity. If mill be sufficient to give an account of that which hapricnod in 1783 , nud which, from tis violence, seems to live beet unpiralleled in tistory.
Its first signs were observed on the ist of June, by a trembling of the earth, in the weatern part of the province of Shapterfiall. It increased gradually to thec 11 th, and becaue at last so great, that the inhatitants quited their liouseh, amd lay at night in tents
 toe northern and unimhabited parts of the comntry. Ttree fire-gponts, as they irere called, broke out in differcut places; one fin Tlifirldat, a littie to the cast of the river Skapta: the other two were a little to the westward of the river called Ilweffisflot. The rixer Skapta takes is rise in the north-cast, and rumming first westwand, it rans to tho south, and falls into the sea in a south-eant dircetion. Part of its staumel is confined, for about of English miles in length, and is in some places gua fathoms deep, in others 100 or 150 ; and its bradth in some places 100,50 , or 40 fatioms. Along the whole of this part of its coursc, the river is very rapid, thongl there are no considerabio eataracts or filli. There are several other such confined chamacls in the country, but this is the most considerable.

The three firespouts, or sticaus of lava, which had broke out, united in one, after thaving risen it considerable height into the nir, arriving at last at such an anazing altitude, as to be secu at thic distance of more than 200 English mite: the wbole country, for double that distance, being covered with a smoke or steam not to be described.

On the 8th of June, this fire first hecnme visible. Vast quantities of sand, ashes, and other voleanic matters were ejectech and scattered over the country by the wind, which at that time was very high. Tho atmosphere was filled aith sand, brimistorie, and asbes, in buch a mander as to occasion continual darkness; and considerable damage was done by the putmico-stutes, which fell, red-hot, in great quantities. Along
with these a. tenicious substance, tike piteh, fell, in wat quancity; sometimes rulted up, like bulls, at other times like rings or garlands, which proved no less destructive to vegetation than the other. This shower having continued for three days, the fire became very sisilie, and at last arrived at the amazing boight already mentioned. Somictimes it qppeared in a continued atreato, at oflicts in thimes, seen at the distance of su or 40 Danish aiks ( 180 or 240 of cins) with a contiunal aelos, like thonater, which fasted the whiole sumaner.

Thic same ding that the fire broke ouh, there fell a vist quantity of ratn, which rurInigg in strentis oin the lot ground, toro it up in large quantitics, and brought it down troon the lower lands. This rain-water was much impregoated with acid and other salts, 20 as 10 bo thighly corrosive, and occasionct a paiunt sensution, whea it fell on the hands of flece. It is greater distauco from the fire, the, nir was excessively cold. Snow liy upon the ground three feet deep in some places; and in others there fell great guantitics of hail, which did very much dannge to the cattle and every thing without doors:

Thus thio grars and creny lind of vegetation iff those places nearot the fire were Alestroyed being covered with a thick erist of salphurcons and sooty mptter. Such a quanity of vapour was nisad by the coutest of tho two adverse elements, that the soo was darkened, and appeared like blood, the whole face of rature seeming to be changed;
 Wholo simmer of 1783, an olscurity reigned throughout att parts of this island ; the atanosplice appearing to be cosered with a continual haze, which preveated the sun from sppearing with his usual splendour.

Thio dieadfut some atbave descibiod tantal in fetand for serenit days; the whiola country was ladd waste, and the inhabitants fled every where to the remotest parts of their uiserablo country, to seck for safety from the fury of this unparalleled tems pert.

On the fint tircilting out of tho fing thotiver Skaptin mar confideratly augmented, on the cast side of uflich one of the fire spouts was situated; and a similar overflow of water was observed at the same time in the great river Piorsa, which ruhs into the sea a little to the castuard of a tomy called Orrebalka, and into which another river, cattot Tumb, affer tivimy rim through a larfe tract of tharen and uncuttivaled land, empties itself. Put on tho ith of June, tho waters of Skapta wero lessened, and in less than \&1 hours totally dried up.

The day following a prodigtous strcam of liquid and red-hot lava, which the firc-mput hatd difchinged, rim dount the channel of the river. This burning turreit not only filled ip the decp claunel afove mentioned, but, overflowing the bauks of it, spread itself aver the whole valley, covering all the low grounds in its neighbourhood, and not having uny sufficient outlet to empty iteelf by, it rose to a vast height, wo thit tho whole miffacint conntry mis orcflouscd, inshnutily it if between the hills, and covering some of the fawer ones. The lifls here are not continued in a long chais or series, but are separated from one another, and detached, and betweem them run-little rivulcts or brooks; so that, besides filling op the whole valley, in which the

## NORTHPRN EUROPE.

river Skapta mar, the fiery stream spread itself for a considerable distance on each side, getting vent betireun the above-mentioned hils, and laying all the neighbouring country under fire.

The spouts still continuing to supply fresh quantities of inflamed matter, the lava took its course up the ebamel of the river, overflowing all the grounds atove, as it had done those below the place whence it issued. The river was dried up before it, until at last it was stopped by the hill whence the Sknpta takes its rise. Finding now no proper outlet, it rose to a prodigious height, and overflowel the vilage of Philand, consuming the liouses, church, and every thing that stood in its way, though the high. ground, on which this village stood, seemed to ensure it from any danger of this kind.

The fery lake, still ingreasing, spread itself out in length and breadih for about 36 Faglisti mites ; and having converted all this tract of land into a sca of fire, it stretched itielf towards the south, and getting vent again by the river Skapta, rushed down ite channel with great impetuosity. It wes stil conflued betwech the tharrow baiks of that river for about sit miles (Fingtist); but coming at lat into a moro open place, it woured forth in prodigious torrents, with amazing velocity and force; fpreadhig itself now towards the south, tearing up the earth, anil carrying on its surface flaming woors. and whilsuever it met with. In its colurse, it laid wate anollier large dialrict of tand. The ground where it came was cracked, nud sout fortligreat quantitics of steam, long bufore the fire reached it; and every thing near the lake wns cither bumt up or reduced to a fluid state.

In this situation matters remained from the 1-1 after which the fiery lake no longer spread itself; but neveitheless continned to burn: and when any part of the surfice aequired a crust by cooling, it mas quickty broken ly the firc from below; and this tumbling down imong the melted splistarice, was: rolled and tossed about with prodlgious noise and crackling; and in inany ports of is surface, smill spouts, or at Ieast cbalitions, were formed, which continued for some length of time:

In other dircations this dreadfit timndation proved no tess dostructive. Itaving rum Dhrough the narrow part of the chamel of Skapta, as carly as the 12th of June, it stretched cut itself towurds the south-west, overfowing all the flat country, fund its edge befigg no lees than 70 fations high at the timo it got out of the chanmet of the river. Continuing its destructive course, it overflowed a number of villages, runting in evcry dirsetion where it could find a venk. In one plave it cand to a greit caturact of the fiver Shapta, about If fathoms in beight, over which it was prechpitated with trencendous noise, and thrown in great quantities to a vecy considforatie distince. In arotion lighe it itopped up the channel of a large river, fifled a great valley, and destroyed tiri vilinges, by approaching only within 100 fathem of them, otbers were overfowsen by inundations of water, proceculing from the river which had foou stopped in their coursen ; until at lat alf the pasmages on the sumth, east, and weat, betug stoppet, and the sponts still sending up incrcilble guantities of fresh lava, it borst out to the north and notith-east, spreading over a tract of land $i 8$ twitcs long and 26 broad. Here it dried up the rivers Tuna
nad Axasyrdi; bat even this vast effusion-being insufficient to exbaust the suitemanoun resources of liquid fire, a new brumeh took its course, for about cight miles, down the channel of the river Hwerfisfiot, when coming again to an open country, it formed what our author calls a smail lake of fire, aboat twelve mifos in length and rix in breadth. A: fast, tiomever, thits brameh ntso stoppedt on tha 1tith of August; the ficry fountafin ceased to pour forts uew supplies, and this most astonishing eruption canne 10 is period.

The whole extont of grounil covered by this dreadfot inundation was computed at no Jess than 90 miles long and 42 in breadth: the depth of the lava being from 16 to 90 fithoms. Twetvo rivers were dried up, 20 or 21 villages were destroyed, and 294 people last their fives. The extent above mentioned, however, is that only on the south, east and wost ; for that lowands tio nor th teing over umimbabited tand, where nobody carcd io veriture thenselves, was not exactly known. Some hills were covered by this lava; otiers "ere nicifed down by its heat; so that the whole had the appearance of a sea redhot and mefed metht.

Aher this eruptiontwo ievi Ffands were tirown up from the bottom of the sca. Ope abont thrce miles is circumference, and about a mile in beight, made its appearance soare time in the moith of Pebruary, 1784, where there wis formedy 100 fathoms water. It was about 100 mites south-west from tecland, and 48 froin a clastor of simaif islauds cilled Gierfugla, If continued for some time to burn with great violence, seriding forti prodigious quantities of pramice stones sand, \&ic. like ather volcanote.
 pight without intermission bor a compideriblo time ; and was ilio very ligh, and hager than the former; siace thet time, havever, one or both of these talauds fiare beenswatJow af ilf:
 mospifice was loaded with smoke, stean. and sulphurous vapours. ?he sun was soroftimes utholly invisible ; and when it conda be geen was of if reditht colonr. Niost ra
 that the fisturmen could mot know them ausain; und tho sumke was to think, that they could not go far out to seis. The min-wnter, falling through this smoke and ateain, was so fupregnuterf wht salt and sufphoous mater, hat the hair, ant even the skin, of the cittle wero destroyet; and the whole grass of the talant uras so covered withschis and pitchy matter, that what had escaped the destrictive efliets of the fire, became poksonous ; so that the catte died for wiut of food, or perbled by ention thagh unm iolesome vegetalies, Nor were tive inmbitants in a much better bituation, rany of them thaing lost their lives by the poisonous qualities of the smble and strain with which the whole atmentphere wes filid ; paricalarly oni peppisk, and socti us bad any complaint in the Greast and tinge?

Before thie fre broke out in Iefanit, there is said to have teetio is very renarkatio chaption in the uniahiabited parts of Greculand: and that in tie northera parts af Norway, opponite to Grceniani, the fire was visibte for a long time. It was ateo rehated
 Vol. I.
$\because 1$

## NORTHERN EUROPE.

fell upon the north, and west coasts of Icelant, which continucd for the whole snmmer whenever the wiud ras in that quaiter; nud the air was ahways very much impreg. nated with a thick sumake and sulphorons smell.

Diring the fall of the shap rian form rly meutionel, there was observed at Ironzkein, and other plares in Norway, rend likewlse at Faw, an uncommon fall of sharp and sultarain, which totally descoyed the leaves of the trees, and every vegetible it frill upon, by scorcling thein up and causing them to wither. A cousiderathe quantity of ashes, sand, und other voleanie matrers fell at Faro, which cotered the whole surface of the ground whenever the wind blew from lechal, though the distance between the toro places is not less than 460 miles. Ships that were sailing betwixt Copenbagen and Normay were frequently covered with ashics and sulpharous matler, wlich stuck to the masts, ssils, and decks, besmearing them all over with a black and pitchy substance.

In many parts of Ifolland, Germany, and other northora countries, a sulphorous vapour was observed in the air, accompanied with a thick smoke, rind in soute places a light grey coloured substance fell upon the earth cvery night; which by yilding a bluish flame wlien thromin into the fire, evidently thowed its sutptrutour niature. On those vights in which this substance fell in any quantity, there was littie or no dew observed. These appearances comtinued, more or less, all the montis of July, August, and September.

## THE FERRO ISLANDS.

The Ferro Islands are a cluster of small islands lying in the Northern Ocean, between $61^{\circ}$ and $69^{\circ} \mathrm{N}$. Lat, and between $5^{\circ}$ and $8^{\circ} \mathrm{W}$. Lon. They bitong to Denairk. There are 17 whel are tiatitable; cact of which is a tofty mountiminting out of the waves divided from the others by deep and rapid currents. Some of them are deeply indented with secure harbours; providence seening to have favoured mankind with the safest retreats in the most britherous seas. Atl are very stecp, and most of thiciu facce whth most tremendous precipices.

The surface of the mountains consists of a shaliow soil of remarkatie fertility : for barley, the oniy corn sown here, yields above 90 for one ; aid thin grass affords abindint pastunge for sbecp. The exports are salted mutton ind tillow ; goose-quills, feathers, and eider-down ; and, by the industry of the inhabitants, kuit woolien waistcoats, caps, and stockings. No trees beyond the size of juniper or stanted willows will grow here; nor are any widd quairupeds to be metivith, excep rits land mite, or finatly ceaped from the thipping. Vist fuantitiec of seal fout frequent the rocks; and the takiog of them furnishes a very perilous emplpynent to the natives.

The sea which surrounds these istands is extremely tu:bulent. The tides vary greatly on the western and eastern sides. On the first where is received the uninterrupted flood of the ocean from the renote Girecaland, the tides ries seven fatioms ; on the eastern side it rises only three. Dreadtul whirlwinds, calleat by the Danes oes, agitate the sea

## LAPLAND.

to a stringe degree, catch up a vart quatitity of theter, so as to leave a gitat temponiry chasin in the spot on which it falls, and carries amey with it, to an amazing distance, any fisbes which may happen to be within the reach of its furg. Thes gieat shouls of herrings havo bren found in the highest mountaias of Fereo. It is equally revialess on land; tearing un trees, stones, and animals, and carrying diem to very distant places.

Among tho numeroas whirlpools of these sess, thot of Suderoe, near the inhand of the ramie wame, is the most noted. It is occastionell by a crater 81 fathoms in Jppth in the centre, and from 50 to 55 on the sided. The water forms four ficree circongintions. The point thiny bigin at, is on the side of a latgo bason, where commenees a range of rocks ronning siorally, and termianting at the verge of the crater. This range is extremely rugged, and covered with water from the depth of 12 to eight fathoms only. It forms four tquidistant wreath, with a chamel from 55 to 20 fathoms in depth betreen each. Oithe outside, beyond that depth, the sea suddenty sinks to 80 und 90 . On the suith border of the basco is a lofty rock, called Sumboe Munk, noted for the muftitude of tirds that frequent it. On one side, the water is only three or four fathoms deep; oa the other 15. The danger at mast tines, especially in storms, is very great. Ships are Ircaisibly drawn in; the rodder loses its power; and the waves beat as high as the masts ; so that an escape is almost miraculous; yet at the reflux, and in very still weather, the inhabitants will venture in boats for the sike of fishing.

## LAPLAND.

We noir proceed to the continem, and begin with Lapland, the most northerly country of Europe, extending from the North Cape in $71^{\circ}$ s0 N. Lat. to the W hite Sea under tho arcticcircle, iv intabited by the samo people, though the country is subject to different powers.
Norregian Lapland, under the dominion of Denaark, lies between the northern sea, the fiver Pais, ond the river Enarak. Swedish Lapland comprehends all the coontry from thic Paltice to the mocntains that separate Norway from Swefen. It is divifed into six districts, denominated marck or territory ; and these are distinguished by the names of rivers, such os Aungemanland, Elima, Peta, Lula, Torma, and Kiemi. The eastern part suliject to :ire Czar of Muscory, situated between the lake Enarak and the White Sen, is divided into liree distinct pefectures; inmely, that of the sea coast towards the north, called Mounmanki Leporic ; the Tenkoi Leporic, upon the coast of the White Sea: and the thind or inland, known by the nauie of Bellamoreskoi Leporie. In Siredish Lipland, whijen is tike moit considerable of the three, the provinces or marcks are subutivided into smaller districts called biars, consisting each of a certain number of families ; amang which the land is parcelled out by governmeat, or the perfect of the district appointed by the king of Sweden.

Lapland may be terahed a huge congeries of frightful rocks and stupendous mountains; interpersed, however, with many pleasant valleys, watered by an infinite number of
rivalets. that run into the rivers and lakes, which diseharge themselves into the gulf of Bothoia. The names of the priacipal lakes in Lapland are, the Great Uma, the Great Windel, the Oreavan, the Stor-avan, the Great Lula ; the lakes of Kartom, Kali, Torno. Enara, and Kimi. Some of these extend 60 leagues in Iength, and contain a grea? number of islands. Stor-avan is said to contain S65: and Enara contains an archipelago of islands, so large that no Iaplander has lived long enough to visit each particular island.

The natives believe this country to be the terrestrial parailiso; and indeed nothing could be more enchuating than such vait proppects of mountrins, hills, forests, lakes, rivers, \&c. if the conntry was in a molente climite, though evea here in summer. the roses are seen blowing wild on the banks of the fakes and rivers, with all thic beautifut glow of colour whicts appears in those caltivated fa our gardens. But all the intervals between the mountains are not imgrussed by these agrecable prospects : great part of the flat country is covered with brown dieky foreste of fir and pine-trecs : and thicse are often slifted by vide extended monisses, thó stagnating waters of whith in sommer produce myriads of mischievous iusect, that are mivie fatolerable than even the cold of wiuter.

Thit cold of Lapland is very intonse daring the winter, froczing even braniy and the watary pirt of spirit of wing, if the latter is not highly reatifal: all the lates and rivers are frosen to at prodigious thickness ; and tho whole fice of the conimtry is covered witio snow to the depth of four on five fect. White this coutimes fonge, it is inpossible to
 will be buried in the drifts of nom: jet stioult a pinial thaw take plice for a fets livurs, the surfuce of this snow is formed by the sucgeeding frost into a hart inpenutrable crust, over which the Laphander trayeds in liss stadge nith grat cetrity White the thas pre-
 wind blows, the aby is beautifully ecrene, und the mir vecy clear.
The hent of ammuer is atmost us hitaterable in Lapland as the cold of unter. At the noithern extremily of the country tho sin never sets for three months in sumacr, ind in winter there is an uminterrupted uight of the same duration, bat this is qualtiod in such a manar by a comstat revolution of dawn and twitizh, by a serene aky, moan light, ond aumora torealis, ieftected from tho white survace of the earth covered inth spow, that the inhatitums are etabled to hunh, fish, and proceed with theif ondtary occupations. The cautry ubounds with excellont spings ; and is remirkubld for some surprising cathnels, in which the water rumbles over frightful precipices, and dushes among rocks with chatiung 'inpetaluity and roitic

The soit of Lapland is generally so chilled and barren, that it produges little or no grain or fruit-trecs of my kind. This sterility, howeser, is not so much owing to the pail, which is in many places of a rich mould, as to went of induntry ; for in some distriets the Suedes have tilled and manured pieces of gromud that beat plentifat crop of yy. There is also groat plenty of berries, such in black currius ; what is called the Norivegian muluttry, growing upow a creeping plunt, and much catecmed as antiscorhutic: rabpberrit, cran-berries, juniper berries, and Litberries. The, tops of the
mountains are so much exposed to intente cold, and tempests of snow and hail, that tro tree will grow near the summit ; but in parts that are more sheltered we see fine woods of birch, pine, and fir, disposed by nature as if they had been planted by art in rows at regular distinces, without any undergrowth or incumbrance below. Desides these trees, some parts of Laptand produce the service tree, the wiltow, the poptar, the eider, and the cornel.

Among the plants of this country, the principal is the angelica ; which is greatly esteencd by the natives, who use it in their food. Here is likewise the acetosa or somrel, which grows in great plenty, and is of mueh service on account of its antiscorhatic properties. Thiy have aha other kinds of herbs peeuliar to the country, different kinds of griss, heath ferp, and moss, which are all onumerated by 1.maxus in his Flora Laporica. But the vegetable which is in ereatest plenty, unid of the most extensive use amoing them, is the lichen rangiferus. The rein-deer is wholly sustained in winter by this vegetables and the Laplanders thenselves boil it in broth as a cordial and restorative, They litewise use onc sort of it as a soff, easy, and wholesome bed for their new bora clildren.
Some silver and Ieat miges bave been ditcovered in the provinces of Pitho and Lala; and tro of copper, together with excellent veins of fron, in the district of.Torno ; but they arc oot at present worked with any considerabte advantige. In somie places there are veins of silver and gold mixed; but theso aines are worked only for a fow months in the suinmer, becanse the frost hinders the engines from playing, Here are found beautifut crytals, of a surprising mingaftude, so tiand and fine, that when polished they resemtio mil dlamoudfy In soinc places amethysts and topases are atso found, but pale and cloudy ; also a great quattity of very carious stones, which are too hard to be worked ly the tool of the mason. Some of these found on the banks of rivers and takes, when they happen to bear the teast reseroblance to the figares of animals, the Enptanders reuiovo to inore conspicuous places, and adore as defitics. The province of Torno affords sorpe curious stones of en ectigonal shape, regular, shining and polished by the band of nature. In pome rivers they fish for pearls, which are generully pale: but some of them are as bright as the oriental pearls and much larger and rounder. These pearts are found in nusclestiells ; and the fistiery is not in the sea, but in the rivers.

Lupland, is well as Norway, is infested with a great number of grey wolves and bears, with whom the iuhabitants wage perpetual war. The mast honoirable exploit among the Eupfinders is thit of kiffigg their, and the heroes atorn tieir caps with if surit plate of lead or peiter for every bear they have slain. Tho country abounds also with elks, beaveros and otters, which live liere unmolested, and find plenty of fish for their subsistence. Tho forests of this country furnish haunts to a greit uumber of beautiful marthix ind squirids; which last clainge theis colour every winter from brown to grey. Ivpland is alio the native comnry of the zitalling or sable, whose skin is extremely valuable, Hore ure likevise ermines, weasels, barcz, large black cats which attend the Laplanders lis bunting and fitte prick-eared curs tratied to the game. But the mioit en markable apiuat of Laplant is the rein-deer.

Yob. I. $\quad \bullet 7 \mathrm{M}$

Thenc animals, so uscful in various respects to the nitivet, are lept at no expence, In samuer they feed apón grisses and afpine plants ; it wimter, as already osentioned, opon the lichea rangterus, or relgn-decr lichen, end its varieties, which fres so abut. dant as in unany pierts, nimost totally to cover the ground for the spice of several initos, and which the saghecous anmat discovers under the satow try tie pecular acuteness of its smell. Most of those used for draught aro castrated when very young, and are larger and fitter than the bueks.

The woods, mountains, and rivers are wefl stocked with witd foul; such ss bustards, partridge, growse, beatieock, pleassots, fapwings, sivans, wildhgeese, wildduck, and all sorts of aquatic bints that build and breed in northern climates, In the beginuing of the sprigg the swans go thither fin numerous flights frour the Geruan Ocean; the lapwings follow in suct swarms that they darken the sky as they pass along, and they scream so loud that they may be heard at a great distance. The rocks and mountafns are likewise froquented by eagles, hawks, falcons; kites, and other birds of prey.

The rivers ahound with delicious salinon from the gulf of Bothars, trout, bream, and perch of exquisite flavour and amaziog magnitude ; and the inhathitants of Wardhus, or Danish Lapland, are well supplied winu fish from the Northern Ocean.

With respect to insects, the flies hatched in the inorasses and woods in summer are so rumerous, that they often otscure the fice of day ; so veromous, froublesome, aud intolerable, that the rcin-ieer fly to the tops of the lighest mountains for shelter, and tho Lapfanders betake themsclves to the sen-side, which is the least infested hy these pestilent vermin. M. de Maspertuis, in his account of the voyage be nade to Lapland in company with the other Prench mathenaticians sent thither by the king to measure a degree of the meridian, gives us to understand, that on the tops of the uiovatains if Torno, the flies were so troublesome, that even the Finland soldiers, who are counted the most hardy troops in the service of Sweden, were obliged to cover their faces with the skirts of their coats from the attacks of these animals, which swarmed to such a degree, that the moment a piece of flesh appeared it was blackened all over. Some of these flies are very large, with green heuds, and fetch blood from the skin wherover they strike. The Laplanders sthroud themselves in the smoke of a large fire kinded for that purpose ; yet even this disugreeable expedient was not sufficient to defend the French philosophers : they were obliged, notwithstanding the excessive heat, to urap up their heads in garments made of the shins of rein-deer, called in that country lapaudes, and to cover themiselves with a thick rampurt of fir-boughs ; yet all these precautions proved ineffectual. M, de Maupertuis observed a lake quite covered with little yellowish grains, resembing milict teer, which he supposed to be the chrysalises of some of these insect.

The Laplanders aro very low in statare, and are likewise remarkable for having large heads. They are, also, ill-straped, and the features harsh. They are, however, strong, hardy, and robust, insomuch that they will bear ineredible fatigne ; and it is remarkable that the stoutest Norwegian is not able to bend the bow of a Laplander. The wotpen are much less homely than the men, and many of them are noted for a delieak and Iorid complexion.

Thesc people are simple, hionest, hompitable, and timorous ; their timidity, heweverf respects war alone; for to many otter apecies of dangers they expose themselves with surprising intrepdity, whether in ascending and descending mountains and precipices with their snow shoes and in sledgea, or in ventaring andidat whirlpools and catiracts in litte stender boats mate of thin fir-bourds, fistened togetlier by thongs of leather, ninews of wild beasts, or tough und fexibte thigs of willuw and ocier. These boats are of different sizes, from two to six yurls in length, manged with dars, and cauked with pass so tight as to keep out the vater.

The Laptanders ate partly sected, and to part witd athd rovicg: the lafter the in tents made with come eloth; the former are fiked is smail villages near the lakes, and chiefly follow fishing. They build their cottages somewhat in the shape of a cons, by placing a circle of largo trees or poles astaut in the eartls, and close to each ottier, 30 that their tops miect, ind form a small vent for the issue of the smoke : they cover the ground witbin with branches of trees. In spring their food coasists principally of the eggs of water-fowl, which are extremely plentioul in those parts: in summer and autamb, of the birds themselves, and of various other of the partridge tribe ; and in winter of the milk and flest of the rein-deer and dried fish. They bad, till lately no bread; but in lieu thereof uned the inner rind of the pho tree dried and ground, and dried fish redueed to powder. They make confections and decoctions of berries, angelica, and sorrel, which they justly reckon to be prescrvilives against the scurvy. The Laplander is secured in the possession of uninterrupted health by temperenee and exer"cise, which, together with the severity of the climate, brace his nerves to a very unusual pitch of sirength, and fortify his constitution in such a manner, that he often lives to the tige of 100 , without feeling the least pang of distemper, or even perceiving bis vigour in the least impaired; for it is not oncommon to see a Laplander in extreme ald age hunting, foivling, skaiting, and performing all the severest exercises with undiuinished agility.
1.The summer garb of the men consists of a long coat of coarse cloth, reaching down the middle of the leg, and girded round the waist with a belt or girdle; from which hang is Norway knife, and a pouch contuming flints, matches, tobicco, and other necessaries ; the girdlo itself being decorated with brass rings and chains. Their caps are made of the akin of the northern diver, with the feathers on; and their shoes of the rein-deer skin, with the hair outwards. They wear no linen; but the garinents of the better sort are of a figer cloth, and they delight in a variety of colours, though red, as the most glaring, is the most agrecable. In winter they are totally cased up in coats, caps, boots, hud gloves, made of the reign-deer akius. In the Flora Lapponica, Linneus says, Pertaps the curious reader will woader how the people in Lapland, during the terrible cold that reigns there in winter, can preserve their lives; since almost all birds, and even some wild beasts, desert it at that time. The Laplaiader, not only in the day, but through the irhole winter nights, is obliged to wander about in the woods with his herds of rein-deer. For the rein-deer never comes under cover, nor eat any, kind of fodder, but a particular kind of liverwoit. On this accoont the herdsmen are undet, a necessity of living continually in the woods, in order to take care of their csttle,
teast they should bo devoured by wild beasts. The Laplander easily docs without more light, as the snow reflecis the rays that come from the stars, and is the Aurora Borealis illuminatea the air every night with a great variety of firures. No part of our body is more eavily destroyed by cold that the extremities of the limbs which ure most remote from the sun of this microcosm, the lieart. The kibes that happen to our lands and feet, so common, tin the bortion parts of Sircten, prove this, In bepland jou will never see such a thing; although, were we to judge by the situation of the countrg. we stiould fragine just the contrary, sepecially as the people wear no stockings, as we do, not only single, bit double and treble. The Laplander gaards himself bgatast the cold in the following manner. He wears breeches made of rein-leer skins with the bain on, reaching down to his heels, and shoes made of the same materils, the hairy part turned outwards. He puts into his slioes slender eareil broad lesfed cyperus grass, (carex vecicaria, Spec. P1, or the blidder Cares), that is cot insummer and dried, This he first combs and rubs in his hinds, and then placea it in such a manaer that it not only covers his feet quite round, but bis legs also; and being thes guarded, be is quite secured aguinst the intense cold. Witi his grass they stuff their gloves thisewise, in order to preserve their hands. As this gress loeps off the cold io wiater, so in summer it hinders the feet from sweating, and at the same time preserves them from being anoyed by striking against stones, se. for their choes are very thin, being made, not of tamed leather, but the ras tid."

Thie women's apparel differ very litie from that of the ofter sex; only theis girdles are more oraamented with rings, chains, ncedle-cases, and toys that sometimes weigh 90 pounds. In winter, both men and womea lie in their furs ; in sumner, they cover themselves entfely with coirse thankets to defend them from the paits which are intoIerable, The Laplanders are not only well disposed, but naturally ingenuous. They make all their own furniture, their boats, sledges, bows and arrows, They form neat boxes of thin bircta boads, and fatay them with the horn of the rein-dece. The Swedes are sery fond of the Lapland baskets made of the roots of trees shit in long thiu pleces, and twisted together so very nicely that they will hold water. Among the manufactures of this country we likevise number curions horn-spoons, and ruoulds in whici they cast the triakets of tia which adorn their girdles. Over and above these domestic occupations, the men within doors perform the office of cooks in dressing victuals-for the fanily. The women act as tayfors and einbruiderers; they make clothes, slioes, and Boots, and harness for the rein-teer: they spin thircad of fur and tait it into caps and gloves that are very soft and warm. They draw tin into wive furough a horn : and ifth this they cover the thread which they uso in embroidering the figures of beaste, flower, trees, and stars upon their cops and girdles.

The Liplanders make surprising excuratons upon the mow in their hanating expedifions. Thicy prơvide themselves each with a pair of skaits, or snow-shoes which ate no other than fir-hodards covered with the rotigh skin of the rem-deer, taraed in कtath a manater that the tatir rises agafust the snow, otherwise they woudd be too stippery. One of these shoct is bavally as long as the person who wears it; thic otfies
is about a foot shorter. The feet stand in the middle, and to them the shoes are festened by thongs or withes The Laplander, thus equipped, wields a long pole in his hand, near the end of whicb there is a ronnd bail of wood, to prevent its piercing too deep in the snow ; and with this be stops himself occasionally. By means of these accoutrencats he will travel at the rate of 60 miles a day, witiout being fatigued ; ascending steep mountains, and sliding down again with amazing swittaess.

The Laplander not only travels, on foot, but is provided with a carriage drawn by the rein-leer, in which he journeys with still greater rapidity. The sledge, called pulkha, is made in the form of a smill thoat, with a convex botom, that it may slide the more easily over the snow : the prow is sharp and pointed, but the sledge is flat behind. The travelter is swathed in this carriage like an infant in a cradle, with a stick in his hand to steer the vessel, and disengage it from pieces of rock or stamps of trees that may chance to encounter it in the rout. He must also balance the sledge with his body, otherwise he will be in danger of being overtaraed. The traces, by which this carriage is fastened to the reli-doer, are fixed to a collar about the animal's neck, ant run down over the breast, between the fore and hind legs, to be connocted with the prow of the sledge: the reins, managed by the traveller, sre tied to the horns; and the trappings are furaished with little bells, the sound of which is agreeable to the animal.

With this draught it his tail, it has been reported that the reib-deer will fly bike lightaing over hill and dale at the rate of $q 00$ miles a day. But this representation is greatly exaggerated. According to the best accounts, the common pace of the rein-deer is ouly at the rate of about four miles an bour: though, if he be pressed, he will travel 10 or 12 Swedish miles ( 70 or 84 English miles) in a day; but by such hard driving is generally destroyed. It, however. frequently happens, that he will persewere in his journey 50 miles withut intermission, and without taking any refreshment, except occasionly mointening his mouth with the snow. Before he sets out, the Laplander whispers in his ear the way be is to follow, and the place at which he is to halt, firmly persuaded that the beast understands bis meaning ; but, in spite of this intimation, hie frequently stops short long before bee has reached the journey's end; and sometimes he overshoots the mark by several lengues. in the beginning of winter the Laplanders mark the most frequented roals, hy strewing them with fir-boughs ; and indeed these roads are no other thon path ways made throngh the snow by the rein-deer and the pulkhas ; their being frequently covered with new snow, and alternutely beaten by the carriage, consolidates them into a kind of causeway ; which is the harder if the surface has felt a partial thaw, and bas been crusted by a sulisequent frost. It requires great caution to follow thesutracts; for if the carriage deviates to the right or left, the traveller is plunged inó an abyss of snow. In less frequented parts, where there is no such beaten roid, the Laplander directs his course by certain marks which he has made on the trees.

The chief occupation of the Laplander is hunting, and this exercise they perform in various ways. In suinmer they hunt the wild beasts with small dogs, trained to the diversion. In winter thay pursue them by thar tracts upon the snow, skaiting with so

## NORTHERN EUROPE.

great velocity, that they very often run down the prey. They catch ermines in traps, and sometimes with dogs. They kill squirrels, martens, and sables, with blunt darts, to avoid wounding the skin. Foxes and beavers are slain with sharp pointed darts and arrows ; in shooting which, they are accounted the best marksmen in the world. Tho larger beasts, such as bears, wolves, elks, and wild rcin-deer, they either kill with fire-arms, purchased in Sweden or Norivay, or take in snares and pits dug in the forests.

Their pacticular laws relating to the chase are obscrved witi great punctuality. The beast becomes the property of the man in whose snare or pit he is caught; and he who discovers a bear's den has the exclusive privilege of hunting him to death. The conquest of a bear is the most honourable achievement that a Laplander can perform ; and the flesh of this animal they account the greatest delicacy on earth. The bear is always dispatched with a fusil, sometimes Laid at a snare ready cocked and primed; but more frequently in the hands of the hunter, who runs the most imminent risk of his life, should he miss his aim of wounding the beast mortally. The death of a bear is celebrated by the Laplanders as a sigmal victory. The carcase is drawn to the cabin or hut of the vietor by a rein-deer, which is kept sacred from any other work for a whole year after this service. The bear is surrounded by a great number of men, women, and children, reciting a particular hymn or song of triumph, in which they thank the vanquished enemy for having allowed himself to be overcome without doing any mischief to bis conqueror, and welcome his arrival : then they make an apostrophe to heaven, expressing their acknowledgement to God, that he has created beasts for the use of men, and endued mankind with strength and courage to attack and overcome the ficicest of the brute creation. The hero is saluted by the women, who spit ehewed eider-bark in his face. He is feasted three days successively, and his cap is decorated with an additional figure, wrought in tin wires.
The manner in which the young Laplander chooses a wife is equally remarkable and ludicrous. When he has pitched upon a female, be employs some friends as mediators with the father; and these being provided with some bottes of brandy the suitor accompanies them to the hut of his future father-in-law, who invites the mediators to enter; but the lover is left without until the liquor be drank, and the proposal discassed: than he is called in, and eatertained with such fare as the hut affords $;$ yet without seeing his mistress, who retires and goes out on this oceasion. Having obtained leave of her parents to make his addresses in person, he puts on his best appare', und is satmitted to the lady, whom he salutes with a kiss: then be presents tier with the iongue of a rein-deer, a piece of beaver's flesh, or some other sort of provision. Sue declines the offer, which is made in presence of her sisteis and relations; but mages as siguat to the lover to follow her into the fields where she accepts the presents, Thus encouraged, lie begs her permission to sleep witt her in the hut: if she cotsents, there is no further dificulty ; if she disapproves of the proposal, she drups lier preachts on the ground.

When the lovers are agreed, the yoath is permitted to vist his inamorats as offen as he shall think proper: but every time he cumes, ho must purcbasc this
pleasure with a fresh bottle of brandy; a perquisite so agreeable to the father, that he often postpones the celebrations of the nuptials for two or three years. At length the ceremony is performed at church by the priest of the parish. Even after, this event, the fiusband is obliged to serve his father-in-law a whole year: at the expiration of which he returns to his own habitation with his wife, and her patrimony of rein-deer, and receives presents from all his friends and relations. From this period he sequesters his wife from the company of all strangers, especially of the male sex; and watches over her conduct with the most jealous vigllance.

Many Lapland women are barren, and vione of them are very fruitful. A won an immediately after delivery, swaliows a draught of whale-fat : the chiid is washed with snow, or cold water, and wrapped up in a hair skin. The mother is seldom above five days in the straw, and in 14 is generally quite recovered: then she carries the child ts church to be baptized. Before she can reach the residence of the priest, she is oftert obliged to traverse large forests, mountains, lakes, and wide-extended wastes of snow. The infant is fastened in a hollowed piece of wood, stretched naked on a bed of fine moss, covered with the soft skin of a young rein-deer, and slung by two straps to the back of the mother, who always suckles her own child. At liome this little cradle is hung to the roof of the but, band the child lalted asleep by swinging it from one side to the other. The boys from their very infancy practice the bow, sud are not alfoned to break their fast until they have hit the mark, The female children are as early initiated in the busiuess pecaliar to their sox.

These people, though for the most part vigorous and healthy, are not altogether exempted from distemper. They are subject to sore eyes, and even to blindness, from the smoke of their huts, and the fire to which they are almost continually exposed. Some waste away in consumptions; others are afficted with rheumatic pains and the seurvy ; and a few are subject to vertigo and apoplexy. For the care of all their iuternal disorders, they use no other medicine than the decoction of a cirtain species of moss ; and when this cannot be procured, they boil the stork of angelica in the milk of the rein-deer. In order to remove a fixed pain, they apply a large mushroom, burning hot, to the part affected; and this produces a blister, which is supposed to draw off the peccent humour. To their wounds they apply nothing but the turpentine that drops from the fir-tree. Whien they are frost-bitten, (though according to the above extract from Linneas this seldom or never happens), we are told that they thrust a red hot iron into a cheese made of rein-deer's milk, and with the fat that drops from it anoint the frozen member, which generally recovers. When a Laplander is supposed to be on his death bed, his friends exhort him to die in the faith of Christ, and bear his sufferings with resignation, by remembering the passion of our Saviour. They are not, however, very ready to attend him in his last noments; and as soon as he expires, quit the place with precipitation, apprehending some injury from his spirit or ghost, which they believe remains with the corpre, and takes all opportunities of doing mischief to ti.e living. The deceased is wrapt up in woollen or linen, according to his circumstances, and deposited in a coftin by a person selectel for that purpose : hut this oflice he will not perform, untess he is first secored from the ill offices of the manes,
by a consocrated brass ring fixed ou his left arm. The christian religion in this country has not yet dispelled all the rites of heathenish superstition : together with the body tiey put into the coffin an axe, a flint and stgel, a flask of brandy, some dried fish and venison. With the axe the deceased is supposed to hew down the bushes or boughs that may obstruct his passage in the other world: the steel and flint are designed for striking a light, should he find himself in the dark at the day of judgment; and on the provision they tbink he may subsist during his journey.

The Muscovite Laptandens observe other ceremonies, that bear an affinity to the superstitions of the Greek Church. They not only supply the definct with money, but likewise provide hin with moncy for the norter of paradive, and a certificate sigaed by the pricst, and directed to St. Peter, specifying, that the bearer had lived like d-good cliristian, and ought to be admitted into heaven. At the bead of the coffin they place a littie image of St. Nicholas, who is genenally revereneed in all parts of Muscovy as a fricnd to the dead.

Before the interment, the friends of the deceased kindle a fire of fir-bouglis near the coffin, and express their sorrow in tenrs and lamentations. They malk in procession several times round the body, demonding, in a whiuing tone, the reason of his leaving them on earth. They ask whether he was ont of humour nith his wific whether he wris in want of meat, drink, cioathing or other mecessaries; and whether be had not succeeded in hunting and fishing? These and other ioterrogations, to which the defunct makes no reply, are intermingled with groans and hideous howlings ; and, between whiles, the priest sprinkles the corpse and the mourners alternately with holy water. Winally, the body is conveged to the place of interment on a sledge drawn by a rein-decr; and this, together with the clothes of the deceased, are left ns the priest's perquisito. Three days after the lturial, the kinemen and friends of the defunct are invited to an entertainment, where they eat the flesh of the rein-decr which conveyed the corpse to the burying ground. This being a sacrifice to the manes, the bones are collected into a basket and interred. Tro thirds of the effects of the deceased are inherited by is brothers, and the remainder divided among his sisters; but the lands, lakes, and rivers, are held ia coparceny by all the children of bolliscxes, uccording to the diviston made by Charles 1X, of Sweden, when he assigned a certain tract of land to each family.

The commerce of the Laplanders is more considerable than one would expect in a desert country, iahabited by a savage, ignornnt people. They export great quantities: of fish to the northern parts of Bothnia and White Rassia. They likervise trate with the neighbouring countrins of Norway, Sweden, Muirovy, and Fiuland, by selling reindect, fine furs, baskets, and toys of their own manuficture, drikd pikes, and chicese tmade of the rein-deer's milk. In return for' these commoditics, they receive rix-dollars, woollen clothes, linen, copper, tin, flour, oil, hides, needles, knives, spirituour liquors, tobacco, and other necessaries. The Laplanders mareh in carnvans to the falls in Finland and Norway: these are composed of a long string of: 90 or 40 rein-deer ind pulkhas tied to one another, the foremost heing led by it Laplander on foot. Wben they have chosen a spot for an encampment, they form a large circle of theis rein-deer
and pulkhas ready yoked; and the atmimats lying down quietly on the snow, are fed witio moss by their masters. The poople kiudle great fircs, around which mea, wo nen, and children sit, and-sup on dried fist; but the more voluptuous spread out bear akins under their tents, where they lie at their ease and smoke tobacco.

The revenue arising from tiis country is of no great consequence: it is paid partly in rix-dollars, but chiefly in furs; nay, some that can produce neither, pay the tribute in dried pikes. The prodoce of the mines forms likewise a considerable article. Fifty squirrels' skins, or one fox skin, with a pair of Lapland shoes, are yalued at one rixdollar. Part of the taxes is allotted for the maintenance of the Lapland clergy.

The frightful aspect of this country has been deemed a more effectual defence than artificial butwarks and garrisons, of which liere are none; or than the arms and courage of the natives, who are neither warlike in themselves, nor in the least tinctured with discipline.

The Lapanderi call themselves Salme-Same, and Samen-Almatjeh. Their country they denominate Same-Landa, or Same-endan ; the Swedes stile it Lupland, or Lappmarken, und the inhabitints Lappar. The natives of those districts under the dominion of Sueden and Denmark are Lutherans; while many of those who are subject to Tussia are stilt pagans. Swedish Lapland coatains ubout eight churches, which, in some parts, lie at so great distance from each other, that a native is frequently obliged to travel three days in order to attend divine service.

The Laplanders, beforc their conversion to Christiapity, which was not till lately introducedaming them, possessed no books or manascripts, though they knew many traditional histories and songs of antient beroes and princes, who once reigned over them ; but involved in great uncertainty, and mixed with the most fabulous accounts. They have now a translation of the New Testament in their language ; and many of the natives are abte to reid and write.

## NORWAY.

Norway is a country of Earope, lying between $57^{\circ}$ and $72^{\circ}$ of north latitude, and between $5^{\circ}$ and $31^{\circ}$ of longitude east from London ; extending in length about 1000 tniles, in a direct line from Lindefnaes, in the diocese of Christiansand, to the North Cape, at the extremity of Finmark. Its breadth, from the frontiers of Sweden westward to Cape Statt, may amount to about 500 miles; but from thence the country becomes gradually narrower towards the north. On the south it is bounded by the Schagen rock, or Categate, the entrance into the Battic; on the east it is divided from Sweden by a longridge of hifh mountains ; and on the west and north it is washed by the Northern Ocealh. In the southern क्art of Norway, the country is craggy, abrupt, and mountainous, diversified sometimes with fertile and even deligatol spots, In these respects it resembles Switzerland: the prospects and the meteorological phicnomena seem to be very similast The range of the thermometer is of great extent; in the summer having risen to $85^{\circ}$, and in the winter fillen to $40^{\circ}$; in general is is between $80^{\circ}$ and $50^{\circ}$.

$$
\begin{aligned}
& \text { Respecting the population of Norway, it is difficula to attain to certainty. An author } \\
& \text { VoL I. }
\end{aligned}
$$

of some note (Coxe) seems to think they amount to 750,000 ; but he appears to have over-rated them considerably:
The Norveginn petsants are free, well-clothed, well-lodged, spirited, active, frank, open, and undmunted. They are said to have a very coasiderable resemblunce to the peasants of Switzerland. The soil is too thin for the plough : corn is therefore obtained from the neighbouring states ; and the chief employments of the peasants of Normey is grazing. The follonking extract from Mr. Coxe, being in description of the scene near Cliristiana, is not beside our purpose, and may not, perhaps, be disagrecable to our readers.
"As we approached Christiome, the country was more wild and liilly, but still very fartile and agreeable; and about two miles from the tome we came to the top of a mountain, and burst upon as fire a view on ever I beheld. From the point on which we stood in raptures, the grounds, laid out in rich cuclosures, gradually sloped to the sea; below us uppeared Christinn, situated at the extremity of an extensive and fertile valley, forming a semicircular bend along the shore of a most benutiful bay, which, being inclosed by bills, uplands, and forests, had the appearance of a large lake. BcBind, before, end around, the inland mountuins of Norway rose on mountains covered with dark forests of pines and fir, the inexhaustible riches of the north. The most distant summits vere capped with eternal snow. From the glow of the atmospliere, the warmith of tie weatber, the variety of the prodactions, and the wild beauties of the adjacent scenery, I could scarcely believe that I was nearly in the 60th degree of northem Intitude."
The coast of Norway, extending above 300 leagues, is studded with a multitude of stiall itlands, affording habitation to fishermen ana pilots, and pastore to a fow cattle. They form an infinite number of narrow channels, and a natural barrier of rocks, which renders Norway inaccessible to the naval power of its enemies. Attompts of this kind are the mere dangerous, as the shore is generally bold, steep, and impending ; so that close to the rocks the depth of the sea amounts to 100,000 , or 300 fothoms. The perils of the North Sea are moreover increased by sudden storms, sunk rocks, violent currents, and dreadful whirlpools. The most cemarkable vortex on this const is called Moskoestrom, from the small island Moskoe, belonging to the district of Laforlen, to the province of Nordland. In time of flood, the stream runs up between Lofoden and Moskoe with the more boisteroas mapidity; but in its ebb to the sea, it roars like a thousind cataracts, so as to be beard at the distance of many leagues. The surface exhibits different vortices ; and if in one of these any ship or vessel is absorbed, it is whirled down to the bottom, and dashed in pieces against the rocks. These violent whirlpools continue without intervals, except for a quarter of an hour, at high and low water, in calm weather; for the boifing gradually returns as the flood or ebb advances. When its fury is heightened by a storm, no vessel ought to venture within a league of it. Whales have been frequently absorded within the vortex, and horifed and bellowed hideously in their fruitless endeavours to disengago themselves. A bear in attempting to syim from Lofoden to Moskoc, was onec horried into this whirlpool; from whence he struggled in vain for deliverance, roaring so loud as to be heard on shore ; but,

## NORWAY:

- notwithstanding all his efforts be was bome doun tud destroyed. Large trees beiog absorded by the current, are sucked down, and rise again all shattered ioto splinters. There are three vortices of the sama kind near the islands of Ferroe.

Norway is divided into the four goveruments of Aggerbus, Bergen, Drontbiin, and Wardhus, besides that of Bahus, which is now subject to Sweden. The province of Aggerhus comprehends the south-east part of Norway, extenling in length about 300 miles. Its clief towas are Christians, the see of a bisbop, sufrugan to the metropolitan see of Drontheim, where the sovereign court of justice is heid, in presence of the viceroy and the goveruor of the province; Aggerhus, about is tailes to the south-west of Chiristiana ; Frederickstall, or Frederickstadt, in the siege of which Charles XII. of Sweden lost his life, Saltaberg, Tonsberg, Alleen, Hammar, and Hollea.

The government of Borgen lies in the most southerly and westerly part of Norway, inclading the city of the same name, which is an episcopal see, and a place of considerable trade ; and Staffhanger, sifuated in the bay of Buckenfior, about 80 aites to the southward of Bergen.

The third province, called Dronthein or Trontheim, extends about 500 miles along the coast : and is but thinly peopled. The chief town Dronthein, seated on a little gulph at the mouth of the river Nider, is the only metropolitan see in Norway ; and curries on a considerable trado in masts, deals, tar, copper, and iron. Leetstrand, Stronden, Scoerdale, Opdal, Romsdael, and Solendael, aro likenise places of some traffic. The northern division of Drontheim, called the sub-goverament of Salten, comprehends the towns Melanger and Scheen. The proviaces of Wardhus, extending to the North Cape, and including the islands, is divided into two parts; namely, Finmark and Norwegian Lapland. The cbief town, which is very considerable, stands upon an island called Ward, from whence the place and the government derive their name. The province of Bahus, though now yielded to the Swedes, is reckoned part of Norway, being a narrow track of land, about 90 miles in length, on the coast of the Categate.

The great chain of Norway mountains, running from north to south, called indifferently Rudfield, Sudefield, Skarsfield, and Scoreberg, is known in different parts by other apellations; sueh as Dofrefield, Lamsfield, Sagnefield, Filefield, Halneficld, Hardangerfield, Joktefield, Byglefield, Hickefield, and Hangield. Tho heigit and breadth of this extensive chain likewiso vary in different parts. To pass to tho mountain Hardanger, a man must travel 70 English miles, whoreas Fileficld may be about 50 over.

This last rises about turo milus and a half in perpendicular height; But Dofrefeld is counted the, highest mountain in Norway, if not of Europe. The river Drivane winds shlong the side of it in a serpentine course, so as to be met nike times by those whio travel the winter road the other side of the chain. The bridges are throwa over roaring catiracts, and bat indifforently fistened to the steep rocks on either side; so that the wholo exhibits a very dreadful appearauce, safficient to deter the traveller from hazarding such a dangerous passage; for which reason, people generally choose the road over Filefield, which is much more tedious. This, however, is the post-road used
by the Ring's carriages. The way is distingaished by posts fixed at the distancer of $200^{\circ}$ paces from each other, that, in snowy or dirk weather, the traveller tay not be bewildered. For the convghienca of resting and refreshing there are two mountain-staves or bouses, maintained on Filefield, as well as upon other mountains, at the expence of the public, and furnished with fire, light, and kitclen utensits. Nothing can be more dismal and dreary thin these mountiins, coverod with etemal snow, where neither house, tree, nor living creature is to be seen, but liere and there a solitary rein-deer, and, perchance, a few wandering Laplanders.

In travelling from Sweden to Nordenficlds, there is only one way of avoiding this chain of mountains; and that is, where it is interrupted by a long deep valley, extending from Ilomsdale to Guldbrandsdale. In the year 1619 , a body of 1000 Scots, commanded by Siaclair, and sent over as aoxiliarics to the Swedes, were put to the sword in this defile, by the peassants of Guldbrand, who never give quarter.

Beside this chain, there is a great number of detached mountains over all the country, that form valleys and ridges, ishabited by the peasants. Some of these are of ineredible lesight, and others exhibit very remarkable appearances. In saliing up Joering creck, on the left hand the sight is astonished with a groop of mountains, resembling the prospect of a city, with the Gothic towers and edifices. In tho parish of Oerskong is the ligh mountain Skopstorn, the top of which represents the figure of a fortification, with reguler walls and bastions In the district of Hilgeland appears a very bigh range of mountains, with seveo pianacles or crests, known by the appellation of the Seven Sisters, discernible a great way off at sea. To the southward of this range, though in the same district, rises the fimous mountain Torghatten, so called because the sumnit resentles a man's bead with a hat on, under which appicars a siogle ege, formed by an aperture throngh the mountain, 150 cls higf, and 8000 cils in length. The sun may be seen through this surprising cavity, which is passable by the foot of traveliers, On the top of the mountain we find a reservoir of water, as largo as a moderate fishpond; in the lower part is a cavern, through which a line, 400 fathous in length, being let down, did not reach the bottom.

At Herroc, in Sundmoer, is unother cavern, called Dolsteen, supposed to reach under the sea to Scolland; which, however, is no more than an idle tradition. In the year 1750, two clergymen entered this stbterranean cavity, and proceeded a considerable way, ontil they heard the sea dashing over their heads; the passage was wide, and as high as an ordinary church, the sides perpendicular, and the roof vanited. They descended one flight of natural stairs; but arriving at another, they were afraid to penetrate firther: they had gone so for, however, that two candles were consurnied in their progress und return. A caven of a very curious nature, serving an a conduit to a stream of water, nenetrates through the sides of the mountain Limur. In the dintrict of Rake, in the neigbbourhood of Frederickshall, are three cavitieo in a rock; ons of which is so deep, that a smail stone, dropped down, does not reach the bottom in less than two minutes; and then the sound it produccs is pleasant and melodieus, not unilike the sound of́a beil.

The vait mountains and rugged rocks that deform the face of this country are pro-

- BIRDS of tho NORTIIERY REGIONS.
ductive of numberless inconveniencies. They ndmit of little arable ground: they rerrder the country in some parts impassabie, and every where difficult to thavellers: they afford slielter to wild beasts, which cone from their lurking holes, and makn terriblo havoc among the flocks of cattle; they expose the sheep and goats, as well as their peasints, to daily accidents of falling over precipices; they occation sudden forrents. and falls of suow, which descend with incredible impetuosity, and often sweep away the labours of the husbandman ; and they are subject to dreadful, disruptions, by which huge rocks are rent from their sides, had burtiog down, overvielm the plains befors with inevitable ruin. The peasints frequently build their houses on the edge of a' steep precipice, to which they must climb by ladders, at the hazard of their lives; and when a person dies, the corpere must be let down with ropes, before it can be faid in the coffin, In the winter, the mail is offen drawn up the sides of steep mountains. Even in the king's road, travellers are exposed to the frequent risks of falling over those dreadfut rocks ; for they are obliged to pass over narrow path ways, without raile or rising on the sides, either shored up with rotten posts, or suspended by iron boits fastened in the mountains.
An the narrow pass of Naeroe is a remarkable way of this kind, which, above 600 years ago, the fimous king Surre caused to be made for the passage of his cavalry; and even this would have been found impassable by any other horses than those of Norway, which are uned to climb the roclor like goats. Another very difficult and dangorous road is that between Slogstadt and Vang in Voldets, along the side of a steep mountain, in some places so mirow, that if two travellers on horseback should meet in the night, they would find it impracticable either to pass each'other, or turn back. In such a case their lives coutd not be saved, unless one of them should alight, nud throw his horse leadlong into the lake below, and then cling to the rock, until the other could pass. When a slieep or gout unakes a false step to the projection of a rock, from whence it can neither ascend nordescend, the owner hazards his own life to preserve that of the animal . He directs himself to be lowered down from the top of the mountain, sitting on a cross stick, tied to the end of a long rope; and when lic arrives at the place where the ereature stands, he fastens it to the sane cord, and it is dram up with binself Perhaps the other end of the rope is held by one person only: and there are soine instanees in which the assistant lus been dragged down by the weight of his friend, so that both have perished. Whea either man or beast has had the misfortune to foll over very bigh precipices, they have not only been suffocated by the repercussion of the air, but their bodies have been always burst before they reaehed the ground. Sometimes entire crests of rocks, many fathoms in lrogth and breaith, have fatlen down at once, creation such a vieveot agitation of the air, as seemed a prelude to the world's dissolution. At Steenz broe, in Lacidale, a stopendous mass, lurger than any cestle in the universe, appears to have beea severed and tumbled from the mountain is large, sharp, and ragged fragments, through which the river roars with hideous bellowing. In the year 1781, a promontory on Sundmer, called Rammersfield, that bung over Nordal Creek, suddenly gave way, and plunged into the water; which swelled to such a degres, that the ehurch of Strand, though half a tengue on the other side of the bouts, was overfluweit:

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the creek, thowever, was not filled up; on the contrary, the fishermen declare they find no difference in the depth, which is sid to exceed 900 fathoms.

The remarkakle rivets of Norway are these: the Nied, issuing from Tydalen, on the borden of Swedei, ruis westwart into the lake Selboe; and aftervards, turaing to the northward, passes by the city of Drontheim, to which it antiently gave the name of Nideros ant Nidrosia. Sule Ely, that descending from Sulefield; runs with a rupid course through Nordale into the sea. Gulen, which rises near Sffarsfield in the north, and running 80 leagues westward, through Aulen, Hlotaslen, Storen, and Melhuws, discharges itself into the sea, about a league to the west of Dronthicim. In the year 134, this river buried itself under ground; from whence agnin it burst forth with such vialcuce, that the earth and stones, thrown up by the eruption, filled the valley, and formed a dam, which, bowever, was sonn broken aud washed away by the force of the water. Divers churches, 48 farm-houses, with 250 persons, were destroyed on this occasion. Otteroen, a targe river, triking its rise from the mountain Agde, runs about 30 leagues through Sceterdaic and Efie, aud disembogues itself into the cataract of Wiland.

The river Syre rises near the monntnin Lang, and winds its course through the vale of Syre into the lake of Laade, in the diocese of Christiansand; thence it continues its. way to the sea, into which it discharges itself through a narroy strait formed by two rocks. This contraction augments its impetuosity, so that it shoots like an arrow into the sen, where it produces a very great agiation. Nid and Sheen are two considerable rivers, issuing out of Tillemark, Their waterfalls lanve been diveted, with infinite labour, by canals and passages cut through the rocks, for the cunvenience of floating dosn the timber. Tyreford, or Dramme, is in the neighbourhood of Honifosse, joined by two rivers from Ocdale and Hadeland, and disembogues itself into the sea near Bragoess. Loven rises in the bighest part of Nummedal, and ruas throngh Konsberg to the sea near Laurwig Glaemen is the largest river of Norway, distinguished by the oame of Stor-Elvin, of the Great River. It derives its origin from the mountain Dofre, from whence it winds all along the plains of Oesterdale and Soloe; then joins the Vorme, another considerable river, rising out of Mioes and Guldbrandsdale. These being joined, traverse the lake Oeyeren; and thence issuing, run on to Surp, near FrederickstadL.

Norway abounds with fresh water lakes ; the principal of which are, Rysvand in Nordland, Snansen, Selboe, tho Greater and Lesser Mioes, Slirevand, Sperdille, Rand, Vesto, Saren, Modum, Lund, Norsoc, Hnidsoe, Farisvand, and Ocyevand: all these are well stocked with fish, and navigable for large vessels. Wars have been formerly carried on upon these inlond seas; in some of utich are small floujing islands, or parcels of corth, with trees on them, sepanated from the main land, and probakly preserved in compact masses by the roots of trees, strubs, and grass, interwoven in the soil. In the year 1702, the fanily neat of Borge, near Frederickstadt, being a noble edifice, with lofty towers and batlements, suddenly sunk into an abyss 100 futhoms deep, which was instantancously filled up by a piece of water 300 ells in length and about half as broad. Fourteeo persons, with 200 bead of cattle, perished in this catastrophe, which
was occasioned by the rizer Glamen precipitating fiself dotrn a water-fall near Sarp, and underwining the foundation. Of all the water-falls in Norway this of Sarp is the most dangerous for its height and rapidity. The current drives 17 miles; and roars with such violeoce, that the water, being dashed and comminuted among the rocks, rises in the form of rais, where a beautiful rain-bow may be diways scen when the sun shines. In antien: times this catariet was made use of for the execution of traitors and other malefuctors ; they were thrown down alive, that thicy might be dishied in piéces on the points of rocks, and die in a dreadful commotion, analogous to thase they had endeavoured to excite in the community.

Great purt of Nonvay is covered with forests of wood, which conslitote the principal article of commerce in this country. They chiefly consist of fir and piae, for which great sums are received from forcigoers, who export an immense number of masts, beams, planks, and boards. Besides, an incredible quantity is consumed at fome, in bailding houses, ships, bridges, piles, moles, and fences; over and above the vast deuand for chircoal to the founderies, and facl for doanstic uies. Nay, in some places the trees are felled for no other purpose but to clear the groand and to be burned into ashes for manure. A good quantity of timber is yearly exported to Scotland and Spain: but this is inconsiderable when compared to the vast exports from Drammen, Frederickshall or Frederickstadt, Christima, Skeen, Arendal, Christiansand, Christian-Bay, and Drontheim.
The masts and large beams are floated down the rivers, and the rest is divided into. boards at the saw-mills. These works supply a vast number of families with a comfortable subristence. A tenth part of alt sawed timber betongs to his Danish majesty, and makes a cohsiderable branch of his revenue. The forests in Norway are so vast and thick, that the people seem to think there can never be a scarcity of wood, especially as the soil is peculiarly adapted for the production of timber: they therefore destroy it srith a wasteful hand ; insomuch that more wood rots in Norway than is burned in the whole kingdoun of Denmark. The best timber grows in the provinces of Saltan, Helleland Romsdale, Guldtrandsdale, Oesterdale, Soloe, Valders, Hallingdale, Soguifiord, Tellemark, and the loriship of Nedene.
The climate of Norway is very different in different parts of the kingdom. At Bergea the vinter is sn moderate, that the seas are alsays open and practicahle both to mariners and fishermen, except in creeks and bays, that reach far up into the country towards Filefield, when the keen north east wind blows from the land. On the cast side of Norivay, from the frontiers of Siveden to Filcfield, the cold generally sets in about the middle of October with great severity, and lasts till the midddle of $\Lambda_{\text {pril; }}$ during which interval the waters are frozen to it very considerable thickness, and the face of the country is covered with snow. In the year 1719, 7500 Swedes, who intended to attack Drontheim, perisbed in the snow on the "mountuin of Puden, or Tydel, which separates Jempteland in Sweden from the diocese of Drontbcin. A company of 900 Norwegian sledgemen, uniler major Emabus, found them all frozen to death on the ridge of the momntaio, where they had beea surprived by a storm accompanied with saow, hait, end extreme cold. Some of these unhappy victims appeared sitting, some
lyingand others kneeling in a posture of praying. They had cut in pieces their muskets, and burned the little wood they afforded. The generals Labarre and Zoega lost. their lives ; and of the whole corps, consisting originally of 10,000 , wo more than es50 survived this dreadful catastrophe.

The coll is still more intense in that part of Norway called Finmark, situated in the frigit zone near the potar circle. Blat if the wiater is generally cold, zhe summer is often excessively hot, in Norway. The rays of the sun are reverberated from the sides of the mountains so as to render the weatier close and suitry in the valleys ; besides, the sun's abeence below the horizon is so short, that the atmosphere and mountains have not time to cool. The heat is so great, that vegetation is remarkably quick. Barley is sown, grows, ripens, and is reaped, in the space of six weeks or two months. The longest day at Bergen consists of 19 hours; the sun rising at half an hour after two, and setting at half an hour after ninc. The shortest day does not exceed six hours; for the sun rises at nine in the morning, and sets at three in the afternoon. In the beginulug of the year the daylight fincreases with remarkable celerity; and, at the appruach of winter, decreases in the same proportion. In summer one may read and writo it midnight by the light of the sky. Christian V while he resided at Drontbeim, used to sup at midnight without candles. In the district of Tromisen, at the extremity of Nornay, the suin is continually in view at midsummer. It is seen to circulate day and night round the north pole, contracting its orbit, and then gradually enlarging it until at length it leaves the horizon. In the depth of winter, therefore, it is for some weeks invisible; and all the light porceived at noon is a faint glimmering for about an hour and tun liatf, procecting from the refection of the stu's rays from the highest mountains. But the inhabitants of these provinces are supplied with other lights that enable them to follew their employments in the open air. The sky being generally serene, the moonshine is remarkably bright and, being reflected from the mountains iltuminates the valleys. They are also assisted by the Aurora Borealis, which is very frequent in the nortiern parts of Europe.

The air of Nuway is generatly pare and salubrious. On the lea coasts, indeed, it is rendered moist by vapours and exhalhtions: but in the midland ports of the country. towards the monntain the climate is so ilry, that meal may be kept for many years without boing wormenaten or damaged in the least. The inhabitants have no idea of sickness, except what is uccasioneri by excerses. It is said, that in the vale of Guldbrand the inhabitants live to such extreme old age, that they become weary of life, and caure themselves 10 be removed to a loss salubrious climate, whereby they may have a chance of dying the sooner. In consumptions, however, the moist air on the sea-side is found to be cuost agrecable to the lungs io respifation. Norway, being a mavitainous country intersected by craeks, abounding with lakes, rivers, and snow, must tie subject to frequerit rains; ond from sudden thaws the inhabitants are sometimes exposed to torrible dibasters.
Vant masses of snow, folling from precipices, overwhelm men, eattle, boits, housis, Hay even whole villages, About two centuries ago, a whole parish was covered and dwatroyed by an immeaso mas of snow; and several domestio utensils, as scisouth
buives, and bnsons have been at different times brought to light by a rivulet that rums under the snow, which has been gradually bardened and increasod by repeated frosts and ennual accessions.

The winds that cliefly prevail on the western coast are those toat blow from the south ; whercas, on be otier side of Fileficld, the winds that produce and coatinue the hard frosts are always northerly. In the summer, there is a kind of regular tradewind on the coast of Bergin. In the forcooon the sea begins to be cooled with a westerly breeze, which continues till midnight. Then the land breeze begins fiom the east, and blows till about ten in the morning. The coast is likewise very subject to sudden squalls und storms. Hurricanes sometimes rise at sea; and in these latitudes the phenomenon called a water-spout is not uncommon. One of these in the neighbourhood of Ferro is suid to have suicked up with the water some lasts of herriags, which were afterwards dropped on Kotter, a mountain 1900 feet high.
The fresh water of Norvay is not very light or pure ; but on the contrary is generally torbid, and deposits a sediment of adventitious matter, being sometimes impregated with octire and particies of iron. Nevertbictess it is agreeable to the taste, and remarkably salubrious; as appears from the good bealth of the common people, who drink little or ho other liquor.

The soil of Norway varies in different places, according to the situation of rock or valley. The mountains liere, us in every other country, are bare und barren; but the earth washed down from them by the rains enriches and fertilizes the valleys. In these the soil generally consists of black mould, sand, loam, chalk, and gravel, lying over one another in unequal strata, and sometimes in three or foar successions: the mould that lies uppermont is very fine and meflow, and fit to nourish all sorts of yegetables. There is al=o chicy found in different parts of this kingdom, of which the inhabitants begin to miake carthin wure : but bricks and tiles are not used in buildinge. The face of the country is it many places dcformed by large swamps and marhhes, very dangerons to the traveller. Neir Leessoe, in the diocese of Chiristiansand, a wooden causeway is exteuded near a mile over a mpress; and if a horse or any other animal should wake a false step, he will siak is once into the abyss, never to rise again.

In a cold coantry like Norway, rooghened with rocks and mountains, interspersed with bogs, and covered with forests, ve cannot expect to find agriculture in perfection. The ptougtied lacts, in respect to tiountains, woots, meadows, and wastes, do not exceed the propurti in of $t$ to 80 ; so that the whole country does not prodace corn to maintuin ahove half the number of its inluhitants. The peasants are discouraged from the pructice of binbundey by the frequency of arcidents that seem peculiar to the cliniate. Ever in the frutul provinces of Guldbrandstale, Ocaterilale, and Soloer, as w. If is in olher ph ees whea the corn appers in the most flourishing condition, the whi le hope of the himest is sometimes rlestruyed in one night by a sudden frost that nips the blady anf extiuguishes the veguration. The kingdon is moreover visited by tome whavaurable yeies, th which the stib seems to hive lost his genial power; the vegctibles are stunted ; the tree bud and bloom, yet beur no fruit; aud the grain, YoL. I.

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thoorgh it rises, will yet produce nothing but emply ears and straw. 'This calamity, hoirever, rarely occurs; fand in general the cultivated parts of Normay yield plentifal crops of excellent rye, barley, aud outh. Tho mosf fruiffol provinecs are Nardiand, Inderbarre, and Numedale, in the diocese of Dranhliar: Sognifind and Vans in that of Bergen; Jedicren, Ryefylk, Ruabyedelag and the lurdship of Nedenes, in tho diucese of Chritiangand; Hedemank in the docese of Apgotinis; Hhistant, Toten, Romerige, Ringerige and Guldbrathd-dale; these territories not anly prolluce grain enougt for thair own consumption, but likewise support their ucightraiss, and even supply part of Sweden. Pease are likewise propagated in this country, logetlien with wheat, buck-wheat, hops, hemp, and tax, but not to any considerable advantage. The meadows are well stored with pasturage for sheop anil cettle, and the ficlds aro productire of those vegetables which are common in orber narthern countrles. Witbia these 50 years the people of Norway have bestowed some aftention on the culture of gar deas, which in former times was so neplected, that the citics and towns were supplied with leeks, cabbage, and roots from England and Hulland. At present, however, tho Norwegians raise their own culinary and garden roots and vegetables, which thrive there as well as in any other country. The scurvy being a disease that prevails along the icacoast, nature hath scattered upon it a variety of herbs efficacions in the cure of that ditemper; such as angelic, rose-wort, gentian, cresses, trufoil, sorrcl, scursy-griss, and a plant called erich's-grass, that grows in great plenty on the ivlamb of Northland: froin whence the peopte of the continent ferch away boat loads of it, to be preserved in barrels as a succedaneum for cabbage. Thore, are also a few noxious ve etables little known in any country but Norway. In Guldbrandsdale is a species of grass called selfnape ; the root of which is so poisonous, that any beast which eats of it dies immediately, the belly bursting ; nay, the carnivorous fowls that prey upon the carcase of the beast meet with the same fate : children have been more than ouce poisoned by this root, which aevertheless is sometimes osed externally as an amufet for arthritic dlsorders.

Another vegetable pernicious to the cattle is the Gramen ossifragum Norwegiense, which is said to mollify the bones of the cattle which feed upon it. Among the noxious plants of Norway we may also reckon the iglegrass, fatal to sheep and goats ; the tour-grass, which atiects hones and cows with a sort oflethargy ; and the plant torboe or liste-spring, which produces nearly the satuic effect on liorses, but is not at all prejudicial to cows, sheep, or any ruminating animals. The herb turte, not unliko angelica, operates nearly in the same manner; yet the bears are said to feed upon it with pecultir relistr; and when their hair begin to fall off by feeding upoa this plant, they cure themseives by eating the flesh of animals.
The common fruit trees thrive tolerably well in Norway, the inhabitants of which have plenty of cherries, apples, and pears. Some kinds of plumbs attain maturity; which is seldom the case with grapes, apricots, and peaches. Buf even the apples and pears that ripen here are summer fruit ; that which grows till the winter seldom coming to perfection. Great variety of agreeable berries are produced in different parts o, this kingdom; such as the hagebar, a kind of sloes ; an infusion of which in wine makes
a pleasant cooling liguor ; juniper berries, corinth, red and whifo soclbar or sun hemien, raspberries, goosehecries, blackbercies, strawherries, \&c. with wany other species, that seem natives of Norway and Sweden. Among these are the tranebar, the produce of the my ralltas repens, red and austere, found in the spring in perfection under the snow, and much rolistied by the rein-deer: crakebeer, resembling bilberies, deened a powernal antiscorbutic ; agerbeor, larger aud blacher than biberries, of a pleasunt acid, ripened by cold, and used as cherries for an iufaston in wine; and finally, tyltebeer, a red pleasant bery, growing on a short stem, with leaves like those of box: they are pticekedioft ly Thindfuls, and sent to Deamark to be preserved for tho table, stiere they are caten by was of desert.

Of the tiees that grow wild in Norway, the principot are the fir and the pine. The first yields an anncat revenie of $1,000,000$ of riz-dollars, if we include the advantages resulting from the sarromills and the masts; one of uhich last bas been known to seli for 200 rix-dolfars. The red fir-tree, which grows on the mountaias, is so rich in turpentine as to be almost incorruptibie. Some of the houses belonging to the Norway peasants, built of this timber, are supposed to be above 400 years staading. In Guldbrandsdale the house is still to be seen standing in which king Olaf lodged five nights, above 700 ycars ago, whica he travelled round the lingdon to convert the people to the Cliristian faith. Even 100 years after the truak of the fir-tree has been cut down, the peasants burn the roots for tir, which is a very profitable commodity. In the fens, the jesifr of the fir-tree is by meture transformed into a eubstance which may bo called NorWay frankincense. The buds or pine-apples of this tree, boiled in stale beer, make an excelent medicine for the scurv; ; less unpleasant to the taste, though as efficacious as tar-water:

Thic pine-tree is more tall and beaulfut than the fir, though inferior to it in strength and quality : for which reason the pianks of it are sold at an inferior price, and thie peasaats wiste it without remorse. Norway likewise produces some forests of oak, which is found to be excetlent for ship-thuilding. Here atio grow plenty of elm-trees : the bark of which, being powdered, is botled up with otber food to fatten bogs, and eren mixed by the poor among their meat : aiso the ash, from which the pessants distil a balsam used in certain divorders, and which is used hoth externally and internaily, Many other trees flourish in this country, an enumeration of which would prove too tedious. Hazels grew liere in such abandance, that 100 tons of the nuts are annually exported from Bergen alone.

A great diversity of stones is found in Norway, some of which are of a surprising figure. Severat mountain consist chiefly of a brown pebble, which decays with age ; nay, it somettines dissolves, and drops into the sea, and the cement being thos loosened, a terrible disruption ensues. In: some places the grey and black pebbles are intermixed with iron, copper, lead, silver, and gold. The ground in certain districta is ccvered with the fragments of rocks that bave boen precipitated from the summits of mountains, and broken by their fall into impmerable shivers. Between 20 and 90 years ago, in the nelghbourhood of Bergen, a man was suddenly overwhelmed with such a mass, which formed a kind of vault around him. In this dreadful tomb he remained

## NORTHERN EUROPE.

alive for several weeks. By his lond cries the place of his confinement was discovered ; but in was found impossible to remove the large stone by which he was inclosed. All that his friends could do for him was, to lower down meat and drink through some crevices; but at length the stones fell in, and crushed bim to death.

In Norway are inexhaustible quarries of excellent marile, black, white, blue, grey, and variegated; togethér with some detached pieces of alabaster, several kinds of spar, cualk-stone, cement-stone, sand-stone, mill-stone, baking-atone, slate, tale, magnets, and swine-stone, a production patural to Norway and Sweden, of a brown colour, fectid smell, in texture resembling crystal, and deriving its uame from a supposed efficacy in curing a distemper incident to swine. Here also is found the amianthus or stone-flax, of which incombustible cloth may be made. Norway, however, affords no flints, but plenty of pyrites or quartz, beautiful crystals, granites, amethysts, agate, thunder-stones, and caglestones, Gotd has fornierly been foond in small quantities in the diocese of Christiansand, ani coined into ducats. There is at present a very considerable silver mine wrought at Kongeberg on the account and at the risk of his Danish majesty : the one is surprisingly rieh, but interropted in such a manner, that the vela is often losh. Many masses of pure silver have been found; and, among the rest, one piece weigbing 560 pounds, preserved in the royal muscum at Copenhagen. Such is thig richness of these mines, that the annual produce amounts in value to a ton and a half in gold. About 5000 people are daily euployed, and earn their subsistence in those stupendous works. Other sliver mines are prosecuted at Jaribberg, but not to the same advantage; and bere the ore is mixed with lead and copper. In many parts of this country copper mines have been discovered ; but the principal, and perhaps the richest in alt Europe, is at Roras, about 100 English miltes from Dropthein. This work yields annually about 1100 ship pounds of pure copper: the foundries belonging to it consume yearly ahout 14,0 co lants of coal, and 500 fathous of wood. The next in importance is the copper work if Lykken, about 20 miles from Dronthcim. A third mine is carried on at Indset or Quickne, of the disfance of 50 miles from the same place ; and bere they precipitate the copper from its menstruum by meatis of iron. There is a fourth copper work at Silboe, abeat 30 miles distant from Drontheim, though the least considerable of the four. Other copper mines of less note are worked in different parts of the kingdom. Iron is still in great plenty, and was the first metal wronght in this country. Many hundred thousand quintels are annually exported, chiefly in bars, and part of it in stoves, pots, kettles, and cannen : the natioual profit arising from this metal is estimated at $\$ 00,000$ rix-dollars There is a species called moor-iron, found in large lumps among the morasses: of this the peasants make their onn domestic tools and utensils, sucti as knives, seythes, and axes. The leat found misal'in the sitper ore is an article of small importance in Norway; yet some mines of this metal have been lately opened in the district of Soloer, by the proprietors of the coppet work at Oudal.

A vitriol work has been begun near Kongebergit the wines yiold great plenty of sulphur; which, bowever, the Norwegians will not tuke the trouthe to melt and depurate, because immense quantities ere found at a cheaper sate in the ialand- of Iceland,

Alum is found between the slate flakes near Christina in such plenty, that works heve been set up for refining this mine al, though they have not yet brought it to ony degree of transparency. His Danish majesty has established sutt-works in the peninsula of Valoc, about six English miles from Tonsberg, where this 'mineral is extracted ia Jange quantities from the sea water.

Besides, the animals common to other countries, Norway is said to contain many of an uncommon kind; such es the kraken, meramail, sea-serpent, \&c.

The Norwegians are generally well formed, tall, sturdy, und 'robust, brave, handy, ionest, hospitable, and ingenious ; yet sivage, rasti, quarrelsome, and litigious. Thas sume character will nearly suit the inhabitants of every mountainous country in the northern climates Their women are well shaped, tall, comely, remarkably fuir and obliging.

The nobility of Norway havo been chiefly removed by the kings of Denmark, in order to present faction and 6 ppasition to the court; or are long ago degenerated jato the rank of. peasants: some families, however, have been lately raised to that dignity.

Every frectiotder in Norway enjags the right of primogenifure and power as redemption ; and it is very usual to see a peasant inhabiting the same house which bas been prossessed 400 -years by his micestors. The odelsgads, or freehold, cannot be alienated, by sale or otherwise, from the right heir, called odels-mand: if le is not abie to redcem the estate, he dectaren iis incapacity every 10 h year at the sessions; and if be, or his heirs to the third gentration, stould acquire wealth enough for that purpose, the possessor pro tempore must resign his possession.

The moontainecrs ficquire surprising strength and dexterity by hard fiving, cold, leborious exercise, climbing rocks, skaiting on the soow, and handling arms, witich they earry from their youth to defend themselves against the wild beasts of the forests. Those who dwell in the inaritime parts of Norway exercive the employments of fishing and navjgation, and becume very expert inariners.

The peasants of Norwny never employ any bandicraftsmen for necessaries for themsehes and families, they are their onn liartirs, shoemakers, taylors, tanners, weavers, earpenters, smitls, and joiners; they are even expeit at phip-trailding; and some of them make excellent violiss. But their general turn is carving in wood, which thoy execute in $n$ surprising mauner, with a common knife, of their own forging: They are taught in their youth to wrestle, ride, swim, skaite, climh, shoot, and forge iron. Their amusements consist in making verses, bloxing the horn, or phying upoo a kind of guitar, and the violin: this last kind of masic they perform even at funerals. The Norwegians have evinced their valour and fidelity in a thousand different instances, The country was always distracted by intestine quarrels, which raged from generation to generation. Bivea the furmers stand upon their practilio, and challenge one another to single combiat with their knives. On such occasions they hook themselves together by their helts, and fight till one of them is killed or mortally wounderh. At werddogs and public feasts they dsiak to intoxication, quarrel, fighit, and murder generally eosues. The very common people are likevise passionate, ambitious of glory and inde-

## NORTHERN EUROPE.

pendence, and yay ot thaic pedinee. The nability and merchaols of Nosway fore sumptuously; but tho peasant lives wi th the ytuiost temperance and fugtity; except at fostivale: bis cormion bread is mode of oitmeal, rolled into broad thin cakes, like those used in Seotland. In time of scircity, they boil, dry, and grind the bark of the fir-trea into a kind of flour, which they mix with oatureal; the bark of the elm-tree is used in the same maoner. In those paris where a fishery is carried on, they knead the foes of cod with thicir oatmeal. Of these last, mixed with barley-meal, they make hasty-puctding and soup, enricied with a pieled herring or naltod mackarc! Fresh foh they have in (fenty or the sea-coast. Ther haut and eat gropse, partcidge hare, red-deer, and reil-decr. They kill cows, stiecp, und goats for their winter stock: these they pickio. or smoke, or dry for we. They make cheese of their milk, and a liquor calied ayre of their soor whey: this they commonly drink mixed with water; but they provide a store of strong ale for Cliritinns, weddings, clisistenings, and other entertainments, Prom their temperance and exercise, joined to the purity and clasticity of their air, they enjoy gooa health, and often attain to a surpising degree of longerity. Nothing is more common than to see a bearty Norweginn turned of 100 . In the year 1733, four couples dancedbefore his Danish mijesty a. Frederickshall: their ages, when joined, exceeded 800 years. Neveriheless, the Narnegians are subject to various disenses; such as the scab, the leprosy, the scurvy, the catarrh, the rheumatism, goot, and cpilepsy. The dress of the Norway peasants consists of a wide loose jacket, made of coarse cloth, with waistcont and breches of the same. Their heads are covered with flappect hats, or caps ornameated with ribbons. They wear shoes without outer soles, and in the ninter leathern buskins. They have likewise snow-shoes and long skaites, with which they trarel at a great pace cither on the land or ice. There is a corps of soldiers, thus accoutred, who can outnatch the siviftest horses. The Norwegian peasants pever wear a neck-cloth, except on extrabrdinivy occasions: he opens his neck nod brenst to the weather, and lets the snow heat into his bosom. Mis body is girt round with a broadleathern belt, adorned with brass plates, from which depends a brass chain, that sustains a large knife, gimblet, and other tickle. The women are dressed in close-laced jackets, having teathern girdles decorated wita omaments of silver. They likewise wear silver chains round their neeks, to the ends of which are fixed gilt-medals. Their caps and handkerchief are almost covered with small plates of silver, brass, and tin, large rings, and buttons. A maiden bride appears with ber bair plaited, and, together with ber clothes, hang full of such gingling trinkets.
The churches, public edifices, and many private houses in Norway, are bailt of stone; but the people in general live in wooden bouses, made of the trunks of fir and pine tree, laid upon each other, and joined by mortises at the corners. These are conated more dry, warm, and healtiy, thain stone or brick buildings. In the whole diocese of Bergen, one hardly sees a farm-house with a chimney or window: they îre generally lighted by a square bole in the top of the house, which lets in the light, anid lets out the smoke. In summer this bole is left quite open'; in the winter, it-is covered with what they call a sian ; that is, the membrane of some animal, stritcled upun a wooden frame, that fits the hole, and transwits the rays of light. It is fixed or removed with, a

long pole occasiondly, Every person that enters the house npon besiness or coartship taker hold of this pols according to antient cuator. Tho cieling is about eight feet high in the middle, and being arched like a cupola, the smoke of the fire underneath solh alout autil it finds a veat at tho bole. which is called lius. Uuder this opeging stands a thick table with benches, and an bigh seat at the upper end for the master of the fanily : he has tikewise a small cupboerd for lis owa uso, io which he locks up bis motit valuable effucti. The boards of Bic roof are conted with the bark of bircle-trees, which is counted incorruptibles this again is covered with turf, 'which yields a good crop of grase for gonts and shoep, and is often maned as hay by, the farmes.

The Norwegiane carry ou a comsiderable trado with-foreigi nations The duty on: the produce of their ewn) cowntry exported, amounts to 100,000 rix-dollars. These commodities are copper, wrought and-unwrought; ironc, cat into cannon, stoves, and pots, or-furgedinto burs; I lead insmall quantities; masts, timber, deal-boards, planlegh marble, mill-stones herring cods ling salmon, lotsters, flounders, cow-hides; goate skins seal-skins, the furs of bears, wolves, fuxes, heavers, ermines, martens; 8ce. dowa, featbers, butten, tallow, train-oil, tar, juniper, and other sorts of berries, nodi nats; salt, alum, glasos vitriol, and poteashes: All other commoditie and articles of luxury the Norsegians impors from different nations. The nature of the ground does not aderit of nuych impravemont in agricultare; neverthcless, the farmers are not deficient in induatry and skill to drain marnbef, apd reader the ground arable and fit for pastures Many, aro, ermployed io grazing and, breeding-catle; but a much greateo numben are engazed in felling wood, Hoating timbers burning charcoal, and extracting tar from thei ropts of the trees which have, been cut down; in the silver, copper, and ion aines; in the navigation and fishery. A considerable number of people earn a comfortable livelibood by huntinis shooting, and: bird-cateling. Every individual is at liberty to pursue the gaoie, espocially in the mountaias and commons; Therefore every peasant is expert in the useof firesams ; and there are excellent marksmen ameng the mountains, wha make use of the bowi to kill those animals, whase slins, being valuable, would be damaged by the shot of fire-armes,

Norway, can produce above 14,000 excellent seamen. The army, of this country amounts, to 90,000 effestive men; and tha sinnod revebue cxceeds: 800,000 rixdollars.

## SMEDEN:

The face of Sweden is pretty similar to those of ise neighbouring countries; only it has the advantage of navigable rivers.

The same may be sjuid with regand to its ellonnte; soil, Soe. Summar bursts forth from wioter : and vkgetation is more speedy than in southern climites. Stoves and warm furs mitigate the cold of winter, which is so inteasey that the upses and extremities of the inhabitants are sometimes mortified The Swedbs since the daya of Charles XII. have bepa at incredible paias, to correct the native barreaness, of their country, by erecting colleges of agriculture, and in some places with great suceess. The soil is much the

## 616

 NORTHERN EUROPE.same xith that of Denmark pnd some parts of Norway, generally very bad, but in some vailegs surpribingly fertile. The Swedes, till of late years, had not industry zufficient to remedy the one, nor improve the other. Tie peasants now follow the agricuiture of Franee and England; and some hate accounts say, that they rear almost as much grain. as maintsins the natives. Gothland produces whest, rye, barley, oats, pease, and bcans; and, in case of deficiency, the people are supplied from Livonia and the Baltic provinces. In summer the fields are verdant, and covered with flowen; and produce strawberries, raspberries, currants, and other small fruits. The common people know, ${ }^{2 s}$ yet, little of the cultivation of apricots, peaches, nectarines, pine-apples, and the like higti-flavoured fruits; but melons are brought to great perfection in dry seanons.
Sweden produces crystals, amethyists, topans, porphyry, lapis lazuli, agate, cornelian, marble, and other fossils. The chief wealth of the country, however, arises from her mines of silver, copper, lead, and iron. The last mentioned metal employs mo fewer than $\$ 50$ forges, baminering-mills, and smelting houses. A kind of gold mine has fikewise been discovered in Siweden; but so inconsiderable, that from the year $17+1$ to 1747 , it produced only 2398 gold ducats, each valued at nine and fourpence sterling. The first gallery of one silver mine is 100 fathoms below the surface of the earth, the roof is supported by prodigions oaken beams, and from thenco the miners descend about 40 fathoms to the lowest vein. This mine is said to produce 20,000 crowns a-year. The product of the copper mines is uncertain ; but the whole is loaded with vast taxes and redactions to the government, which has no other resources for the exigences of state. These sabterrancons mansions are astonishingly spacious, and at the sane time commodious for their inhabitants, so that they seem to form a hidden world.

The waterfills in Sweden afford excellent couveniency for turning mills for forges; and tor some years the exports of iron from Sweden brought in $\$ 00,000 \mathrm{~L}$, sterling. Dr. Busching thinks that they constituted two-thirds of the national revenue. It must, however, be observed, that the extortions of the Swedish government, and the importation of American bar-iron into Europe, and some other causes, have greatly diminished this manufacture in Sweden; so that the Swedes very soon must apply themselves to other branches of trade and improvements, especiaily in agriculture.

The animals differ very litule from those of Norway and Denwark, only the Swedish horses are known to be more serviceable in war than the German. The fisles found in the rivers and lakes of Sweden are the same with thase in other northern countries, and saken in such qoantities, that their pikes, particularly, are satted and pickted for exportation. The train-oil of the seals, taken in the gulf of Fialand, is a considerabie article of exportation.

Siseden is divided into seven provinces_Gothland, Sweden Proper, Finland, Zaplanh, Livonia, Ingria, and the Balticislea. Of these Lapland has beer already described, and Livonie and Ingria are now subject to Ruissia, so that only four of the number remain to be examined, Gothland, Sweden, Fiutand, and the Isles.

Of Sweden, the following are the sudbivisions_Uplandin, Westmania, Gestricic, Helsingia. Sudermania, Nerieia, Datecarlia, Medelpedia, and Jomptia.

Of Gothland,-East Gotbland, Smaland, Delts, Bleking, West Gothland, Wermelani, Schonem, Halland.

Of Fimland-wEast Bothnib, Savolaxia, Travastin, Cajania, Myiand, Finland proper. The Swedish istes are,-...Gothland, Ocland, Alawd, Rogen.
The provinces of West Gothland, Nericin, Gestricia, and Dacearlia, with the northern part of Upland, and the southern part of Sudermimia, are only hideous rocks end immense deserts, with gloomy woode of fir-trees of 30 or 40 leagues in tength. In the province of Halland, for the space of eight miles, the distance betreen the villages Morop and Ossa, the traveller cannot perceive one tree, the bramble juniper alone graving upon the litule moss that covers the rocks. The villages are not las wretched than the conntry in which they are situated no hatitations are seen buit those of the peasants, who ire obliged to furnith fiotises for travellem, and no humon being is met with but if few miserablo sliepherds, whose sheep straggle atmong the rocks, in search of the scanty moss which-is their only food. Westmanna, the northera part of Sudermania, the southern part of Upland, and East Gothland, are excepted from this gencral character of desolation, Bleking is accounted not deficient in fertility ; but Scunis is the most valuable of the provinces of Sweden. Its gentle hills and luxuriant valleys produce every sort of grain, and afford pasture to numerous herds of cattle ; wlile the many well bailt hoases prove the riches and actisity of the inhabitants.

Certain towns in Sweden, of in aumber, are called staple towns, where the merchants are aflowed to import and export commodities in their owa ships. Those towns which have no forelgn commerce, thangh tying pear the sea, are calted land towns. A third Kind are called mine tovris, as tefonging to the mine districts.
TSoekholm is a staple fown, and the capital of the kingdom : it stands upon seven rocky islands, besides two pentasalas, and is built upon piles. It, strongly impresses a stranger with its singtular and romatic scenery. A variety of contrasted and enchanting viows forned by numberless rocks of grauite, rising boldly above the sarface of the water, parily bare and cragty, partly dottel with houses, or featiaved inith wood. The harbour, which is spacious and convenient though difficaft of aceess, is an iolet of the Baltic ; the water is cfear as crystal, and of such depth, that saips of the largest buratea can approach the quay, which is of considerable breatith, and lined with spacious britdings and ware-houses. At the extrenity of the harbour sevenil? atreets rise one abive anotier in the form of an ampbitheatre; and the pafice, a magriticent building erawns the summit, Towards the sea about two or three miles distant from the town, the harbour is contracted to a narrow strait, and winding among high rock- ilsyppears froin the sight. The prospect is terminated by distant hills overspread with forests .

Escepting'th the suborbs, where the houses are of woot, paintell retl, the generality of the buildings are of stupe of of brick sticcoed $n$ tite. The royal pulaee, which stanis in. the centre of Stochtotm, and upona hie tighest spot of gromad, was tegon liy Charles XI. It iva tirge quadraigular stong edifiee, and the atile of architecture is both elegant and mumbiniont.

Thir nipuber of housekeepers who pay fixesare 60,00 . This city is furnished with Vos 1.
all the estarior marks of magnificence, and buildinge for mamificture and conmerce that are common to other Eiropeau cities ; partictiaty at ontionat benk, Lie eapital of which is $450,000 /$ sterling.

The principal university of Sweden is that of Upual, inatioted near 400 yours ago, and patronized by suecessive monarelis, particulady by Gutaves Adopphus and his daugliter Ctristiana. There are near 1 scoa stadents in this aniversity, het for the mont part they ara extremely indigent, and lodge five or dix together, in very poar hovels. The professors in diferent branctics of literature are about \&2: of whow the principal are those of divinity, eloguence, botany, mantamy, chemistrs, nitural philosophy, as. tronomy and agriculture. Their salaries are from 70 to 100 pounds per manum. Tris universits justly called by Stillingtleet, the great and unrivalled sethool of naturni/ history, is certainly the first seminary of the worth.
There is another unfersity at Abo, in Finland, but not so well endowed, not so fionishing ${ }^{\text {and }}$ and thero was a thisd at Laeden, in Schonen, which is now fallen into decay.

## DENMARK.

Denmark coasists of the Peniusula of Jutlandeand of the islands of Zealand, Furer, Faksterhand, Langland, Femeren, Alsen, Mona, and Bornbolun at the entrance of the Battic
Jutlant is divided into North Jutand which is usuatly called Jutland, and south Jutiand or Siesmik. Jutland produces an abandance of all sorts of grain and pasturage; and is a magraime for Norway on all orceasions, $A$ great uumber of small catte ard bred in this province, and aftervards exported to Holstein, to be fed for the service of Hambirghi, Labec, end Amsterdati.
Jutland is every where interppersed with liills ; and on the east side has fine woods of ontc. Fir, beecl, Sirch, and other thees; but the westside being leas noody, the inhabifunts are obliged to use turf and heinth for fuel. Zealand is, for the most part, is smuly wail, but-matier forribe io grain and postunge, ami ugreeably variegated with woods and takes. The climato is more temperate here, on necount of the vapours from tho samranding sea, than it is is many soutbern parts of Europe: In all tho northern parts of Deamirk, the winters are very severe, so that the inhabitunts offen pass over arrus of the sea upon tho ice ; and during the winter all the harbsurs are ivzen up.
Copenhsgen, the capital of the kinglom of Deumark, is situated on the castern stiore if the ishad of Zcaland, upoo a fine bay of the Baltic sea, not fire fiom thi strait called the Soound. E. Long. $13^{\circ} \mathrm{N}$. Lat $55^{\circ}$ so.

The precive date of the foundation of this city is diaputed; but the most probable accounf is, that it took its rise from a caxtle built on the spot in the year 1968, as a protection aganst the pirateo whicl at that time swarmed in the Baltic. Thie conveniency of the staution, and the security afforsed by the castle, soon indueed a number of the iobabitants of Zealand to resort thither ; but it was not distinguished by the royal resi-
dence until 14.4; during tho reign of Chifitopher of Bavaria; since which period it has been gradually enlarged and beautified, and is becoge the capital of Dearmork

Coprentiggen is the best built city of the north ; for altiongh Petersburgh excels it in sumero etfices. Yet, as Coperibagon contains no ivochten fiousta, it does not display that striling contrast of mexancess auil magnifietece, hut id jgenefal oxhibits a more equable and suiform appearance. The town is sursounded towarls the *land with regular ramparts and bastions, a braad ditch full of waler, and a fow outworls: its cyevuference tieatures between four and fivo bilies. The atreets aro well paved, with a footwiny on ead side, but too narrow hand inconvenicat for general use. The greatest part of the buildings are of trick; and a few of treetwae brought from Germany: The houses of the nobility are in goenul splendil, and contmicted in the Italian stile of architecture: the paluce, which was erected by Christian VI is a large pile of building; the front is of fifube, ond the wiags of brick stuccoed; the suite of apartments is priacely; but the extemal appearance is mome. grand than elegant.

The busy spinit of cetumerce is visible in this city, which contains about 80,000 inhavitants. The haven is always crowded with merchant ships ; and the streets are intersiersed by broat canals, which bring the merchandize close to the warehouses that tine the quilys. This city ores its principal beavty to a dreadful fire in 1728, that destroyed five churches and 67 streets, which have been since rebuilt in the modern stile.

The near part of the town, raised by the late king Frederic V. is extremely beautiful, scarcely inferior to Bath. It consists of an octagon, containing four uniform and elegant butidinge of beiwn stone, and of four broad streets leading to it in opposite directions. In the mildite of the area stands an equestrion statue of Fecderic V. in bronze, as big as lif0, which cost 80,000 . The Royal Museum, or Cabinet of Raities, merits the attention offavetters. This colfectloni which was begun by Frederic 11L is deposited in efgit apartments, and ranged in the following order: animals, shells, mincrals, palatings, aatiquities, medals, dresses, arms, and implements of the Lapbander.

Purt of Copentingen, which ì calted Christhan-shafen, is built upon the iste of Ausak, which generally attracts the curiosity of foreignors; from this, to which the main city is joined by a bridige, the markets are supplied with fowl, beef, mutton, venison, corn, and colinary vegetables, which are produced here in the greatest abundance.

Jagensourgt is a patk wshch contafis a royat seat cilted tio bernitage, rcmakable for the disposition of the apartureats and the quaintness of its furniture ; particularly a machine which conveys the dishey to and from the kings table in the second story. The chit f'ecelesfistical building in Denuark is the cathedral of Roshild, where the kings and queens of Debmurk were formerly buried, and their monuments still reuain. Joining to this cathodral, by a covered passage is a royal palace built in 1733 .

Elsineur is well built, contains 5000 irlhabitants ; and with respect to comprerge, is orceeded only by Copenhagen. It is atrongly fortified on the land side, and towards

## NORTHERN BUROPE.

the se is defended by a strong fort, containing several batteries of long cannon. Here all vessels pay a toll, and in passing lower their top sails.

## GERMANY:

Germany, as it subsiated before the late war, is bounded on the north by the Baltic sea, Denmark, and the German Ocean : on the south by Italy and the Swiss; on the cast by Pryssia, Hungary, and Poland, and on the west by the Low Countries, Lorraine, and Franche Comté : so that it comprehends the Palatinate, Cologoe, Triers, and Liege, which formerly belonged to the Gauls, and is dismemlyred of Friezland, Groningen, and Overyssel, which are now incorporited with the Low. Countries.

Germany lies between $43^{\circ} 4^{\prime}$ and $54^{\circ} 40^{\circ} \mathrm{N}$. Lat. and between $23^{\circ} 30^{\prime}$ and $56^{\circ} 59$ Bast Longitude. Extending from north to south 720 miles, and 655 from east to' west.

The principal rivers of Germany, are the Damube, the Phine, the Mayne, the Etbes the Oder, and the Weser.

The Danube, or Douau, formierly called Ister, rises iu Suabia, is the territory of Furstenburg, runs eastward through Ciermany, Hungary, and Turkey; receiving above 120 rivers in its course, and dtischarges itseif by scveral outtets ioto the Hlack Sea. It begins to be navigable for boats at Ula, and receives soveral large rivers as it passes abong. It is so deep between Buda and Bulgrade, that the Turks and Christians have bad men of war upon it; yet it is not navigable to the Black Sea on account of the cataructs.

The-Rhine derives its arigin in the country of the Cirisons, from two springs; at the town of Coire it becomes naviguble ; below Rheineck it falls into the Jake Constance ; sear Schaff-hauscu it forms al cascade, and licn receives the Thurand Aar: at Mauhein it is joined by the navigable river Neckar, and by the Mayne at Menz; it Obirlabustein it receives the Lalan, or Laluu ; ut Collentz the Mosel; a Duisberg, the Roer; and at Wesel, the Lippe ; at Sehenkenschanze it enters the United Provinces, snd- is divided into two branches : one of these called Wanl, joins the Maese; uiother, which formerly discharged itself into the North Sea, is now become a stagmant water, and ends near the city of Leyden.

The Mayne has a double source ; one in the margraviate of Bayrenth, the other in the Fictielse, on the Fichtelberg, in Pranconia, These streams guing Lelaw Culmbich, frou the Mayue, which in its course receives the Regniz, Saat, Touter, and Kenziga and afterwards runs into the Rhine at Mentz.

The Elbe rises in Botiemin, recelves the Moldan and the Eger; entering the circle of Upper Saxony, it is joined by the Melde under the Saal; then running through the circle of Lwer Saxony, it is ougmented by the Havel mot the Inwenain. Dividang itself into many branches, in the neighbourhoud of Ifiuburgb, oit forms a number if Blandf. Lelow Gjuckstadt it receives the Siur; and near Bronsbuthic losea hoelf in the Gerainn 'Ocean.

## GERMANY.

- The Oder rises in Moravia, traverses Silesia, waters the marquisate of Brandenburg, enters Pomeranin, pours itself into the Great Haf, and out of that into the Dattic

The Weser is formed by the rivers Werra and Fulda, the first rising in Fulda, and - the other fa Franconia; these uniting at Munden, take the name of Weser, which, wfer it has received the Alley, Verden, and the Wumme in Bremen, disemboroes itself into the Northern or German Ocean.

Since the reign of Charlemagne, this country is divided into High and Low Germany; the first towards the south, comprebending the Pulatinate of the Rhine, Frunconia, Suabia, Bivaria, Bohenia, Moravia, Austria, Carinthis, Carniola, Stiria, Tyrol, the Suriss, and the Grisons; while the provinces of Lowrer Germany, towards the north, cunsist of the Low Country of the Rhine, Friers, Cologne, Mentz, Westphalin, Hesse, Brunswick, Misnia, Losatia, High Saxony upon the Elbe, Lower Saxony upon the Elbe, Mecklenburge Luneburg, Brandenhurg, Magdeburg, and Pomeranía.

Germany is likewise distinguished by those countries that border upon the Rhine, the Danube, the Oder, the Elbe, and the Weser; and, thirdly, it is divided into certain generalities, or large provisces, colled circles, comprebending the princes, prelates, counts, and cities, which, on account of their nearness to each other, may conveniently ascemble about their common affuirs. Under this appellation, the members of the onnpire were divided by Maximilian L. into six parts: namely. Franconia, Bavaria, Suabia, the circle of the Rhine. Westphalia, and L.owet Saxony; he afterwards added tbose of Austria, Burgundy, the Lover Rhine, and High Saxouy; so that the number was augmented to ten, aod confirmed in the reign of Charles V.

Each circle is provided with directors and a colonel; the first being invested with the power of convohing the general assembly of the states belonging to the circle, and of regulating its public affiirs, white the colonel is entrusted with the comanand of the soldiers, and the care of the artillery and munitions of war.
As all the members must contribute for the occasions of the empire, each circle is taxed for thio support of the troons and other publie necessities, at the rate of so many horse and foot, or i certain monthly sum, distinguished by the name of Roman months; an appettation derivid foom the first use of that the, which was tevied for the support of 20,000 foot and 4000 horse to accompany the emperor in his journey to Rome; and those who could unt firnish soldiers, paid a monthly equivalent in money.

The circle of Austria, of which the emperor, as archduke, is director, comprehends all the prcvinces depeading upon the conpire, which are possessed by the house of Austria; for the kingloms of Hongary and Doheonia, together with several other states, which they possess independent of the empire, are not comprised in this circle.

The circle: of Eavaria, so called because tbat durhy constitutes the priocipal part of it, includes several other independent states; the electer, as duke of Bavaria, and the archbishop of Sultzhurgh being the directors.
-The crele of Suabia, which, wore than uny other, nbounds with imperial towns, has for directors, the sshop of Constance and the duke of Wirtemburg.

Thnse of the circle of Franconia, denomissted frow the province of that name, Vow. I.
are the bishop of Ramberg and the marurave of Bareith or Culubach, who possesses the burgraviate of Nurcmbarg.

The rircle of Upper, axony is under the sole directorahip of the elector ; but as for that of Low Saxony, which is one of the most considerable circles in Germany, tiic king of Sweden, as duke of Iremen, and the decher of Irandeaburg, as duke of Magdehurg, are altermately con-tiicectors with the eldest of the dukes of Brunsuick and Lunenburgh.

The circle of Westphalis produces such plenty of men and honses fit for service, that in time of wir, the states of this province chose to furaish their proportion rather in those thou in money; their directors being the elector of Brandenburg and duke of Nywbourg, with the bishop of Mumster.

The circle of the Lower Rhine, which is also called the circle of the four clectors, because it includes the three ecclestantic electory and the Palatinate, situated upon the Rhine, has, for directors, the electors of Mentz and Palatinate; white those of the Higher or Upper Hhine, are the bishop of Worms and elector Palatine, as baving succeeded to the duchy of Simmeren, though tho first pretends to be sole director.

As for the circlo of Burgundy, which takes its niame from that province, now dismembered from the empire, and belonging to the king of France; it was formerly under the directorstip and sovereignty of the king of Spain, and comprehented not only IIIgh Burgundy or Frimelse Conte, but tlkeuise the 17 provinces of thic Eaw Countries, which, in the reign of Cliarles $V$. were received as members of the empire, independent, indeed, of the imperial chamber with respect to justice, but subject to pay as much as is levied from two electors, in case of war against the Turks: however, this contribution was never raiscd, and is now entirely oafted in the rolls of the coutingencies of the empire

Exclusive of this circle, therefore, the contributions for a Roman month, paid by all the others, omount to $9+19$ borsenien, and 19,400 foot soldiers; or, in money, to 75,840 florins ; and this tax is augmented double, triple, and quadruple, according to the number of troops to be raised, but alrays in proportion to the establisted rates in the book of matriculation.

The empire of Germany is a body, of which the emperor is the head, and the states are the members. These states are divided into three classes; namely, the collego of electors, the college of ecelesiastical and secular prioces, and that of the imperial towns, which are admitted into the diets or general assemblies.
Charlemagne and his successors possessed the empire by hereditary right; but that race being extinct, the princes assembled, elected Conrad, and afterwards Henry the Fouler, who was succeeded by Otho, sumamed the Great, efter whom the emperors enjoged their dignities by succession, though the consent of the peopi.e wes necessary, touching the capacity of bim upon whom the empire devolved. This custom continued till the reigo of Henry IV, who gave occasion to the constitation which regulates the elections of the emperors, and by virtue of which he bimself was afterivards deposed.

The confusion which necessarily attended the election, on account of the great number of
-princes, states, and sovereigns, who had a right to vote, indoced them to transfer that power to seven chieff, whom they denominated electors, and , who were afternards cosfirmed as such in the reign of Charles IV. by an ordinauce,* called the Golden Bull, which regulates the form of the election, and power of those electors, which is naw here-

- ditarily annexed to certain states of the empire.

Before Chariemagne, and a long tine after his reign, the empire was altogether monarehial, through the whole exteat of jts dominions, both in Germany and Italy : but siace Frederie 11. the electors and princes lave insensibly acquired certigin rigits, to which they did not formerly pretend; so thit the government is become partly zoonascial, and partly aristocratical ; for there are certain prerogatives, which the emperor enjo.s by his sole power and imperial authority; white, in other affairs, he must have recounse to the voice, and sulicit the consent, of the priaces and electors, and even of all the states of the empire, in consequence of a solemn capitalation, which be sigus at his electioo.

Ife assumes att the marks of the antient emperors of the West, with the cittes of Semper Augustus Casar, and Sacred Majesty. His cnown is closed above, and suruounted with a globe, which is the symbol of universal monarchy; and the Christian princes allow him the first rank, on account of his dignity. He convokes and dismisses the diels and other imperial assemblies; having a right to authorise their resolutions, which are aiterwards putwished and execoted in his nams: he confirms the alliances and treaties which lave been made by their predecessors for the welfare of the empire: he alone enjoys the benefit of what is calfed the first prayers, that is, the right of filling up the first canonblijp, or suy other dignity, in the cathedral and collegiate churches, as well in the abbeys of the empire, that shall be vacant atter his coronation; he creates and conters all the other secular dignities, such as kiog prince, archduke, duke, marquis, landgrave, coun, and baron. To him alone belongs the power of bestoning the great fiefs of the empire, the investiture of which be gives to the ecclesiastical princes by the sceptre, and to the secular by the standard or sword; be receives the oath of allegiance from the electors, princes, and all the members of the empire, and all the doninions which devolve to the empire, by forfeiture or othervise, are entirely at his dispasal ; he grants pandons and rewissions; institutes and confirms univerities ant academies, and possesses other prerogatives, which are marks of sovereignty. Hit he is obliged to consult the electors before he can alienate or mortgago tha effects of the empire, grant the privilege of coining money, or confiscate the estates of rebets. The general consent of all the estates is necessary in regulating the nffairs of religion, in making or annulling laws, fxing the value of money, proclaining war within of willout the empire, imposiog subsidies or general contributions, raising troops, building new fortesse; or potting garrisons in the old, and in making treatics and aliances, Nevertheless, it the nffinir is pressing, mo more than the coneent of the electors is required; and in truees or cessation of arms, the anthority of the emperor is sufficient. Tortuese restrictions be subjects himself, by a capitulation made at his election, whirh is 1 a contract between him and the electors and princes, introduced since the wiga of Charles V. before which time, the ordinary constitutions of the empire served in icu of 1.-
this capitulation. In the absence of the emperor, the sovereign power devolves to the King of the Romans, as perpetual vicar of the empire: but in default of the emperor, and king of the Romans the authority iv trausferned to the two vicars of the empire in Germany, uamely, the elector of Bavaria, the palentine of the Rbine (for the right is contested) and the elector of Saxouy, who each, ia his own extent of principality, exercises the same functions in all things, except the grand fiefs, called the fiefs of the sceptre and the sword, which can bie bestownd by nome biat the emperor.

The domajo possessed as emperor, and the revenues which be draws froin the empire for the support of his imperial dignity, have been formerly very considerable; buit at present are mueh reduced, is to be altogether insufficient to maintain the post of phe empire; so far are they from being able to support his diguity, or contribute to thig subsistence of his troops. There is not one town belanging to. bin as emperor: and in case the Germans should elect a prince destitute of bereditary dominions, the city of Bamberg would be assigned to him as the ploce of his hatitation, and the bishop in tant case obligod to retire to Villas. The emperor's revenug consists in aids, which are called Roman months, pail by the states and members of the ermpire, in some other subsidies from the imperial towns, which aurount to about 40,000 livres a-year, in taxes of the chancery, and exactions from the Jews, distinguished by the name of Oblation money.

Besides the Aulic council, which shall afterwards be meationed, there are three others established for dispatching the sffairs of the empire. The first is the council of state, composed of a president and 24 counsellors, who are princes or counts of the empire. and other considerable noblemen, and ten secretaries for expediting letters und decrees. The second is that of the finances, composed of two presidents, oae director, with 14 assessors, and six secretaries. The third is the imperial councit of war, consisting of two presidents, who are generals, and seven cousisellors, who are camp marshats, mis-jor-generals, and colonels, with an auditor-general, registers, and secretaries. The titte of the king of the Romans, as it is at present understood, was altogether unknown in the time of the first emperors, who were aetually sovereign princes of the city of Rome.

Chartenagne laving destined the succession of the empire to his eldest son, besugved upon tim the quality of king of Italy, a title which Louis the Debonair and Lotharias I: likewise conferred upon their presnmptive heiss; an uppellation equevalent to that of Cesar among the antient emperors, and to thut of king of the Romans is ito present sigufication. This last titte began to tho in ise about the tenth ocentory, vhaco it was supposed that the pope had the sole right of creating the emperor. Accordingls many emperors contented themselves with this appellation antil theyowere actually crowned ac Rome; and in this sense we must unierstand thie second chapter at the Golden bull, which, speaking of the election of a king of the Romans, mentions, hin only as a isnceussor in the empire, who could not be qualified es cmperor till after hif coromation by tise pope.
A) present the king of the Romans is he who is chosen by the princes electors, durtwk the emperor's life to conduct the affairs of Cermany in the emperor's absence. ant;
vicarigeneral of the empire, and to succeed bim on the imperial throne at his death; without any other election or confirmation. This is an exptdient used by the cinpercr when he wants to see the succession secured during his owntife, or is no tonger in at con-

- dition to manage the reins of goverument. The king of the llomins is nat crowned with an imperial but with an open crown: nor docs ho receive the path of atlegiance iill after the death of the emperor; nor is he honoured with the epithet of Semper Augustus: nor docs be bear the spreud eagle with fwo heads; nor does he exogcise any power in the empire while the emperor is there in person; but, in lis absence commands by vive of his dignity.
No bave already observed that there are three colleges in the empire, a distinction which wats established int the diet of Francfort, in the year 1580. Of these the chief is the electornt; which originally consisted of seven electorn; an eighth was afterwards added and is at present composed of njec, in each of whiom-are onited the two gualities of prince of the eupire and elector. As the first, he is-sovereign in the extent of his own dominiong, with certain restrictions, which render him dependent apon thie emperor and cuypire. As elector he has a right to elect the empororand king of the Romans, and procedes Will other princes of the emplie, not excepting cardinals und kinge This college comprehends three archbishops and five secular princes; the first arc those of Mentz, Iriers, and Cologne, whoaccording to the golden bull, are great chaneellors of the empirt ; the secular princes are, the king of Bohemia, great cupbearery the duke of Bavaria, great master of the palace ; the duke of Saxony, great marelial; the margrave of Brandenburg, great chumberlaiu; and the count palatine of the Hhine, high treasurer. The number of electors was augnented by the emperor Leopold, whu erectad the house of Bronswick into a ininth electoratio, under the title of elector of Hianover, on pretonce of giving satisfaction to the protestants, who complimid that their authority was diminished by the Palatine electorates passing into a catholic branch of that farsily. The secular electors have hoth an aetive and a passive voice, cach lrving a right to choose and to be chosen emperor; whereas the ecelesiastic clectors can chose yithout having any right to be chosen. The three irchbistiops must have attained the age of 30 years before they ean obtain that dignity; but the recular elector is of rige at 48, During his minority inis nearest relation is appointed as his tutor or adminimpator, itid excrénes the electoral dignity, maintaining the rank, and wearing the hinbit of an elector. We have atready observed, that two of these electors ate vicars geberal of the eupire, which they govern upon the death or resignation of the emperor, When there js no ling of the Romans. Each exercises a separate power in the provinces of his jurisfiction; cxeept in tho clamber of Spire, the acts of which are signed by the names of both, because there justice is administered by all the states of the empire. -Each of these secular electurs has a yicar, who performs bis office in tis absence; fidd difo vicariates are heredinary. The ecelestastics acquire their electorates in uie man(ues by whici prelacies aro obtained ; but the secutars-aequire it by callation of sticcession. Collation takes place in default of male issue legitimate and taic, and is sameFioned ly the emperor; who is obliged to complote tho number of electors; and confer

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the vacant place upon a German prince. The succession subsists conformable to the Salic law according to the fight of seniority, being independent of all transactions, testaFiments, and other eruel acts, which are used in other cases for changing the order of succession.

The electors have the right of possessing salt-works, and all sorts of mines, in their own electorates ; to coin gold and silver money ; to levy the antient taxes; to wequire the greatest fiefs in preference to all others, and to be invested gratis; to refus come pliance with any-privilege contrary to their own; to exercise a superior and sovereigh jurisdiction in their dominions ; though the vassals of all the electors, except those pir Saxony and Ifrandenburg, have a right to appead to the imperial chamber: but the those characterizing distinction of the electors is their right of choosing and deposing thd emperor.

The next college comprehends all the other princes : cither secular, as dukes, margraves, lundgraves, burgraves, counts, \&e. or ecclesiastic, such as arehbishops, bishops abbots, \&c. that immediately hold of the empire. Those who compose this college, have the right of sitting in the diets or general assemblies with a deliberative and decisive voice, and contribute to the necessities of the empire according to the tax cstablished by the matricular book or register of the states. The archbishop of Saltzburg and the arehduke of Austria are alternately directors of the college of the prinees of the empire ; and this alternative is not regulated by the different sittings, but by the different subjects that are proposed and discussed. Besides these princes, there is a number of counts in the empire who hold of the empire aione, and are divided into four classes; namely, those of Wetteraw, Sanbia, Francopia, and Westplatla, together with a great namber of free nobleise, distinguished by that of Franconia; Suabia, and the Rhine. The princes of both orders hold immediately of the emperor and the empire, and generally receive their investiture by the sword, from the hand of the sovereign seated on his throne ; though tho counts und barons of the chamber of Spire are invested with the standard or ensign representing the arms of their respective countries. They liave power to appoint judges for the administration of justice; which some of them exercise us soverelgns, while others are limited to certain sums, above which, all causes depending mitt be decided by appeal to the chamber of Spire. They are allowed to establish new laws, create magistrates, graut letters of grace, respite, safe-conduct, majority, and legitimation. They have the right to succeed to bastards, to raise and quarter soldiers, erect iniversities, coin money, make arms, and cast artillery ; to increase the number of their fortresses, and secure them with garrisons ; make alliances among themselves, as well as with strangers, for their common defoneo; and, in a word, to reign in their own territories, as the emperor reigns in the empire.

The third college is that of the imperial towns, which, like the other two, assegnbles apart in order to defithorate apon the proposals that are made ior the occasions of ie ie empire : and the cities, which comptso it, are called imperial, becauso they hold immediately of the cmperor and empire. They, as well as the other collegesy have a right to sit in the diets with a deliberative and decisive voice. They regulate the formin
of yoverument in their own jurisdiction, ereating magistrates and officers of juatice, and enacting laws, regulations, and statutes, by their owt, proper authority. They have a night to coin money, to fortify their towns, to levy soldiers, and to exercise every act of sovereignty, which is exercised by the princes of the empire in their different principalities. Formeriy the number of the imperial towns amounted to 81 or 85 ; but is at present reduced to 38 , separated into two branches in the as emblies ; namely, that of the Rhime, and that of Suabia. The first coniprelends the cities of Cologue, Aix1.inchapelle, Lubeck, Worms, Spire, Prankfort upon the Maine, Wézlar, Gellen-
 eitier clities, are comprehended in that of Suabia.
The appellation of Hans, or Ause, which, in all probtability, comes from the German word Anzee, signifying near the sea, is given to a confederacy of towns, that ens gaged in an alliance for the mutwal support and improrement of cormmerce. Aliout the year 1104, the city of Bremen formed the first schicme of this society, with several ohor sea-port cowns in Lavonia ; though the number that first entered into the association is uncertain. Be that as it will, it afterwards increased to such a point of importance as to comprehend 80 principal trading towns; among which wero many forciga pheces, that desired admission into the confederacy: accordingly wed sed in the old list of Antserp, Dort, Amsterdam, Roterdam, Bruges, Ostend, Dunkirk, Calais, Rouen, S. Maloe, Bourdeaux, Bayonne, Marseilles, Bareelona, Seville, Cadiz, Liston, Leghorn, Messina, Naples, and London.
In the flourishing times of the societs, they chose four touns, where they estiblistied froe staples, or general factories, for the convenience of their shipping and the sale of their morchandize, for the trade was chiefly carried on by barter and exchange. Theso were-London in Loglhand; Bergues in Norway; Novogored in Rustia; and Bruges in Flanders. This Anseatic nlliance, whife at first had no other uim than the security of commerce against pirates, and the mutual advantage of extending it aniong the towns concerned by peaceable and friendly commanication, became strong enough to maintain an offensive war against Waldemar III. king of Denmark; whom they obliged to sue for pesee, and eede to thent, for a term of years, the isle of Schotee, in order to indemnify them for the expence of their equipment. They afferwards fitted out a powerfubtleet agninst Erio X. and gave him great disturbance. In 1615 , they obliged the duke of Brunswick to raise the siege of that town, which he had invested, and next ycar entered into a general allisuce with the states of the United Provinces. In tho samo manger they offen engaged in treaties with other princes and states, and particularly with difilerent kings of France, who granted them saveral advantageous priviley in trade.
the kings of France, Span, Ituly, and Denmark, had forbid their townis to - ${ }^{2}$ inne members of "this society, the Teutonic Hans restrieted their alliance to Ger(miny, of, at least, to the tomns dependiag upont the cmpire, and distributat them under four metropolitans; mamely, Lubeck, Cologne, Brunswick, and Dintric, Thie firet comprehended the towns of llamburgh, Rostock, Wismas, Stralsund, Lueco-
burg, Stetin, Anclaim, Golnas, Gnepswald, Colherg, Stargard, Sotlpen, and Rugensbald. Under that of Cologne, were Wesel. Emmeric, Drusburg, Oamaburg, Dortment, Soest, Herworden, Paderborn, Northansen, Nimeguim, Zutplem, Ruremonde, and several others of Westphalia and the Low Countries. The metropolitan of Brunswick included Bromen, Magdeburgh, Hildesheim, Goslar, Mindan, Erimbeck, and others: and in the division of Dantzie were all the Hans towns situated upon the Baltic, from the Yistula, as far as Rassia, comprehending Colin, Thorn, Elomg, Konigsberg, Riga, \&c.

Lubeck is the cluief of all the Hans Towns, from a pre eminence which it enjoys, yot only on account of its central situation, but also of its privileges and power. It convokes the general assembly, is the depository of the moncy contributed to defray the common expence; preserves all the titles, acts, and archives of the allance; uses its own seal to the letters sent in the name of the community to foreign princes and states, as well as to all their resolutions and treaties: from its citizens are generally chosen the atibassadors and deputies appointed-by the socicty, and here the syndic of tho alliances commonly resides.
In their assembly the deputy of Lubeck, as president, sits by himself, the rest being seated on two benches to the right and left, and votes before all others: their affairs are determined by a majority; nevertheless, wien there is a great opposition, the question is generally thrown out : thein-ordinary assemblies are held cvery three years, about Whisuntide, and the extraordinary as often as the emergevey of affairs requires.

The imperial diets are composed of these three colleges which comprehend all the estates and immediate members of the empire. Thie diet is convoked by the eaperor after he has agreed with the electors upon tho necessity of assembling it, and the placo proper for the session. In this assembly, the emperor is seated upon a tionone, the electors of Meatz, Bavaria, and Brandenburgh, being on his right land, those of Cologoe, Saxony, and Palatine, upon his left, and the clector of Tricrs opposite to his person. The ecelesiastic princes are seated on benches to the right, the secalar princes sit upon the left, and the deputies of the imperial towns occupy others that eross from the right to the left. The emperer's proposal being mado in the general assembly, the theee colleges deliberate apart upon the subject; then, assembling together in one place, communieate their sentiments, and concur in a resolution, which is sent to the emperor with whose approhation it passes into a law, and is received as an iaperial constitution. There are two methods of administering justice ir the empire, one is exercised in general and the ather in particular tribunals. All the pripces, states, and juembers of the empire, have a right to administer justice in their own fiefs; except in particular cases, where an appeal lies to the imperial chamber of Spire, or the Aulic compcil. In the particular jurisdications, they follow the laws of the empire; which are the hatient constitutions, the golden ball, the pacifiction of Pessav, the treaties of Westphaci the Saxou law establistred by Charlewigne, and the Koman law estubtished thy the em- 14 peror Jasumian, which is olserved, in all places, shere the other is not received. The general tribunals are those of the imperial chamber of Spire and the Aulic counel of the
emperor, which exercise an universal and soverecign jurisdiction over all the subjects of the empire. The first was lieretofore ambulatory, and estaidjisted at Aassurgh by Frederic IV. It was afterwards beld successively ut Frankfort, Worms, Nureaberg, Ratisbon, and Eislengen, till Charles'V. fixed it at Spire. In consequence of the treaties of Westphalia, it ought to be composed of a Catholic judge, and four presidents, mumed by the emperor, two of each religiov, and 50 comaselions, 26 of which are catholice, and the rest protestants. The judge inust be a prince, count, or baron; two of the presidents being of the sword, and two of the gown. The counsellors are named and presented in this manner; two catholics by the emperor, as many hy each of the four catholic electort; timo protestants hy each of the three protestant electors and the rest by each of the circles of the empire. This is the regulation according to the treaties of Westphalia; but the imperial ehamber is ut present reduced to a unuch smatler number of officers, beiug composed of the elector of Triors, who is judge as bishop of Spire, of one catholic and one protestant president, and eigbt catiolic and seven protestant counscliors.

The Aulic council is composed of one catholic president, one vice-chancellor, preseated by the clector of Ments, and nine counsellors of each religion ; who with the president, are nominated by the emperor. They are divided into two benches; one of which is occupied by the nobles, and the other by the lawyers. They hold their assemblies acar the person of the emperor, whence it is called Aulic, or the council of the imperiat court.

Although the sentences of these counciih are final, there are, nevertheless, some casea in which the parties may appeal to the emperor, and demand a revision of the process; particularly in those cases which regard duchies, principalities, counties, and other immettiate fiefs of the emipire. In both these tribumals, the emperor presides as sovereign judge, and when he is present, pronounces sentence, but in his absence, he who: represents his person as judge, las it right to wear an imperial sceptre as a badge of his dignity.

In Germany are tro sorts of nobility : onc free and immediate, holding only of the emperor and empire ; the other mediate, which, though owning the emperor as chief of the empire, is likevise subjected to the jurisdietion of another prince. This last, though not in possession of such liberties as those that are pecutiar to the first, is, nevertheless, very considerable in Geruany: for there is a great number of those gentlemen of the second rank, whose fanilies pretend to be ns antient and tilustrious as those of the immediate rgbles, and who, in marrying, prefir the pooreat gentlewoinan to the richest plebeian As for the gentemen of the finst rank, many of thein are descended from those horoes who accompanied Charlemagne and his successors in all the victories they -0) ained over the Sapxons and other nations which they suljected to their empire. Many others coming from the neighbouring states to settle in Germany, were afterwards united with this body of notility, because they were of noble extraction ;-while others agaio, whose fathers had merited that rank by their personil virtue and exploits, were: in the sequel immatriculated among the antient nobility by patuits obtained from the Yo 1.
emperor; but these cannot be admitred into the chapters, from which are chosen the archbishops, electors of MAntz, Triers, and Cologne, together with the other bishops and prelates who are princes of Germany : becauso before a person can lo received into this chapter, he must prove his pobility in 32 -desconts, both by father and mother.

The immediate nobility possess fiefs, which they hold only of tho emperor and empire, and are intailed on beirs male; because, by an express clause in their charter, they aro obliged to serve the emperor in person, opon all occasions, with a certain number of servanta, according to the atrength and revenve of the fief. Almost all thefs fiefs are situated in Sunbia, Franconia, and all along the Phine, comprebeading Lower Alsace: a disposition made on purpose, that the nobility, being less dispersed, might be the more ready on all emergencies, and more conveniently defend the frontiers on that side against foreigo invasion.

The experor has bestowed upon the immediate nobility the same privileges enjoyed by the other immediate states of the empire, with power to raise taxes through the whole extent of their respective fiefs, and to exerciee a civil and criminal jaridiction; the last of which is without appeal ; lut from the civil, there lies an appeal to the Aulic council, or imperial chambor of Spire.

Heretofore this nobility was admitted to the imperial diets, where they even pretended to take the rank of the cities ; but on account of the extraordinary expences incurred by their sitting, the calling of them was gradually neglected, though they are left at liberty to assess themselves in contribating to the publie necesities of the empire.

This nobility forms a kial of aristocratical republic; for though thoy are divided into three classes, they never fall, ou important occasions, to join their counsels and strength for the preservation of the whole. They bave divided the circle of Susbia into five departments called quarters; that of Franconia into six; and that of the Rhine into four. All these quarters have their chiefs, which, il Suabia and Lower Alsaca, are called directors; but in Franconia and the Upper and Lower Rhine they are chosen sometimes from one family, and sometimes from another. A chief can regalate nothing without the advice of two or three other gentemen who are nominated as his coadjutors, and a lawyer is to be consulted in such affairs as depend upon the interpretation of the law. With these counsollors, the director or captain examines the differences that are brought before them, and exerts himself for the preservation of the privileges of the whole body. If it is necessary to repress the injustice or violence of any noblemun, the director or captain convenes the whole circle, or even all the three circles, to supportand give sanction to his determination; and as to public affairs, the quarters usually assemble once a-year.

## A GENERAI, VIEW $\quad$

## SUBDIVISIONS OF GERMMANY.

## 1. Upper Saxony Circle,

Divisions.
Subdivisions.
Chicf Towns. Sq. M.

| Prus. Pomerania, N. E. | Stettin, E. 1. 14.  <br> 50. N. Jat. $53-50$ 4850 <br> Stralsund.  | 8991 |
| :--- | :--- | :--- | :--- |

Brandenburgh in the middle, Altmark; W, sub, to its ows elector, the Middlemark, Dg of Prussia. Newmark, E.

# Saxony proper, in the south, Duchy of Saxony, N. subject to its elcctor. <br> Lusatia, marq. E. <br> Misnia, marq. S . 

$\left\lvert\,$| Stendel |
| :--- | :--- |
| Berlin, Postdam |
| Frankf. Custrin. |$\quad 10910\right.$

$$
\begin{array}{|l|l}
\text { Wirtenberg } & \\
\text { Bantzen, Gorlitz } & \\
\text { Dres. E. lon, 15-80 } & 7500 \\
\text { N. lat. 51. } & \\
\text { Meissen } &
\end{array}
$$

Thuringio, langr. W.
Saxe Meinungen Saxe Zeitz Saxe Alteab. S. E. Saxe Weimar, W. Saxe Gotha, W. Saxe Elin. S. W. Saxe Suatfotat8620E Meinungen2. Zeitz2 Altenburg240
The duchies of
Schwarts. W.

Sabject to|Schwartsburg ..... 96
The counties of

The counties of

Belchim. N.
Mansfel. N.
their reapec- Belchingen
five counts. Mansfelds
$\left|\begin{array}{c|l|l}\text { Hall, mid, sub, to Pruesia } \\ \text { Saxe Naumburg, subject to } \\ \text { its owa dake. }\end{array}\right| \begin{aligned} & \text { Hall } \\ & \text { Naumburg }\end{aligned}$ Stolberg N. W.
Hohenstein, W.

Stolberg
Northhausen

Divisions.
Principality of
Bishopric of

Duchy of

Subdivisions.
-

- |Anhalt, N.

ChiefTowns. Sq. M,
Dessau, Zerbst
Bernberg Kothen
960
Hall
TSaxe Hall, W.
Voigtand, south, subject to $\mid$ Plawen
the elector of Saxony.
$\left|\begin{array}{c}\text { Mersburg, middle, subject to } \\ \text { the elector of Saxony, }\end{array}\right|$ Mersburg

## II. Lower Sarony Circle.



Lavenburg Dachy, North of the Elbe, subject to Hanover Lanenburg 450
Subject to the duke of Brunswick Wolfenbutle

Subject to the elector of Hanover, king of Gireat Britain.
D. Brunswick
Proper
D. Wolfenbuttle
C. Rheinstein, S.
C. Blanckenburg
ID. Calenberg
D. Grubenhagen
Gottingen


| $\|$Hanover <br> Grubenhagen <br> Gottiogen |
| :--- |

Luneburg, D. sub. to Hano.
D. of Luneburg D. Zell Laneburg Zell, E. lon. 10. N. lat: 52.52 .

$\left|\begin{array}{l}\text { D. Schwerin, N. subject to, Schwerin, E. Ion. } \\ \text { its duke. }\end{array}\right|$

## GERMANY.

Divisions.

Subdivisions.
Chief Towns.
Sq. M.
Mecklenburg D. continued |D. Gustrow, N. subject to its duke

## Hildersheim bishopric, in the middle, subject to its bishop

Magdeburg duchy, S. E. subject to the king of Prussia

- Halberstadt duchy, subject to Prussia, S. E.

Hildersheim, an
Tamperial city 1502
Magdeburg ${ }^{\text { }}$ ..... 1536
Halberstadt ..... 450
III, Westphalia Circle.

| Embden, C. or Fast Fries. |
| :--- | :--- | :--- | :--- | \left\lvert\, | Embden, an Tm- |
| :--- |
| perial city |$\quad 780\right.$


Cloves D. sub, to the king
of Prussia

$\mid$ Berg. D. sab. to the elector
Juliers D. Palatine
Mark C. sub, to Prussia Liege B. sub. to its own bp.Benth. C. sub. to HanoverSteinfort C. sub, to its own
count


Divisions.
Counties of continued

Chief Towns Sq. M.

## Wied <br> Witgenstein <br> Hatefield <br> Westerburg

- Fulda

Hisschfeld

## V. Lower Rhine Circle.

Palatinate of the Rhime, on both sides that river, sub, to the elector Palatine.

Heidelberg on the Neckar, E. 1. 8-40. N. 1. 49-20. Phillips burg, Manheim, and Frankendal on the Rhine.


Duchy of Simmeren, subject to its own duke

Simmeren.


## VI. Franconia Circle.

$$
\begin{aligned}
& \text { Wurtsburg, N. } \\
& \text { Bamberg, N. } \\
& \text { Aichstat, S. }
\end{aligned}
$$

- 036
Divisions.


## NORTHERN EUROPE.

| Cullenback, northeast. <br> Anspach, south | Subject their respective imargraves | Cullenback Anspach - |
| :---: | :---: | :---: |

Principality of Henseberg, -N .
Duchy of Cobarg, N. subject to its duke
Duchy of Hilburghausen, subject to its duke Burgravate of Nuremberg, S. E. an
independent state

Territory of the great-mister of the Teutonic order, Mergentheim, S. W.

Henneberg
Coburg
406
Hilburghausen
$\left|\begin{array}{l}\text { Nuremberg, ath } \\ \text { Imperial city }\end{array}\right| 640$
Mergentheim
56

| Rheineck |  |
| :--- | :--- |
| Baroith |  |
| Papeuhoim |  |
| Wertheim |  |
| Cassel |  |
| Schwartzburg | 96 |
| middle | 290 |
| Holach |  |

Rheineck, W.
Bareith. E. sub, to it own mar,
Papenheia, S. subject to its
own count
Wertheim, W.
Cassel, middle
Schwartzourg, subject to its
own count
Holach, S. W.

## VII. Austria Circle.

The whole circle belongs to the emperor, as head of the House of Austria.
Archduchy of Anstria proper


Duchy of Bavaria Proper ISubject to the elector |Munich, E. I. 11-se. N.|

Divisions.

Palatine as successor to the late elector of Bavaria

Fressingen, subject to its bishop
Bishopric of Passau, subject to its own bishop
Duchy of Neuberg, sub. to the elector Palatine
Archbishop of Saltzburg, sub. to its own archbishop

Chief Towns.
Sq. M.
lat. 485. Landschut, Ingold-| stadt, N. W. Donawert (Ratic, N. an Imperial city.) Am- $8500^{\circ}$ berg (Sultzbach), N. of the Danube

$$
\text { - Fressingen } 240
$$

Passau, E. of the Danube ..... 240
Neuberg, W. of the Danube ..... 450

## IX. Suabia Circle.

Duchy of Wurtemburg, sub, to the Stutgard, E. Ion. 9. N, lat. $48-\left\lvert\, \begin{aligned} & \text { On or near the } \\ & \text { duke of Wurtemburg Stutgard }\end{aligned} \frac{40 \text {. Tubingen, Hailbron }}{\text { Neckar }}\right.$

| Marquisate of | $\begin{array}{l}\text { Baden, Baden, } \\ \text { Baden, Durlach }\end{array}$ | $\begin{array}{c}\text { abject to their } \\ \text { own respective } \\ \text { margraves }\end{array}$ | $\begin{array}{l}\text { Baden } \\ \text { Baden } \\ \text { Durlach }\end{array}$ | On or near | ass |
| :---: | :---: | :---: | :---: | :---: | :---: |
| the Rhine |  |  |  |  |  |$| \begin{array}{ll}490\end{array}$


| $\begin{array}{c}\text { Bishopric of Augsburg subject to its own } \\ \text { bishop }\end{array}$ | $\begin{array}{c}\text { Augsburg an Imperial city, Hochstet, } \\ \text { Blenheim, on or near the Danube }\end{array}$ | 763 |
| :---: | :---: | :---: |

Territory of Ulm, a sovereign state Ulm on the Danube, an Imperial city l 280
Bishopric of Constance, subject to its own bishop, $\begin{gathered}\text { Constance on the Lake } \\ \text { of Constance }\end{gathered}$
under the House of Austria

| Principalities of | Mindelheim <br> Furstenberg | Subject to their <br> respective | Mindelh. S. of Rugs. <br> Furstenberg, S. <br> Hohenzollern |
| :--- | :--- | :--- | :--- |
| Princes | 788 |  |  |
| Hohenzollern, S. | 150 |  |  |



Baronies of . $\left.$\begin{tabular}{l}
Waldburg <br>
Limpurg

$\quad$

Waldburg, S. E. <br>
Limparg N.

 \right\rvert\, 

190
\end{tabular}

Imperial cities, or sovereign states

- Vol. 1.

Keinpten, on the Iller
Buchan, S. of the Daube
Eindau, on the Lake of Constance, an Imp. city.
Nordlingen, N , of the Danube
Memmiogen. E.
Retweil on the N
Rotweil, on the Neckar, and many more.

Divisions.

## $\checkmark$

 Subject to the House of Austria- Black Forest, N. W. Rhinefeldt, C.
Marg, of Purgau
Territory of Prisgau on the Rhine

Chief Towns.
Sq. M.

| Rhinefeldt and Lauffionb. |
| :---: |
| Rurgau, E. |
| 850 |

Friburg and Brisac

Berlin lies on the river Spree, and, besides the royal palace, has many other superb edifiecs : it contains 14 Lutheran and 11 Calvinist charehes, besides a catholic one. Ibs streets and squares are spacious, and built in a veryregular manner; but the hoises, though neat without are ill finished, and ill furnished within, and sery indifferently provided with inhabitants. The king* palace fiore, and that of priace Heary, are very mage nificent buildings. The opera-houso is nlso a beautiful structure: and the arsenal, which is bandsomely buit, in the form of a square, contains arms for 900,000 men. There are sundry manufactures in Berlis, and several schools, libraries, and charitable foundations. Thie number of its inliabitants according to Busching, in $17 \overline{5} 5$, was 126,660 , inclading the garrison. In the, rame year, and atcording to the same author, there were no fewer than 449 silk leoms, 149 of half silks, 9858 for woollen stuffs, 453 for cotton, 248 for linen, 454 for lace-work, 39 frames for silk stockings, and 310 for worsted ones. In the year 1774, the number of inlhatitants was 104,874, of whom 5581 were French, and 1169 Boliemians, and the garrison, reckoning attendants, amonnted to 20,540 souls, which may be added to the nomber of the inhabitants. They have here manufactures of tapestry, gold and silver lace, and mirrors.

The electorate of Suxony is by mature the richest country in Germany, if not in Europe ; it contains 910 walled towns, 61 market towns, and about 9000 villages, according to the latest accounts of the Germans themselves (to which, however, we are not to give an implicit belieff; and the revenue, estimating each rix-flollar at four shilfings and six-pence, amounts to $1,350,000$. This sum is so moderate, when compared to the richness of the soff (which, if we are to believe Dr. Busching, produces even diamonds, and alinost all the precious stones to be found in the East Indies and elsewhere), and the variety of splendid manufactures, that the Saxon princes appear to have boen the most moderate and patriotic of any in Germany.

Dresden, the elector of Saxony's capital, is remarkable for its fortifications, palaces, public buildings, churches, and charitable foundations; it is beautifully situated on both sides the Elbe, and is the school of Germany for statuary, paipting, emamelling, nad carving; not to mention its mirrors, and founderies for bells and cannqn, and its foreign commerce, carried on by means of the Elbe. The inhabitants of Dresdea, by the latest accounts amourit to 110,000 .

The city of Leipsic in Upper Saxony, 46 miles distant from Dresden, is situated u a pleasant and fertile plain on the Pleisse, and the inhabitants are said to amount 10 about 40,000 . There are also large and well-built suburbs, with handsome gardens, Be-

- tween these suburbs and the town is a fine ralk of lime-trees, which was laid out in the year 1702 and encompasses the city. Mulberry-trees ure also planted in the town ditches; but the fortifications seem rather calculated for alie use of the inhabitants to walk ou than for defence. The streets are clem, commodious, and agreeable, and are lighted in the night with 700 lamps. They reckon 436 increhant houses, and 102 manufactares of different articles, as brocades, paper, cards, \&c. Leipsic has long been distinguislied for the fiberty of conscience allowed here 20 persons of different sen. timents in religion. Here is an university which is still very considerable, with six ehurches for the Lutheraus (theirs being the established religion) one for the Calvinists, and a chapel in the castle for those of the Romish church. The university library consists of about 26,000 volumes, 6000 of which are folios. Here is also a library for the magistrates, which consits of about 36,000 volumes, and near 9000 manuscripts, and contains cabinets of uras, antiques, and medals, with many curiosities of art and nature. The exchange is an elegant huilding:

Tho principality of Anhalt is not so full of towns as some parts of Germany, but they are better peopled, and the inhabitants are in such comfortable circumstances, that they are said to live in the laud flowing with milk and honey.

The duchy of Magdeburg is for the most part level, but sandy, marshy; or over-grown with woods. There are sale springs in it so rich that they are sufficient to supply all Germany with that commodity.

The city of Magdehurg, the capital of Lower Saxony, has a great trade, is well fortified, and very antient Here are a variety of manufactures; the chief of which are those of woollen cloths and staffs, silks, cottons, linens, stockings, hats, gloves, tobaeco and smuff. It was formerly one of the Hans towns. It is populous and wellbuilt, particularly the broad street and cathedral square.

The principal buildings are, the ling's palace, the Guildhall, armoury, and calliddral. The last is a suberb struetare in the antique taste, dedicated to St. Maurice, which bas a fine organ, the master pipe of whieh is so big that a man can scarce clapp it with both arms ; it also contains the tombs of the emperor Otho and the cupress Editha; a fine marble statue of St. Maurice, a porpliyry font, an aitar in the choir of one stone of divers colozrs, curiously wrought, and many other curiosities.

The duchy of Mecklenburg produces but very little wheat, and not a great deal of oats, rye, or barley; but breeds a considerable number of sheep and other cattle, has plenty of fish, and abounds with stone quarries, salf-springs, alum, iron, and lias some copper. A part of these productions are exported ; but here are no manufictures.

The bet town in this country is Rostock, which has good fortifications and an arsenal. This town is famous for good beer, which they export in largo quantities. Some years ago they had 250 privileged brewers, who each of them browed 1000 tuns in a year, * C sides what was brewed by house-keepers.

The principality of Habenstadt is fertile in corn and flax, and there aree soitic wonds, Jhough fivl in general is scarce. The, manufactures are chiefly woollen: the ex-

- 640 NORTHERN EUROPE.
ports the grain and beer. Halberstadt, its capital, is a neat uniform place; and has some good clurches and other handsome buildiogs, of which the cathedral is the chief. There is an inu at this place which is accounted the largest and best in Europe.
- The imperial city of Goslar is a large and antient town, and celebrated as being the place in which gun-powder is supposed to bave been invented by a monk. It is seated on a mountrin, and near it are rich mines of iroin. The inbatitants are noted for making exceilent heter. About is niles from Gioslar is a cave called Baumen. The entrance of it is through o rock; and so narrow, that not above one person can pass at a time. There are several paths in it, and some think it reaches as far as Goslar; but be this as it may, the skeletons of men have been found in it who are supposed to have beea lost in its turmingsand windingts

Brunswick is the residence of the duke of Prunswick.
Woffontuttle is composed of five towns; and altogether is a large place; but the houses are althost all built of wood. It is of a square form and strongly fortified.. Oa its rampart is a mortar picce of brass, ten feet sis inches in length, and nine feet two inches in circumference, weighing 1800 quintuls, and having 93 quintals of iron in its

- cartitge. It will carry a ball of 730 pounds weight to the distance 93,000 paces, and throw a bomb of 1000 pound weight ; but requires 69 pounds of gun-powder for its elinge. The academy of Brunswick is said to be the best seminary on the continent for military edocation.

Wolfembuttle is one of the strongest places in Germany. It bas al fibrary of 116,000 printed books and 2000 uncommon books, with a cabinet of curiosities relative to natural history.

Hanover contains many oftensive heaths and marshes; bat notwithstanding produces abundance of corn, fruits, hemp, flax, tobacco, madder, and some wine. There are several large salt-works. A good many catle are reared, and a great number of excellent horses. Most metals and minerals are found here: The forests furbish sufficient timber, and large quantities of pitch and tar. Literature is in a very advanced state throughout these dominiohs. The university of Gottiingen is deservedly celcbrated, and contains ebout into students of difícent mations, and 60 professors.
The city of Hanover is a large well-built town; and tolérably well fortified. Luneburg has a considerable traffic in wax, honey, wool, flax, linen, salt, lime, and beer. Bremen drives a very large trade for iron, flax, hemp, and linen, with Franee, Eng. land, Spain, and Portugal ; and in return takes hack other provisions, with wbich it supplies Westphalin and the countries about Hanover. It also gets a great deal by its fistheries, the trade for blabber with the south of Germauy is very considerable. A great part of Holstein consits of rich marsh-land, which being wuch exposed to iAyndations both from the sea and rivers, dikes have been raised at a great expence to defend them The pastures in the marshes are so rich, that catile are lyed in vant umbers. and fattened in them ; and great quantities of excelleat butter and cheeso made of their inilk. Thicy'are also very fruitinl in wheat, barley, pease, beans, and rape-seed. In the more barren, sandy, and heathy parts of the conntry, large flocks of sheep are.

## GERMANY.

fedf nor are orchards wanted, of woods, eqpecially of onk agol beceh; nor turf, poultry; gume, and wild foul. Here is a variety of sea and river fish; and the beef, veal, mutton, and lamb, are very fat and palatable, Holstein is also noted for beautiful burere

Labecstands at the conilux of several rivers, the largest of which is the Trane, 18 milles from the Baluc, where it has a fine harbour, and 40 north-east of Hambarg. By the Steckeults, anothor of those rivers, it has a commumication with the ETbe, and-comequenty with the German Occan. The cify fies on tho side of a hill, with the Trane increated by the Steckenitz on the oneside, and the Wackenits on tho other ; and is strongly fortified with hastions, moats, walls, and ramperts; the last of which are ptanted with trees and formair agrecebtowalk Labee being formerly the chief of thic Hans towns, was very powerfal in consequeace of the vast trade it carried on; but a great part of that trado is now transferred to Hamburg : however, it is still said to employ 130 of its own ships, and has a great share in the Battie trade. It is about twis inice fin ferghin mint more than ano in treidith. Tho liouses are all of stone, but ofd fashifaned. Soveral of the streets have on each side rows of fime trees, with canals in the middle, like tiose of Holland. The public structures consist of the antient cathedral of the bishopric of Lafiec, ant soveral Latheran churches : a munnery for 99
 rection ; an orphan house; an hospital dedicuted to the Holy Ghost; a house in which poor travellers are entertained threo days, and then sent forward with a pass; but such as happen to be sick are provided with all necessaries till they recover or die;


Hamburg an imperial city of Germany, seated in E. Long. 9 40 N, Lat 35. Its name is derived from the old German word Hamme, siguifying a wood, and Dlarg, a cabtle, and stands on the north side of the river Elbe. This river is not lest than fön mites Uroat opposito the city. It forms two spacious harbours, and likewiso rums through most part of it in canals. It flows nbrave Hamburg many mites; but whon the tide is accompanied with north-weet winds, "t great deat of damage is done by the inundatoin occasponed thereby, Ticre aro a great many bridges over the canals, which mace mostly on a level with the streets, and some of them huve houses on buth fides In the jear asi3, Eudovicus Pius erected Hiamburg first into a bishopric, and afterwards into in arctitishopiric ; and Adolphus IIL. dake of Saxony, among many other privileges, granted it the right of fishing in the Elibe, eight milea above and below the cily. The Kings of Denmark, since thicy hive succeeded to the counts of Holstein, have contumaily olimed the sovereignty of this phace, and often compelted the cirizens to pay targu sisms to purchae the contirmation of their liberties; nay, it has more than once Did homago to the king of Denmark; who, notwithstunding, keeps a minister here t. Thangh Hambing has been comandly summoned to the diet of the empire cver since the Sear 1618 , when it was declared a free imperial city by a decree of the aulie council: yet it waves this provilege, in order to keep fair witir Dermark. By thicir

Vos. 1
sitmation among a number of poor princes, the Hamburghers are continually exposed to their ripaciousuess, especially that of the Danes, wio bave oxtorted cast sums from them. The city is very populous in proportion to its bulk; for though one may walk with case round the ramparts in two hours, yet it contains, exclasive of Jews, at least 100,000 irhabitants. Hero are a great many charituble foundations, the regulations of which are greatly atmired by foreiguers. All persons found begging in the streets are commited to the house of correction to hard labour, such as the rasping of Brazil and other kinds of woot, There is an hospital, iato which monarcied women uay be admitted for a smail sum, and comfortably maintanaed during, the restdue of their lives. The number of hospitaly in this place is greater in pruportion to its biguess than in any other Protertant city in Earope. The revenue of the orphatn house nlone is said to amount to between 50 and $60,000 \%$. There is a large sumptupus hospital for recuik ing poor fravellers that fall sick. In one of their mork-houses or hogses of correction, thase who have not performed their task are hointed up in a basket over the tuille in the common hill while the rest are at dinner, that they may lie tantalized with the sight and smell of what they caunot chaste.

The cstablisbed religion of Hamburg is 1atheranim; as Tor the Catvinists and the Roman cathelics, they go to the umbassadors chapels to colebrate their divine service and worship. They have here what hey call a private cobfessiang previous to the tioly: commumbin, which difters in nothing from that of the church of Fagland ; and the absolution is the same, only the poorest of the people here aro forced to give a fee to the priens on those occasions, Their churches, which aro antient large fabuic, are open thoroughfores, and in some of them are booksellere shops. The pulpit of St. Cathan rine's is of marble, curionsly carved and adorned with figures and othor ornamonts of gold ; uni its organ, reckohed one of the beat in Earope, has 6000 pipes, The cathedral is very antient, and its tower leans is if just going to fall; yet on account of the singufarity init bemty of its archfectare, the danger attending it has boen ovetfooket. There is still a dean and chiipter belonging to this church, though socularizeil ; from whose court there lies no appeul but to ibe imperial chamber at Wetzar. The chapten consias of a provost, dean, lit canons, eight minor canons, and 30 free vicare, besides athers who are under the jurisdiction of the city. The cathedral with the chapter, and A number of houses belonging to them, are under the immediate protection of his Britanuic Majesty as duke of Bremen, who disposes of the prebends that fill in six months in the year, not sticcescively, but alternately with the chapter.

Hamburg is amost of a circulir form, and six miles in cotmpas. It lias sin gates and llirec eafrances by water: viz two from the Plbe and one frour fle Atster, fing dividEd into tho old and new, which are strongly fortified with moats, ramparts, lanstions, apid outworks. The ramparts are very lofly abd planted with, trees; and of sucho brendth, that several carriagen may go - $\mu$-bireast. In the New town, fowards Altentry ureseveral \&irects if mean houses ithabited by Jews. Through the entrances froun the Ribe, ealled the lower Baum, pios all ships going to or coming from oca. Nivery unorgings at the opening of it is seen a multitude of boats and small barks, whyse curgoes
consist of milk, fruits, and all kinds of provisions, rashing in at the same time. There are some fint chimes liere especially thase of St. Nicholast, which play every moraing, early, at one o'elock in the afternoon, and on all festivals and solemuities.

The other public structures in this city, besides the churches, make no great appearance; homever, the yard, arsenal, and two armouries, are well worth seeing. There areaveral convents of cloisters still rematining; which haping been secularized, ure aow possersed by the Lutherims. One of thom holds its trads by the tgaure. " Thit they ollar a ghas of wine to every matefactor wha is carried by it for execution."

Therel is if fine exchange, though inferior to that of London. It is the custom of Hamburg that a citizen when he dies, must leave the tenth of his estate to the city; and foreignors not ntaturatized, must pay a certain sum annually for liberty to trade. The common carts here are only a longpulley laid upon an axle-tree between two wheels, and dfarm not by horses, but by men, of whom a dozen or more are somatimes linked to thene machines, with slings across their shoulders.

Snch of the seustors, principat elders, divines, regular physicinus, und gradaates fintiv, ins hssit ift fumerils, hive it tee. Thic humgman's house is the commion prison for all minlefactors ; on whom sentence is alsays passed on Friday, and on Monday they are executed. As, by thoin laws, bo criminal is punishable unless tie pleads guilts, they have tive ditferent kinis of tarture to extort suef contession.
4. The governmont of this city is forgad in the senate and three colleges of burghers. The formen in vested with-almost every act of soveteignty, execpt that of laying tases and managing the finainces, which tire the prerogatives of the latter. The magistracy is composed of four burgomasters, four syodtes and 24 atdermen, of whom some are lawyers and some merchants. Any person elected into the magistracy, and dectining the office, mast depart the place. Na burgher is admitted into any of the colleges, untess he dwells in whouse of his own within the city, and is possessed of 1000 rix-dollars in specie, over and above the sum for which the house may be mortgnged; on 2000 in movcatite goork, withit the juridiction of the same. For tie administration of justice, there aresevenal inferior courts, frou which an yppeal lies to the Obergericht, or high conrt, und from that to the aulic council and other imperisl colleges. For naval causes here is a court of admiralty, which, jointly with the city-treasury, is atso charged with the care of the navigation of the 1 Eiba from the city to the river's mouth. In consefuence of this, loo lagge buoys, some white, others black, are kept constantly floating in the river in summe: : bet in winter, intend of some of them, thero are machines, tike thase caithed ite-fongons, to point out the shoals and flats. Subordinate to tiê atifriralty i $\rho$ company of pilots; and at the mouth of the Elbo is, or at least ought to be, in yessel always riding, with pitots roady to be put on board the ships. At the mouth of the rivor afo is a good harbour, called Cuxhaven, bolonging to Hamburg ; --- - ilight-home; and scverat beneons, some of them very lirge. For deiraying the expenee of these, ecrtain tolls and duties were formerly gatated by the emperofs to the city. Me.illes the Elbe, there is a canal by which a communication is opened with the:

Trave, and thercly with Jutieck and the Baltic, without the hazurd, trouble, and cxpence, of going about by \&ie Sound.

The trade of Mambarg is exceeding great, in exporting all the commodities and manufactares of thin several ciries and staten of (iermang, and supplying them with whatever they wat from abroad Its exports consist of livens of several sorts-and countries; as lawns, diapers, Osmaburge dowlan, \&e: lineil-yani, fimplates, iron, brass, und stecl-wire, clap-boards, pipe-staves wainscot-boards, oak-phank, and time ber; kid-skits, eorn, bees in great quantities, with fias, liorey, wax, aniseed, linseed, drugs, wing, tolaceo, and metals. Its principai imports are the woollen manufacturea and other goods of Great Britain, to the amount of soveral himdred thomand pounds a yeur; they have also a great trade with Spain, Portugal, and Italy, which is carried on mostly iu English bottons, on aceount of their Mediterrancan parsesfin

Their whale-fishery is also very considerable, 30 or 60 ships boing generally sent oat every year in this trade. Add to these acvariety of mannfactares which are performed here with great suceess; the chief of which are, sagor-buking, cadieo-printing ther weaving of damaske, brocates, velves, and olher rich ithe. Thie inland trate, of Hamburg is superior 10 that of auy in Europe, untess pertiaps we should excopt that of Amsterdam and Loodon. There is a paper published liere ntstated times calted the 1reis-courant, speeifying the course of exchange, with the price which orery commontity and merchundise bore last upon the exchange. There is if 50 of bontd of tride, erected on purpose for the advancing every project for the improvencnt of commorce, Another great advantage to the merchants is the hank established in 1619; which bas a flourisho ing credit.

To supply the proor wiht corn at a low price, here are pulile granarics, in which great quantitios of grain are laid up.

By chartery from several emperors, the thamborgtiers have a right of eoinugo, whicto they actually exercise. The Englith merchunts, or Hamburg company as it is called, enjoy grat priviteges ; for they bold a court with particilar potvers, and a jursthetion among themselves, and have a churels and minister of their own. This city has a distriet belonging to it of eonsiderabte exteut, uhich abounds with excellent pastures, intormixed with soverat largo sitheges and noblomea'h scats. A saull beitivic, called Bergedorf, belongs to this city and Lubec.

There is a sechola illustris or gymanaium here, well cudowed with six ablo professors, who read lectares in it as at the aniversities Thereare also several free-schools, and a great number of titrañes, poblic and private

The publie celfar of this town has atways a prodigigus stock aud vent of \old hock, which brings in a considerable revenue to the state Besides the militia or trained bands, there is an estoblishment of regular forces, consiating of .12 compmies of infantry, and one troop of dragoons, undee the commandant, who is usually a forcigner, - and one iwhó has distinguished limselt in the service. There is also an aralfery company, and a niglit guard; the last of which is posted at night all over the cityg and culls the hours:

The circle of Westphalia is generally marshy and batren ; yet there is some good corn and pasture land : but the fruit is chielly used to feed hogs, and hence it is that - their bacon and hams are so much admired.

Munster, the capital of Westphalia, stand at the conflux of the river Aa with the Ems. It is of a circular form, large, and well fortified beth by nature and art. It has a fine citadel erected by a bishop named Bernard van Galen, in order to awe the burghers. In this city are a great number of convents and other religious houtes, many of them stately piles and surrounded with excellent gardens.

Paderhorn was formerly an imperial city, and an Hans town, and possessed a considerable trade; but is now greatly declised, and the inhabitants live chiofly by agriculture and feeding cattle.

Osnaburg or Osmabrack, was formerly an imperial city, and one of the Hans towns ; but is now subject to the bishop, though it still enjoys many privileges, and a revenue of about 8000 or 9000 rix-dollars. It has its name from a bridge over the river Hase, or Ose, which divides it into the Old and New Town, and stands 75 miles west of Hanover, and 30 north cast of Munster, being surrounded with walls and ditches, but commanded by a monatain within cannon shot. It stands in a fine plais, and is adorned with several good tuildings, and on the mountain there is an abliey. The magistracy of this city, whifl is rechosen yearly on the end of Junuary, is Lutheran; and the churches belong, some to the Lutherans, and sowie to the Papists. Both parties bave the foll and free exerciso of their religion, whellier the bisliop be protestant or papist. The bishop's palace, called Petersburg, was built by bishop Ernest Augustus, brother to king George 1. It is well fortified, wat separated from the town by a bridge. It is a hexagon, with a court in the middle, and at each coraer a turret. In the townhouse are till preserved the pictures of the plenipotentiaries thut assisted at the conferences there for the famous tresty of Westphalia. In the treasury of the cathedral are still to be seen some ortaiments given by Charlemagne, as also his crowo, which is ouly of silver gits, and his comb and batoon, six feet in length both of ivory; together with other curiositios Charlemagne is said to have erected here a school for latin and greet, which the Jesuits in 1625 converted into an meademy. They have the best bread anit beer that is to be met with in uth Westphatio, and bise a pretty good trade in bacon and linea; as alow by brewing a patatable thick sort of beer calleg buse. Thiseity is noted for a treaty betwixt the emperor and the king of Sweden in 1618 , wherein the affiirs of the protestants were regulated, wlich was a branch of the rreaty of Westphatia. The town, whit the rest of the principality, is subject to its bishop, who is count of the emplec, aind by the treaty of Westphalia, unast be alternately a protestant and papist/ The popisid bistop is solfragan to the archbishop of Cologne ; but the protestant bishop is indeed a temporal prince and always of the house of Brunswick in consitleration of the prinopality of Haberstat, which was taken from this house, and conFerred opion the elector of Brandenburg. Frederick duke of York, second sop of his majesty George III. is the present bishop. The cuthedral is in the hands of the roman eatholies, with the church and monastery of the Dominicans in the old city, and the Vot 3.

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collegiate church of St . John in the new. The protestants, mare mastors of the great parochial church of St . Mary in the old city ; and both religions have a voice in thid election of imagistrates. ©f 25 canons belonging to the rithedral, 18 aro Itoman eatho-
lics, and the revenues of four more are enjoyed by the Jescits for the support of their eollege; so that there are but three protestant canons, who have no voice in the clection of the Roman catholic bishop, when it is his furu to succeed. The bishop's palace is fortified like a castle: here it was that Gieorge 1. was born on the 28th of May, 1060, his father Ernest. Augustus being then bishop nind pripec of the place; and liere abso he died in the might of the 10th of June, 1797 ; and, as some say, in the very room in which he was born. The bishopric is situated in the centre of the circle; the north part of it is very marshy, but at the southern extremity of it are some mountains. The inkabitants have considerable manufactures of linen, and a good breed of cattle; and of their hogs, for which they are remarkable, is made the best Westphalia bacon. Not far from this city are to be seen the ruins of an old church and castle, called Beelem, which some say was built by king Witekind upon his conversion, and about two miles from it lies the monastery of Rulle, on the bank of a fake so deep, that report says it could never yet be fathomed. This was the first town in Westplatia which received the Lutheran doctrine.

Lippe is seated on a river of the same name, and carries on a considerable trade in preparing timber for the building of vessels on the Rhine. The country round it is unwholesome and marshy, Near Pyrmont are mineral waters, whichare much esteemed-

Cleves, a city of Germany, in the duchy of Cleves, of which it is the capital, stands upon a pleasant hill, about three miles from the Rivine, with which it communicates, by means of a canal which is large enough for great barges. Tho castle stands upon a mountain; and, though old, is very agreeable. Calvilists, Lutherans, and Roman eatholics, are all tolerated in tho city. E Long. $5^{\circ} \mathrm{sa}$. N. Lat. $51^{\circ} 40^{\circ}$.

Juliers, a city capital of the duchy of Juliers in Westphalia; some think this city was founded by Julius Cessar or Julia Agrippina; but this is much questioned by others, because it is not mentioned before Antoninuss Itinerary and Theodosius's tables, The town is small but well fortified, and neatly built; the houses aro of brick, and the streets broad and regular. The citadel is large and very strong, containing a palace of the antient dakes, und aspacious piazya. In the subortis there is a monastery of Carthusians robly entowed by several dukes of Juhiers. The town is but poorly inhabited, though they hive a fine woollen manafactory in this country, and likewise another of linen, It was taken ly prince Maurice of Nassau in 1610, and by the Spaniards in 169\%. It is seated on the river Raer, in E Long. $6^{\circ} 35^{\circ}$. N. Lat. $54^{\circ}$ s\%.

Aix-ha Chapetle is a tine eity of Germany, is the circle of Werptatia ind drechy of Juliers.

All authors are agreed about its antiquity, it being mentioned in Casar's Commentaries and the Amals of Tacitus. The Romans had colonies and fortresses there whemr at war with the Germans; but the mineral waters and the hot battr so increased its fame, that in process of time, it was advanced to the privileges of a city, by the name of

Aqurgraniif, that is, the waters of Granius; that which it has now, of Ais-Ja-Chapelle, was given it by the French, to distinguish it from the other Aix. It is so called on account of a chapel built in honour of the Holy Virgin by ${ }^{*}$ Charlemagne; who having. repaired, beautified, and eolarged the city, which was destroyed by the Hans in the reigu of Attila, in 451, made it the usual place of his residence. The town is seated in a valley surrounded with mountains and woods, and yet the air is very wholesome. It may be divided into the inward and outward city. The invard is incompassed with a wall about three quarters of a league in circumfercice, tiaving ten*gates; and the outward walt, in which there are 11 gates, is ahout a league and a half in circumference. Thereare rivalets which run through the town and kecp it very clean, turning eeveral mills; besides eo public fountains, and many private ones. They have stone quarries in the nefgitiourhood, wlich furnish the intabitants with proper materials for their magoiffcent buildings, of which the stadt-bouse and the cathedral are the chief. There are likewise thirty parochial or collegiate churches. The market place is very spacious and the houses round it are stately. In the middle before the stadt-house, is a fountain of blue stones, which throws out water from six pipes into a marble bason phaced beneath, thirty feet in circumference. On the top of this fountain is placed the statue of Charlemagne, of brass, gilt, holding a sceptre in his right hand, and a globe in his leff. The stadt-house is adorned with the statues of all the emperors since Charlemagne. This fabric has three stories, the upper of which is one entire room of 169 feet in lenght, and 60 in breadth. In this the new elected emperor formerly entertained all the electors of the empire.

Aix-la-Chapelle is a free imperial city, and changes its magistracy every year on the eve of St. John Baptist. The mayor is in the nomination of the elector palatine, in the quality of the dake of Juliers, as protector of the city. This place is famous for several councils and treaties of peace concloded here : particularly those between France and Spain in 1668, and between Great Brituin and France in 1748.

The liot sulphurous waters, for which this place his so long bean celebrated, arise from several sources, which supply eifht baths conatructed in different parts of the town. These waters near the sources are clear mind pelluced ; and have a strong sutphurous smell resembling the wishings of a foul gun ; but they lose this smell by exposure to the air. Their trste is saline, bitter, and urinons. They do not coutain iron. They are also neutral neare the fountain, but afterwards are maificestly and pretty strongly alkaline, insomuch that cloths are wnsled with thenr withour soap ofinthic vaults above the speings and aqueducts of these waters is found every years whent tiky are opened; a quantity of fine white coloured flowers of sulphor, which hins bern subte limed frol the waters.
The time of drinking, in the first season, is from the beginning of May to the

of September.
There are galleries or piazzas under which the company walk during the time of dights.

## NORTHERN EUROPE.

ing, in order to promote the operation of the waters, The poor's bath is free for every body, and is frequented by growds of poor people.

- It is scarcely necessary to add that there are all kinds of amusements common to other places of public resort ; butsharpersappear more splendid here than olfowliere, assuming titles with an equipage suitable to them. Aix-la-Chapelle is 21 miles from $\mathrm{Spa}, 36$ from Liege, and 30 from Cologne. E. Lon. $5^{\circ} 48^{\circ}$. N. Lat. $51^{\circ} 55^{\prime}$.

Liege, a bishopric of Germany, in the circle of Westphalia, is bounded to the north by Brabant, to the south by Campagne and Luxemburg. to the cast by Lunburg and Jutiers, and to the west by Brabant Namur, and Hainault. It is very unoqual both in length and breadth; the former being in some places ahove 90 miles, in others not half so much; and the latter in some places 45 in others hardly 25 . The air here is very temperato; and the soil fruitful in corn, wine, wood, and pasture. Here also are mines of lead and iron, pits of coal, quarries of marble and stone, and some celebratef inineral waters, as those of Spa and Chau-fontaine. The principal rivers are, the Maes and Sambre. The manufactures and commodities of the country are chiefly beer, arms, bails, serge, leather, with the products we have just mentioned.

Hesse has a cold but healthful air; and a soil fruttfut in corn, wine, wood, and pasture. The country abounds also in cattle, fish, and game, salt springs, baths and mineral waters. The bills which are many, yield silser, copper, lead, iron, allum, vitriol, pit-coal, sulphur, boles, a porcelain carth, marble and alabaster. In the Eder gold is sometimes found; and at Frankenburg a gold mine was formerly wrought. Here are three universities besides a latin school and gymnasia for the instraction of youth. The manufactures of Hesse are linen cloths, hats, stockings, gloyes, paper, goldsoniths ware, and at Cassel a beautifal porcelain is made. They have alco the finest wool in Germany; but are reproached for want of indastry, in exporting it instead of manufactoring it themselves.

Cassel, the capital city of the langraviate of Hesse Cassel, is divided into tho Old, New, and High towns. The new town is best built, the houses being of stane and the streets broid. The houses of the old town, which is within the walls, are mostly of timber, bat the streets are broad and the market places spacious. The place is strongI, but irregularly fortified. It contains about 38,000 iobabitants, of whom a considerable proportion are French protestants. These have established several manufactures, particitarly in the woollen brauch.

Darmstadt has a handsome castle, where its prince generally resides. Marpurg is a strong and considerable town seated in a pleasant country on the river, Lolin. . It has an university, acustle, a palace, a handsome square, and a magnificent town hougg.

The coantry of Hanaw is exceedingly fertile in corn, wine, and fruits; yielding also salt springs, with some copper, silyer, and cobalt. It is populous, and has tlourishing trude and manufactures. Is capital of the same name is pleatantly situated on the river Kenzig-near its confluence with the Maine. The river divides it into the new and old towns, both of which are fortified. The new town, which was built by the French

- and Flemish refugees, is reguiar and handsome. The castle, in which the counts used to reside, and which stands in the old town, is fortified, and has a fine flower-garden, with commodious apartments, but makes no great appearatye. Here is an university. with several manufactures ; particularly of that of rolled tobacco, a very considerable trade.

Frankfort, on the Maine, where the emperors were formerly elected, is a handsome, strong, and rich place, and has a vast deal of commerce. - Here the Golden Bull is preserved, which is the original of the fundamental laws of the empire. . It is seated on a fine fertile plain, and well fortified with a double ditch, bastions, redoubts, and ravelines. The streets are remarkatly wide, and the houses handsomely builf. It has great conveniency for carrying on an extensive trade with the other parts of Germany, by means of the navigable river that runs through it. The fiir of Frankfort is one of the most celebrated in Europe. It is held twice a year, in spring and autumn; and Jists each time $1+$ days or two weeks ; the first of which is called the week of acceptance, and the second the week of payment. These fairs are famous for the sale of all kinds of commodities, but particularly for the immense quantity of curious books no where else to be found, and whence the booksellers throughout Europe used to furnish themselves.

Nassau Siegen is in general a mounfainous and wooly country, with some arable and pusture land, and a good breed of cattle. Its manufactures are cliefly those of iron and stcel, having an iron mine in the neighbourhood of Siegen. Nassau Dillenburg, has not much arable land, but plenty of wood, good quarries of stone, some silver and vitriol, copper and lead, with stone of iron, for the working and smelting of which there are many forgeries and founderies in the country; and by these and by the sale of their iron the inhabitants chiefly subsist.

The Palatinate breeds an abundance of cattle, and is well watered by the Rhine and tho Neckar. The air is healthful and the soil fruitful in corn, pasturage, wine, Cobacco and all sorts of palse and fruits; particularly walnuts, chesnuts, and almonds. In the Rhine is found gold, the exclusive right of searching for which belongs to the elector.

Heidleburg, the capital of the L.ower electorate, is a considerable and popolous town; but greatly reduced by the calamities it has suffered. It is noted for its great ton, which folds 800 hogshicads, and is usually kept full of Ithenish wine. Manheim has a very strong citadel, and a palace, where the elector palatine often resides.

Plillipsburg is very strong being seated in the midst of a morass and fortified with seven bastions and several advanced works. Rhinefels is $k$ strong fortress which commands the "navigation of a great extent of that river.

Trevesa a very untient city, and stands on the Moselle, over which it bas a fine stone bridge. The cathedraf is a large building ; and near it stands the elector's palace, which avas, not long ago, rebuils. Here are three collegiate and five parish churches, three colleges of Jesuits, thirtcen monasteries and numneries, an university founded, in 1472 , a house of the Teutouic order, and unother of that of Mata, with some remains of the Vol F .
antient Roman theatre. The private houses are in general mean, and the city neitier ${ }^{\circ}$ well fortified nor well inhabited.

Cobleutz is an antient handsotne, strong town, seated at the conflaence of tha Fivers Rtine and Moselle, in a fertile country, umong mountains covercd with vineyards. It is the usual residence of the electors of Treves. Over the Rhine is a bridga of 19 arches, built for the convenience of the inhabitants of Coblentz and the adjacent places. A ferry machine isconstantly going from the city to the other side of the Rhine, where there is a little tow a and a strong castle bull on an eminenco named the rock of honour. This machine is erected on 12 boats, in the form of a large square gallety, encompassed with balastrades; and carries a tall flag staff, on which are displayed the arms of the electorate of Treves. It is put in motion by the ferry man's pulling a rope, which is fixed to a standard on each side the river. The castle appears to be almost inaceessible to an enemy, and entirely commands the city of Coblents. The archbishop's palace stands at the foot of this rock, and the arsenal at a little distance.

Bonn is an antient and strong city, the usual residence of the elector of Cologne. It is of great consequence in time of war, because it is siluated on the Rhine, in a place where it can atop every thing that comes down that river. It is well fortified by the elector, who has a fine palace and beautifal gardens in the city.

Cologue is an antient and celebrated town of Germany, in the diocese of that name, with an archbishop's see, and a famous university seated on the river Rhine, in E. Lon. $6^{\circ} 38^{\circ}$. N. Lat. $50^{\circ}$ s0. In the times of the Romans, this eity was called Coloinit, Agrippina, and Ubiorum, because it was built by Agrippina the wife of Claudius 1. and mother of Nero; and beeause the Ubii inhabited this country on the Lower Rhine, In 755, it was an arebbishopric, and in 1260 entered into the Hanseatic league. The university was established in 3388 by pope Urban VL, the city is fortified with strong walls, flanked with ss large towers, and surrounded with three ditches ; but these fortifications, being executed after the antient manaer, could make but a poor dofence at present. It lies in the shape of a half-moon, and is soid to have 20 gates, 19 parishes, 37 monasteries, and 365 churches and chapels; but the streets in general are dirty, tad badly paved, the windows of the houses are composed of small bits of round glass, and the inhabitants are but few for so large' a place. It is inhabited mostly by papists: but there are also many protestants, who repair to the neighbouting town Mulleim in the duchy of Berg, for public worship, Its trade, which is considerable, especially ip Rhenish wine, is chiefly in the hands of protestants, nnd carried on by the Rhine. The ships with which they trade to the Netherlands are of a particular form, and considerable burden. The elergy here are very numerous and have large reventies. That of the archbishop is 180,000 . Baron Polnitz says, that though Cologue is one of Nhe greatest cities, it is one of the most melancholy in all Europe; there being nothing to be soen hat pricets, ficiars, and students, many of wbom beg ulms wib a song; and noth-. ing to be heard but the ringing of bells; that there are very few families of quality; that the vulgar are yery clownish; and that the noblemen of the chapter stay no longer
than their duty obliges them. Mr. Wright, in his travels, says, that the women go veiled; and that the best gin is that distilled from the juniper berries, which grow in this neighbourhood. Tiis city is pertaps the most remarkgble of any in the world for the great number of precious relics it contains ; of-which the popish clergy, no doubt, ${ }^{\text {* }}$ make their advantage. In the church of St. Ursula, they pretend to show her tomb and the bones of the 11,000 pretended virgin martyrs, though that story is entirely owing to a mistaken inseription. The heads of some of the imaginary martyrs are kept in eases of silver, others are covered with stuffs of gold and some have caps of cloth of gold and velvet. Brevat says, he saw between four and five thousand skolls, decked with garlands and coronets, ranged on shelves. The canonesses of St. Ursula, who must be all countesses, have a handsome income. In their church they pretend to show three of the thorns of our Saviour's crown, and one of the vessels which contained the water that he converted into wine at the marriage of Cana. In the church of St. Geveron are 000 heads of Moorish Cavaliers, said to have been in the army of Constantine before it was converied, and to have been beheaded for refusing to sacrifice to idols. Every one of the heads has a cap of scarlet, adorned with pearls. In the magnificent eathedral of St. Peter, the three wise men who came from the tast to visit our Saviour, are said to be interred. They lic in a large purple shrine, spangled with gold, set upon a pedestal of brass, in the midst of a square mausoleum faced within and without with marble and jasper. It is opened every morning at nine oclock, if two of the canons of the cathedral are present, when these kings or wisc men are seen lying at full length with their heads bedecked with' a crown of gold garnished with precious stones. Their names, which are Gasper, Melchier, ond Bathasar, are in purple characters on a little grate, which is adorned with an infinite number of large rich pearls and precious stones particularly an oriental topaz as bigas a pigeons cgg, and valued at above 30,000 crowns, Over aganst them aresix large branchesof silver, with wax caudles, which burn night and day. The bones of these men, we are told, were brought to Constantinople by Ielena, mother to Constantine, from thence to Milan by Eustorpius Rainold. In the Jesuits college are the portraits of the first 13 generals of that order, with Ignaticus Loyola at their head; and in the church, which is the finest in Cologne, are many rich statues, an amazing quantity of fine silver plate; and the utensils for mass are all of gold enriched with precious stones. In the cordeliers church is the tomb of the famous Duns Scotus, surnamed Doctor Subtilis, with this epitaph, "Scotia me genuit, Anglia me suscept, Gallia me docuit, Cologne me tenet." Cologne is a free imperial city, and as such has a seat and voice in the diets of the empire, and circle of the Lower Mbine. In those of the empirt, it his the first place on the Rhenish bench. Towards the defence of the empire, As assessment is 895 florins; and towards the maintenance of the chambercourt, 405 rix-dollars, 721 kfuitzers each term. Its militia consists of four companies - of foot, who keep guard at the gates. It is governed by its own senate, in respect to civil matters and causes; but the criminal jurisdiction belongs to the elector and his chapter ; and so jealous are the inlabitants of him, that they will not peruit him to
stay in the city above three days at a time nor to come into it with a large retinue. For * this reason the elector resides commonly at Bonn.

The Rhinegau is a bcanteful district of the electorate of Mentz, is situated on the Thine, about three miles from the city of Mentz, and is so populous that it looks like one entire town intermixed with gardens and vineyards. The Rhine here grows astonishingly wide, and forms a kind of sea, near a mile broad, in which are several well wooded litte islands. The Rhinegau forms an amphitheatre, the beauties of which are beyond all dererjption.

At Walluf, the very high hills come nearly down to the river side; from thence they recede again into the country forming a kind of half circle the other end of which is 15 miles off at Rudesheim, on the banks of the Rhine. The banks of the river, the hills which form the circles, and the slopes of the great mountains, are thick sown with villages and hamlets. The white appearance of the buildings, and the fine blue slated roofs of the houses playing amidst the various green of the landscape, have an admirable effect. In the space of every mile, as you sail down the river, you meet with a village which in any another place would pass for a town. Many of the villages contain from 300 to 400 fomilies; and there are 36 of them in a space of 15 miles long and six miles broad, which is the width of this beautiful amphitheatre. The declivities of all the billa and mountains are planted thick with vineyards and fruit trees, and the thick woody tops of the hills cast a gloomy lorror over the otherwise chearful lindscape. Every now and then a row of rugged hills run directly down to the shore, and domineer majestically over the lesser hills under them. On one of these great mountains, just about the middle of the Rhinegau, you meet with Johnannis-Berg, a village which produces some of the best Rhenish. Before this village is a pretty little rising, and near the banks of the river there is a very fine old castle, which gives unspeakahle majesty to the whole landiscape. Indeed, in every village, you meet with some or other large building which contributes very much to the decoration of the whole. This country is indebted for its riches to this semicircular hill, which protects it from the cold winds of the east and north, at the same time that it leaves room enough for the sun to exercise his benign in flaence. The groves and higher slopes of the hills make excellent pastures, and produce large quantities of dung, which, in a country of this sort, is of inestimable value.

The bank of the Rhine, opposite to the Rhinegan, is exceedingly barren, and this lieightens the beauty of the prospect on the other side by the contrast it exhibits ; on this side, you hardly meet above three or four villages, and these are far distant from each other. The great interval between them is occupied by heaths aid meadows, only here and there-a thick bustr affords some shade, and a few corn fields anong the villages enliven the gloomy landscape. The back ground of this country is the most pictures; quepart of it It is formed hy a narrow gullet of mountains, which diminish in per-. spective betreen Radeshein and Bingen. . Perpendicular mountains and rocks himg over the Rhine in this place, and scem to make it the dominion of eternal night. At is
distance the Rhine scoms to come out of the landscape through a hole under ground; and it appears to fun tedionsly, in order to enjoy its course through a pleatant conntry the longer. Amidst the darkness which corers this back groind, the celebrated Moume. Toner seems to swim upon the river. In a word, there is not any thing in this whole tract that does not contribute something to the beauty and magnificence of the whole; or if we may be perriitted the expression, to make the paradise more welcome. As you sail along the Rhine, between Mentz and Biageo, fio banks of the river forim an oval amphitheatre, which makes one of the richest and most picturesque landseapes to be ieen in Europe: The inhabitants of these regions are some of wem extremely rich, and some of them extremely poor. The happy middle state is not for countries the chief produet of which is wine; for, besides that the caltivation of the viegard is ionfintely thore troublesonne and expensive than' egrecultare, itis subjected to revolutions which in an iustent reduce the holder of land to the condition of a day-labourer. It is a great misfortune for this country, that, though restrained by law, the nobility are through conaivance of the clector, allowed to purchase as math land as they please. The pentant genterally-legins by running in debe for his rincyard; so that if it does not turn out well, he is reduced to day-libour, and the rich man extends his possessions to the great detriment of the country. There are several peasants here, who having incomes of 30,50 , or 100,000 guilders a-year, thave laid aside the peasant, and assumed the wino inerchant, but, Eplendfd as thoir situation is, it does not compensate, in the cyes of the humane man, for the sight of 50 many poor people with- which the villages swarm. In order to render a country of this kiad prosperous, the state should appropriate a fund to the parpose of maintalining the peasant in bad years, and giving him the assiatance whith his necessfies, and biswant of reaty money, may from time to time make contenient.
The inhabitants of the Rhinegau, are a bandsome, and uncommonly strong race of men. You see at the very first aspect that their wine gives them merry hearts and sound bodies. They have a great deal of natural wit, and a vivacity and jocoseness, which distinguishes them very much from their neighbours. You need only compare thein with some of these, to be convinecd that the drinker of wiLe exels the drinker of beer and water, both in hody and wind ; and that the inhabitant of the south is much stobiter than he whio lives in the north; for thougti the wine drinker may not have quite as much festh ns lie who driaks only beer, he has better blood, and can bear mach more work. Tacitas had already obscrved this, in his treatise De moribus Germanotum, "The lafge und corpalent bedies of the Germans," says he, "have a great appearence, but are not made to last" At ithat time almost all the "Germans drapk only water; but the meref frimbing of wioc has efiected a revolution in several paris of Germing, which mates the present inhabitaints of those countries very differeat from those described by -Tacius. Bhack aitl brown hair is much more common here than the white, which mude the Gerinanis so fimous in oid Rome. "It will be cisily imagined," syys baron Risibeck, "that the monks fare particularly well in so rich a country. We made a visit to the prelate of Erbach. These lordly moaks, for so in cevery respect they are,

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have an excellent bunt, rooms magnificently furniahed, billiard tables, half a dozen beautiful singing women, and a stupendous wine cellar, the well ranged batteries of - which made me shudder. : A monk who saw iny astonishment at the number of the casks, assured me, that, without the benign influence which flowed from them, it would be totally impossible for the cloister to subsist in so damp a situation."

Rudesheim, a rich village of the Rhinegau, situated about five miles from the city of Ment, contains about 2500 inhabitants. The wine of this place is looked upon as without compatison the best of the Rhinegau, and consequently of all Germany. Baron Reisbeck says, he found it much more fiery than that of Hochheim; but that for pleasantness of taste there is no comparison betwixt them. The best Radeshoim, like the best Hochheimer, sells apon the spot for three guilders the bottle. "r You cah," says our author, "have no tolerable wine here for one guilder, nor any very good for two ; at least I should prefer the worst Burgundy I ever tasted to any Rudesheimer I met with either here or at Mentz for these prices. Indeed the wine of our host (a rich ceclesiastic) was far better than any we could get at the inn. It stands to reason, that the same vintage furnishes grapes of very different degrees of goodness; but besides this, it is in the Rhinegau as every where else. The best wines are generally sent abroad by the poor and middling inhabitants, and the worst kept for interoal consumption; for the expence of the carriage being the same in both cases, strangers had much rather pay a double price for the good, than have the bad. It is only rich people, such as our host was, who can afford to keep the produce of their land for their own drinking. Upon this principle, I have eaten much better Swiss cheeses out of Switzerland than in it, and have drank much better Rbenish in the inns of the northern parts of Germany than in the country where the wine grows. The position of the country also contributes to render the wine dearer than it would otherwise be. As the best grows in its more northern parts, the easy transport by the Rhine to Holland, and all parts of the world, raises its price above its real value. The place where the flower of the Rudesheim wine grows is precisely the neck of the land, formed by the winding of the Thine to the north, after it has run to the westward from Mentz hither. This neck, which is a rock almast perpendicular, enjoys the first rays of the rising and the last of the setting sun. It is divided into snall low terraces, which are carried up to the utmost top of the hill like steep stairs ; these are guarded by small walls and earthern mounds which are often wached away by the rain. The first vine was brought hither from Prance, and they still call the best grape the Orleannois. They plant the vine stocks very low, scarce ever more than four or five feet high. This way of planting the vine is favourable to the production of a greal deal of wine, but not to its goodness, as the phlegmatic and harsh parts of it would certainly evaporate more, if the sap was refined through ligher and more numerous cauals. This is undoubtedly the reason why every kiud of Rhenish has something in it that is harsh, sour, and watery. The harvest of the best vineyards, which ase the lower ones, in the above-mentioned neek of land, is often bought beforehand, at the advanced price of some ducats, by Dutch and other merchants. It must bo a very rich stock to yield above four measures of wine. You may easily intagine, that
the cultivation of vineyards must be very expensive in this country, as the dong-which is extremely dear, must bs carried up to the top of the mountains on the peasant's shoulders.

The archbishopric and electorate of Mentz lies on the banks of the river Mayne, between the electorate of Triers on the west, the Palatimate on the south, Franconin on the east, and the Wetteraw on the north. It is about 60 miles in length from northeast to south-west, and about 50 in breadtl. A coasiderable part of the elector's revenue arises from the toll on the Rhine and the Mayne, and from the tax on the excellent wines produced in this country.

Mentz, a considerahle town in the circle of the Lower Rhine and capital of the elecforate of the same name, is situated on the Rhine near its confluence with the Mayoe, 20 miles north-west of Worms, 15 west of Frankfort, and 75 east of Triers, in E. Long. $8^{6} 90^{\circ}$. N. Lat. $49^{\circ} 51^{\prime}$.

This city claims a right to the invention of the art of printing. Here is a very beautiful quay along the river, defended by several works well fortified with cannon. That part of the city which extends towards the river is most poputous. The best vineyards for Rhenish wine being in this neighbourhood, Mentz has a flourishing trade in that commodity more particularly; and its commerce is the brisker by reason that all the merchandise which passes up and down the Rhine, and stops in its barbour to chango bottoms.

The northern part of the city, in which the arehbishop resides, is full of very regular buildings. Here are three regular streets, called Blerchen, which run parallel to each other from the banks of the Rhine to 600 yards within the city, and are cut almost regularly by very pretty cross streets. The archlishop's palace has a most commanding view of these streets, the Rhine, and the Rhinegau. There are also some good buildings in the old part of the city. The market of beasts is extremely well worth seeing, and you here and there meet with other agreeablespots The market in the middle of the town, though not regular, is one of the prettiest places in Germany. The cathedral is well worth notice. It is an immense large old Gothic building, the spire of which was struck with lightning about 90 years ago, and entirely laid in ashes. As it was made of a forest of wood, it burned 14 hours before it was entirely consumed. Io prevent these accidents for the future, the chapter had the present one built to the same height in stone, an undertaking which cost them 40,000 guilders or 4000 \%. It is a great pity that it is overloaded with small ornaments; and a still greater, that this wonderful edifice is so choaked up with shops and houses as to be hardly more than half visible. As, however, houses and shops are very dear in this part of the town, one canndt be very angry with the chapter for choosing rather to make the most of its ground, than to show off the church to the best advantage. The rent of a shop and a -single room to live in is 150 guilders or 15 L . per annum in this part of the town. There is hardly another church in Germany of the height of this cathedral; and the inside of it is decorated with several magnificent monuments of princes and other personages. Besides the cathedral, the city of Mentz contains several other churches in the modera

## NORTHERN EUROPF:

stile very well worth seeing. St. Peter's and the Jesuit's charch, thoighi both too much loaded with ornaments, ave among this number. The church of the Augustines, of - which the inhabitants of Tfentz are so proud, is a master-piece of bad taste ; bot that of Ignatios, though litte is said about it, would be o madel of the antique, if here likewise, there had not been too much ornament lavished. Upon thic whole the palaces of the noblesses want thy noble simplicity which alone constitutes truc beauty and magnificence, In another century the externals of the city will be quite clianged. The fite prince built a great deal, and the present has a taste for the same fort of ex pence. The monks and governors of hospitals also have been forced to rebuild their hivases; so that when a few more sirfets are made hroader and sirditer, the whole wilt have no had appearance. The inhabitans, who together with tho garrion amount to so, 000 , ard a good kind of people; and, like all the catholies of Germany, mike greht account of a good table. Their faces are interesting, and they are not deficient eilice for wit or activity.
There are few cities in Germany besides Vienna, which contain so rich and namercuis a nobility as this does : there are some bouses which have estates of 00,000 puilders or 10,000/, a-year. The counts of Bassenbein, Schonborn, Stadioo, Ingelheim, El2, Ostein, and Waldordorf, and the lords of Dabiberg. Breitenbich, with some others, have incomes of from $s 0,000$ to 100,000 guilders. Sixteen or efghteen houses have from 15,000 to 30,000 guilders annunt revenue.

The nobility of this place are said to be some of the oldest and most untainted in Gernany. There are amongst them many persons of extraordinary merit, who join uncommon knowledge to all the dutics of active life. Upon the whole, they are fir superior to the greater part of the Germmn nobility. Their education, however, is still too stiff. The first minister of the court was refused admittance into their assemblies for not being suificiently noble ; and they think they degrade themselves by keeping company with bourgeois.

The clergy of this place are the richest in Germany. A cenonry brings in 9,500 Rhenish guilders in a moderate year. The catonry of the provost brings himi in 40,000 guilders 4-year; and earh of the deaneries is worth- 2600 guilders. The income of the chapter altogether amounts to 300,000 guilders. Though it is forbidden by the canons of the charch for any one to kive more than a single prebend, there is not-an eeclesiastic in this place bat what has three or four : so that there is hardly a man amongst them who has not at least 8000 guilders a-year. The last provost, a count of Elis, had prebends enough to procure thim an incone of 75.000 guildera Exclusive of the cathodrat, there are several other choirs in which the cahonries bring in fomm leoo to 1500 guilders a-year. To give an idea of the riches of the monasteries of this place, baron Reisbeck informs us, that at the destriction of the Jesuits, their wine, which was reckoned to sell extienely cheap, produced 120,000 rix-doliars. A little white ago the lector abolished one Carthusian convent and two numieries, in the boly cellars of which there wa- fund wine for at least 300,000 rix-dollars. " Notwithstanding this great wealth," continues our author, "there is not a more regular clergy in
all Germany. There is no diocese in shich the regulations made by the counel of Trent have been more strictly adhered to than they have here; the archbishops have made a particolar point of it, both at the time of the Reformation and ever since. One thing, which greatly contributes to keep up discipline, is the not suffering any priest to remain in the country, who has not fixed and stated dutis, and a revenuc annexed to them.

Most of the irregularities in Bavaria, Austria, and other confitries, arise from abbots, who ure obliged to subsiot hy their daily industry, and any masses which they con pick up. These creatures are entirely unknown here. The theological tenets of this court are also purer than those of any other ecelesiastical prince in Germany. I was pleased to see the bible in the hands of so ma*y common people, especially in the country. I was told that the reading of it was not forbidden in any part of the dincese; ouly persons were enjoined not to read it through without the advice of their confessors. For a long time superstition has been hunted through its utmost recesses ; and, though it is not quite possible to get entirely clear of pilgrinuages and wonder-working images, you will weet with no priest bold enough to exorcise, or preach such nonsense as we hear in the pulpits of other German clurches."

Though the trade of this place las been constantly on the increase for torse 18 or 20 years past, yet it is by no means what it ought to be from the situation and otier advantages. The persons here who cail themselves merchants, and who make any considerable figure, are, in fact, only brokers, who procore theie livelihood at the expence of the country or territory round, or who act for the merchants of Frankfort. A feir toy-shops, five or six druggists, and four or five manufacturers of tobaceo, are all that con pussibly be called traders. There is not a banker in the whole town; and yet this country enjoys the staple privilege, and commands, by means of the Mayne, Neckar, and Rhine, all the exports and imports of Alsatia, the Palotinate. Fransonis, and a part of Suabia and Hesse, as far an the Netherlauds. The port too is constantly filled with ships, but few of them contain any merchandize belonging to the inhabitants of the place.

Nuremberg, an imperial city, capital of a territory of the same name, is situated in east longitude $11^{\circ}$, north latitude $47^{\circ} 50$. It stands on the Regnitz, over which it has several bridges, both of wood and stone, at the bottom of a hill, 60 miles from Augsburg, 87 from Munich, 46 from Wurtzburg, and 50 from Ratisbon; and it is thought by some to be the Segodunum, and by others the Castrum Noricum, of the antients.

The city has derived its name from the bill, upon which stands this castle, called in latin Castrum Noricum, round which the city was begun to be built, and where the emperors formerly lodged; and bere they lodge still, when they pass by that city. They there preserve, as prociuus relics, the crown, sceptre, clothes, buskins, and other ornaments of Charlemagne, which served also the emperor Leopold, when he went thithes after his election, to receive the homage of the city. The small rivers Regnitz and Schsurzack, which pass by its walls, furnish the inhabitants, besides other advantages,
With the means of making all sorts of stuffs, dyes, and other manufuctures, and tays, which are carried and sold exen in the Indies.
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It is a largo and well bullt toinn, Znot not very populous. Its fortifications are n dobsble wall, flanked with fowers mainting cannon, and a deop dach. The magisfrates and most of the inhabitonts ste Lutherans. There ure in ifrat many churches and eliapels in it. In that of St . Selaid is a briss monament of thie snint; and a picture, representing the creation of the world, by the eelebratel Albert Dever, who was a pative of the toun ; but the finest church in the town is that of St . Giles. In that of the Holy Ghost are kept most of the jewets of the empire, together with the pretended spear with whict our Saviour's side was pierced, a thorn of lifs crown, and a piece of the manger wherein he was laid. Here are also a great many hospitals, one in partienlar for founilings, and enother for pilgioms, wits a gymnasimu, an anitomical tieatre, a granary, a fine public library, the old linpetial fortress or castle, some remains of the old cibdel of the bargraves of Nuremberg, several latin schools, an atademy of painting a weil furnished arsenal, a Teutonic house, in which the Roman catholic service is tolersted, and a mint.

Mr. Keyslar says there are upwards of 500 streets in it, about 140 fountains, 16 chorches, 44 religious houses, 10 bridges, 10 market-places, and 95.000 tahabitants; and that its territories, besides the capital and four other towns, contaia above 500 villages, and about 160 milts on the Regaitz. The trade of this city, though upon the decline, is still very great, many of its mannfactures being atill experted to ull parts of the world ; among which we "may reckoin a great variety of curious toys, in ivory, wood, and metal, already mentioned. The city bas also distinguisied itself in the urta of painting and engroving. When the cmperor Henry VI. assisted at a tournament in Nuremberg, he raised 38 vargners to tpe degree of nobility, the descentants of whom are called patriciaus, and have the government of the city earirely in their bands; the whole council, except cight masters of companies, who are sumanoned only on extraordinary occasions, consisting of them. Among the fine brass cannon in the arsenal, is one that is charged at the breech, and may be fired tight times in a minute ; and two that carry ballo of po pounds. The city fieeps in constant pay seven companies, toasisting ench, in time of peace, of 100 men, but, in time of war, of 185 ; two troeps of cuirassiers, each consisting of 85 men , and two coinpanies of invalids. Thicre are also 24 companies of burghers, well armed and disciplined. On the new bridge, which is zaid to have cost 100,000 guilders, are tiwo pyramids, on the top of one of which is a dove with an olive branch in fier bill, and on the other an imperial black eagle. Music also flourisies greatly in Nuremberg; and those who delight in mechanic arts and mannfactures cannot any where better gratify their curiosity. As an imperial city, it has a seat and voice at the diets of the empire and circle, paying to the chantuber of Wetziar 1812 .rix dollars euch term, The feritory belonging to the city is pretty large, conkiaing, besites two considerable forests of pine, called the Sibald and Laverence forests, soveral towns and villages.
We have trenioned alfecidy that certain families, called patricians, to the exclusion of the rest, possess the offices of the semas?. 'They are compostd of 42 persons, ovet whichatwo, castellans, or perpetani senaychals, previde, the tirst of whom has his residence in th cadte. Theso castellans assemble soinetines in the eastle, with five or six of the
chief nombers, to liold a sectet cometi; ant, th this enty glaries in being one of the first which embraced Lutheranism, it proserves the privilege of that in civit masters, not adonitting any eatholics to the magistracy or freedom of the town ; the catholics there having the liberty only of remaining under the protection of the rest, and performing their religious worship in a command ry of Mattir, and this bat at certain Aiours, not to disturb the Latherans, who likewise assemble there, althoogh in possession of all the other churches.
".This city is particularly noted for its antiquity.' grandeur, fortilicatious, 'its triple. Walls of hewh stone, its large and deep mnat, its five honses, large churches, its wide strects, always clean, and for its cerious and large library, and its magazine, stored with elcry thing proper for its defence.

Wurtzburg is a large and liandsome city, one of the most considerable in Franconif. It is defended with good fortifications, and has a tmagnificent palace. Here is a handsome hospital, in which are generally about 400 poor men and women. The eastle is at a small distance from the city, and commands it as it stands upon an eminence. It communicates with the city by a stone bridge, on which are 12 statucs, representing as many saints. The arsenal and cellars of the bishop descrve the attention of the curions. Here is also an university, founded in 1403.

Damberg is large and handsome. The country round it produces plenty of com, fruits, and liquorice. The marquisate of Auspach is fertile, and interspersed with woods, which render it agreeable for hunting. Auspach, a small but pretty town, is well built, and has several churches. It is walled round, bua thas no other fortifications. In the paface there is a remartable cablinet of curfosities.

Aichstat is remarkable for a curious piece of workmmithip, called the Sun of the Fioly Sacrament, which is in the chureb : it is of massy gold, of great weight, and is enriched with 350 diamonds, 1400 pearls, 250 rubies, and other stones.

Bareith is a flowishing college belonging to the margrave of Brandenburg Bareith. Coburg has a famous college, fort, and castle. Culemback has good fartifications, and is seated on the confluence of two branches of the Mayne.

The inhabitants of the electorate of Baviria are strong and lahorious, exercising themselves in shooting with rife barrel muskets at a mark, in order to render themselves expert in war.

Munich is a town of Germany, capital of the whole duchy of Bavaria, and the residenee of the efector. It stands on the Iser, 70 miles south of Ratisbon, and 214 west of Vienina, being one of the most pleasnint and populoas cities of Germany for its bigness. The number of its inhabitants is said to be about 40,000 . Having' been built at first on a-spot of ground belonging to a convent, it had from thence in Germany the name of Mjunchen, i.e. Monk's town, and a monk for its arins. The elector's palice is a very grand structure, consisting of several courts, furnished end adorned in the most magnificent manner, with tapestry, giding, sculpture, statues, and paintings. If contains an awazing collection of jewels, tutiquities, and curiosities. The great halt is 118 feet long and 52 hroad; and the staircase leading to it, from top te bottom,

## NOKTHERN RUROPE

of markle and gold. Iu tha hall of antiquities are 354 busts and statues of jasper and porphyry, brass und marble, In this palace is also a library, conttuining a vast collec tion of books, and manty valuable manuscripts, in most languages, amtient and modem; and a chamber of rarities, among which is the picture of a bravo or assassin, ubo is said to have committed 345 murders with his own hand, and to have been accomplice in or privy to 400 more. The treasury in tho chapel rot:taius also a vast dumbet of pictures, precious stones, medals, vessels of gold and sintr, \&c. Among otherisuriositics, bere is a cherry stone with 140 heads distinctly engrnven upon it. The garden of the palace is also very five, and it is said a secret passage leads from it to all the churches and convents in the tomi. There is a great number of other fine buildings in the city, public and private, particularly the riding-house, tonu-himase, opera-toom, the Jesnits' college, the large edifices for toumaments, the churches, convents, fountains, \&e. Its manufactures are those of silk, particularly velvet, woollen cloths, and tapestry; and it tas two anmual fairs, at which great quautities of salt, wine, \&ke, are sold. The streets are broad and regular, and most of the houses well built, and painted on the outside. The market-place is extremel/ beautiful. Not fir from Munich are fout other palaces, with fine gardeus belonging to the elector ; viz, those of Sleisheim, Nympotibarg, Dautchau, and Stureaherg. The first and last are about three leagues from the capital; the second abvut half a leaguc, and the third about two, at a market town of the same name.

Austria is ose of the principal provises of the empine of Germany toward the cast; from which situation it takes its mawe Oost-ryck, in the German langunge ignifying the East Country. It is bounded on the north by Moravia; on the east be ' ungary; on the south by Stiria; and on the west by Bavaria. It is divided into Upper and Lover. Upper Austria is situated on the south, and Lower Austria on the north side of the Danube. Vienna, the capital, is in the Upper Austria, which contains several other very considerable towns. The country is very fertile, has a great many riches, and produces vast quantities of sulphur.

Upper Austria, properly so called, bas throughout the appearance of a bappy country; here are no signs of the striking contrast between poverty aud ricless which offiends so much in Hungary. All the inhabitants, those of the capital only excepted, enjoy that happy mediocrity which is the consequence of a gentle and wise administration. The farmer bas property: and the rights of the nobility, who enjoy a tind of lower judicial poner, are well defined. The scuth and south-west pats of the conctry ars bounded by a ridge of hills, the inhabitants of which enjay a share of prosperity unknown to those of the interior parts of France. There are many village and market towns, the inbabitants of which, having bought themselves off from vassalage, are now their own governors, and beloug some of them to the estates of the country. The cloisters, the prelates of which belong to the estates of the country, are the richest in Ceimany, after the immediate prelacies and abbacies of the empire. One of the great convents of Eenedictines is worth upwards of 4000 miltions of Freneh livres, half of which goes to the exchequef of the country.

Lower Aostris yenrly exports more than $2,000,000$ gulders worth of wine to Monavis, Bohenia, Upper Austria, Bavaria, Saltzburg, and part of Stigja, and Carintha This wine is sour, but has a great deal of strength, nad may be cseried all over the world witbout danger ; when it is 10 or 20 years old it is very good. This country is very well peopled. Mr. Schlosser, in his political journal, which contaias an account of the population of Austria, estimates that of this country nt $2,100,000 \mathrm{men}$. The revenue of this country is about $14,000,000$ of florins ; of which the city of Vienna contributes about five, as one man in the capital earns as much as three in the country. .

The southern parts of Austria are covered with hills, which rise gradually from the banks of the Danube to the borders of Stiria, and are covered witin woods. They lose themselves in the mass of mountains which run to the south of Germany, and stretch through all Stiria, Corniola, Carinttia, and Tyrol, to the Swiss Alps, and are probably, after Savoy and Switzerland, the highest part of the earth. The inhabitants of this extensive ridge of mountains are all very much alike; they are a strong, ange, and, the Goilres excepted, a very handsome people.

The characteristic of the inhabitants of all this country is striking, bigotry united with sensuality. You need paly see what is going forward here, to be convinced that the religion taught by the monks is as ruinous to the morals as it is repugnant to Cbristianity. The Cicibeons accompany their married women from their bed to church, and lead them to the very confessional. The bigotry of the public in the interior parts of Austrin, which, from the mixtore of gollantry with it, is still to be found even amongst people of rank, degenerates among the common people into the grossest and most abominable buffuonery. The Windes, who are mixed with the Germans in these countries, distinguish themselves by a superstitious custom, that rioes little honour to the human understanding, and would be incredible, if we had not the most unequivocal proofs of the fact before our eyes. Many years ago, they set out, in company with some Hungarian enthustasts, to Cologne, on the Rtine, which is about 120 German miles, to cut off the beard of a crucifix there. Every seven years this operation is repeated, as in this space of time the beard grows to its former length. The rich persons of the association send the poorer ones as their fleputies, and the magistrates oí Cologne receive them as aubassudurs from a foreign priace. They are cutertained at the expence of the state, and a cuunsellor shows them the most remarkable things in the town. This farce brings in arge suins of money at stated times, and may therefore be thought to deserve political encouragement ; but still, however, it is the most miserable and meanest way of gain that can be imagined. These Windes have alone the right to shave the image of our Saviour, and the beard gross only for them. They firmly believe that if they did not do this service, to the crucifix, the earh would be shat to them for the next seven years, and there noald be no barvest. Por this reason they are obliged to carry the hair howe ufth thern, as a mpoof of having filfilled theic commission, the retarns of nhiih are di-tributed amongst the different commmnities, and preserved as holy reliques. The umpenal cou:t hasefor a long time endeavoured in vain to prevent this emigration, Thich deprives agriculture of so many namful hatads. When she Windes could not go Vol 1.
-85

## 662

 NOR LIHEIAN EUROPE.openly, they would go elaniesthety: Ac tengti the court thought of the expedient of forbidding the mgency of Cologne to let them enter the town. 'his happensd rome years ago, and the nuserous embassy was obliged to beg its way back again, withourtho mondectul beard; whici, withont doubt. the Capuchins, to whou the enicifix belongecl, used to put together from their own. The trade which the monks carry on with holy salves, oils, \&e. is very nunsiderable ; a prohibition of the court, lately publislied, has rather lessened it, but it cannot be entircly suppressed till uext generation. It is "now carried on secretly, but perha ps to nearly as great an amount as formerly.

- Vienna, the capital of the circle of Austria, in Germany, in I of the whole German empire, is the place where the emperor resides. The city itself is not of very great exteut; nor can it be enlarged, it being limited by a very strong fortrication ; but it is very populous. The streets in general are uarrow and the howses buit high. Soune of the public buildings are magnificent; but they appear externally to no great advantage, on account of the narrowness of the streets. The chief of them are the imperia. palace, the library, and the museum, the palaces of the pripees Lichtenstein, Fuprene, \&c. Vienna was twice ineffectually besieged by the Turks; namely, in 1589 and 1683. At the latter period, the siege was raised by John Sobieski, King of Poland, who tutally defeated the Turkish army before the walls of this place. There is no great dauger that Vienna will ever again be sulyjected to the inconvenience of a si-ge. Yet in case this should happen, a measure has been taken, which will prevent the necessity of destroying the subarbs ; namely, no houses without the walls are altowed to be built nearer to the glacis than 600 yards; so that there is a circular field of that breadth all round the town, which, exclusive of the advantage above mentioned, has a very beautiful and salutary effect. These magnificent suburbs, and the town together, are said to contain above 300,000 inhabitants ; yet the former are not near so populous, in proportion to their size, as the town ; because many houses in the suburbs have extensive gardens belonging to them, and many families, who live during the winter within the fortifications, spend the summer in the suburbs. The cathedral is built of free-stone, is 114 yards long, and 48 broad, and the steeple is 447 feet bigh. Instead of a weather-cock, there was a Turkish crescent, in memory of the sigge in 1589; but after the second siege, in 16 Rs, they changed it for a golden cross, which three months after was thrown down by a storin. At present there is a black spread eagle, over which is a gilded cross. Joining this church is the archbishop's palace, the front of which is very fine. The university bad several thousand students, who, when this city was besieged, mounted guard, as they did also in 1741. Besides this, there is the academy of Lower Austria; and the archdocal library is much frequented by foreigners, as it contains above 100,000 printed books, and 10,000 manuscripts. The academy of painting iseremarlable for the fine pictures it produces. The archducal treasury, and the cabinet of curiosities of the house of Austria, are great rarities. The inhabitants in general live in a splendid manner; and the people of distinction have all sorts of wines at their tables, whioh they are very free with to foreigners. There is a sort of harbour on tife Danube, where thete are augqaines of naval stores, and ships have been fitted out to serve on that river
egninst the Turks. Vienna is an archbishop's see. It is seated at the place where the river Vienna or Uien falls into the Danube, 50 miles west of Presturg. 350 north-noirth-east of Rome, 520 south-east by south of Amsterdami, 565 east of Paris, and 680 cast-south-east of London. East longitude $16^{\circ} 288^{\prime}$, north latitude $48^{\circ} 13^{\prime}$.

Stiria is a mountainous country, yet there is a great deal of land fit for tillage, and the soil is so good that the inhabitants bever want corn. It contains mines of ver; good iron, whence the arms made there are in great esteem. The wonen have swellings on their throats, which they call bronchoceles. The men are very simple, and zealons worshippers of the Virgin. A similar character to that of Stiria applies to the soil of Carniola and Carinthia. The inhabitants of the two latter are of Scythian or Sclavonian origin, and the lower classes are said to converse chiefly in the Wexdish or Vandalie language.

Tyrol, a country of Germany in the circle of Austria, under which may be included the territories belonging to the bishops of Brixen, Trent, and Chur, Teutonic order, and the prince of Deitrichstein, the Austrian sciguiories before the Arlberg, and the Austrian districts in Suabia. It is 150 miles in length, and 120 in breadth, and contains 28 large towns.

The face of the country is very mountainous. Of these mountains, some have their tops always buriod in snow ; others are covered with woods, aboanding with a variety of game ; and others are rich in metals, and marble of all colours. Of the lower, some yield plenty of corn, others wine, and woods of ehesnut-trees. The valleys are exceeding lertile also and pleasant. In some places considerable quantities of flax are raised, in others there is a good breed of horses and borned cattle; and, among the mountains, abundance of chamois and wild goats. In this country are also found precious stones of several sorts; as granates, rubies, amethysts, emerulds, and a species of diamonds agates, cornelians, chalcedonies, malachites, \&c. nor is it without hot baths, acid waters, salt pits, mines of silver, copper, and lead, mineral colours, alom, and vitriol. The principal river of Tyrol is the Inn, which, sfter traversing the country, and receiving a number of lesser streams into it, enters Bavaria, in which, at Passau, it falls into the Danube. The men here are very tall, robust, and vigorous; the women also are stout, and generally fair ; and both sexes have a mixture of the Italian and German in their tempers and characters. As there is little trade or manufacture in the country, except what is occasioned by the mines and salt-works, many of the common people are obliged to seek a subsistence elsewhere. A particular kind of salutation is used all over Tyrol. When a person comes into a house, be says, "Hail ! Jesus Christ:" the answer is, "May Christ be praised, and the Holy Virgin his mother." Thẹn the master of the house takes the visitor hy the band. This salutation is fixed up in a print at all the doors, with an advertisement tacked to it, importing that pope Clement XL. granted 100 days indulgence, and a plenary absolution to all those who should pronounce the salutation and answer, as often as they did it. The emperor has forts and citadels so advantagcously situated on rocks and mountains all over the country, that they command all the valleys, avenues, and passes that leadd into it.

The inhabitants, however, to keep them in gond humour, are more gently treated, and not so highly taxed as those in other hereditary countrics. As to the states, they are much the same in \&is country as in the other Austrian territories, except that the pensants bere send depaties to the diets.

Tyrol came to the house of Austria in the year 1363, when Margaret, countess thereof, bequeathed it to ber uncles, the dukes of Austria. The arms of Tyrol are an eagle gules, in a field argent. *The counts of Trap are hereditary stewards; the lords of Gtosz, chamberlains,; the princes of Trautson, marshals; the counts of Wolkenstein, masters of the horse and carvers; the house of Spaur, cup-bearers ; the counts of Kang!, sewers and rangers ; the counts of Brandis, keepers of the jewels; the house of Welsperg, purveyors and staff-bearers; and the counts of Coalto, falconers. Besides the governor, here are three sovereiga colleges, subordinate to the court at Vienne, which sit at Inspruck, and have their different departments. Towards the expences of the military establishment of this country, the proportion is 100,000 florins yearly; but no more than one regiment of fout is generally quartered in it.

Tyrol is divided into six quarters, as they are called; namely those of the Lower and Upper Inthal, Vintsgow, Eteh, Eisack, and Pusterthal.

Trent, a city of Germany, and capital of the bishopric of that name, is a very antient place, and stands in a fertile and pleasant plain, in the midst of the bigh mountains of the Alps. The river Adige washes its walls, and creeping for some time among the bills, runs swiftly into Italy. Trent has three considerable churches, the principal of which is the cathedral : this is a regular piece of architecture. The church of St. Maria Major is all of red and white marble; and is remarkable for being the place where the famous council of Trent was held, whose decisions are now the standing rule of the Romish church. East longitude $11^{\circ} 5^{\prime}$, north latitude $45^{\circ} 10$.

Suabia, a circle of Germany, bounded on the north by the circle of Franconia and that of the Lower Rhine; on the west by the circle of the Lower Rhine and Alsace; on the sonth by Switzerland ; and on the east by the circle of Bararia. Of all the circles of the empire Suabia is the most divided; it contains four ecclesiastic and 13 lay principalities, 19 independent prelacies and abbeys, 26 earidoms and loniships, and $\$ 1$ free cities. The prime directors of the circle, as they are termed, are the bishop of Constance and the duke of Wurtemberg. The duke bas the sole direction of all that relates to war.

The mixture of the various forms of government and religious sects ; the oppression exercised by the great on the poor; the game constantly played by the emperok, who possesses many pieces of detached country in Suahia, which depend not on the circle, and can, in consequence of his privileges as archuluke of Austria, extend his possessions in it by several ways; are circumstances which give the cultivation of the country, and the character of the inhatitants, a most extraondinary cast. In several of the post towns where you stop, you see the highest degree of culivation in the midst of the most savago wildness ; a great degree of kiowledge and polish of mamers, mixed with the grossegt iggorance and augerstition; traces of liberty, under the deepest opprenaion;:

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national pride, together with tho contempt and negtect of the native country; in short. all the sucial qualities in striking contrast and ppposition to ench other. Those parts of Suabia which belong to the great potentates, such as Wertemberg, Austria, and Baden, are cenainly the most inproved. The whole of Suabia may comprehead atiewt 900 German aquare ailes, and $2,000,000$ of people. More than half of these are subjects of the three above-mentioned princes, though they are not proprictors of near wie half, of the land.
Saltzburg is an archbishonric of Cermany, in the circle of Bavaria, bounded on the east by Stinia and Upper Austria; on the west by the county of Tyrol; on the north by Hie duchy of Carimthia and the bishopric of Piseet. It is said to be about 100 ailes from east to west, and upwards of 60 from north to south. With respect to the soif, it is very mountuinous, vilding, hovever, excellent pasturage; and, in consequenee of that, abounding in cattle and horses, rumarkable for their mettle and hardiness. This country is particularly noted for tho great quantities of sait it produces, and its strong passes and castles. Here are also considerable mines of gold, silver, copper, lead, iron, aud lapis caliminari, with quarries of marble, and a matural hot bath. The principal rivers atc the Salza, the lun, the Ens, and Mucr: which, as well as the lakes and other Atreaws, are weil stored with fish. The peasants are all allowed the use of arms, and tramei to military futy. There are no nolles in the country, and most of the lands beoug to the ctergy.
Saikburg the capital of the archbidhopric of the same name, and which takes its ona from tie river Salza, on which it stands, and over which it has a bridge, is a very haubsome place, well furtified, and the resifence of the archbistiop. The housea are lugh, and ail buit of stone: the roofs are in the Italian taste, pad you may wa'k ypon them. The caste here is very strong, and is strongly garrisoned, and well provifed with provisions and warlike stores. The archbishop's palace is magnificent ; and in the area before it is a fountain. esteemed the largest and grandest in 'Germany The stables are very lofty; and the number of tiorses usually kept by the archbishop is said to he upwards of 200 . The city, of which one part stands on a steep rock, is weli buits, but the streets are narron and badly paved. Besides the above-mentioned, there are two otier stately palaces befonging to the archbishop, one of which is called Nuebau, and the other Mirabella. Tie latter of these has a rery beautifol garden; and the number of trees in the orangery is so great, that Mr. Keysar telts us, 20,000 oranges have been gathered from them in one year. The river Saka runs clase by the walls of this garden. There are a great many other fine structures in the city, pubtic and private, such as palaces, monasteries, hospitals, and churches. In the cathedral dedicated to St. Rupert, the apostie of Bavaria, and a Scotchman by birlh, all the oliars are of marble of different kinds, and one of the organs has above 3200 pipes. The whole structure is extremely handsome. It is built of free-stmae, in imitation of St. Peter's at Rome. The portico is of marble, and the whole is covered with copper. Before the portico there is a targe quadraygular place, with arches and galteries, in which is the prince's
- residence; and there is a statuc of Peter. In the middle of this place is an image of the Voz. L


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Virgin in bronze ; it is fingllit of tintumtatuthl siac: ITiere are large areas, encompassed nith handsome buidtings on both sides of the chureh. In the midale of that which is to the leff, theie is a most ruagulficent fonstain of marble, and some valuable figures of gigantic size. There is likewise af fonntain to the right, bat it is wot to be compared with the former one, and the Neptume of it makes bit a piriful figare, Ihis toun contains many more excellent buildings bad statues, which rebind one thisit the borders of Itily are iot for dif tant. The winter bud suminor ridinge ichoohs bere are poble strackeres. The university wai founded in 160 , an! crmmitted to the care of the Heaclictincs. Besides it, there are two colleges, in which the young noplewen are educatod. Eat longitude $39^{\circ}$, north latitude $47^{\circ}$. $5^{\prime}$ :
Patibber is an antient, lirite, rich, bandsome, and strong city, in Bavaris, free and imperial, with a bishop's see, whose bistiop is a prince of thie empire. It is called by the Girruans- legensburg, from the river Hogens, which ruas under a fine stone bridge, and-throws jtesif futo the Dhnube below the city; and the rivers Luber and Nab nilx with it shove tho city, The French call it Ratisbon, in infiation of the Latin ; it luth formely been subject to the 太ings of Davaria, who made it the ploce of their residence ; but it was declared free by the emperor Prederic I: which does not, however, hinder the dukes of Bavaria from dividing the toll with the citizens, according to an agrecment between thed. These princes have also the criminal jirristietion, for whielr thie magistrates of the city pry them homate. It is the very first city of the beneh of Saabia, and contoins witlin its walls five different frec states of the cmpire; namely, the bidhops. - The ubbot of St. Eumeran, the abheseses of Low and High. Munster, und the city. The inhabitints of Ratiston have the privilego not to the eited liefore other tribumals, unless for actions above 400 florins. Thie sennte is componed of 17 mernbers, and there is a council of 10 , which is eharged with the goverument of the state. The citizens have a right to elect a chicf, who jadges of the affairs of police. The catholics have the excrcise of their religion in the cathedral church, and others, and the Lothorans in throe clurcties, which they have bailt. The magistrates and offices of the city aro all protestarits ; and it is to be remarked, that alithough there are about $2 \rho$ eatholic churches, yot there are a very few catholic citizens, the magistracy not allowing the freedon of the town to be given to catholies living there. As this city is large, elogant, and fuff of imgraificent hooses, it hais been chosen many years for thie plice of holding the dier, upon aecount of the convenieney, to many neightouring princes and states, of sending tifie provisions by land and water, withnat great expence. The town-tiouse, in the Lall of which the diet meets, is extremely magniticent: In the yciry 17 10, however, ubien tifere was a war in Germany, the diet met at Frankfort oir thie Muine, tif atrer thic death of the emperor Charles V1I. Provisions are very plentiful sot Ratiston in time of peace. The fintabitants have a good deal of trante, thie river on which it stands being navigabte, und communiciting with a great part of Germany. It is 55 miftes suthecast of Nureabierg, 62 north of Manich, and $195^{\circ}$ west of Vienoa, Eavt Fougitute $12^{\circ}$ ?, Burth latifute, $48^{\prime \prime} 59^{\prime}$.
Bobemia is sulyjeet to thie hoesc of Austry, and surrounded on evety side with thoods
and wountains ng bilf a miatahal ramptrt. It ts boytitied ou the cast by Moratht mnt port of Silesia; on the nonth by Lasace and Upper Saxony ; on the west by Francoria; and on the south by Bavaria. Althought this kingdom, is situated oin the middle of Gerwany, trid its king is an clector of the cmpire, it has, severtheless, its particular assentblie, custoins, and lauguage, different from the Girmans. It is one of the most elovitcd countries of Eucope; for fio rivers enter into it, though many have their source there ; the chitef of wlich are the Elbe, the Oder, the Vistula, and the Morava, The aur is cold ard unshalesome; for they have more cpidemical diseases than in the neight bouring countrieg. There are mines of bitver, copper, lead, and even somie veins of gold. The copitat city is Prugue ; the others are Guttenburg, Konigengretz, Pilsen, Czostav, Duikeys, Egm, Gifitz, Tatior, and a great fumber of others: for they reckof anore thian 100 citier, ainong which altuost 40 inave the title of Royal.

Prague, a city of Botionin, and cupital of tho whole ikigdom, is situated in $14^{\circ} 40^{\circ}$ cast tongitade, $50^{\circ} 5^{\circ}$ ot aorth latitude. It stands on boths sides the Motaku, over which there is a bridge 700 feet long, Zuith of large freestone. The river, though cf griat treadth here, is tevertlieless bhallow, tind tarit navigable. On both sides the bridge are several btatues, and among others that of St. Joha of Nepornuek, whom king Wensel caused to be tlirouth froin the brigge into theriver, for ventiting to reprove hinn topon some occasfon; but in 1790, he was canonized as a saint, and is at present beld In such veneration in Bohernia, that aft other saints seem on his account to be forgotten. Near the bridge, which stads at the upper part of the city, the number of people is sery great ; but the furttier you go from thence, the niore desolyte you find esery place. The city isabout thiree miles long, and two broad; the number of its Christian julabilatits is soid to be 70,000 , and of Jews about 19,000 . The principul braach of its trade condste in browing of beer. It is divided into the Old and New towns, and that called the Smill side; the former lying on the east side of the Moldav, end the later on the wiest. The whole is about 32 miles in circumference. The fortifications are not of great fmportance, as it trayy boo flanked and raked on all sides. However, the king of Prossia was not able to make timself master of it in the late war, though he almost destroyed it with his bombs, \&c: 20 hath suffered greatly by siuges, nad hath been often taken and plondered. The univanity was founded by Charles IV. in the gear 1397. In 1409, when Jolin Huss was rector of the university, there were in less thau 44,000 students; and when tie enperor Charles V, would have retrenched their privileges, 24,000 are said to have feft it in one: week, and 16,000 in a short time after. The Jews lave the trade of this city aluost entirely in thier oun trands. They deal in all sorts of comunodities, especially the precious stones found in the Bohemian mines ; and, by receiving all old fastioned things in payuient, quite ruin the Coristian handierafts-men. In the year 1744, they narrowly escaped betag expelled the kingdom, having bien suspocted of corresponding with the Prussiuns, when they made themselves masters of the city. The grand prior of the order of Matea, for Boheuia, Moravia, and Sitesia, resides here: and the church and .hospital of the Holy Gltost is the seat of the general and grand matters of the holy order - of kanghits of the cross with the red star, residing in thie ubbvo-meationed countsies, , and
in Poland and Hungary. The houses of this city are alf beritit of stone, and generally consist of threc stories ; but there are very few good buildiogs is it, and almost every ove looks dirty. The cathedrat, which is dedicated to St. Veit, is an oll haikline in whirk there are soare pieces of excellent arclitecture, otad nany magnificent tounhs of ereat men. There are 100 chlurches and chupels, and ubout 40 cloisters in the place. On Ratschin-hill, in Upper Pragae, most of the nobility have houses, and the eimperor a wory magoificent patice, and a summer-house, commanding one of the finest prospects In the world. Hero the tribaals of the restury meet; and the thalls, galleries, and other apartoents, are adoriced with a multitode of nuble pictures. The great hatl, Where the coronation feast is kept, is srid to -be the largest of the kind in Earope, hest to that of Westaisster: The caste stands on the above-mentioned moumain, cifled Ratschin or the White Monitain, and is verymtreng Eiow a widow of this cutle the emperor's counscliors were thionon, in 1618 ; but though they dell trum a grout beighte yet they wero not kiiled, yor iadeed muth huwt. On the same movitain stindh alioo the archiepiscopal palace. In tlie new torn is an arsenal, and a religiows foundation tor ladies, called the Free Temporal English Poundation, over wiich an abbess piesides. In the lesser side or tosn, the counts Colloreds and Wallenstein have their magnificeat palaces and gardens. The stables of the later are very grand; the racks being of steel, and the mangers of marble, and a marble pillar between each tiene ; over ench horse also is placeit bis picture, as big ns life. Thougb the inhabitante of Prague in genemal are poor, and their shops but nacauly fumished, yet, it is said, there are few cities whepe the nobility and gentry are more wealify, and live in greater state. Here is much gaming, masquerading, fea ting, anil very -glendid publie balls, with anl Italian opera, and ussembilies io the bouses of the quality every niffit. On the White Mountrin, near the tawa, was fought the batte in which the protestants, with the elector Palatise, Fres derie their king, vere diffeated. The lustres and drinking glasses made bere of Bolic. mion eryatat are much esteemed, and vended all over Earope. These cryants are atio polisigel by the Jews, and set in rings difependants, and shirt-buttoas. The chicf bunal conists of 18 stadtholdirs, at the head of whom is the geent burgane, governor of the kingdom and city, humediately under the emperor and chancery of Bopenia. Thought the city of Prakue is vay ill built, it is pleasaitly situated, and some of the prosprets are beautifal, and the gandens and pleastry houses are excellent - The people, Reisbeck informs us, enjoy seusual pleastres more than those of Vienus, because they know better how to connect mental cojoyments with them. The numerous garrison kept in the place $(9,000 \mathrm{wen})$ contribute much to its gaiety and fivecliness.

## IIUNGARY.

Hungary is a kingdom of Europe, the greatest part of which was antiently called Pannonia. It bat the name of Hangary from the Hins, a Scythian or lartar nation, who subdied it in the ninth centory. It lies between $18^{\circ}$ and $22^{\circ}$ of E. Lovig and tot theen $45^{\circ}$ and $49^{\circ}$ of N. Lat. being bounded to the north by the Carpathian mountains.
*which separate it from Poland ; to the sonth by Servia and the river Drave, which separates it from Sclavonia ; to the west by Moravia, Austria, and Stiria; and to-the cost by Walachia and Transylvania. It is about 940 miles in lenth, and 235 in breadth; and is divided into the Upper and Lower Hungary, the former being that part which lies towards the east, and the latter which lies towards the west.

The northern parts of the kingdom are mountainous and barren, bot bealthy; the soughern, on the contrary, are level, and exceeding fruitful, but hot very healthy. The country along the Danube, from Presburg to Belgrade, for upwards of $2 \rho 0$ miles, is one continued plain, and no soil can be more fertile ; but the air, by reason of the many swamps and morasses, is not so wholesome as on the higher and drier grounds. Here are mines of gold, silver, copper, iron, lead, quicksilver, cimnabar, antimony, yellow opiment, solphur, vitriol, marcasite, salt native and factitious, saltpetre, magnets, asbestos or stone flax, marble of several colours, alabaster, with diamonds, and all sorts of precious stones. Corn is in such plenty, that it is sold for one sixth of its price in England. Their grapes are large and luscious; and their wines preferred to any in Europe. They have vast numbers of cattle and horses, the latter mostly mousecoloured, with buffaloes, deer, wild-fowl, game, and fish, and many species of wild beasts, particularly chamois, goats, bears, and lynxes. Of vegetables, besides vines, and the common sarts, here are tobacco, saffrom, buck-wheat, millet, melons, and chesnuts. Here also are excellent warm baths, and springs of various kinds and qualities. The chief mountains of Hlungary are the Crapack or Carpathian, which is the general name for all those that separate this kingdom from Poland, Moravia, Silesid, and some parts of Austria; the sides of most of them are covered with wood, and their tops with snow. The chief rivers are the Danube, the Drave, the Save, the Wag or Wang, the Gran, the Temes, the Kuab, and Thesis, all well stocked with fish. Tbere are several lakes amoag the Carpathian mountains, and some also in the low lands.

The inhabitants are a nixture of the descendants of the antient Huns, Selavonians, Camani, Germans, Wnlaclians, Greeks, Jens, Thrks, and a wandering people called Zigduns, said to be of uncertain origin, but probably the same as those we call gypsies. The Hungarians are said to be of a sanguine choleric temper, and somewhat ficree, cruel, proud, and revengeful. They have been always reputed good soldiers, being much more inclined to arms, martial exercises, and hanting, than to arts, learning, trade, or agriculture. The nobility affect great pomp and magniticence, and are touch addicted to feasting and carousing. The men in graeral are strong and well proportioned. They shave thei beards, but leave wiskers on the upper lip; wearing fur caps on their heads, a close bodied coat girt with a sanh, with a short cloak or manate over all, so contrived as to be buckled under the arm, and leave the right hand at liberty. Their borse are called bussars, and their foot heydukes. The former wear a broad sword, or seymeter, and carry a hatchet or battle-axe. Their horses are fleet, bat not near so large as the Geranan horses, und therefore they stand up on the short stirrips when they strike. '1 he heydakes usually wear feathers in their caps, according to the number - of the enemy they pretend to have killed. Hoth horse and foot are an excellecut militia,
very good at pursuit, or ravaging and plundering a country, but not equal to regular troops in a pitched battle. Tho wowen, when they go abroad, wear short cloaks and a veil.

There are four langoages spoken in this country ; viz. the Hungarian, which, like the people, is of Scythian origin, and has little or no affinity with any European tongue; the German, Sclavontan or Walachian, and latin. The last is spoken, not only by the better sort; but also thy the common people, though very corrupily. The people called. Zigduns have also a particular jargon.

Cbristianity was planted in Hangary in the ninth and tenth centories. In the 16th, the lieformation made great progress in it; but at present, though the Roman catholics hardly make a fourth part of the inhabitants, their religion is predominant; the protestants enjoying only a bare toleration. Besides several sects of pitotestants, here are also a great number of the Greck chorch and Jews ; the last pay double taxes of all kinds. Besides Jesuit's colleges, and other convents, there are several universities for the Roman catholics. The Lutherans alsn and Calvinists have their gymnasiums and schools, but under divers restrictions.

As to the traffic of this country, it is almost wholly in the hands of the Greeks and Jews. The exports consist chiefly of wine, borses, cattle, metals, ainerals, saffron, wool, and leather. Hungary in particular, furnishes Austria, and other countries west of it, with vast droves of cattle, as well as of a variety of wines, of which those of Tockay are reckoned the best. The principal manufactures are those of copper, brars, iron, and other hardwares. Great quantities of brass and iron are exported, wrought and unwrought.

Hungary at first, like all other countries, was divided into many little principalities and states, which at length were united under one head, who had the title of duke. The last of these dukes was Geysa; who, becoming a proselyte to Cluristianity, was baptized; after which the resigned his government to bis son Stephen, who took the title of king, anno 1000. Bat as the throne was filled by election, though generally out of the same family, the disposal of the crown was disputed between the Turkish and German emperors for near 200 years : but after the year 1597, when Ferdinand, archbishop of Austria, was advanced to the throne, the Austrians found means to influence the electors in such a manner, as to keep the crown in their family till 1687 , when it was settled hereditarily on their heirs male; and now, in consequence of an act made by the diet at Presburg, in 1723, in case of the failure of heirs male, it is to descend to females. The states of the kibgdom consist of the prelates, the barons, the gentry, and the royal towns. To the first class belong two archbishops, about a dozen bishops, near as meny abbots and provosts, with the Paoline and Premonstratensian Jesuits. To the second the stadtholder or palatine, who represents the king ; the court-judge ; the viceruy of Dalmatia, Croatia, and Sclavonia ; the stadtholder of Transylvania ; the great treasurer, the great cop-brarer, the steward of the household, the master of the horse, the lord chamberlain, the captain of the yeomen of the graards, and the grandmarshal of the courts, who are stiled the great barons, together with the bans or counts
and barons. To the third class belong the gentry, some of whom have nolle manors, and others only tho privileges of nobles. To the fourth class belong the royal free cities, which are not subject to the counts, but held immediately of the king. The gentry aloo, who hold of the archbishops and bishops, have the same privileges as the Hungarian nobility. The comnon people are vassals to the lords, on whose lands they live, whether these lands belong to the crown, the clergy, the nobility, or gentry.

The ordinary revenue of this kingdous is said to exceed $1,006,000 \mathrm{l}$. sterling arising from the mines, daties on cattle, royal demesnes, salt-works, contribotions, custons, \&C. The fortifications and garrisons constantly maintained on the frontiers against the Turks, are a great expence to the government. Hangary can easily bring into the fivil 100,000

- men, regulars and militia; for there are 50,000 in actual pay, and the provinces furnish the other 50,000 when they are wanted.


## transylvania, sclavonia, croatia, and hungarian DALMATLA.

These countries appear under one division, for several reasons, and particularly because we have no account sufficiently exact of their extent and boundaries. The must authentic is as follows :

Transylvania belongs to the house of Austria, and is bounded on the north by the Carpathian muuntains, which divide it from Poland; on the east by Moldavia and Walachia; on the south by Walachia; and on the west by Upper and Lower Hungary. It lies between $99^{\circ}$ and $26^{\circ}$ E. Long. and $45^{\circ}$ and $48^{\circ} \mathrm{N}$. Lat. Its length is about 180 , and its breadth 190 miles; and contains nearly 14,400 square miles, surrounded on all sides by high mountains. Its produce, vegetables, and animals, are almost the same with those of Hangary. The air is wholesome and temperate; but the wiue of this country, though good, is not equal to the Hungarian. Its chief city is Hermanstadt, and its interior government still partakes greatly of the antient feudal system, being composed of many independent states and princes, who are litte more than nominally subject to the Austrians. Papists, Lutherans, Calvinists, Socinians, Arians, Greeks, Mahometans, and other sectaries, here enjoy their several religions. Transylvania is thought to add but little to the Austrian revenue, though it exports some metals and salt to Hungary. The other large places are Sageswar, Millenhack, and Newmark. All sorts of provisions are very clicap, and excellent in their kinds. Hermanstadt is a large, strong, and well built city, as are Clausenburg and Weissenburg. The seat of government is at. Hermanstadt, and the governor is assisted by a council made up of Roman catholics, Calvinsts, and Lutherans. The diet, or parliament, meet by summons, and receive the commands of the sovereign, to whom of late they have been more devoted than formerly. They have a liberty of making remonstrances and representations in case of grievances.
-Transylvania is a patrt of antient Dacia, the inhabitants of which long employed the * Roman arms before they could be subducd. It was over-run by the Goths on the do-
cline of the Roman empire, and then by the IIuns. Their descendants retain the same* military character. The population of the country is not ascestained; but if the Transylvanians can briog intoe the field, as has been asserted, 90,000 troops, the whole num-

- ber of inhabitants must be considerable. At present their unilitary force is reduced to six regiments of 1500 each; but it is well known, that, during the last two wars in which the house of Austria was engaged, the Transylvanians did great services. Hermanstadt is its only bishopric, and the Transylvanians at present seeut to trouble themselves little either about learning or religion, though the Roman catholic is the establishied church. Stephen I. king of Hungary, introduced. Christianity there about the year 1000 ; and it was afterwards governed by an Hungarian vaivod or viceroy. The various revolutions in their goverument prove their impatience under slavery; and though. the treaty of Carlowitz, in 1699, gave the sovereignty of Transylvania, as also of Selavonia, to the house of Austria, yet the natives enjoy what we may call a loyal aristocracy, which their sovereigns do not think proper to invade. In October, 1784, on account or the real or feigned oppressions of the nobility, near 16,000 assembled and committed great depredations on those whose conduct had been obnoxious to them. Severa! had their palaces burnt, and were glad to escape with their lives. The revolters were disappointed in their attempt on Clausenburg; and ofterwards offered to separate, and go bome in peace, on the terms of a geveral pardon. Lenient terms were granted them: and, with the punishment of a few, the insurrection was suppressed.


## SCLAVONIA.

Sclavonia lies between $17^{\circ}$ and $\varrho 1^{\circ}$ cast longitude, and $55^{\circ}$ and $46^{\circ}$ north latitude. It is thought to be about 200 miles in length, and 60 in breadth, and contains about 10,000 square miles. It is bounded by the Drave on the north; by the Danube on the east ; by the Save on the south; and by Stiria in Anstria on the west. The reason why Hungary, Transylvania, Selavonia, and the other nations subject to the house of Austria in those parts, contain a surprising variety of people, differing in name, language, and manners, is because liberty liere made its last stand against the Roman aras, whict, by degrees, forced the remains of the different nations they had conquered into those quarters. The thickness of the woods, the rapidity of the rivers, and the strength of the country favoured their resistance; and their descendants, notwithstanding the porrer of the Turks, the Austrians, the Hangariaus, and the Poles, still retain the same spirit of independency. Without regarding the arrangensents made by the sovereigns, they are quiet under the government that leaves them most at liberty That they are generous as well as brave, appears from their attachasent to the house of Austria, which, till the last tno wars, never was sensible of their value and valonir : insonveh that it is well known that they preserved the pragmatic sanction, and kept the imperial crown in that family. The Sclavonians formerly so moch casployed the Roman arns, that it is thought the word slave took its origin from them, on account of the great numbers of them who were carried into bondage, so late as the reiga of Charlemagne. Though

Solavonia yield , thither in beanty nor fertility to Hungory and Transylvania, as yot the raviges of war mre still viable in the face of the couptry, which lies in a great mear sure unioproved. The Sclavonians are zeatous Itaman eathotics, though Greeka and Jeva are foluraterh. Here me meet with tivo bishoprion; that of Pcregn, which is the cepitat of the country : and Zagrab, which fies on the Drave; bot we hoow of no upivenitics. Essock is in larie and stronit $\quad 104 \mathrm{n}$, rewarkable, as before noticed, for a wooden hridge over the Drave, and adjuining mansliet, fivo aties long and is paces liroad, built by tho Turk\% Waradin and Peterwaradin are places noted in the wars titiveen the Austrans athit tios Turks. The fithtitunts are composed of Scrytans, Rivizians, Croats, Waluchions, Gertnuns, Hungrians, ami a vast number of other
 thic mititary miuter roths, when thiey fomed their troops into the fiedd, daring the tast two wars. In 1746, Sclavonia was united to Ifungiry, nut the states send representatives to the diet of Hangary.

## CROATEA.

Croating lies between $15^{\circ}$ and $17^{\circ}$ east longitude, and $45^{\circ}$ and $47^{\circ}$ north lotitude. It is80 uiles in lenget and 70 in treadth, ond contains about 2500 square miles. The manaers. goverament, religion, lapgoage, and customs, of the Croats, are similar to thaze of the Sctavonims and Transytvanians, who are thicir neighbuys. They are excelfria irrgutar troops, and, is such, are famed in modera histary, under the name of Pandours, and various other desiznations. The truth is, the liouse of Austia fords - its interest it suffering them and the neightooring oatians to live in their own manner.
 daries. Carnlapdt is a place of some note, bat Zagrab, alreads mentionesk, is the capital of Croitia. All the sovereignty exercied over them by the Austrians, seems to conant ia the military arrangenents for bringing thean occasionally into the fichlat a viseFoy presides over Cioithi, Johitly with Sctavonha and

## IUNGARIAN DALMAITA.

This lies in the opper part of the Adriatic sea, and consists of five districts, in which the most remurkable plices are the tivo following Segoa, which is a royal fice town; fortified both by uatire and art, and situated near the seth, in a bleals moantamons, ant buren suit. The Bi thop of this ptace is a suffrogan to the arctibtitiop of Sp, haith Heremre 1t churches and tro convents. The governor resides in the olit patare, ealled the R.agal C'uvile. Ottuschatz a foontier fortigication on the river Ciufzha. Thas part of tice fortress where the goveroor nod the greatest patt of the garrion midide, is ats rounded with a wall and some tasers; but the rest of the buildings, which ere geno. are erected on pitas in the water: so that one neighbsour cannot visit another without en

Near Segna dwell the Uicoes, a people, who, being galled by oppression, escoped, out of Dalmatia, from shence they obtalned the name of Useocs, from the ward Seoco, which sigaifies a deserter, They are also called springers, or leapors, from, the pgility with which they leap, father than walk, along this rugged and mopntainous countrys Some of them five in scattered houses, and other in large villages. They are a rough, savage people, large bodied, courageous, and given to rapiae; but their visible employment is grazing. They use the Walactrian language, and in their religious sentiments and mode of torsthip approach nearest to the Greck church; but some of them are Roman catholics.

A part of Walnelvin belongs also to the empecor as well as to tha Torls. It lieg to the east of Transylvauia, and its principal towns are Tregohits, Buchasert, and Severin.

## SILESIA.

Silcsin is a ducny of Germany, oounded on the east by Poland; on the west by Ben hemia and Lower Lusatia; on the sooth by a chain of mountains and a thicket of coirsiderable extent, which separates it from Hungary; and to the porth by the marquisale of Draudcuburg and Poland. From north-west to south-east it is nbout 974 mites nad about 100 where broadent; but it is much contracted at both ends. Upan the frontiors of this country, to the west and south, are very high-mountains, and zonie likewise in other parts of it. One of the ridges upon the frontiers is stiled the Kiphacan mountains, amother the Moravian, another the Dohembian, and another the that garian, Erapach, or Carpathian. A branch of the Ahotemian is eaticet the Giant moointains. The winter on these billy tracts is more severe, sets in sooper, and last tonger than in the low lands. The inhabitants use a kind of skaits when the stown 73 deap, as they do in Carniola. Little or no grain is raised in the mountains and gome sandy triets ; but the reat of the country is abumdantly fruitful, not only in grain, but fruits, roots, pastures, fix, hops, madder, tobacco, and hemp; yielting afso wine, with cousideruble quantities of silk and hoacy. In many places are great rourls of pines, fir, becch, lareh, and other trecs; affordiag tar, [ilteb, rosin, turpentine, lampblack, und timber for ail uses. In this country is also found marble of several sorts. some precious stones, lime-stone, mill-stone, pit-coal, tur, vitriol, sames siver ore, copper, lead, iron, and mineral spring. Great numbers of black catte and horsed are brought hither from Poland and Hangary for salo, thaso bred in the onuntry aot being sulficient; but of sheep, goats, game, and venison, they have great plenty, is for wild beasts, here are fynxes, foxes, weascls, otters, mid benvers, The pivers, lakef, und ponds, yield fith of soveral sorts, purticularly sturgcons, several als in Jength, aud Eafmon. Desides a number of smallse streams to water this country, there is the Oder, which traverses it almost from one end to the other ; and the Vistula, which, atter a pretty long course through it, enters Poland. The number of the cities and market towns ie said to be about 200, the rounty of Glatz includej, and that of the villages 5000 :

Thic lillabltants, whio are computed to be apout $1,500,000$, are a mixture of Germans, Pules, and Moravians. The languaze generally spoken is German; but in some places thie vulgar tongue is a dialect of the Sclavanic. The states consist of the priaces and dukes, And those called state-lords, with the noblity vob are innedlately subject to the sovereigo, end the represenfatives of the chief cities; but sioce fhe country fell under the duminion of the king of Prussia, no dicts have been held. The king, however, When he took possession of the country, confirmed all the other privileges of the inhabitants. With respect to refigion, not only prutestants, bot papists, Jews, and Greeks, enjog full liberty of conscience. The greatest part of Silesia lies io the diocese of Bresther, but some part of it in the Pollhb dioceses of Posen and Cracow. The bishep of Breslair stands innmediately under the pope with regard to'spiritualo; but all ecelesiastical benefices, not excepting the see of Breslaw, are in the king's gift. Besides fatin scbools, colfeges, and seminaries, at Breslaw is an university, and at Lignitz an acadeny for mâtial exercises. The priacipal manufictures hene are woollens, linens, and cotlons of several sorts, with hats, glass-ware, gumpowder, and iron manufectures. Of thicse thore is a considerable exportation, Accounts are generally kept fo rix-dollars, silver groschens, and ducats.
Whth respect to ite revolutions and present goverament, it was long a part of the kingdom of Poland; afterwards it had several dukes and petty princes for its sovereigns, Who by degrees became subject to the kings of Bobemia, until at last king Charles IV: fircorporated the whofe dachy with Bolienia; ind thus it continued in the posiession of the house of Austris, uatil the king of Prussia, in 1742 taking advantage of the trouhile that engued upon the death of the emperor Clarles VI. and pretendiag a kind of elaim, wrested a great part of it, together with the county of Ghats, from his dutisher and heiress, Maria Theresa, the late empress-dowager; so that now only a small part of it is possessed by the house of Austria, and comnected with the empire, the rest being governed by the king of Prussia, without acknowledging aiy sort of dependence on the crowa of Bohenfa or the empire. For the adminftration of justice in all eivil, criminal, and feudaf cases, and such as relate to the revente, the king of Prussia has cstabhished three supreme judieatories, to which an appeal lies from all the inferibr ones, and from Which, when the sum exceeds 500 rix-doltars, canses nay be moved to Berlin.
The Lutheran churches and schools are under the inspection of the upper consistories, and those of the papists onder that of the bishop's court at Breshaw; but from both an appeat ties to the tribunal at Berlin. As to the revenue, the excise here is levied orily oif the walled towns, being on the same footing as in the marquiste of Brandenbars; bot in the rest of the country the contribotions are fixed, and the same both in peace sid war. The severaf branches of the revenue nre under thie mangement of the war and domain*effeers of Brestaw and Glogno. The whole reverue arising to the king of Prussia from Sifesia and the county of Glatz, aniounts to aboat 4,000,000 of rix-tollere per annesm.
"Silesin is divided inţo Upper and Lower, and cact" of these ngoin into princigalifiee - And Iordatips; of some of which both the property and jurisdiction belong immediately
fo the sovereign, but of others to lik subjects and vissals. In regard to the clearaettr of the people, the boore are sccounted very dult and stupid; but of, thase of a highier rank, miny have distingulibed tifemselves by their wit and learaing, as well as by thoir military and political talents: However, in general, like their neighbours, the Gicruans aild Boliemians, they have more of Mars than Mercury in their compositign, ald their, parts are more solid than-shining.

## PRUSSIA.

The juincipal divisions of which the Prussian monarchy is composed, are Ducal, noer Regai Prussia, situated in Poland; Brandentarg. Prussian Pomerania, and Sireilist Pomernina, in Upper Soxony; Magdeborg and Hatberstadt, in Lower Saxony; Glats
 of 'Westplalia ; East Friesland, Lippe, Gultek, and Tacklenburg in The circle of Weitplialia; the margraviate of Aospach, in the circle of Fraticonia; Gelder. in the Netherffrats; Neofeliatal; in Sifitzerland; and part of Sttesia, and the countrios hately wreted-from Poland.

In countries so various, and distriets so dispersed, any general aceount of the pif muit be inate to many exceptions; however, upon the whole, it seems favourabld to neath. The soil is froitful in corn and other commodities, nor is the country deficient th a proportionate number of animale common to the climate, suctras horses, cous, slices deen, bears, wulves, wild boars, and foxes; and the rivers and takes are anply stordt with fish.
Tuere are not many miries in Prussia ; a few, however, are found of copper and teath, and sotue of iron. These afford materials for the employment of aftists, tut very fitule metal, in its crude state, is exparted. The principal minerals found ia this country are sulphur, alam, nitre, and lapis calatninaris. Here are soseratiquaries of stope, and some of slate ; a species-of marble has also been discovend in many of the mountains.

Seceral linds of titumen too are found bere, but tie prineipnal is ambirr, of which Prussia has been considered as the "hative conntryo/ Phis celebrated bituwen, though originatty generated in the earth, is found in plenty the the Batrie-sea, especiaily, near the sea-shore of Sudwic, where it swims on the water, dind is taken up by the nets-

Kotingsberg, the capitil of Rengal Prossin, bes a madgulfiecut patice io whicb ts hail 274 foet long, and 59 broait, nithout pillirs to suppors it, and a dandsane library. It is about five miles in circumference ; and, inclading the garriton of 19000 men, contuins 60,000 inhabitants. The town-house, the exchange, and the cathedral church. are all very fine structures. The tower of the castle is exceeding "high, fond lias 989 steps to go to the top, from whence there is a very distent prospect. There are 18 ehurches in all, of which 14 belong to the Latherans, three tr the Calvinists, and ove to the pepists. It stands on the Pregil a navigalle river, which 童解 fouin the nortewestern provinces of Poland, and here falls into the olastern extremity of the Drischs

Haj, ann, aflet of tie Baltie. No slips drawing morr thans seveì feet water cath rass tho harf andid come up to the town: so ilat lie forke vebtels ancior at Piflau, a small town of the - Baltic, whicti is the port of Konibgtherg; and the merghandize is sent in smaller vesels la this place, Its thinie is very comiderables.
Kehingtberg containsion winiversity founded by Albert of Irandenburg. According to the originat endowment, there were 40 professors: bot their nombier is nowir reduced to 16. Eieh profesor receives a salary of about 50 , per anoum, which may be increased by private lectures. In 1775, the university coutained 800 students, of whiom 200 aro ubarded and lodged at the expence of the erown. There are tiree pullio libmies in (the fowif thie royatoo miverath library, thin town litrory, and the Wallenrout litrary, so catled tecause if war given by Martien Vani Wallenrodt, in 1650.
प- Whilo weirefer the description of his Pcossinn majesty's acquistion from Poland, itt We treat of the etilef pation of that monarclyy we shith here anoex an ticcount of Dantrics as in that cily ytbe Gerianap manaers have long prevailod.
 (filteqaboverwhere it falls into the Baltic; in E. Long- $18^{\circ} 96$, N. Lat. $54^{\circ}$ 80? 'This city is famous io listory on many accounts, particularly that of its boing formerly at the
 tifol, -phpulous and ricb; its bouses genernily are five storics bight; pand many of lits
 Scots have great privileges, in consequeriev of thair gedlant slffence of the toivn, onder one of the fatuily of Dauglas, when it mas besieged by the Poless. It is said there ate uphards of, 30,000 pedlars of that nation in Poland witio travel on foot, and soine with three, foum, or five hories In the time of Kinj Charles, If, they were atbout 39,000 : in that reignt fir Joth Denham and Mr. Filligrew were sent to tole the oumber of thew, and to tax thenii by flie pall, with the king of Poland's licence: mlochs; having obtained, they trought howie $10,000 \mathrm{l}$ sterling, besides theif clanges in the journey.

Dantzic thes a five hariourf, and is atill a most' eninient cumpercial city, althongh it teens to be somenthat past is merivian ylory, which was prolably about the time that the-prefitent to Theo- wrote- this mopch erteeined Histotia eni Temporis,-wherein, unides the vear 1607, he so bighly celebrates its commerce and graudem. It is a republic, chaiming atsanall athacens territory, whout 40 unites round it, which were under tho protection of tife king and she iepublie of Poland. Its mayistracy, and the mojori'y of its inhurtitants, are Latherans; alitheught the Rouianists and Colviitits be equally tolerated inv it: It bas 26 pmristers, with mimy convents and hospitals. The inhabitants have been computed to momosit to 200.000 ; Inal later compuations fall very conviderably shurt of ditias apperius in insariumel bill of mottality, exhibited by Dr. Rusching; who tols us, thipt, in tite sean 1750 , theredied bath 1846 persons.
 mivie sas whekul $101+$ artived these in the year 1759 ; in, which year also 1288 Polish

 You. 1.

* 8 K
deemed the greatest magazine of corn in at1 Rarope, and Dantzic the greatesth port for distributing it every where: besides which, D.ntzic exports great quantitios of nival stores, and a vist varigy of other articles. Dr. Bnsching affirms, that it nppeark from antient records, as carly as the year 997. that Dantzic was a large chmmercial city, and not a villige or inconsideratile town, as some pretend. Thie latiatitants of Foute fe huve often chauged their masters, anif have sometimes been under tue frotection of the Enslish and Dutch ; bat have genernily showa a great predilection for the kingdone and repmblic of Poland, as being less likely to rivat them in their trade, or abridge them of their iumunities, which reach even to the privilege of coining money.
Thuugh strongly fortified, and massessed of 150 large brass cinnoil, it coufd not, from its situation, stand a regular siege, being sirrounded with exuincoces. In 1734, the inhabitants discovered a remarkable atachment and fidefity torards Stantifious, King of Poland, not only when lis enemics, the Russians, were at their gates, bot cven in pos: session of the city. This city was exempted by the late king of Prussin fruan those clains Which the made on tho ncighbouriug countries; nutaittistanding which, hit Ponsifa ingjezty soon ufter thought proper to seize on the territories befonging to Danizic, under pretonce of their having been formerly piart of Polish Prussia. He then proccedei to possess himseff of the port-daties betonging to thit eity, and erected as cistoinlious in the batbour, where lie laid arbitrary and insopportable dutios upot goods exported or imported. To complete the system of opprension, cunton-fiouses wero erect ed at the very gates of Dantzic, so that no peranns could go in or oat of the town writiout being searehed in the strictest manner. Such is the treatneeit which tie eity if Bantac lras received from the king of Prusfin, thouith feiv cities bave ever existed which have been comprehended in so many general and pirticular ticatics, did whose nights and liberties have been so frequently securct, and Luaranticef hy so many great poucis, and by such a long and regafar succession of public acts, as that of Dantzic lias been. In the year 1784 , it was blucknded by his troops on various pretences: but by the in terposition of the empress' of Russia and of tie king of Poland, they were witidrawn, and a compromise having taken place; the city was restored to its former fimuinities. Nevertheless, its trade has since been rather upon the decline, the merchants cioosing to zétte where their property may be more secure.

NOHTHERN EXHOVE.

## CHAPTER II.

 German Empirs.

GTIIE fint authentic infornation that we have received eoncerming thise countries Sh. is, that the Plomairians, as rarly as the dars of David, tradel to Prussic, and thence teppratelaupher. Bot of their voynges no journals reamio, rior can te tell any thing of what was the atale of these countries till we come to the time of the Romans.
The Romuns divided Germany into two regions; Belgic, or Lower Germany, which tiay tw thensuthwacd of the Rline; aud Germany Proper, of Thigh Germany. The first liy betreen the river Scine aud the Rhine ; and in this we find a number of differeat riations, the most remarkable of which were the following.

1. The Ubii, wiose territors lay between the Rhine and the Moxa or Maese, and whoso capital wns the city of Cologne. ©. Next to them were the Tungri, supposed to be theesame whon Conar calls. Ebyrones and Condrusi; and whose metropolis, thea cilied-Atuatics, his since been named Tongres, 3. Eligher up from them, and on the ether side of the Moselle, were the Treviri, whose capital was Augusta Trerioruum, How Triess. 4. Next to them were the Triboci, Nemetes, and Vangiones. Tho firmer dinelt in Alsacr, and had Argentoratum, now Strasburg, for their capita! : the others inbabited the cities of Worms, Spire, and Mentz. 5, The Mediomatrici were situateu-along the Moselle, about the city of Mentz in Lorraio ; and above them was situaled anoutber German nation, named Raurici, Raurac, or Rasriaci, and who infabited that part of Helvetia, or Switzerland, and Basil. To the westward and southHard of theve mere the Nervii, Suessones, Silvanectes, Leuci, Rhemi, Liogones, \&ce. uhio falhubited Belgic Grul.

Hetween the beads of the Rhine and Danubn was seated the antient kingdom of Vindelicia, whose cupinal was called Augusta Vi delicorum, now Augbburg. Pelow it, on thie banke of the Danube, were the king ems of Noricum and Padinonia. The first of these was divided into Noricum Ripense and Mediternacom. It contained a great pert of the provinces of Austria, Stirin, Carinthin, Tyrol, Bavaria, and some others of less note. The latter contained the kingdom of Hungary, divided into Upper and Lower : and extending from-Mlyricum io the Danube, and the mountaing Cextii in the neightiourtiood of Vindebona, now Vienna.

Upper of High Germany lay beyond the Rhine and the Davube. Between the Rhine and the Elibe were the following nations. :. Thie Chiuci, Upper and Lower, who were divided frum each other by the river Viurres, now the Weser. Their country connaided what is now colled Bremen, Lunenburg, Friczland, and Groninghen. The up-

- per Chauci had the Cherusci, and the lower the Chamavi on the soath-east, and the

German Ocean on the narth-west Q. The Frisii, Uppec and Lawor, wore, diviled from the Lower Chauci by the river Amisis, 口ow the Ems; and fram one another by an arm of the Raine. Tleir country still reatans the name of Friesland, and is divided into eust and wesf; bit the latter is now dismetubered from Germany, and become ons of the Seven' United Provinces. 3. Begond the Isela, now the Isel, which boumded the country of thic Frisii, were sitanted the Bructeri, who inhabited that traet naw called Broecmorland; and the Marsi, about the river Lappe. On the other side of that !iver were the Usipii, or Usipites ; but these were famed for often chauging their teinitorics, and therefofe foumd in other places. 4. Next to these were the Juones, on ioliabitants of Juliers, betweon thic Maese and the lhine. 5. The Catti, moitier antient and warHise pution, inhabired Ifesse and Thuringia, from the Hart-zina moubtains to the Rhine and Weser; amoing sthom were comprehended the Mattiaci, uliose, capital is by arame thouglit to bic \$thpurg ty others Pailen. 6, Next to thene wite thio Scituctio, borderIIg पyos Suatia; Noristi, or the antient inhatitants of Nortigow, mivece capital was Nuremberg; and tho Marcomanni, whose country antiently roached fiom the Rhias to thic head of the Dambe, and to the Neckar. The Mareumani-afterkards aneint and
 them in Gaul, whence they drove the Itri, shophad sented themseiven therent 7. On the other side of the Dambe, and between the Rhine amb it, wom the. Hermanduri, who possessed tid country now culled Misua, in Upper Saxony fthough some miake theio
 yond, the kingam of Bohemte, once the seat of tholloit, mheaceits name, is. Ber yondethom, on the north of the Danube, was nnuther sent of tig Mavcomianio, along the river Albis on, Fibe. 9. Next to Bohemia were situated the Quadier whoge temitorks extended truit the Dantube to Mornvis, and the tharthern purt of Autidg. Theys se compretiended-under the antient name of Suevi: patt of whom at lexgth farced they way into Spain, and setted a kiogtom there 10. Enstward of the Quadi pere sitm ted
 the Dariube, and ly the Carpathiau mountains, from them called, Aipes, Dastarnice The sonntry of the Boiterne indecd mate part of the European Barmation, and no was nithoot thic linits of Germany; properly so cafled; but we find shent pepple io foffer in teague with the Germm nimians, ainl joining theit for the desructum of the Romans, that we caunot bur account them as one people.
Betacen thise nations already taken notice of, seated atogg the onter side the Dupulip
 viz. the Muitiogi, Bani, Borades, Lygit or Lagiones, and suate others, who aro placal by our geugraplacr along the foiest above mentioned, betaect the Dauba and the Vistuia.

On thifs tide the Hercynition forest wore the famed Rtimti, now Girsoms, seated among the Alps. 'Their country, which was ato called. Weaton llyricum, was diviled firto finctia Prima or Peopria, and Scoundi ; and wan thea of much larger extuyt sppeading itseif towards Sinaila, Bavaria, and Austrias

On the other side the Hercynian fonest, were, 1. The Suevi, who spread themselves from the Vistula to the river Elbe. 2. The Longobardi, so called, according to some, on account of their wearing long beards; but, acçrding to others, on account of their consisting of two nations ; viz, the Bardi and Lingones. These dwelt along the river Elbe, and bordered southward on the Chauci above mentioned. 3. The Burguadi, of whose original seat we are uncertain. 4. The Semnones; who, about the time of Tiherius, were seated on the river Elbe. 5. The Angles, Saxons, and Goths, were probably the descendants of the Cimbri, and inhabited the pountries of Denmark, along the Baltic sea, and the peninsula of Scandinavia, containing Norway, Sweden, Lapland, and Finmark. 6. The Vandals were a Gothic nation, who, proceeding from Scandinavia, settled in the countries isow called Mecklenburgb and Brandenburgh. 7. Of the same race were the Dacians, who settled themselves in the neighbourhood of Palus Mmotis, and extended their territories along the banks of the Danube.

These were the names of the German nations who performed the most remarkable exploits in their wars with the Romans. Besides these, however, we find mention made of the Scordisci, a Thracian nation, who afterwards settled on the banks of the Danube. About the year 113 B. c. they ravaged Macedon, and cot off a whole Roman army sent against them; the general, M. Porcis Cato, grandson to Cato the censor, being the only person who had the good fortune to make his escape. After this, they ravaged all Thessaly, and advanced to the coasts of the Adriatic ; into which, becanse it stopped their further progress, they discharged a shower of darts. By another Roman general, however, they were driven back into their own country with great slaughter ; and, soon after, Metellus so weakened them by repeated defeats, that they were incapable, for some tine, of making any more attempts on the Roman provinces. At last, in the constlship of M. Livius Drusus and L. Calpurnius Piso, the former pre* vailed on thetn to pass the Danube, which thenceforth became the boundary between the Romans and them. Notwithstanding this, in the time of the Jugurthine war, the Scordisci repassed the Dambe on the ice every winter, and being joined by the Triballi, a people of Lower Moesia, and the Daci of Upper Meesia, penetrated as far as Maccdon, making every where dreadful ravages. So early did these northern nations begin to be formidable to the Romans, even when they were most renowned for warlike exploits.

Till the time of Juhius Cabsar, however, we hear nothing more concrrning thedGermass. About 58 years B) $O$ he undertook his expedition into Gaul ; during which, bis assistance was inplored by the Aelui, against Ariovisths, a Gerinan prince, who oppressed them. (ear, plewsed with the oprortunity of increasing his power, invited Arnvistus to an imerview ; bit thas lieing declined, he next sent depoties, desiring him to restore the hostnges lie had taken fram the Aitai, and to bring no more troops oven the Renue into Gaol. To this a hauglity answer was returned; and a batle soon aften enened, in which Ariovthus was entirely defeated, and with great difficulty made hio "escape.

In 55 B. C. Cersar, having subdued the Suessiones, Bellovaci, Ambigni, Nervii, Vol. 1 . SL

## NORTHERN EUROPE

and other nations of Belgic Claul, hastened to oppose the Usipetes and Tencteri. These nations having been driven out of their own country by the Suevi, had crossed the Rhine, with a design to settle if Gaul. As soon as he appeared, the Germans sent him a deputation, offering to join him, provided be culd assign them lands. Cresar replied, that there was se room in Gaul for them ; but he would desire the Ubii to give them leave to settle among them. Upon this, they desired time to treat with the Ubii ; but, in the mean time, fell ©pon some Roman squadrons; which so provoked Cossar, that he immediately, marched against them, and coming unexpectedly apon them, defeated them with great slaughter. They fled in the utaost coufusion, but the Komans porsuad them to the conflux of the Raine and the Maese, where the slaughter was renewed with such fury, that alonost 400,000 of the Germans perished.

After this, Cossar being resolved to spread the terror of the Roman name through Germany, built a bridge over the Rhine, and entered that country, In this expedition, however, which was bis last in Germany, he performed no remarkable exploit. A little before his death, indeed, he bad projected the conquest of that, as well as of a great many other conntries; but his assassination prevented the execution of his designs. Nor is there any thing recorded of the Germans, till almost 17 n . C. when the Tencteri made an irruption into Gaul, and defeated M. Lollios, proconsul of that province. At last, however, they were repulsed, and forced to retire, with great loss, beyond the Rbine.

Soon after this, the Rhæti invaded Italy, where they committed the greatest devastations, putting all the males they met to the sword, without distinction of age : nay, we are told, that when they happened to take women with child, they consulted their augurs, to know-whether the child was a male or female; and if they pronounced it a male, the mother was immediately massacred. Against these barbarians was sent Diusus, the secoud son of Livia, a youth of extraordinarg valour and great accomplishments. He foand means to bring them to a battle; it which the Ramans proved victorious, and cut in pieces great numbers of their enemies, with very little loss on their own side. Those who escaped the general slaugbter, being joined by the Vindelici, took their rout towards Gaul, with a design to invade that province. Dut Augustus, upon the first notice of their march, dispatched agaiust them Tiberius, with several cliosen legions. He was no less successful than Drusus had been; for, havmg transported his troops over the lake Bugautium, now Constance, be fell unexpectedly on the enemy, gave themes total overthrow, took most of their strong bulds, and obliged the whole nation to submit to such terms as he chose to impose upon them. Thus were the Vindelici, the Rizeti, and Norici, three of the most barbarous nations in Germany, subdued. Tiberius, to keep the conquered conntries in awe, planted two colonies in Viurlelicia, and opened from thence a road into Rhatia and Noricum. One of the cities which be built for the defence of his colonies, he calied, from his father Drusus, Druso Magus; the other hy the name of Augustus, Augusta Vindelicorum ; which cities are now known by the names of Mimminghen and Augsburg. Ho next encountered the Pannonians, who liwd been sulpdued by Agrippa, but revolted on hearing the news of that great commander's * death, which happened 11 years 8. c. Tiberius, however, with the assistance of their
neighbours, the Scordisei, soon forced them to submit. They delivered up their arms, gave hostages, and pit the Romans in possession of all their towns and strong holds. Tikerius spared their lives; but laid waste their fields, plundeged their cities, and sent the best part of their joutp into other countries.

In the mean time, Drusus, having prevented the Gauls from revolting, which they were ready to do, prepared to oppose the Germans, who dwelt beyond the Rhine. They had.cullected the most numerous and formidable army that had Ever been seen in those parts ; with which they were advancing towards the Rline, in order to invado Gaul. Drusus defeated them as they attempted to cross that river; and, pursuing the advantage he had gnimed, entered the country of the Usipetes, now IRelinchusen, and from thence advanced against the Sicambri, in the neighthourhood of the Lyppe and Issel. Them he overthrew in a great battle, laid waste theis country, burnt most of their cities, and following the course of the Rhine, approaclied the Germun ocean, reducing tho Frisii and the Chauci, between the Ems and the Elbe. In these marches the troops suffered extremely for want of provisions : and Drusus himself was often in great danger of being drowned, as the Romans who attended bim were at that time quite unaequainted with the flux and reflux of the ocean.

The Rowan lurces went into East Friesland for their winter quarters; and next year, 10 a. C. Driens maretied against the Tencteri, whom he easily subdued. Afterwards, passing the Lupias, now the Lippe, he reduced the Catti and Cherusci, extending bis conquests to the banks of the Visurgis or Weser; which he would have passed, had he not been in want of provisions, the enemy having laid waste the country to a consider able distance. As he uas retiring, the Germans uneapectedly fell upon lim in a narrow passage; and having surrounded the Roman arny, cut a great many of them in pieccs. But Drusus, having animated his men by his example, after a bloody conflict, which lasted the whole day, the Germans were defeated with such slaughter, that the ground was strewed for several miles with dead bodies. Drusus found in their camp a great quantity of iron chains, which they had brought for the Romans; and so great was their confidence, that they bad agreed beforehand about the division of the booty. The Tencteri were to have the horse, the Cherusci and Sicambri the baggage, and the Us'petes and Catti the captives.

Atter this victury, Drusus built two forts, to keep the conquered countries in awe: the one at the conflucnce of the Lyppe and the Alme, the other in the country of the Catti un the Rhine. On this occasion also he made a famous canal, ong after called, io honour of bim, Fossa Drussiana, to convey the waters of the Rtine into the Sala or Sale. It extended eight miles; and was very convenient for conveying the Roman troops by water to the countries of the Frisii and Chauci, which was the design of the underiaking.

Tie following year, 9 B . c. Augustus, bent on subduing the whole of Germany, advanced to the banks of the Rhine, attended by his two sons-in-law, Tiberias and Drusys. The former be sent against the Daci, who lived up to the south of the Danulie;

- and the latter to complete the conquests he had so saccessfully begun in the western parts of Germany. The former easily overcame the Daci, and transplanted 40,000 of thern
sato Gaul. 'The latter, having passed the Rhine, subdued all the nations from that river to the Elbe; but having attempted in vain to cross this lasf, he set out for Rome: an end, bowever, was pif to his conquests and bis life, by a violent fever, with which he was seized on his return.

After the death of Drusus, Tiberius again over-ran all those countries in which Drasus bad spent the preceding summer; and struck some of the northern nations with sucit terror, that they sent deputies to sue for peace. This, however, they could not.oistain upon any terms ; the emperor declaring that be would not conclude a peace with one, uuless they all desired it. But the Catti, or, according to some, the Sicambri, coutd not by any means be prevailed upon to submit ; so that the war was still carried on, though in a languid manner, for about 18 years. During this period, some of the German nations had quitted their forests, and begun to live in a civilized manner, under the protection of the Romans, but one Quintilius Varus being sent to command the Roman forces in that country, so provoked the inhabitants by bis extortions, that not only those who still held out refused to submit, but even the nations that had submitted were seized with an eager desire of throwing off the yoke. Among them was a young nobleman, of extraordinary parts and vabour, named Arminius. He was the son of Siginer, one of the most powerful lords among the Catti, had served with great reputation in the Romau armies, and been honoured by Augustus with the privileges of a Roman citizen and the title of knight. But the love of his country prevailing over his gratitude, he resolved to improve the general discontent which reigned among his countrymen, to deliver them from the bondage of a foreign dominion. With this view, he engaged, underband, the loading men of all the nations between the Rtine and the Elbe, in a conspiracy against the Romans. In order to put Varus off his guard, he at the same time advised him to show himself to the inhabitants of the more distant provinces, administer justice among them, and accustom them, by his example, to live after the Roman manner, which he said would more effectually, subdue them than the Roman swords. As Varus was a man of a peaceable temper, and averse from military toils, be readily consented to this-insidious proposal ; and, leaving the neighbourhood of the Rhine, marched into the country of the Clierusci. Having there spent some time in hearing causes and deciding civil controversies, Arminius persuarled him to weaken his) army, by sending out detachments to clear the country of robbers. When this was done, some distant nations in Germany rose up in arms, by Arminias's directions ; whila those through which Varus was to pass in marebing against them, pretended' to be in a state of profound tranquillity, and ready to joia the Romans, against their enemies.

On the first news of the revolt, Varns marched against the enemy, with three legions and six cohorts; but being attacked by the Germans ns he passed through as woort, his arny was almost totally cut off, while be himself and most of his officers fell by their own hunds. Such a terriblg overthrow, though it raised a. general consternation in Rome, did not, however, djshearten Augastus, or cause bim to abandun his enters prise.

Aboat 'two years after, A. Di. 12, Tiberius abd Gernaanicus were appointed to.
command in Germany. The ceath of Augnatus, however, wtich happened soon after, preventel Tiberius from goling on his expedition ; and Gernanigus was for some time thindered from proceeding in this, by a revolt of the Tegions, tirstein Pammonis, and then in Germaoy. About the year 13. Gerananicus, having brought over the suldiers to their doty, laid a bridge across the Hhine, over which he marched 12,000 legionaries, 26 cohurts of the alfics, and cight ale (squadrons of 500 each) of harse. With these he firstetraverved the Coesian forest (part of the Hercynian, and thought to Ho partly ia the doctiy of Cleves, and partly in Westphatia), and some other woods. On bis niarch, lie rus informed that the Marsi were celelinating a festival, with great mirth and jollity. l'pon this, he advaniced with such expedition, that be surprised them in the thidst of their defanselı; and, giving his army full liberty to make what havock they plensed, a terible massacre ensucd, and the country was destroyed nitb fire and sword for 30 miles round, withont the loss of a single man on the part of the Rounans This general massacre roused the Bructeri, the Tubantes, and the Usipetes; ; who, besetting the passes through which the Roman aruy was to retarn, foll ufon their rear, and put them into some disorder; bot the Romans soon recovered themselves, and deleated the Germans with considerable loss.

In the following year, A. D. 16, Germanicus, taking adyantage of some intcstine broils which happened among the Catti, entercd their country, where he put great numbers ta the suord. Most of their youth, however, escapal, by swinming over the Adrana, now the Eder, and attempted to prevent the Romans from laying a bridge over that river : but beiog di-appointed in this, some of them submitted to Germanicus, whito the greater part, abandoning their villages, took refige in the woods; so that the Romans, without "pponition, set fire to all their villages, towns, \&e. and having laid their capital in ashes, began their march back to the Rhine.

Germanicas had, carce reached his camp, athen he received a mestage from. Segestes, a Gertum prince, in the interest of the Romais, acquainting him that he was bevieged in his catup by Arninins. On this advice, he instantly marched agaiust the besiegers; entir-ly defeatrd them; and took a great number of prisouers, amoug whom was Thusneldis, the wife of Arminius, and drughter of Segestes, whom the former had corried off, and niarrical agrinat her father's will. Armimins then, more enraged than ever, for the loss of his nife, whom lie tenderly loved, stirred up all the neighbouring nations against the Itumans, Germanicus, however, without being dismayed by such a formidabe contefteracy, prepared hiuwelf to oppose the enemy with vigour; but, that be wigit not be obliged to engage such numerous forecs at ance, be detached his lientenant, Ciecina, at the head of 40 coliorts, into the territuries of the Bracteri; while bis cavalry, under the compuand of Podo, entered the country of the Frisii, As for Germanicus timself, he embarked the remainder of his amy, consisting of four legions, on a neighbouring lake ; and transponted them, by rivers and canals, to the place appointed on the siver Kms, where the three bodies m-t. In their march, they found the sad remains of the legions conducted by Varus, which they buried, with all the ceremony their circom*stances could admit. After this they advanced agoinst Arwinius, who retired, and posted

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hiftiself advantageously close to $\pi$ wood. The Roman genetal followed him ; and coming up with him, oidered his cavalry to advance and attack the enemy. Arminius, at their first approach, pretenced to fly; but suddenly whecied about, and givine the sig al 'to a body of troops; whom be had concenled in the wood, to rush out, obliged the cavalry to give ground. The cohorts then advanced to their relief; but they too were put into disonder, and would have been pushied iato a morass, had not Germanicus binself advanced, with the reat of the cavalry, to their relief. Arminias did not think it prateht to epgage these fresh troops, but retired in good order; upon which, Germanicus plso retired towards the Ems. Hero he embarked with four legions, ordered Ciecinn to recossduct the other four by land, and sent the cavaliy to the sea-side, with orders to anarch along the shore to the Rhine. Though Carcina was to return by roads well known, yet Germanicus advised lim to pass, with all possible speed, a causeway, called the long bridges, which led seross vast marshes, surrounded on all sides with woods and bills, that gently rose from the plain.

Armivius, however, laving mot notice of Cweina's march, arrived at the long bridges before Cecina, and filled the woods with his men ; who, on the approach of the Romans, rushied out, and attacked them with great fury. The legions, not able to manago their arns in the deep waters and slippery ground, were obliged to yield; and would, in all protatility, fiave been entirely defeated, lad not night pot an end to the combat. The Germans, encouraged by their success, instead of refreshing themselves with sleep, spent the whole night in diverting the courses of the springs which rose in the neighbouring mountains ; so that, before day, the camp which the Romans had begun was laid under water, and their works were overturned. Cecina was for some time at a loss what to do ; but at last resolved to attack the enemy, by day-break, and hasing driven them to their woods, to keep them there in a manner besieged, till the bagcage and trounded men should pass the causeway, and get oot of the enemy's reach. But when his army was drawn up, the legions posted on the wings, seized with a sudden panic, deserted their stations, and occupied a field beyond the marshes. Cercina thought it udvisable to follow them; but the baggage stuck in the mire, as he attempted to cross the marsbes, which greatly embarrassed the soldiers. Arminius, perceiving this, laid hold of the opportunity to begin the attack; and crying out, "This is a second Varus, the same fate attends limu and his legions," fell upon the Ramans with inexpressible fory. As he lad ordered his men to aim chielly at the lionses, great uumbers of them were kilied; and the ground beconing slippery with their blood and the slime of the marsh. the rest eitber fell or threw their rideri, and galloping through tho ranks, put tbem in disorder. Cacina distinguisped lifmself in a very eminent manner; but his horse being killed, he would have been taken prisoner, had not tho first legion rescued bin, The greediness of the enemy, however, saved the Romans from utter destruction ; for just as the legions were quite spent, and on the point of yielding the barbarians on a sudden abaadoned them, in order to seize their baguage, Dưjing this respite, the Romans struggled out of the marsh, and baving goinel the dry fields, formed a caup witu all possibie speed, and fortified it in the best manner they could.

## NORTIIPRN EUROPE.

The Germans baving last the कfportunfty of destroying the Romans, contrary to the edvice of Arminius, attacked their camp next morning, but yere repulsed with great slatughter: sfter which they gave Cereina no more molestation, tik the reactied the banks of the Rhine. Germanicus, in the mean time, having conveyod the legions he had with Lim down the river Eins into the ocean, in order to return by sea to the river Rline, and finding that his vessels were overlonded, delivered the second and 14th legions to Publius Vitellius, desiring him to conduct them by land. Dot this march proved fatal to great numbers of them ; who were cither buried in the quicksands, or stallowed up by the overflowing of the tide, to which they were as yet utter strangers. Those who oscaped, lost their arms, ntensils, and provisions ; and passed a melancholy night upon iin eminence, which they had gained by wading up to the chin. The next morning, the land returned with the tide of ebb; when Vitellius, by a basty march, reached the niver Usinges, by some thought to be the Huerenster, on which the city of Groningen stands. There Germanicus, who had reached that river with his Aleet, took the legions again on board, and conveyed them to the mouth of the Rhine, whence they all returned to Cologue, at a tiine when it was reported they were totally lost.

This expedition, however, cost the Romans very dear, and procured very few advantages. Great uumbers of men had perished; and by far the greatest part of those who escaped so many dangers, returned without arms, utensils, horsos, dec. half naked, lamed, and unfit for service. The next year, hawever, Germanicus, bent on the entire reduction of Germany, made vast preparations for another expedition. Having coasidered the various eecidents that had befallen bim during the war, he found that the Giermans were chiefly indebted for their safety to their woods and marshes, their short summers and long winters; and that his troops suffered more from their long and tedious taarches than froin the enemy. For this reason, he resolved to enter the country by sea, boping by that means to begin the campaiga earlier, and surprise the enemy. Having, thierefore, buitr, with great dispateh, during the winter, 1000 vessels of different sorts, he ordered them, early io the spring, A. D. 16, to fall down the Rhine, and appointed the jlland of the Batavians for the general rendezvous of his forees. When the fleet was sailing, he detached Silius, one of his lieutenants, with orders to make a sudden irruption into the country of the Catti; and, in the mean time, he himself, upon receiving intelligence that a Roman fort on the Lupplas was besieged, hastened with six legions to its retief, Silus whis prevented, by sudden rains, from doling more thin taking some small booty, with the wife und daughter of Arpen, king of the Catti; neither did those who besieged the fort wait the arrival of Germanicus. In tho mean time, the fieet arriing at the island of the Batavians, the provisions and warlike engines were put on board, and sent forwerd; ships were mssigned to the legions and allies; and the whole ariny being einbarked, whe tleet entercd the cenal formerly cut by Drusus, and from his name called Fossa Drosiama. Hence he sailed prosperousty to the mouth of the Enos; where having landed his troope lie marctied directly to the Weser, where he found Arminius encamped on the opposite bank, and determined to dispote his passage. The next day, Arminius drew out bis troops in order of batte; but Germanicus not thinking it ad-
visalie to attack them, ordered the horse to ford aver, uniter the commnad of his lietrtenants Stertinias and Emilius; who, to divide the enemy's furces, crossed the river in two differeut places. At the same time, Curionalda, the Jeader of the Batavian auxiliaries, crossed the jiver where it was most rapid; but, being drawn into ma ambuscade, ).e was killed, cozethor with most of the Batavian nobility : and the rest would have been totally cut off, had bot. Stertinius and Emilius basteued to their assistance. Germnnicus, in the mean time, passed the river without molestation. A buttle soon after ensued, in which the Gernans were defeated with so great a sliughter, that the ground was covered with arms and dead borlies for more than 10 wiles round: and among the spoils taken on this occasion, were foand, as formerly, the chains with which the Gernans bad boped to bind the captives.

In memory of this signal victory, Germanicus raised a mount, upon which ho placed as troplics the arms of the cheny, ond inseribed underneath the names of the conquered nations. This so provoked the Germans, thougb aiready vanquished, and deteravined to abiandon their country, that they attacked the Roman aruy unexpectedly on its march, and put them into some disorder. Being repulsed, they eacamped between a river and a large forest surrounded by a marsh, except on one side, where it was eaclused by a broad rampart, formerly raised by the Angrivarii, as a barrier boticen theni and the Cherusci. Here another battle ensued; in which the Germans behaved with great travery, but fin the end irere defeated with great slavghter?

After this second defeat, the Aogrivarii subuitted, and were taken under the protection of the Romans, and Germanicus put an end to the campaign. Some of the legions he seat to their winter quarters hy land, white he bimself embarked with the rest on the river Ems, in order fo return by sca. The ocean proved at first very calin, and the winat favourable: but all of a sudden, a storin arising, the fleet, consisting of 1000 vessels, was dispersed; some of them were swallowed up by the waves; othivs were dashed in pieces against the rocks, or driven opon remote and inhospitable istands, where the men cither perished by famine, or lived upon the flest of the dead horses, with which the shores soon uppeared strewed: fon, in order to lighten their vessels, and discogage them from the shoals, they hidd been obliged to throw over board their borses and beasts of burdea, bay, cven their arass and baggage. Most of the men, however, were saved, and even great part of their beet recovered. Some of them stere driven upon the coast of Britain; but the petty kings who reigned there generoosly sent tien buck.

On the news of this misfortune, the Catti, taking new courage ran to arus ; but Caius Silius being detached against thein, with 30,000 foot and $\$ 000$ horse, kept them in awe. Germanicus bimself, at the head of a numerous body, imado a sudien irrmption into the territories of the Marsi, where lie recosered one of Varas's cagles, and having laid waste the country, he returned to the frontiers of Germany, and put his troups into winter quarters; whence he was soon recalled by Tiberius, and never suffered to return into Germany again.

After the departure of Germanicus, the more notthern nations of Germany were no

## NORTHERN EUROPE.

mone molested by the Romans. Armmias rarried on a long and successful war with Marohoduus, king of the Marcomanni, whem be at last expelied, and forced to apply to the Romans for assistance, bat, excepting Germanicus, it, scems they had at this thane no other zeneral capable of opposing Arminias, so that Maroboduas was never restored. Atter the tinal departure of the Romans, bowever. Arminius having attempted to enslave his country, fell by the treachery of bis owin kindred. The Germans held Lis memory in great veneration; and Tacitus informs us, that in his time they still colebrited him in their songs.

Nothing remarkable vecurs in the history of Germany from this time till the reign of the emperor Claudius. A war, indeed, is suid to have been carried on by Lacias Domitius, father to the emperor Nero, Nut of his exploits we know nuthing more than that the penetrated begond the river Elhe, and led his army farther into the country than any of the Romuns had ever dlone. In the reign of Claudius, bowever, the German territories were invaded by Ca . Domitius Corhuio, one of the greatest generals of his age. Bat when be was on the point of forcing them to submit to the Roman yoke, he was recalled by Claudfus, who was jealous of the repotation he had acquired.

- In the reiga of Vespasian, a terrible revolt happened among the Batavians, and those German outions who lad subuitted to the Rommes.
The revolters were with difficulty subdued ; but, in the reign of Domitian, the Dacians invaded the empire, and proved a more terrible enemy than any of the other German nations liad beeu. After several defeats, the emperor was at last obliged to consent to pay an anuual tribute to Decehalus, king of the Dacians; which continued to the time of Trajan. But this warlike prince refused to pay the tribute; alledging, when it was demanded of him, that "he had never been conquered by Decebalos." Uponthis the Dacians pasmed tie Danube, and hegan to commit hostilities in the Roman territories. Trujan, glad of this opportunity to humble an enemy whom he began to fear, drew together a mighty army, and marched with the utinost expedition to the banks of the Danube. As I ecetalus was not apprised of his arrival, the emperor passed the river without opposition, and, entering Dacia, laid waste the country with fire and sword At last he was met by Decebalus, uith a numerous aruny. A bloody engagement ensued, in which the Dacians were defeated, though the victory cost the Romass dear: the sounded were so numerous, that they wanted linen to bind up their wounds; and to supply the defect, the emperor generonsly devoted his own wardrobe. After the vietocy, be pursued Decebalus from place to place, and at hast obliged biin to consent to a peace on the following terms. 1. That he should surrender the territories which lie had unjustly taken from the neighbouring nations, \&. That he should deliver up his arus, his warlike engincs, with the artificers who made them, and all the Roman deserters. 3. That for the tuture, he should entertain no deserters, nor take into his service the natives of any country sutject to Rome. 4. That he should dismantle all his fortrenses, eastles, and strong holds. And lastly, that he should have the same friends and foes with the people of Roure.
. With these bard terms Decebalus was obliged to comply, thoogh sore, agpinst his VoL. 1.
*ill; and being intraduced to Trajan, threw himself on the ground before him, ackunartedging lumself his va*al; after which, the latter, having comonanded bian to sçud deputies to the seaste for the ratification of the prace, retorned to Ronee.

This peace was of no long duration. Four years afer, A. D. 105, Decelalus, uny tble to live in servitude, began fo raise men, provine arms, entertain deserters, fortify his castles, aud invitce the peighbouring mations to join him against the Romans, as a common enemy. The Scythons bearkened io his solicitations; but the Jazyges, at neigifouring pation, refosing to bear arons against the Rorians, Decebalus invaded their country. Hereapon Trajan marched ugaiast him; but the Dacian, finding hifu-1 self unatle to withstand him with open force, had recourse to treachery, and attemptcid to get the emperor murdered. His design, however, proved abortive; and Trajap pursued lis asarcb into Dacia. That his trops might the more readily pass and re-: pass the Danube, lie buitt a bridge over that river; which, by the antients, is stiled tho? most magnificent and wonderfol of all his works. To guard the bridge, he ordered two castles to be buift; one on this side the Danube, and the other on the opposite side; and att this was accomplished io the space of one summer. Trujan, howover, as thied season was now far advanced, did not think it advisable to enter Dacia this year, but contented binself with making the necessarv preparations.

In the year 106, early in the spring, Trajan set out for Dacia; and having passed. the Danabe, on the bridge he had built, reduced the whole country, and would have taken Decebalus himself, had he not put an end to his own life, in order to avoid falling into the hands of his enemies. After bis death, the kingdom of Dacia was reduced to a Roman province ; and several castles were buit in it, and garrisons placed in them, to keep the country in awe.

After the death of Trajan, the Roman empire began to decline, and the northern nations to be daily more anl more formidable. The province of Dacia indeed was held by the Romans till the reign of Gallienus ; but Adrian, who succeeded Trajan, caused the arches of the bridge over the Danube to be broken down, lest the barbarians should make themselves masters of it, and invade the Roman territories. In the time of Marcus Aurellus, the Marcommoni and Quadi invaded the empire, and gave the emperor a ferrible overthrow. He continued the war, however, with better success afterwards, and invaded their country in his turn. It was during the conrse of this war, that the Roman arny is said to liave been saved from destruction by the prayers of the thundering legion.

In the end, the Marcomanni and Qundi were, by repeated defeats, brought to the verge of destruction; insomuch that their country would probably lave been reduced to a Roman province, had not Marcus Aurelius been diverted from pursoing Mis conguests, by the revolt of one of his generals." After the death of Marcus Aurelius, the Germanic nations became every day more and pore formidable to the Romans. Far from being able to invade and attempt the conquest of these northern coyntries, the Romans had the greatest difficulty to repress the incursions of their inbabitants.
The general cffects which were produced by the irruption of the northern nations,

## NORTHERN EUROPE.

have tieen, airmady-described sund sthe-particular eliangeg that were produced in the western empire will heo depicted in thichsucceeding liooks ofotits works It is therefore sufficiont in the present iastince, to sayn that they were.generally distinguished into two Erand divisions: the Saxons, who dwale on the south of the peninsula of. Juthand : aid the Norakias, or D Dines, who occupicd the countries now called, Deninark, Norwâ, and, Sweden. The Saxons, fqpavantiof,union, becarne tributary to the kings of Prance. But whienever the French throne was vacated by death, or the Frenclr monarche entployed in foreign or domestic wars, the Saxon princes usually threw off their allegiance, and invaded the territories of their liege lord.

Charlemagne had oceasion to check one of these revolts immediately after the death of hisibrotber; butzas. hie hud other concerns on his hands, the work was then but iuiperfectly executed.
Iu the year 775 , having obtained the empire of the west, and thoroughly settied the affairs of, Italy, be terminated this war, which had continued, above So years.

- Witikind, so deservedly celcbrated by his nation, was the most emment Saxom general duriag these mostilites. He frequently roused the drooping valour- of his country-men,-and-revived in their hearts the love of liberty. Nor were they wanting to torm in attachment, for which they dearly paid. After an unsuceessful revolt, when they went to -minke subnission to Charlemagne, he ordered 4500 of their principal mea to be massacred, ibecause they refused to deliver up their general. An equal instance of severity is not, perhaps, to be met with in the history of mankind. Witikind ht last submitted, and cubbraced Christianity, continuing ever after fuithful to his engagez ments. - But he could never inspire his subjects with the same docile sentiments : they were acontinaally revoling; and submitting only that they might revolt again. On the final reduction of their country, the more resolute retired into Scandivania, and joined the Normans or Danes.

We'shall close this chapter with an account of this latter nation, and more particularly of their expeditions and discoveries, as given by Mr. Forster, the companion and bistorian of captain Cook. To which we shall also subjoin an extract, by the same hand, from' the Saxon geography of Alfred; which merits the attention of the Eaglish reader, not only, as it illustrates the geography of that age, but as it furnishes an idea of the exteasive information that monarch possessed.

HBesides the Franks and Saxons, who seem to have acquired considerable knowledgerof the maritime affairs and countries of the North, we also find, that, about the year 755 of the Christian era, the Danes ventured with their ships as far as Thanet, on the Kentish coast, and raviged the country. These were followed by three other Danish slips, which chine from Heredalande, and the crews of which even landed, A. D. 787, in Wessex, that part of the island which fell to the share of king Brittrik, or Beorhtric? In the year 793, the convent called Lindisfarne, on the island now called Hyly island. was plandered of every thing in it by the Danes; who, having acquired additional courage, in consequence of the considerable hooty they kad made there, the year iumediately following, viz, 794 , plandered likewise the convent on the hooth of

## NORTHERN EUROPE.

the 'Tyne, which had been built there by king Egfid. It was no unpieasing cire xenstance to these heathegs, to find that the good monks had spreseryed in them foulwents such immense riches, which it was customary for the Chistians inithose days, Acecurise= quence of the opinion they entertained of the merit of good citurks, ton lien p- toprwith bountiful hands in these reposituries."
"The still more reanoto country of Ireland was not secure from the predatory inva. sions of the Danes. So early as the year 795, they appieared on the coasts of that island; and atter having ravaged the Orkneys and the Wentern I-lands, they made-theis eppearance again so early as in 798, in Ulster, which province suffi red greatly from their ravages. bet long before this period, the Normans-had made some predatory-incursions into Ireland, as appears from the life c. St. Findamus, who was of a noble, family th that countay, and had been carried off from theace by them. These pirates afterwards landed on the Orkiney Ilands, when Findamus ran away from them; and after havfing undergone various fortunes, having wandered through France and Lombardy; and remained four years in Alemania, he finally, in the year 700 , embraced a monastic life."
" In genesal, we may observe, as an acknowledged fact, that all the different-nations asd peuple, woich afterwards were known to the world-under the denominations of Swedes, Danes, and Norwegians, were not disticgui-hed by these mames in the earliest eges; as the countries they inhabited were not at that time divided, so as to-ndait of it. Every petty district, sometimes even a small island, had its peculiar sovercizn. No general name consequently could be bestowed on the whole country taken collectivcty. The peity sovereigns in these countries seem to have been mere tendatory lorils, or lords of maners, who undertook expeditions by sea as well as by land-with-their-vinsals, Their wother country, as well on account of the small quantity of cattle on it, ns in consequence of the neglected state of agriculture, was very unfroitful : they, therefore, after their subjects had once experienced the beneticial emoluments accruing from-a piretical expediton, found no great difficulty in persuading them to fresh undertakings of this nature. The first ships which the northern nations made use of, were boats, either hollowed out of large trunks of trees, or else made of wicker, and cased over,with teather. Long ships, of a larger size, wcre called Cbiule, Cyule, Call, as appellation whence the German and English term ship's-keel is derived, as well as the English word Keelman, i. e. people who work in the vesscls belonging to the colliers. With these two kinds of vessels, neither of which were of any considerable size, the latter of them carrying 200 men at the most, these northern nations undertonk their piratical expeditions. But the smallness of the number of men on board each ressel, was amply compensated by the multitude of the vessels themselves. Insomach that even Titcitus, in those early ages, makes mention of the fleets of the Suionse. This prople appears to bave spread at first within the boundaries of the Baltic to Finland. Esthonia, and Courland, whither it was very easy for them to pass over from Gothland. The Normans, or rather the Norwegians, followed their own coasts, "according to Ohthe?'s thacription; consequently they circumnavigated the extreme point of their peninsula,
and of Europe, viz. the North Cape, and coming at hist to the Cwen ses, arrived at the Dxina, and among the Biarmians that lived on its banks. The Danes sailed along the coast as far as the British Channel, and at length went to Bitain itself."
"At the end of the 8th century, the Danes and Norwegians, wino, taken collectively,
-bore the name of Normuns, ventured to go to England, Scotland, the Orkney and ShetInad isiands, the Western islands, and even to Ireland; all which places they made the subjects of their depredations, carrying with them, wherever they went, desolation and slaughter. At length they succeeded in making themselves masters of Jreland, and remained such from the year 807 to 815 . The Orkneys, the Shetland and Westera islands, were now in like manaer regularly peopled by the Normans. Some of them even formed the resolution of fixing themselves in Ireland. That attempt, however, did not succeed immediately, but they were obliged to put off the execution of their design to a more convenient time."
"The booty and wealth whichthey carried home, incited others among them to advance with their fleet along the coast of Britain to France, where, as has been observed, they first landed in 820 , not having dared, in the reign of Cliarles the Great, to iavade that coast. The indolence of Charles's successons, and the civil wars in which they were continually engaged, put it out of their power to make the necessary preparations on the north cosst of Prance for repelling the Normans, who rather excited than discouraged by the weak resistance they met with, repeated their attacks so frequently, that at last they prepared to make a complete conquest of these countries, and take possession of them."
"Thuugh Egbert in England, upon the union of the lesser Saxon divisions, or, as they are called, the Heptarchy, became a powerful sovereigo, yet the Normans did not suffer themselves to be intimidated by his power; but, in 889 , made an attack on the Keatish coast, in which they met with success, carrsing off with then abuadance of booty; - though the following year, having landed in Dorsetshise, they were obliged to make a precipitate retreat."
" About the year 835, the Normans went to Ireland, under their leader Turges, and maintained possession of their conquest for the space of 30 years."
" In 420, a tleet, fitted out by these people, made for the coast of France, where, having penctrated into the internal part of the kingdom, they committed great ravages. Sume of them, indeed, ia 84.4. proceeded as fur as the coast of Avilalasia; and even Pisa; in Italy, together with the once flourishing city of Luna, were brought into subjection by them, A. D. 857 . But these were, in fact, their expeditions to the South, which we shall content ourselves with barely mentioning in this place."
" Their voyages, po the other band, were continually more and more oxtended likewise in the northern regions. In the year 859; they went enstward to the coast of Esthonia, and brought the inhabitants of it under subjection; and in sife, three Normans, who were brothers, founded a new-sovereignty in Novogorod and its vicinity."
*Just about this time, viz. in 861, one of these pirates, of the name of Noddod, was - thrown by a storm on an island never before discovered ; and called it, on accout of Vol. 1.
$\cdot 80$
the soow, which lay on the ligh mountains belonging to it Sclanee, or Snow-land. Naridodd was but a very short time in this newly discovered istand: yet it appeared to bim a very good country ; in consequence of which, a Sivede, by name Garilar Suafarssan, who was settled in Denmark, undertook an expedition to Snowland, in 864 ; and having sailed quite round it, named it Gardarholm, i. e. Gardar's Islahi. Here likerise be spent the wiater; and going to Norway in the subsequent spriog, reported that this newly discovered country was entirely covered with wood, and in other rempects was a fine tract of, land. This account of the place induced another Sisede, of the name of Floche, who, by his yoynges, had acquired a great name, as welt sh the confidence of the people in the north, also to go thither. He arrived safe; bat having wintereal there likewise, on the northern side of the ibland, met with a great quan'ity of drift ice, on which account lee gave this island the name of Iceland, a name it still bears. It should scem too that he was not at all pleased with the country, since be deaeribed it, on his return to Norsay, as a very indifierent soil and situation. Soue of his companions, on the contary, gave it out as a country flowing with milk and honey. These coutradictory reports seem to have damped in many people the desure of viviting this island. At last, in the year 874, Inglof and his friend Lief, resolved upon making another tial. Accordingly these two friends repaired thither together; and the country was so far from appearing to them in a bad tight, that, on the contrary, its natural advantages induced them to settle there, which they did about four years afterwards. Ingolf took thither people, cattle, and ill kimls of necessary tocls and implements : and Lief, who, in the mean time, had been in England to the wars, carried thither his booty. The first discoverers of this island, from the circoustance of their having found sume lrish books, bells, and bishops' crosiers on it, imagined that some people froin Ireland had resided there previously to this period. But it appears more prubable, that a party of Norman pirates, who had previously landed in Lreland, and carried off from thence a considerable booty, and among other things the above-mentioned articles, had been driven thither by a storm, as had been.the case with Naddodd, and left these artieles behind them."
" The contradictory reports concerning this country by the people who first visited it, must certanly have been exaggerated on both silles. However, it may be observed, that although those who first inhobited the ivland, doubtless considered it as on advantageous spot ; jet the posture of affairs in the North at that juncture probably contributed much to their settlement in this cold region."
"About this time, Harold Schoenhaar, one of the petty sovereigns in Norway, began to eonquer and bring ioto subjection the other chiets of that country; and in 875 , established the Norsegian monarchy. Gorm the Antient likewise attacked all his neighbours round him, and united the pettv states in Jutland and the Dinish islands itto one; as Ingiald Illrode had done long before in Sweden. It was in possible for such great changes in the posture of affairs, and those so contrary to the old establisbrient, to be effected sithout making a vast number of malcoutents. Fhese, at this junctura, found a sure refuge in Icelund; and at length so many, even among the great people, aud
some indeed of the blood royal, repaired to the new asylum, that king Harold thought proper, by way of putting a stop in some measure to these emigrations, to publish an edict, secording to the tenor of which, no man was allowed to go to Pgeland, without previously paying to the king lalf a mask of standard silver. The great weath accomulated by the yiratical practices of the whole collective boily of bold Normans in these regions, from the year 516 , whea they first appeared off the French or Gallic coast, and consequently dusing a period of more than 960 years, must necessarily bave extended the power of some of thuirpetty sovereigns, and at the same time must have produged a gradual change in the manners, way of living, sentiments, and political establishments of the northern mations. Accordingly, it appears to me, says Mr. Forster, that the very piratical expeditions laid in some measure the foundation of the political changes that bappened almost at one and the same time in the northern kingdoms."
" In the course of their expeditions, the peoplo of these kingdoms became acquainted with the different states of Cliristendoan in the South. On this occasion it was, that the most zealons among the monks, as well as many others, whose sole view was the acquisition of iiches, and to lead a voluptuous life, resolved at length to get sent oat to these countries as bihhops. Consequently Christ and his preteaded vicegerent, the pope, kere soon preached among these people. The scriptures were introduced every where; codes of laws were compited and committed to writing; and the rude and wild way of Ife in those peoplé was considerably humanised. Commerce and various arts, as well as improvements in agriculture, gained ground; and these barbarous regions became in some weasure enlightened, unil the manners of their inhabitants refined."
" In the mean tume the Danes had again invaded England, and that with so much success, tuat king Alfred, in the beginning of his reign was obliged to relinquish it entirely to the ravages of those plunderens. In Ireland they erected a sovereignty at Dublin, which fell to the share of Ainlav, or Olaf, as that at Waterford did to Sitrik, and that at Limerick to Y war. In the year 868 , the Ferro or Sheep Islands were discovered, and atterwards peopled, no inhabitants having been found on them. In like manuer the Orkneys too were peopled with Normans, as also the Shetland islands. The same advantages attended the Hebrides, or Western Islands, as they are now called; though by the Normans, who came to them from the north and the Orkneys, they were d noonuated the Soothern lslands. But soon after this, Alfred, eunerging from his retirement, on a sudden made his appearance, and bis subjects, by his appointments, likewise coming torward at a certain fixed time, immediately fell on the Danes quite unawares, and made great bavock a nongst them. Alfied did not choose to dispatch the remainder of his vanquished foes ; but gave them their lives, and_permitted them to live in Northumberland, a province which had been laid waste and depopulated by their comutry. By this humaua conduct, he gained the hearts of even many of the Danes. Amoag others, there was a Norman at his court, by name Octber, who had made himsell lanious by bis travels. There was another too a Jutlander, of the name of Wulfstan, who in like manaer gave the king an account of his travels into Rossia. All these

- accounts the lsarned prince collected with great care; and having purposed to give a
translation of the Ormesta of Orosws, in the Anglo-Saxon, his mother tongue, he interwove in this translation the relations of Octher and Wulstan, with the result of the information he had got efsewhere concerning the state of the thrce parts of the work known at that period. It is very evident, from comparing thean togetber, that Alfred's account of Europe is not that of Orosius, but rather that the English prince has rria cipally set before us the state of Europe as it was in his own time, In fact, we are pos. sessed of such slender *information concerning the geography of the middle agss, tha such an exbibition as this is of Europe and the northern regions, conformable to the ideas of that age, and that from so respectable a source, must be extremely valuable. I shall therefore in this place insert that part of it which respects the North of Europe,"


## The Glooraphy of the Norturay Parts of Europe, according to Kina Mefred, almost literally translated from the Anglo-Saxon.

" Now we will also state those (i. e. the boundaries) of Europe, as much as we are informed concerning them. From the river Danais (Tanais) westward to the riven Rhine, which takes its rise in the Alps, whence it runs northward to the arm of the ocean that surrounds Britannia, and south to the river Donua or Danabe, whose source is near that of the Rhine, and runs eastward in the north of Greece, till it emptics itsel into the Wendel sea, or Mediterraneau, and north even unto the occan, which, men call Cwen sea (or the White sea). Within this are many nations, and the wholo of this tract of country is called Germany."
" Hence to the north of the source of the Danube, and to the east of the Rhine, are the East Franconia, and- to the south of them are the Swefas, or Sueva; ; on the opposite bank of the Danube, and to the south and east are the llagthware, in that part which is called Regueshurgh. Due east from hence are the Beme, and to the northeast the Thyringas ; to the north of these are the Old Scaxan, to the north-west are the Prysan, and to the west of Old Senxum is the month of the Aelfa or Elbe, as also Frysan or Fricsland. Hence to the northewest is that land which is called Angle Sillende, and some part of Dena.?
"To the north is Apdrede ; and to the nortb-west the Wolds, which are called Aclfeldan; from hence castward is Winedaland, which-men called Sysyle. To the southeast at some distance is Maroarobave, to the west the Thyringas and Behemas, as also part of the Bæghiware; and to the soutb, cn the other side of the Donua, is the country called Carendra."
"Southwards, along the mountains which are calted the Alpis, lie the boundaries of Exgthware, as also Swaeva; and then to the eastward of the Carendre country, and beyond the Waste, is Pulgaraland or Bulgaria ; to the east is Greculand or Greece ; to the east of Maroara is Wisleland, and to the east of that is Datia, "though'it formenly belonged to the Gottan or Goths. To the north-east of Moroara are the Delamensan. East of Delamensan are the Horithi; and north of the Delamensati are the Surpe, to the west also are the Syssele. Ta the north of the Morithi is Macythalond, and. te the north of Maegthaland is, Sermendia, quite to the Rifin or Riphen mountains,"
" To the south-west of Dena is that arm of the ocean that surrounds Britannin, and to the north is that arm of the sea which is called Qat sea, to the east and to the north are the North Dene, either on tlie continent or on the island, to iwe east are the Afdrede ; to the sbuth is the mouthr of the Elbe, and some part of Old Saxpay. The North Dene have, to the northward, that same arar of the sea which is called Ost sea. To the east is the nation of the Osti; and Afdrede to the south. The Osti have, to the north of thers, that same nrin of the sea, so are the Winedas and the Burgendas. And still more to the south is Haefeldan. The Burgendan have this same arm of the sea to the west, and the Sveon to the north; to the east are the Sermende, to the south the Surfe. The Sveons liave to tie south the arm of the sea called Osti, and to the north, over the mastes, is Cwenland, to the north-west are the Scride Finnas, and to the west the Northmen,"
"Ohthere told his lord, king. Alfred, that he lived to thie north of all the Nortlumen He quotlis that he dweit in that land to the northward, oppasite to the. West sea; he said, however, that the land of the Northmen is due north from that sea, and it is all a waste, except in a feer places, where the Finnas for the most part dwell, for hunting in the winter, and in summer for fisling in that sea. He said that loe was determined to findiout, once on a time, bow far his country extended due north, or whether any one lived to the north of the wastes before mentioned. With this intent he proceeded due north from this country, leaving all the way the waste land on the starboard or right hand, and the wide sea to the beacherd or left. He was within three days as far notth as the whale hunters ever go, and then proceeded in his course due north, as far as he could suil within another three days, whilst the land lay from thence due east. Whether He sen there lies within the land, he knows not; he only kuows, that, he waited there for a west wind, or a point to the north, and sailed near that land eastiward as far as he could in four days, where he waited for a due north wind, because the land there lies due south. Whether the sea lies within the land he knows not. Upon this he sailed along this country due south, as far as he could in five days."
" Upon this land there lies a great river, at the mouth of which they lay to, because they could not proceed far forther on account of the inbabitants being hostile, and all that eountry was inbabited on one side of this river, nor had Obthere met before with any lind that was inhabited since he came from his own. All the tand to his right, during his whole voynge, was a desert, and without inhabitants, except fishermen, fowlers, and hunters, all of whom were Finnas, and he had a wide sea to his left. The Beormas, indeed, had well peopled their country, for which reason Ohthere did not dare to enter upon it ; oin the otber hand, the Terfeuna land was all a desert, except when it was thus inhabited by fishers and fowlers."
"The Beormas told them many particulars about their land, as well as of the other countries near them ; but Ohthere could not rely upon their accounts, because be had not an opportunity of seeigg with his own eyes; it seemed, however, to him, that the Beormas and the Yinuas sjoke the same language. He went the rather, and shaped

- his course to emeli of theso countries, on necount of the horse-thales, becquse they Yus. I.
- 8 P
have very good bone in their teethy söme of whiels lie hrought to the linge and their hides are good for ship gopes. This sort of whale is mueh less than the other kinik, it being not longer comneinly than seven ells ; but Obthere says, that in his own councy is the best whale hunting, because the whales are 48 ells long, and the largeat 50 ; flast he has killed 66 in two days."
"Olthere was a vegy rich man in such goods as are valuable in those countries; namaly, in wild deer, and had at the time he came to the king. 600 tame deer, none of wlich te had purchased; besides this, be bad six decoy rein-deer, which sire very valuable amongst the Finnas, because they eateh their wild ones with thema"
"Ohthere himself is one of the most considerable men in thesozparts, and yet he bad not more than 90 horned cattle, 90 sheop, and 90 swine; and what little he plowed was with horses. The rents ir this country consist chiefly of what is paid by the Finuas, in deer skins, feathers, whale-bone, and ship ropes, made of whales' bides, on those of seals. Every one pays aceording to his substance ; the wealthiest pay the skips of is martens, five rein-deers, one bear's skin, ten hampers fill of feathers, a cloak of the bear's or otter's skin, two ship ropes, each 60 ells long, one made of whale's and the other of seal skin."
*- Olthere moreover said, that Northmanna-land was very long and narrow, and that all of the country which is fit for either pasture or plowing, is ou the sea-coast; wfich, however is in some parts very rocky; to the eastward are wild moors parallel to the cultivated land. The Finnas inbabit these moors, and the cultivated land is broadesi to the eastward, and grows narrower to the northward. To the east it is 60 miles broad, in some places broader; about the micdle it is perhaps 30 miles broad, or somewhat more; to the northward, where it is narrowest, it may be only three miles from the sea to the moors, which are in some places so wide, that a man could scarce pass over theas in a fortnight, and in other parts perhaps in six days."
* Opposite to this land, to the south, is Sweoland, on the other side of the moors; quite to the land northward, and opposifo to that again to the north, is Cwenaland. The Cwenas sometimes make incursions agninst the Northmen over the moors, and sounctimes the Northmen on them ; there are very large fresh meres amongst the mivors, and the Cwenas carry their ships over land into the meres, whence they make depredations on the Northmen : their ships are small and very light"
"Ohthere said also that the shire which he inhiabited is called Halgoland, and that no one dwelt to the north of him; there is likewise a part of this southern land, which is culled Sciringes-heal, which no one could reach in a month, if he lay to at night, though be had every day a fair wind; during this voyage he must sail near the land; on his right hand would be Iraland, and then the islauds which aro between Iraland and this land. For this country is to Sciringes-heal, all the way to the teft. Ar you proceed northward, a great sea to the southward of Sciringes-heal, runs up into this hand; and is so wide, that no one can see neross it. Gotland is opposite on the other side, and afterwards the sea of Sillende lies many miles up int that country. Olthere forther says, that he sailed in five days from Scivinges-heal to that port wheh men *
call Hethum, which is betireen the Winedum, Scaxum, and Anglen, and makes part of Denc,
4 4, Wtien Ohthere sailed to this place from Sciringes-heal, Donnark was on his left, and on the right was a wide sea for three days, as were also tino days before he came Do Haethum, Gotland, Sillende, and many islands (these islands were imhebited by the Angles before they carac hither); and for two days the islands which belong to Dene were bir the left."
vi.0 Wulfstan said, that he went from Haethum to Truso in seven days and nights, tho ships being tander sail all the time, that Weonothiand was on his right, but Langaland, Laeland, Falster, and Sconieg on his leff, all of which belong to Denemearçab. We had also Bargendaland to nor ieft ; which hath a king of its oivn. After having left Burgendaland, the islands of Becinga-eg. Meore, Eowland, and Getland, were on our left, which country belongsi to Sueon; and Weonodiand was all the way on the right, to the mouth of the Wislen This riven is a very large one, and near it lies Withatd and Weonbdland, the former of which belongs to Estum, and the Wisle does not run through Weonodland, thet through Estmere, which Iake is 15 milen broad. Then runs the lifing froin the eastward into Estmere, on the bank of which stands Truso; and the Lifing flows from Eastland into the Estmcre from the east ; ond the Wisle from Weonodland from the south : the Ilting, baving joined the Wisle, takes its name, and runs to. the west of Estmere, and northwand into the sea, when it is called the Wisle's mouth. Bastland is a large tract of country, and there are in it many towns, and in every town is a king; there is also a great quantity of honey and fish; and the king and the richest men drink mare's milk, whilst the poor and the slaves use mead. They have raany contests among themselves: and the people of Estum brew no alc, as they have mead in profusion "
"There is also a particular custem amongst this nation, that when any one dies, the corpse continues unburnt with the relations and friends for a month or two, and the bodies of kings and nobles lie longer, ąceording to their respective wealth, sometimes for half a year, before, the corpse is thus destroyed, and it continues above ground in the house ; during which time drinking and sports last, till the day on which the body is consumed. Then, when it is earried to the fisueral pile, the substance of the deceased, which remains after their drinking bouts and sports, is divided into five or six heaps, sometimes into more, according to what he happens to be worth. These heaps are dispased at a mile's distance from each other, the largest heap at the greatest distance from the town, and so gradually the smaller at lesser intervals, till all the wealth is divided, so that the least heap shall be nearest the town where the corpse lies. Then all those ase to be summoned who have the fleetest horses in that country, within the distance of five or six miles from thesc heaps, and they all strive for the substance of the deceased; he who hath the swiftest horse obrains the most distant and largest heap, and so the others', in proportion, till the whole is seized upon. Ho procures, however, the lenst, who takes thot which is nearest the town; and then every one rides away with
- his share, and keeps the whole of ii. On account of this custom, flecphorscs are extremely
dear. When the wealts of the deceased hath been thus exhuusted, then they carry the corpse from the hoose, to burn it, together with the dead man's weapons and clothes ; and generally they speid the whole wealth of the deceased, by the body's continuing' so long in the house before it is buried; and by what is laid in heaps on the rgad, atid is taken away by the strangers."
"It is also a custom with the Eqtum, that the hodies of all the inhabitants shall be burned; and if any one can find a single bone unconsumed, it is a cause of anger. These people also thave the means of producing very severe cold, by which the dead body continues so long above ground without putrefying; and if any one sets a vessel full of ale or water, they contrive that the liquor shall be frozed, be it summer or winter.
A. D. 912.
'NORTHERN EUROPE


## CHAPTER III

Gmbany asd the North - From the rise of the Gernan Empinc, to the acces-- sion of Radolphus of Hapshurg.

WE have related in the preceding chapter, the reduction of the Saxons and other Germans, muder the power of Charles the Great of France; and also intimated that as he did not transmit the sceptre to hands as able, as bis own, the unconquered Normans frequently invaded the empire; and generally obliged its possessors to permit theus to carry off their booty. The empire was, howezer, soon to receive a doeper wound, proceeding from the following cause.

Though the successors of Charlemagne possessed their dignity by virtue of hereditary descent, they bad usially procured the consent of the nobles to their testamentary deeds, that no dispute might arise in regard to the succession. What was at first no more than a political condescension in the emperor, became gradually to be intorpreted into a privilege of the nobility ; and hence originated the right of those electors, by whou the emperor is still invested with the imperial power and dignity. They already deposed Charles the Fat, and raised to the empire Arnold, bastard of Carloman, king of Bavaria.

Thus authorised by custom, the German nobles assembled at Worms, on the death of Louis IV: and not judging Charles the Simiple worthy to govern them, they offered the imperial crown to Otbo, dake of Saxony; but he declined it, on account of his age ; and with a generosity peculiar to himself, recommended to the electors Coarad, count of Franconia, though his enemy. Conrad was accordingly chosen by the diet.

The empire of Germany then comprehended Franconia, the provinces of Bamberg, Suabia, Constans, Basil, Bern, Lausanue, Burgundy, Bezancon, Lorrain, Metz, Liege, Canbray, Arras, Flanders, Holland, Zealand, Utrecht, Cologne, Treves, Meniz, Worms, Spire, Stratsburg, Friezland, Saxony, Hesse, Westphalia, Thuringia, Wetteravia, Misnia, Branderburg, Pomerania, Rugen, Stetin, Holstein, Austria, Curinthia, Stiria, the Tyrolese, Bavaria, the Grisons; and in general, all the countries situated. among the provinces of their dependencies.

The reign of Conrad I. was one continsed scene of troubles, though he took every necessary measure to support his authority and preserve the tranquillity of the empire. He was no.soonereelected than he had occasion to march into Lorrain ; where the nobility, being attached to the fumily of Charlemagne, acknowledged Charles the Simple as their sovereign, and offered to put him in possession of that country. Before Conrad could settle the affairs of Lorrain, he was recalled by the revolt of several powerfill dukes, who envied his promotion. One rebellion succeeded mother; and, to complete his misfortunes, the Huns, or Hungarians, invaded the empire. They had for Vol. 1 .
some time been accustomed to pass the intrenchments formed by Charlemagne anong the Raab, in order to restrain their incursions ; and, no less fierce than their ancestors, they had haid every thipg waste before them, and borne down all opposition. In 90ो, they ravaged Bavaria, Suabia, Prancomia: all Germany felt their fury. Louis IV. submitted to pay them an annual tribute. They had several times pillaged Italy; and How in their way from flat coantry, where they had humbled Berengarius, (taking tha advantage of the troubles of the empire) they made irruptions into Suxony, Thuringin, Franconia, Lorrain, and Alsace, which they desolated with fire and sword, and oblized Conrad so purclase a peace on the inost shameful conditions. He died without male htirs, in 919, after recommending to the Gernaaic body as his successor, Heniy, duke of Saxony, son of that Otho to whom he owed his crown.

Henry I. surnansed the Fowler, because he delighted much in the pursuit of birds, was elected, with universal approbation, hy the assembled atates; composed of the dignified clergy, the principal notility, and the heads of the army.

It was still undecided whether Lorrain should beloag to France or Germany: Heary, as soon as the situation of his affairs would permit, entered it with a powerful army, and subdued tho whole country. His next care was the internal peace and prosperity of tho eimpire. He published a general amnesty in favour of all theves and banditi, provided they would enlist in his armies, and actually formed them into a troop. He created marquises, in imitation of Chariemagne, to guard the frontiers of the empire against the barbariatis ; and obliged all vassals and sub-vassals to furnish soldiers, and corn for their subsistence. Ho likewise ordered the principal towus to be surtounded with walls, bastions, and diches; and, that the nobility might be habituated to the use of arms, even in time of peace, he instituted certain military games, or tournaments, in which thiey vied with each other in displaying their valour and address.

After taking these wive measures for the welfare of the state, Henry began to prepare for war against the rilungarians, whom he had exasperated by refusing the annual composition, and other marks of distlain and defance. Enraged at his firmness, they entrel Germany witn an arny of 300,000 men, breathing vengeance. But Henry, being supported by the whole force of his dominions, though still inferior to theirs, defeated them, with great slaughter, at Mersbourgh, and rescued the eupire from a barbarous enemy and an ignominious tribute.

Having thus subdaed his enemies, and secured the tranquillity of his suljects, hoth at home and abroad, the cmperor began to taste the fruits of his wisdom and valour, when the pope and the citizens of Rome invited hian to the conquest of Italy, still distracted by civil wars, offering him the boly unction, and the ufle of Augustus. Heary, who was ambitious to be master of Italy, and no doubt desirous of the papal sanction to the imperial crown, set out immediately, for that country at the head of his troops ; but being seized with an apoplexy on bis march, he was obliged to retoro, and died at Mansteben, in Thuringia. Before bis death, he convoked the princes of the empire, who settled the succession on his son Otho.

- Otho I. . the most powerful emperor since Charlemagne, and who had the honour of
re-uniting Italy to the imperial dominions, was elected at Aix-la-Chapelte in 996 , by the unamous consent of the diet there assembled, according to the promise made to his falber, Henry the Fowler. He began his reign with the mosb upright administration, and secmed denirous to live in peace and tranquillity. But his qoiet was soon interrupted by wars, both fureign and domestic, which he had-sufficient abilities to manage, and which terminated in his aggrandizemen.

The Hongarians, aecording to cuatom, invaded the empire, committing every species of barbarity. Otho, however, 2000 put a stop to their ravages. He came up with them on the plain of Dortmund, in Westghalia, and defeated them with great slaughIf. But the Hungarians were not the only encmy Otho bad to encounter. Immedrately ater his return from this vietory, he was informed that the Bohemians had revulted. Lohemind was theu eatiely barbarous, and mosily pagan. Otho, after a variety of struggles, renfered it tributary to Germany, and also obliged the inhabitants to embrace Christianity.

In the mran time, the emperor was engaged in many disputes with his own rebellious suljects. Ariuit, dake of Bavaria, being dead, his son Everhard refused to do homage to Otho, on pretence that he was not his vassal, but his ally. Otho, therefore, entered that country with in army, expelled Everhard, and bestowed the duchy upon his uncle Bartlof, who willingly did oomage for such a present. The emperor, at the same tine, created one of Everhard's brotbers coont palaune of Bavaria, aidd the other count palatine of the Rtine.

This digoity of count palatine was revived from the counts of the palace of the Roman and French emperors. These palatines were at first supreme judges, and gave judgment in the last appeal, in the name of the emperor. They were also entrusted with the government of the imperial domains.

Otho now found leisure to extend his empire toward the north. Gormon, the old king of Denmark, had been obliged to relinquish his clain to Saxony, and suffer Henry. tue Fowler to build and garrison a city in Sleswick. This city was destroyed by Harold VI. the successor of Gormon, who thas exposed himself to the resentment of Otho. Otho penetrat d to the shores of the Baltic, and filled Denmark so effectually with the terror of his arms, as to oblige its inhatitants to erect a strong wall cross the isthmua of Sleswick, in order to defend themselves against future invasions,

He died in 973 , after a reigo of 36 years; doring which, by bis generosity and courage, be had justly acquired the appellation of Otho the Great, the emperor of Italy, and the restorer of the empire of Charlemagne.

Otho 11. surmamed the Sanguinary, on account of the blood spitt under his reigo, succeeded tids fathet at the age of 18 . His youth oceasioned troubles, which his valour enabled him to dissipate. Henry, dake of Bavaria, and several other noblemen rebelled, but were all reduced in a short time.

The north was not at this time in any condition to excite many fears in the breasts - of the Gerwans. Swen, the son of Harold, was the first Danish movarch who had been bred from hie youth and publiely baptized in his infancy According to the Chris-
tian faith ; yet be had no sooner ascended the throne, than he re-established paganism, to gratify the prejudices of his nobility. This apostacy was followed by misfortunes. He was twice expelled from" Denmark, and obliged, in the last instance, to reside 14 yedrs in Scotland. After lie regained his kingdom, restored the faith, and was attended with great prosperits.

Italy, in the mean time, occupied the attention of Otho. He had marehed to Rome, and chastised such as rebelled against bion ; but attempting to wrest Calabria fronr the Greeks, his army was cut in pleces by the Saracens, whom the Greeks had called in to their assistance.

He died soon after at Rome, while preparing to take revenge on the enemy.
Otho III. already elected emperor, succeeded his father at 19 years of age ; and his uncle and his mother disputing the adainistration, Germany was disquieted by a turhulent regency, while Rome became a prey to new factions, and the scene of new crimes. Crescentius blew the trumpet of liberty, and persuaded the Romans they were still free, that he might have it in his power to enslave them.

But when the emperor, who proved a brave and enterprising prince, came of age, all things were soon reduced into order. He defeated the Danes who had invaded the empire, and entered into a Friendly alljance with Eric, King of Sweden, Denmark, and Norway, on condition that German missionaries should be allowed to preach the gospel in bis dominions ; a great concession in those times, and lighly mortifying to the w rshippers of Odin.

The uffairs of the north being settled, Otho marched into Italy, and caused Crescentius to be beheaded. He expelled the Saracens from the Campania of Rome, and was soon after poisoned by a pair of gloves, sent to him by the widow of Crescentius, whom he had debauched under a promise of mariliage.

The empire sustained a great loss in the death of this prince, who was equally brave, resolate, and just ; and by a glorious reiga of 18 years, changed the surname of Infant, which was given to him at his accession, into that of Wonder of the World.

As Otho III, died without children, a number of competitors started up from the empire, three of whom were supposed alike qualified to wear the imperial crown ; Henry, duke of Bavaria. Herman, duke of Suabia, and Ekkard, marquis of Saxony. But the dyke of Bavaria, being grandson to Otho II. by the female line, was elected, in consequence of his superior power, and confirmed and consecrated under the name of Heary II.

The reign of Henry was chiclly filled up with Italian commotions. He was crowned king of Italy at Milan; but was soon after the performance of the cgremony in danger of being murdered by the popalace. He, however, subdued his enemies, and was crowaed emperor at Rome, by pope Benedict VIII.

Cloyed with success, sick of buman greatness, or the toils of empire, and charmed with the tranquillity of a momastic life, Henry had for some time expressed a desire of retiring from the word, and now actually toox the religious habit. But the abbot of

St Vall, whendip-rgecived the emperor as a brather, visoly impased the following comruand upon hinu : "Mionks orre obedience to their superior," snid he, " I order jou tg
ta zonscquicnee of this inviuction, Herry coosegled to wear the cromp, and increased prosperity to the lope of bis death.
Grat difputes ensued on the death of Henry II, ahout tho noppipation of a successer to the crupire; that pringe dying vithout issue. The priges and states asembled in the open firlds betusen Meniz and Worms, po hyll being sn Ificient to hold thew; and, affer six ureks cucampmicut and delibertion, they elected Conrad, duke of Francooia,

The Lomb. rds revolting as usual, soon sftee the election of the uev emperor. Con-
 Hume whirre he was consecrated und crowned hy pope dutho XX. in prespuce of

 over. aticu be suss colligid to esturn to Germany, on account of some insurections raised in his alscace. He took Nlie preciution, huweyce, before be attempted to humHe the inatitute to git bis son Hewry, then above 12 ycin of ate, declared his sucesour, and tolemuly crowned at Aixdit-Cbinplle. The retellion was soon after sopprosed by the saluar of Courach. He deteuted the anthors of it in several engagenents; te one of which, E.nest, duke of Suabia, who had been put to the ban of the empire, was slain.
The wand bao originally siguified bunner, afterwards ediet, and lasty, a decloration wh outlaw ry, abich was intiuated thus: . We declare thy wile a widour, thy chil? dyancrphane; and send ther, in the name of the devil, wo the four corners of the ef thes?

$$
\text { This is poe of the } 6 \mathrm{nt} \text { exapples of thes proscristinn. }
$$

The eing rye next surout his ariss aguinst the Poles, and aferwards against the Hons, anit ubligeif hoth to suthocihe to his oyva copditions In the Qean tiaie, Roololph, King fof Tranjumame Borgontly dfying withont iscue, lett his doniniuns to Courad Tucy Phere of enall exicon, bot indeded the rekquiral superiority over the Sivis, the Grisops Provence, Franctie Coniple, Sivoy, Girpera, and Dimpline. Meace the lauds on stawther side tof the Rbine mee still callad the lopido of soe empire; aud ail the ooblemen of those cantons, who tornedy held of Koululph, und lis predecessors, now bolg of tie eapieror.

White Connd II, uas cmplayed in taking notiession of bis neir inberitance, the
 anoliee in Lady, headed hy thubers, histiop of Midan, whom he had loaded with fivours.

demened to perpetual lunisoment; and the emperor died soon alter his retara to
fienuany, leaving behind hith the reputation of a just, generous, and ninganginous - prthe.

Hegry 113, surnamed the Black, son of Conrad and Giallh of Suabie, not clectey
© 8 R
in consequerice of bis Zatheri' recommen lation, and crowned a scoond time at Aik-1ak Chapelle.

The firgt years of Henry's reign were signalized by sucoexsful wars against Bohegiog Poland, and Hungary - wlich, hawever, produced no memorable avent:

Aftee a reigo spent in regulating the concerns of Italy, Henty died, in the 39th yeff of bis life, A. D. 1056.0.

Henry IV. surnamed the Great, was ginly five Jeara old at his futhorisiteath. He wa s immedintely ackriontedged eroperors in a diet of princes convoked at Colopnejnad thei care of bis education was comunitted to dis mother Agnes, who aito pevergtditio -empire. She was a wouns of spirit and address, and discharged both her public and private trusted with diligetice and-ability.

Geruasy, during the first years of this reign, was harassed with civil wara; so that the einpress Agres, notwithstanding her strong taleats, found a difficulty to maintain lur buthority. And as length the dukes of Saxony and Rayaria, uncles of the young empl -peror, carried thim off from her thy stratagem, accusing, her of sacificing the publis wof fare to the will of this bistiop of Adigheirg, lies minister and suppoesd gatlant. Thus df visted of the regency, she thed to Rome, sid there took the vell.

Henry was now put under the tuition of the atchbishiops of Calogne and 1remen, sha discharged thèir trust in a very opposite manner. The first endeavoured to ingpire hitim with a love of leaithing hod virtue; while the second soujgle oilly 10 negriice th ascest dency over tis prosions, hy findulging him in alh the pleasurer of goith. This indulgence produced a balit of licentiousness, wtich he never afterwards reatrained.
Ifenry IV: assumed the neins of giveriment at the age of pe, and began his ordmibilitration whit restruining the thefts, robberies, and extortions, which fir subjects of the duchy of Suxony excrcised upon istraniders, (assisell as upon each other. But the Saxop princes aud nobles; whd wore'gainers by the atuses, particularly' by the infangus ptac tice of impirisoding trayellers, aod ranking them pay, for their ransodity opposed tho ind otcaded refarination, and entered into an associntion against the ccoperong under prer tence that their liberfies were in danger. In this- rebelliads disposition they merce enet coaraged by the arrogance, of pope Alexander 1I.; who, at the instigation of Hitdeffant, his confidant and oracle, suinmoned Henry tos ajpear before the tribinit of the tiolysees on account of his lobse life, and to answer the eharge of having exposed the invegtuite of bithiops to sale.

Heary treated the pope's mandate with the contempt it deserved; and at the same time cafried in war with sigotir sgaiast the Saxpose and their relullious, aspochtes, whion he totilly routed, is a bloody engeteatent, and mafe himself mastor of ath Siser fony. The beads of the rebellion asked pardon of thic emperor in pablicy, ind regeed tio be restoked to his favour: : Lie gencrousty laceepted their xubuifsion, and prace wus restored to Germany:
2. Tis cuntest between the emperor and the popes whis attended with much bleodshed in Gexmary and faly; and at leogth, A. 13. 1101, Paschal M. exciked young Hefry.to rebel againet bis fatber, under pretence of deficoding the eause of the ortipdos;
ailceffing, fliat ho was bount to take upon bimmelf the reins of government, as lie could neither acknowledge a king nor a father that was excommunicatgd.
In valin dill the emper or use every paternal rensonstratice tof ditsunde bis son from provereding to extrenities: the breach beecuine wider and witer, and both prepared for hiedecision of the suard, But the son, dreading his father's militory superiority, and confiling io this tenderness, made ure of a stratagem, equally base and successfut. He Whrew fintielf unexpectedly at the ennperorls fect, and begged pardon for his undutifut behidious, shifh tie imputed to the advice of eil counseliors. In comequtence of this sulbmistion, he was finniediately taken into davour, and the emperor dismissed Laisarmig: The ungrateful ynuth oow burca lifis perfilions heart s he ordered hiik fatbec to be confiued, While he surembled a thiet of his own cenfederntes, nt whiel- the pope's legato preeided, and repented the sentence of exconimstication agaist the emperor Heary IV, Who wis instapily deposed, and the purrididious- wsirper, Henty V. proclaimed.
2. The arcitibibhops of Mentz and Cologne woro sent as doputies to the old emperor, to Sthiunte lis aleposition, and deauand the cromn and ather mgalifi. Heary recetived this deportition with equat surprise and coficero = wist finding the clief secusation eggiust Thim was, "the scandalons manter in whiter hae had set bithoprics to sole" "he thus adHessid the andacoins exclesinitics; in If wo have prostitated the bencfices of the charch For live, youn yourselves are the most peoper perinons ta convietes of thot (fitiony. Say (tien, I conjubue you, in the naine of the otemal Gind I suat wo bave exacted, or Whit we live received, for haviog prombted you to the diggitien which yoin now evioy"
Thicy acknowtedged he "ras innocent as for as regarded their preferment - "And yet," continued he, "the archbishoprics of Mentr and Cologne, being two of the best in our gif, we unght fiave filted our coffers by exposing them to sate. We bestotied thein, Lionever, on you, out of free grace and favour; and a worthy retarn you make to our benevotence i. Do nor, we beseech you, become abettors of those who have lifted up their band against their' lord and master, in defianee of faith, gratitode, and allsglance,"

The two archbishops, anmoved by that pathetic address, insisted on his compliance with the porport of their/errund. On this the retired, and pot on lis royal omaments; then returning to the epartinent be had left, and scating hilnself oo ia clair of state, he renexed bis remonstrance in these words ; " Here are the marks of that coyalty with which we trere invented by God and thin princes of the exppires if you disegard the wratis of tleaven and the eternat repmach of mankind so much ae to lay siolent hands oh your soveleigu, you imag strip us of thiena.yWe ores not in a condition to defend eirselves."
This speech hat no tnore effect than the former upan the unfeeing prelates, trlep fistaints buetched the crown from his biead; and dragging bion from his elatiin pulted Qt Its rogat rubei by force. Whale thiey were thas employed. Heory exclainied, "O Great find!' the tears thelithing down his venerable cheoks, ty thou art the Ciod of vergestnce, Whathereny thits ostruge. I have simped, I orm, and arerited susch shame lev the folliey
bf my youth ; but thou wilt not fiil to punith these traitork, for their poijury, imaoleness and ingratitude."
\#To such a degree of wretchedness was this untappy prince redieed by ibe barlegity
of his son, that, dentitute of the common necessaries of lifo, be eutreated Gertronch, bishog,
of Spire, whotn be had created, to gront him ar canonicale for his sulkinence vreirír
sehting that he was arpubile of performing the office of chanter or reader) Being
denfod that humble requent, he shed a fload of ceurs, and buring to thuse who itive
present, said with a deep sigh, "My dear ffiends, at least have pite on my cundition,
for I am touched by the hand of the Lord IC. The hand of nans, of lefet, was buavy upian hilus; for the was not only in want, but under confinement.
3 In the nuilat of these distresies, when every one thonght his cournge sas attesly ext
tiogujsted; and his soul overwholned by despondency, Heary found means 10 cacape
from his keepers, and reached Cologne, wtiere hie un recognized as fanfut cupegot.
He next repaired to the Low Conntries, where he found friends, who rased a covisider-
atle body of troops to facilitate lis resloration; mal hat scat circatir dedters to all fle
 pope, giving fifin to understand, that he wat inclined to an acconunodation, provided it oould be setted without prejudice to his crows. Hut tefores any thing material coald Le executed in Itenry's fivour, lie died at Liege, in the 56 is your of his age, auit die
 of body und midd. There was an air of digaity in hix-appearumee that sioke tio gepat-? ness of his soul. The possessed a naturul funit of eloqpience anit vivacity; was of a naild and usecifot temper; extrenely charituble ; and an adutrable patern if fotitute and resiguation.

Heniry V. pat the finisting stroke to lias barbarois, iannatural, ond bypocritical consduct, by cousing his father's boidy, as this carcase of an exeommunicathit writch, to be dug out of tio grave where it was baried, in the cathedrat of Lioge, and curried uro save at bpire.

But, notwithstonding his olligations and seeming ittucliment to thercourch, dhic iantor
 tained that right of inveathure, in opposition to which he hat tukem arims aspint tis father. and the exercise of wbich mas thought to merit antathemas/fo frightrial as tu diaturb the sacred tuansions of tho dead.
The content between Henry V. antl thic pope whe cominal on till parb time po the states of the empire, quite tired with this lang quarrel unsuiumosly supplleated llenry
 of Worms, it was decreat, that an embasey should immestiately te sem to the pope, desiring that he would convoke-ar genemil eonacil ut Rome, by which ail divputes uigit
 daring Leat, and at wliith weve prenent 300 liskiops and about 7 g 0 abbats.
 resfitares ivas as lemgth setted, whit their couseat, on the followidg condiffors
for she future, the hishops and ahbots shall be chusen by the mouks and canoas ; bat that this election shall be made in presence of the emperor, or of an ambassador uppointed by him for thint purpose : that, in ease a dispute arive among the electors, the jeccision of it shall be left to the emperor, who is to consult aith the bishops on that subject, that the bighop or abbot elect stall take the oath of allegiance to the equperor, rsseive from Lis buad the regalis, and do lomagu for them ; that the emperor shall no longer coafer the regulia by the ceremony of the ring and crozier, which are the ensigns of a ghostly dignity, but by that of the serptre, as more proper to invest the person elected in the possession of the rights and privileges merely temporal."

Hency died at Ntrecht a few yeara after bis accommodntion with Ranse. He was a wise, politic, and resolute prince : and, exclusive of his unnatural behaviour to his father, was worthy of the imperial throne, He married Maud, or Matilda, daughter of Henry I. king of England, by whom he had no children ; so that the empire was left without a head.

As Heary V. left no issue, it was universally believed that the states would confer the empire on one of his nephews, Conrad, duke of Franconia, or Frederic, duke of Suabia, who were princes of great inerit: but Albert, archbishop of Mentz, found means to influence the German chiefs to give their suffrages in favour of Lothario, duke of Saxe-Supplembourg, who had supported him in all his contests with the late emperor. Luthario was accordingly crowned at Aix-la-Chapelle, in presence of the pope's nunioc. Mean while, his two competitors neglected nothing in their power to obtain the throne. But after a sfort opposition, which was, however, obstinate and bloody, they dropped their pretensions, and were reconciled to Lothario, who afterwards honoured them with bis friendship.

The first expedition of the new emperor was against the Bobemians, whom he obliged to sie for peace, and do homage to the empire.

He next marched into Italy, were aifairs, as usual, where in great disorder. He was erowaed at Rome, and on his return ordered justice to he administered in the empire according to the then newly discovered code of Justinian.

On his way to Germany, after a second Italian expedition, Lothario was seized with a dangerous distemper, which carried him off near Trent, in the 18th year of his reign. He was distinguished by a passionate love of peace, and an exact attention to the administration of public justice.

Conrad, duke of Franconia, Nephew to Heary V. was unanimously elected emperot on the death of Lothario. But the imperial throne was disputed by Henry the Huughty, duke of Bavaria, the name of whose family was Guelph ; hence those who espoused bis party were called Guelphs, an appellatiod afterwards usually bestowed on the enemies of the empenors.

Henry the Haughty died during this contest, after being divested of his dominions by, the princes of the eapire ; but the war was still carried on against the emperor by Guelph the duke's brother, and Reger kiag of Sicily. Tbe imperial army was com-- manded by Frederic, duke of Suahia, the emperor's brother, who, being boen at the VoL. I.

- 88
village of H1. Ghibelin, gave to his soldiers the name of Ghibelins; an epithet by wanch the imperial party was distinguished in Italy, while the pope's adherents grew famous under tlint of Guelphs. -

Guelph and bis printipal followers were besieged in the castle of Weinsberg ; and naving sustained great loss in a sally, they were obliged to surrender at discretion. Theo emperor, however, instead of using his good fortane with rigour, granted the duke and his chief officers perimission to retire uninolested. But the duchess, suspecting, the generosity of Conirad, with whose enmity against her husband she was well acquainted, begged that' she and the other women in the castle might be alioned to come out with ns much as each of them could carry, and be conducted to a place of sufety. Her request was granted, and the pyacuation was immediately performed; when the emperor and his army, who expected to sce every lady loaded with jewels, gold, and silver, beheld, to their astonishment, the duchess and her fair companions staggering beneath the weight of their husbands. The tears ran down Conrad's cheeks, be applauded their coujugat tenderness, and an accommodation with Guelph and bis adherents was the consequence of this act of female heroism.

The north presented a more settled and civilized appearance than it had done in former ages, Canute the Great had raised Denmark to a respectable rank among the Christian kingdons. Denmark, Sweden, Norway, and England, were tributaries to him; his alliance was courted by the gfeatest monarehs ; even the emperor Conrad II. sought his daughter in marriage, and voluntarily relinquished his claim to Holtein. In the latter part of his life, he divided his dominions among his three sons ; to Harold he assigned England; to Hardicanute, Denmark ; sad to Sweyn, Norsay.

Hardicanute afterwards ascended the English thronc, and died in 1011, with the reputation of al prince equally distinguislied for virtues and vices. England was now lost to the Danes; but Magnus, the next prince, reigned over Denmark and Norway. Under him and the succeeding princes, a war was almost constantly carried on with the Vandsls, to repress their disorder, and punish their attechinent to the old pagan religion. They were not, however, yet subdued; and about tie year 1147, the Saxons undertook a crisade against them, whom they cut off by thiousands, without making a single convert. Conrual also went or a crusade to Palestine, from which he returned ia peace.
Nothing renarkable bappened in the empire, after the return of Courad IIL. from the East, except the death of prince Henry, his cldest son, who had been elected king of the Romans. This event greatly affected the emperor, who died soon after; and bis nepliew, Frederic, sumamed Barbarossa, duke of Suabia, was raised to the imperial throne by the unamimous voice of the princels and nobles both of Italy and Germiany. 1ie was succeeded by Henry VI, those election was no sooner known, than almiost all the princes of Europe sent ambassadors to Mersburg, to congratulate him on his elevation. The king of Denmark went thither in person, for the investiture of his dominions ; and Frederic crowned the Danish monarch with his own hand, and received the outh of allegiahce from bim as a vassal of the empire.
*The emperor, afer lis return to Germany, incorporated the Toutonic kuights into a regular order, religious and military, and built a house for iliem at Coblentz. These Teptonic. Knights, and also the Kniglits Templars, and Knige Hospotallers, were - originally monks who settled in Jertasalem when it iras first taken by the chempions of Che. Cross. They, were established into religions fraternities for the relief of distressed pilgrins, and for the care of the sick and wounded, without any hostile purpose. Bat the tply eity being afterwards in danger, they took uy arms, and made a vow to combat the infidels, as they had formerly done to combat their own carnal inclinations. The entiousiastic zoal of the times increased their number; they grew wealthy and hooourable; were patronised in Europe by difficent princes; and became a militia of conqquerors.

Heary died at Messina ; and, as was supposed, of poison, administered by the empress, who saw the ruin of Naples, ber country, hatching in his perfidious and vindictive heart, as will be more particularly related hereafter.

Bat Heary, amidst all his baseness, possessed many great qualities. He was active, eloquent, brave; bis administration was vigorous, and his policy deop. None of the saccessors of Charlemagne were ever more feared and obcyed, either at home or abroad.

The emperor's son Frederic, having already been declared king of the Romans, became emperor on the death of his fatlicr. But as Fiederic II. was yet a minor, the odministration was committed to his uncle Philip, duke of Suabia, both by the will of Henry, and by an assembly of the German princes. Other prinees, however, incensed torsee an elective empire become hereditary, held a vew diet at Cologne, and chose Otho, duke of Brunswick, son of Henry the Lion. Frederic's title was confirmed in the third assemilly at Arnsburg ; and his uncle Philip was elected king of the Romans, in order to give greater welght to his administration.
4 These two elections divided the empire into two powerhil factions, and involved all Germany in ruin and desolation. Innocent III, who had sucecoded Celestine in the papal chair, thirew himself into the scale of Otho, and excommunicated Philip and all bis adfierents.
At length Philip prevailed ; and Otho, obliged to abandon Germany, took refuge in England. Philip, elated with suecess, got his election confirmed by a second coronation, and proposed an accommodation with the pope, as the means of finally establishing this throne. Bat before that aecommodation coald be bronght aboat, he fell a sncrifice to private revenge ; being assassinated by the count Palatine of Bavaria, in consequence of aprivate dispute.
"Otho returned" to Gerimny on the denth of Philip, married that prince's daughiter, and was crownied at Rome by Innocent IHL-after vielding to the lioly sce "the iong dispoted mheritance of the cuantess Matifa, and confirmibg the righty and privileges of the Itulian cities.
"But these concessions, is far at least as thicy regarded the pope, were only a sacrifice to brespat policy. Otho, therefore, no sooner fornd lifniself io a comiltief to act offensively,
than tic resumed his grant; and not only recovered the possessions of the empire, but made hostile incursions into Apulia, ravaging the slominions of young Frederic, king of Naples und Sicily; wlo was ander the protection of the holy see. Hence we may date the ruin of Othos Inmocent exconmunizated him ; tund Prederic, now 15 years of $\begin{aligned} & \text { age, }\end{aligned}$ was elected emperor, by a diet of the German prinech.

Otho, however, on his return to Germany; finding his party still considerable, and not duabting but he should be able to humble bis rival, by means of his superior force, catered into an alliance with lits uncle, Joln, king of England, against Plitip Augustus, king of Framea. The aifortunite batte of Doavines, where the confederates were defeated, as we have seen, completed the fate of Otho. He attempted to retreat into Gicruany, bot was prevented by young Prederic ; is ho had marched into the empire at the head of a powerful aray, and was eyery where received with open urms.

Thus abandoned by ait the princes of Ciernany, and altogether xithont resource, Otho retired to Brunswick, where be lived four years as a private man, dedicating his time to the doties of religion. He was not deposed, bot forgot; and if it is true that, in the excess of his liumility, he ordered himself to be thrown down, and trod upon by his Kitcben-boys, we may wcll say nith Voltaire, that the kicks of a turnspit ead never explate the fiults of a prince.

Frederic II, being now universally acknowledged emperor, was crowned at Aix-laChapelle, with great magnificence; and in order to preserve the favour of the pope, he added to the other solemnities of his coronation, a vow to go in person to the Holy land.
The reiga of Frederic was chiefly employed in Italion quarrels and expectitions to the East. He at last ended his days in Italy, where fortune, which had bitherto favpured bim, seemed now to desert him. He was defeated before Parma, which he had long besieged; and, to complete his misfortune, he soon after learned that his natural son Entius, bhom he had made kiug of Sardinia, was worsted and taken prisoner by the Bologuese.

In this extremity, Frederic retired to his kingdom of Naples, in order to recruit his army; and there died of a fever, in the 55th year of his age. He was a prince of great genius, erudition, and fortitude ; and notuithstanding all the troubles he bad to encounter, he built towns, founded universities, and gave a kind of new life to learning in Italy.

After the death of Fiederic II. the affairs of Germany fell into the utmost confusion, and Italy continued long in the same distracted state in which be left it. The clergy, took arms against the laity; the weak were oppressed by the strong; and laws, divine. and human, were disregarded. But a particular listory of that unhappy period would fill the mind with disgast and horror. We shall therefore only observe, "that after the death of Frederic's son, Coarad, who had assumed the imperial dignity, as successor to his father, and the death of his competitor, Williain of Holland, a variety of candidates: appeared for the empire, and several were elected by different factions; among whom was Richard, earl of Cornwall, brother to Henry III, king of England. But no, emen

## NORTIEIR EUHOPE.

peror was properly acknowstaged till the year $127 s$, when Roilolph, count of Inapsturg was unanimously raised to the vacant throne.

- During the interregnum whiels preceded the election of Tiodolph, Denmark, Hol. Find, and Hungary, entirely freed themselves from the homage they were wont to pay to the empire; and nearly abont the same time, several Gierwan cities crected a municipal form of sovermaent, which still continues. Labec, Calogne, Brunswick, and Datzic, united for their mutual defence agaiast the encroachments of the great lords, hy a famous association, called the Hanscatic League ; and these towns were afterimards joined by 80 others, belonging to different states, which formed a kied ot commercial repubic.



## CHAPTER IV.

Germany and zue Norzh- Prom the eccession of Rodotple to the death of Ma,xinilian.

RODOLPH, count of Hapsburg, a great captans, who had some time exercised the office of grand marshal to Ottocarus, king of Bohemia, and was rised to the imperial dignity on account of his urilitary talents, no sooner found himself in posiession of the august throne, than be employed his authority in suppressing the divord,rs which had prevailed daring the interregoum ; and he succeeded so well in his endeavours, that peace and security were soon generally re-established in Germany. He destroyed in Thuringia 60 castes, which were the retreats of banditti, and ordered 99 highwaymen to be hanged at one time in the city of Erfurt.

Having thus in some measure settled the interior police of the empire, Rodolph assembled a diet at Mentz where be granted new privileges to Goslar and other cities, and confirmed those which had been granted by his predecestors. Here atso the deliberations of the assembly turaed upon the conduct of certain princes, who had protested against the election of the count of Hapsburg. Among these was Ottocarus, King of Bohemia, against whom the diet bad other causes of dissatisfaction. He bad seized upon the duchy of Austria, after the death of Frederic, the last dake; and the states complained of the oppressions which they suffered under this usurper, from whom they begged to be delivered.

A second diet was summoned on this subject at Augsburg ; where Ottocarus, not appearing or doing hoonage by his ambassadors, was aleclared a rebel to the empire. His possession of Austria, Stiria, Carniola, and Carinthia, was adjudged illegal ; and the canperor was desired to divest him of those territories.

When this sentence was notified to Otocarus, he arrogantly exclaimed. "To whom should I do homage ? I owe Rodolph nothing: he was formerly my servant, and I puid him lis wages. My poscessions I will maintain with the point of my sword."

In consequence of this resulation, Ottocarns associated bimself with soveral other German princes, and among the rest with the duke of Bavaria. But they were all at last obliged to submit; and the proud Otocarus hinself, not only relinquished the contested territories, but did honage for Bobemia and Moravis.

This homage was performed in the island of Camberg, in the Danube, under a close canopy, in order to save Ottocarus from a public humiliation. He repaired to the place, all covered with gold and jewels. Rodolpls, by is superior pride, received him in the most coarse and simple dress ; and in the midst of the ceremony, either by accident or decign, the curtains of the canopy fell back, and exposed to the oyes of tho people, and
the armies that lined the banks of the river. the haughty king oa his knees, with this bipls joined betveen those of his conqueror, whom he had soeofen called hits stevard,

- anit to alrom he now became cup-bearer.
- The wite of Oitocarus, a Rusvian princess, and no less hanghty than ber bushand, vias so uuch hurt by this mortifying circomstance, that she induced bim to renounce the treaty be had coneloded with Kodolph, and aguin have retourse to arms for the recovery of Austrit. Tho emperor inmediatcly marched against ain; and a bittle etrsued, in which Ottocarus was sleio.

Hodolph now discovered himself to he no less a pelitician than a warrior. He gave the goveranent of Au-tria and its appendages to his eldest son, count Albert, whom be sfterward, in a diet at Augburg. publicly invested with that dochy, which was meofporated with the college of the princes. Hence the rise of the house of Austria. And he at the sathe time invested Rodolph, another of his sons, with the county of Suabia, wlijh belonged to bim in right of his wife. Ho also wisely resolved to adhere to the articles of the treaty with Ottocarus ; and accordiugly put his infant son, Wisecessaus under the tutelage of the marquis of Braodenburg.

But although Rodolph's authority was now fully established in Germany, he was so far from bring master ot Italy, that he did uot receive the fmperial crown from Gregory X. till he had ceded to the holy see the lands of the countess Matilda.

Rodolph spent the latter part of lis reign in establistiog the grandeur of his family in Austria. He granted privileges to the clergy ; bestowed new dignities upon the noblemen ; diminislied the taxes ; built and repared public edifices; and behaved with so much generosity and moderation, as won the hearts of all men. But notwithstanding his popularity, he could not procure his son Albert, duke of Austria, to be elected king of the ltomans; a disappointment, which, together with the death of his son Rodolph, so much chagrined him, that he died soon after. He was a prince of great valour, sagacity, and probity, and raised the empire, from a state of misery and confusion, to the enjoyment of peace, policy, and riches.

After an interregaun of nive months, which was productive of many disorders, the German priaces raised to the imperial throne Adolphus of Nassau, on the same principle which had made them choose his predecessor. He seemed capable of maintaining the glory of the empire at the head of its armies, without being able to enslave it.

The reigo of this prince was one continned seene of troubles, and at last terminated in his deposition. His necessities had made him guilty of several acts of injustice ; which Albert, duke of Austria, dissati-fied at not succeeding to the superial thronc, took care to represent in the worst light. A confederacy was formed against Adolplius; and he was "deposed by the urchbishop of Mentz, in the nawe of the princes of the empire.
"Six years ago" said the archbishop," the empire being vacant, we cononically elected Adolphus, count of Nassav, king of the Romans, knowing at that time no person more wortiby of the dignity. At first he conducted hariself visely, following the counsel of the most prudent electors and princes of his court. But he began by de-
degrees to despise their advice, and listen to the counsels of young persons, without cither sense or experienco ; then he found biinself destitute of means and friends to assist hum siuccrely in beariag the *orden of government. The electors, perceiving his indizepce, and swayed by many other motives, have demanded the pope's consent to depose him, and choose another emperur. We are told that our envoys have obtained the conseit of bis boliness ; tiough those of Adoiphus affirm the contrary; but we. having no regard to any authrity, exeept that which is vested in ourselves and finding Adotphins inespable of governing the empire, do depose him froun the inperiai dignity, and elect Aioert, sule of Aastria kn: of the Romans."

Adoptas, apprinel of this election, raised the siege of Ruffich, in Alsace, and marches torrards spire, where lie encamped. He was reinforced by the count Palitine Itodolpli, Otho, duke of Pavaria, and the cities of Spire and Worms, which had never deserted his canse. Albert advanced towards him, in order to dispute the impenal crown by arms. They engaged between (ielnsheim and the cloister of Rosendal, and the battle was maintained with much obstinacy on both sides. In the heat of action, Adolphus, singling out his rival, attacked him hand to hand, haughtily exclaiming, " Here you shall resign to me the empire and your life 1" "Both," replied Albert, "are in the bands of God;" and immediately struck his competitor with such violence in his face, that he fell down from his horse, and was instantly slain.

During tive roigo of Adolphus, and also his predecessor, Rodolph, the Jews were persecuted in the empire with great cruclty, on a supposition that they had slain several Christian chididen, and commited other crimes, which excited the hatred of the pubHe. They were accused of laving stolen a consecrated host; and the eredulous people, without examining into the matter, were so much incensed at this pretended sacrilgge, that the inhabitants of Nuremberg. Rottemberg, Amberg, and several other towns of Franconta and Bavaria, seized all the unhappy Israelites that fell in their way, committed them to the flames, and drove the rest to such despair, that numbers chose rather to deatroy themselves and families, than run the hazard of falling into the hands of the merciless Clorstians. Nor was this unhappy people treated with more indulgence in Holland and Friesland, their present asylum, at that time provinces of the empire.

Thwugh Aibert had been elected king of the Romans before his victary over Adolphus, and consequently became emperor on the death of that prince, he chose to have his titie confirmed by a new diet; which was accordingly assembled for that purpose at Fiankfort, the elector of Triers and the Palatine not having formerly given their votes, and he was solemnly crowned at Aix-la-Chapelle. The concourse of people on that occasion was so great, that the duke of Saxony, the emperor's brother, and several other persons were squeezed to death in the crowd.

The tirst sears of Alberts reigo were disquieted by a quarrel with the pope and the ecclesiastical electors. Bonitice VIII. the last pontiff who pretended to the right to dispose of crowns (unless in the case of excomnunicated princes), und who carried vie pretensions of the apgstulic see as bigh as any of his predecessors, took part with the tiree German archbishops, who had refused to answer the emperor's summons.

They were at length, however, obliged to submit ; and Boniface confirmed the election of Albert, when he wanted to make him the instrument of his vengeance against Plilip, king of France.

- The revolt of the republic of Switzerland, the most important gyent of this reign, will - be recorded in a more advanced part of this work. Albert was ready to hazard his forces in the invasion of these states, when he fell a sacrifice to bis rapacity and injustice. His own nepbew, Jolin, who could not obtain from him the enjoyment of his patrimony, resolved to make sure of his revenge. This injured youth, confederating with three others, stabbed the emperor in presence of his court and army, on the banks of the river Prus, in the neighbourhood of Switzerland.

The imperial throne continued vacant for seven months after the assassination of Albert. At length the electors assembled at Frankfort, and chose Heary, count of Luxemburg; who was crowned, without Gpposition, at Aix-la-Chapelle.

A diet was soon after beld at Spire, where sentence of death was pronounced against prince John, for the marider of his uncle, the late emperor ; whose sons, at the same time, demanded the investiture of Austria, and the other hereditary dominions of their father, which Henry intended to seize. They obtained their demand, on making them sensible, that as the house of Austria had already sent two emperors out of the world, it might yet prove fatal to a third, if he did not desist from his unjust pretensions.

The greater part of the reign of Henry VII, was occupied in Italian affairs. During his last years, the knights of the Teutonic order aggrandised themselves, by making war upon the pagans of the north. They possessed themselves of Samogitia, after butchering all the iahabitants who refused to eimbrace Christianity. They took Dantaic, and purchased Pomerella of a marquis of Brandenburg, to whom it then belonged.

The death of Henry was followed by an interregnum of 14 months, which were employed by the intrigues of Louis of Bavaria and Frederic the Handsome, deke of Austria. Louis was elected by the greater number of the princes; but Frederic, being chosen and supported by a faction, disputed the empire with him. A furious civil war, which loug desolated both Italy and Germany, was the consequence of this opposition. At last, the two competitors met near Muldorf, and agreed to decide their irnportant dispute by 30 champions, 15 against 15 . The champions accordingly engaged in presence of both armies, and fought with such fury, that in a short time not one of them was left alive. A general action followed, in which the Austrians were worsted. But this victory was not decisive.

Frederic soon repaired his loss, and even ravaged Bavaria. The Bavarians assemhled a powerfal aroy in order to oppose his rival; and the battle of Vechivis, in which the duke of Austria was taken prisoner, fixed the imperial crown on the head of Louis V.

Louis V. had no sooner humbled the duke of Austria, than he had the pope to - encounter. Joln XXII. declared the election of Louis void: he maintained, that it was the right of the sovereign pontiff to examine and confirm the election of emperorn,

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that the government, durivg the vacaney, belonged to him : and be commanded the easperor, by virtue of his apostolic power, to lay aside the imperial ensigns, until be

- should receive permissior from the holy see to reassume them.

This contest, whioh was carried on by a succession of popes, was productive of in event of lasting utility. The princes of the empire, ecelesiastical as well as secular, assembled at Frankfort, and established that ramous constitytion, by which it was irrevocably fixed, "That the pluality of the suffragans confers the empire, without the consent of the holy sce; that the pope has no superiority over the emperor of Germauy, nor any tight to approve or reject his elections ; and that to maintain the contrary is high treason." They also refuted the absurd clains of the popes to the government of the empire during a vacancy; and declared, " That this right appertains, by antient custom, to the count palatine of the Rhine."

At Iength, Clement VI. a native of France, having issued a bull for the election of a new eumperor, Charles of Luxemburg, margrave of Moravia, son and heir of John, king of Bobenia, having made the necessary concessions to his holiness, was elected king of the Romass by a fartion. Louis, however, maintained his authority to his death, which happened soon atter the election of his rival ; when Charles, rather by his money than his valour, got possession of the imperial throne.

Charles IV. was much degraded in the esteem of all wise men by the concessions he made to the pope during his journey into Italy; but appeared in a more respectable light after his return to Germany.
The number of Electorates had been fixed, since the death of Henry VII. more by custom than by laws, but not the number of electors. The duke of Bavaria presumed he had a right to elect as well as the count Palatine, the elider branch of their family; and the younger tranches of the house of Saxony believed themselves intited to vote as well as the elder. The emperor, therefore, resolved to settle these points, that dre subordination might take place, and future elections be conducted without confusion or disorder. For this parpose be ordered a diet to be assembled at Nuremburg, where the famous constitution, called the Golden Bull, was established, in the presence, and with the consent of all the priaces, bishops, abbots, and the depaties of the imperial cities.

The style of that celebrated charter partakes strongly of the spirit of the times. It begias by an apostrophe to Satan, anger, pride, luxary; and it says, that it is necessary the number of electors should be seven, in order to oppose the seven mortal sies. It speaks of the fall of the angels, of a heavenly paradise, of Pompey and Cexar; and it -asserts, that the government of Germany is founded on the three theological virtues, as on the Trinity.
The seven electors were the archbishops of Ments, Colegue, and Treves; the king of Bohemia, the coust palatine, the duke of Saxony, and the margrave of Brandensurg.
The imperial dignity, which of itself then confered litlle real .power, never shewed more of the lustre thgt dazzles the eyes of the peoplo, than on the publication of this famous edict. The three ecelesiastical directors, all three archichaneeliors, appeared

In the procession with the seats of the empire ; the arclibishop of Mentz carried that of Germany ; the archbishop of Cologne, that of Italy ; and the archhishop of Treves. tipt of Gaul. The duke of Laxemburgh and Brabant, whe represented the king of

- Bohemia, as great cup-bearer, presented the emperor with his drink, poured from a gotden flagon into a cup of the same metal; the duke of Saxony, as grand marshal, appeared with a silver micasure filled with oats. The elector of Brandenburgh preseured the emperor and empress with water to wash in a golden ewer, placed in a goldea bason ; and the count Palatine served up the vietuals in golden dishes, itr the presence of all the great officers of the empire.

The latter part of the reign of Charles IV. was distinguished by no remarkable transaction, exeept the sale of the imperial jurisdictions of Italy. Charles, who was reputed a good prince, but a weak emperor, was succeeded in all his possessions and dignities, by his son Winceslaus.

Winceslaus, who was but 17 years of age, began his reign by a fruitless attempt toheal what was called the great schism of the west. Though perhaps equally religious with either of the contending pontiffs, be should seem from his private life to be ill qualified to decide theological disputes: he was immersed in debauchery, and seemed indostrious in acquiring the hatred of his subjects, by the extriordinary taxes he imposed, and the cruelties which lie exercisel, upon people of all ranks.

On account of these ircegularities, and of selling the rights of the empire, both in Italy and Germany, the electors assembled at the castle of Laurenstein on the Rbine, deposed Winceslaus, and raised to the imperial dignity Frederic, duke of Brunswick ant Lanenburg; but he being basely murdered by count Waldeck, before bis corotation, they elected in his stcad Rupert, or Robert, connt palatine of the Ihine.

Soon after the accession of Robert, Bohemin was involved in new disorders, in consequence of the preaching of John Huss, professor of divinity in the university of Piague, who had embraced the opinions of Wickliffe, and was excommunicated by the. pope.

The publication of this sentence was followed by troubles and commotions. Winceslaus shut himself up in the fortress of Visignale, and Huss retired to Hussinet, the place of his nativity ; where he appealed from the judgment of the pope to the Holy Trinity, and wrote to the cardinals, offering to give an account of his faitb, even at the hazard of life, before the university of Prague, and in the presence of those who attended is lectures aud sermons.

The Roman church still continued torn by a schism, which the emperor Robert in vain attempted to heal He was succeeded in the empire, after a disputed election, bySigismund, * brother to the deposed Winceslaus, and king of Hungary ; a prince of experience and abilities, and whose first care was to compose the distractions of the church.

- For this purpose he convoked a general council at Constance, with the concurrence - of John XXIII. one of the three pretenders to the papal dignity,

At this council, where Sigismund appeared in all his glory, were present a prodi-
gous number of cardinals, prelates, doctors ; more than 100 sovereign princes, 180 counts, 200 harons, and 27 ambassadors from the several European courts, who all

- secmed to vie with each other in luxury and magnificence. Tbere were also 500 play'ers on iostruments, called in those days minstrels; and 718 courtezans, who were protected by the magistrates.

After prevailing on two of the papal rivals to desist from their pretensions, the council next proceeded to examine the affair of John Huss. He had converted to his opinions great irumbers of people of all ranks. Among others, his doctrine was embraced Dy Jerome of Prague, a man of learning, whom the had engaged as lis colleague, who propagated the reformed religion with great warmth. They had been summoned to uppear before the court of Rome, but refused to obey the citation. They consented, bowever, to attend the council of Constance, in order to justify the doctrine they professed ; and Huss, being provided with a safe conduct from the emperor, boldly attempted to defend the articles of his faith before the fathers of the council. But as it is easier to make martyrs than to answer arguments, they were inclined to condemn him unheard, when the emperor desired them to listen to what Huss should say in his owa defence. He was accordingly questioned in the presence of Sigismund, and accosed of heresy in 39 different articles. Part of these he denied, and part be offered to defend. But his voice was drowned by the noise purposely made by the cardinals; and on his refusing to abjure all the 59 articles, he was immediately declared a sower of sedition, a hardened heretic, a disciple and defender of Wicklife. As such, be was degraded by four bishops, stripped of his sacerdotal habit, and clothed in a lay dress, His hair was cut in the form of a cross, upon his head was put a paper mitre, painted with the representation of three devils; and he was delivered over to the secular judge, who condemned him and his writings to the flames, and fixed the day of his execution. He died with great constancy.

After the execution of John Huss, the emperor went into Spain, to procure the resignation of Poter de Luna, the third pretended pontiff. During his absence, the trial of Jerome of Prague engaged the attention of the council. This man had repaired to Constance with the design to assist John Hiss in making his defence; but perceiving he had nothing to hope from the clemency of the fathers, he resolved to retire, with all expedition, into Bohemia. Being apprehended, lowever, on the road, he was loaded with chains, and brought back to Constance ; where be at first abjured the opinions of Wiekliffo and IIuss, but soon after retracted his recantation, was condemned to the flames 3s a wicked apostate, and suffered with great fortitude.

Poggio, the Florcatine, secretary to pope John, and one of the first restorers of letters, who was present on this occasion, says, he naver beard any thing that approached so nearly to the eloquence of the antient Greeks and Romans, as the speech which Jerome made to the judges. "He spoke," exclains Poggio, " like Socrates ; and walked to the stake witir as much cheerintness as that great philosopher drank the cug of hemlock."

These executions were far from answering the end for which they were designed. Tha:
dipputes about religion in Bohemia raged with greater violence than ever. The Hussites in Prague were so much offended at beiog prohibited the cop in the Lord's Supper, that they roised a forious tumult; forced the town-house, and mardered the magistrater, who were concerned in publishing the order.
-The news of this massacre filted the court of Winceslaus with the utmont consternafion, and made so strong an impression on that pusillanimous prince, that be was seizod with an apoplexy, of which he died in a few days.

Ho was succeeded in the kingdom of Boliemia by his brother Sigismund, already emperor, and King of Hungary ; yet this powerful prinee was several times defeated by Ziska, the captain of tho Hussites, who revenged the death of that martyr by the most terrible outrages.

As our limits will not permit is to give a particular account of this war; we shall only obsorve that Ziska continued master of Bohemia till his death, when he ordered a drum to be made of his skin, which was long the symbol of victory. He was succeeded in the cominand by Procopius, surnamed the Shaven, becatse he had been a priest, and who supported bis party with no less valour than his predecessor. He boldly defended their cause in the council of Basil; and although he was unsuccessful in that negotiation, and also in a battle with the catbolics, in which he was mortally wounded, yet the Hussites, even in this extremity, obtained a general amnesty, the confirmation of their privileges, and the right of using the cup in the communion, a concession which to them was a kind of triumph.

After this pacification, Sigismund enlisted the Hussites into his army, and led them against the Turks who had made an irruption into Hungary, and were defeated with great slaughter by these hardy veterans. Bat although Sigismund had been so fortunate as to regain the affection of the Bohemians, he lost it anew, by attempting to tyrannise over their consciences, and only death saved bim from a second revolt.

Sigismund was succeeded in the Kingdoms of Hungary and Bohemia, and also in the empire, by his son-io-law. Albert II. duke of Austria. The only enterprise of moment, in which this prince was engaged during his short reiga, was an expedition agninst the Turks in Bulgaria, where he was seizedwith a siolent dysentery, before any action took place, and died at the village of Loug, in his return to Vienna. Albert was succeeded in the imperial throne by his cousin, Frederic of Austria, the third emperor of that name. The kingtoms of Hongary and Bohemia were settled on Ladislaus, Albert's infant son, who was comnitted to the guardianship of Frederic.

His first care was to heal a schism in the church ; after which, the affairs of Germany being tolerably settled, he entered ftaly, and proceeded towards Rome. Before he entered St, Peter's patrimony, he took an oath neither to injure the pope, nor suffer him to receive, any injury from any to whom the should commit the administration of Italy.

He was nt Rome crowned king of Lombardy; and three days after this ceremony, he was married to Fleanora, sister to the king of Portugal, and together with her received the iamprial crowa. The emperor and the pope aext ratified tae cuncordata of tho

Vol. 1.
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German nation, touching the collation to prelacies and other bencfices, which had. some, years bufore been agreed to by cardinal Carvajal, Nicholas's legate at the imperial court.

Having thus transacted matters at Rome, Frederic set out on his return to Germany:; and in his passage through Ferrara, was waited upon by Borsi, marquis of Este, a prifte of extraordinary merit, whom he created duko of Modena and Reggio. On his arrival in Austria, he found himself involved in a number of difficultics, out of which be was never able fully to extrfcate himself. The Hungarians had often entreated Frederic to send home their king Ladislaus, whom he still detained at the imperial court, under pretence of being guardian to that young prince; and they had, by the most earnest and repeated instances, besought him to restore their crown and regalia, which were in his costody. But he found means, under various pretences, to postpone his compliance with these demands. The Austrians, joined by a number of Bohemians, and encodraged by several priuces of the eupire, also sent a deputation to expostulate with Frederic on the same subject; and as he lent a deaf ear to their request likewise, and amused them with fresh evasions, they had recourse to arms, and compelled him to sign an accommodation. It was agreed, that Ladislaus, being yet of too tender years to talie upon himself the government of his kingdoms, should be put under the tuition of Ulric, count Celley, his uncle by his mother's side, and that the dispute touching the wardship of the emperor, should be determined at Vienna. Count Celley's ambition was elated by the power which he derived from being tutor to Ladislaus. Ite attempted to make himself absolute master in Austria; be secured the principal fortresses, by giving the command of them to his creatures; and he pradually removed Elsinger, a Bohemian gentleman, who had headed the insurrection, and the Austrian nobility, from all offices of importance. His friends and favourites only were trusted. The people were incensed at such proccedings; and Elsinger, profiting by their discontent, roused their resentment to such a degree, that the count was obliged to retire into Hongary, after fiaving delivered up the person of Ladislaus, who consented to take the oath imposed upon him by the Bohemians, and was crowned with great solemnity at Prague.

During these contests, the city of Constantinople was taken by the Turks, after they had suldued the rest of Greece ; and by this blow, the Roman empire in the east was utterly annililated, as shall be related more at length in its proper place. Here it is only necessary to observe, that the progress of the Mahometans alarmed all the princes of Christendom ; and made them think of uniting, though too late, in order to oppose the common enemy. A diet was convoked at Ratisbon on this subject, and the members unanimously agreed, That there was a necessity for taking some speedy measures to stop the progress of the infidels. But what these measures should be, was a consialeration referred to another diet, assembled at Frankfort; where, although there was n vast eonoourse of princes, and great appearance of zeal, very little was done for the common cause. Other diets were afterwards held for the same purpose, but with vo better guccess; a backwardness which was chiefly owing to the tinid and slothful disposition of the emperor, vio wenid never heartily embark in the undertaking. The

German princes, bowever, at the solicitation of Carvajal, the pope's legate, sent a body of troops to the assistance of John Hunniades, a famous Hungarian general, who had long gallantly defended lifs country against the Turks, and gained'several advantages over them. Hunniades, thus reinforced, marched to the relief of Belgrade, which was besieged by Mabomet II. the conqueror of Constantinople, and the terror of Christendom; and compelled the sultan, after an obstinate engegement, to raise the siege, and retreat, with the loss of 4000 men left dead on the spot. But the death of Hunniades, which liappened a few days affer the battle, prevented the Christian army from making any progress against the infidels. The fruits of their victory, and their future projects, perished with their illustrious leader.

In the mean time, Ladislaus, king of Hungary and Bohemia, died, and various competitors arose for those crowns, as well as for the dominions of Upper Austria, which belonged to that prince. Among these was the emperor, Frederic III. who reaped nothing but damage and disgrace from a civil war, which desolated Germany for many years, but which was productive of no event that merits attention. His son Maximilian was more fortunate, and better deserved success. This young prince, who was as active and enterprising as lifs father was indolent and timid, married, at 20 years of age, the only daughter of Charles the Bold, duke of Burgundy. She brought him Flanders, Franche-Compte, and all the Low Countries. Louis XI. who disputed some of these territories, and who, on the death of the dtke, having seized Burgundy, Picardy, Ponthicu, and Artois, as fiefs of France, which could not be possessed by a woman, was defeated by Maximilian at Guinegaste ; and Charles VIII, who renewed the same claims, was obliged to conclude a disadvantageous peace.

Frederic died in the 79th year of his age, and the $54 t$ th of this reign. No emperor had ever reigned longer, and none less gloriously.

The reign of Muximilian, already elected king of the Romans, introduces a more interesting period than that over which we have now trayelled, and opens a vista into some of the grandest seenes of history.

But as most of the cvents of this reign bave greater reference to the south than the north of Europe, we shall here barcly notice them in chronological order.

Maximilian embraced the system of the balance of power, which then began to be formed; and assisted the Italian atates in opposing the return of Charles VIII, from bis Neapolitan expedition.

He carried on a war with the Swiss Cantons, who had shaken off all-dependance on the Austrian government; but he did not obtain any important advantage.

The samo year the French monarch terminated amicably some dispotes which be had with Plilip the Handsome, the emperor's son, and father to Charles V.; and this Pbilip did homage to France for the countries of Flanders and Artois.

Louis XII, engaged by the treaty of Blois to pay the emperor Maximilian a large, sum for the investiture of the duchy of Milan.

About this time, Isabella, queen of Castile, died; and Philip the Handsame went to take possession of that kingdom, as heir to his mother-in-law. He also died in a shunt
time ; and, to the astonishment of all Europe, left the king of France governor to bis son Cumes.

From 1508 to 1519. Maximilian neted as an ally of France against the Venctians; het in 1513 he bocame an adversary to the French, and in 1516 made peace both with France and Venice. This peace was preceded by the death of Ferdinand the Catholic, . and the suecession of his grandson Charles to his extensive dominions.

Whitc Cuarles was taking possession of the throne of Spain, in cunsequence of the death of one grandfatlite, another was labouring to procure for him the inyjerial erown. With this view, Maximilian assembled a diet at Augsburg, where lie strove to gain the favour of the electors, by many acts of beneficence, in order to engage them to choose that young prince as his successor. But Maximilian himself having never been crowned by the pope, a ceremony deemed essential in that age, he was considered only as king of the Romans, or emperor elect ; and no example occurring in history of any person being cliosen successor to a king of the Romans, the Germans, ever tenacious of thele forms, obstinately refused to confer upon Charles a dignity for which their constitution kuew no name.

But the diet at Augsburg had other business. The abuse of the sale of indulgences in Germany, where they was publicly retailed at ale-houses, and where the produce of particular districts were farmed out in the manner of a toll or custom, awakened the indignation of Martin Luther, an Atggustine friar, and professor of theology in - the university of Wittenberg. Luther preached and wrote against indulgences, and his writings were read with avidity, and his discourses heard with admiration. From abuses he proceeded to usurpations ; from usurpations to errors; and from one error to another, till the whole fabric of the Romish church began to totter.

Pope Leo X. in the mean time, alarmed at the progress of this intrepid reformer, had summoned bim to answer for his doctrines at Rome. But that citation was remitted, at the intercession of Frederic, surnamed the Wise, elector of Saxony, who had hitherto protected Lather; and his cause was ordered to be tried in Germany, by cardiaal Cajetan, a Dominican, 'eminent for scholastic learning, and the pope's legate at the imperial court. For this end, among others, he attended the diet at Augsburg : and thither Luther repaired without hesitation, aftor having obtained the emperer's safe condact, though he had good reason to decline a judge chosen from among his avowed adversaries.

The cardinal received him with decent respect, and endeavoured, at first, to gain him by gentle treatment; but finding him firm in his principles, and thinking it beneath the dignity of his station to enter into any formal dispute, be required him, by virtue of the apostalic powers with which he was vested, to retrict his errors (without shewing they were such), and abstain, for the future, from the publication of neqw and dangerous opinions. Luther was much mortified at this arbitrary mode of proceeding. His mative intrepidity of mind did not, however, forsake bim ; he boldly replied that he could not, with a safe conscience, renounce opiaions which be believed to be true; hat offered to sainit the whole coutcoyersy to the judgacnt of the Itarned, thaming certain uni- -
versities. This offer was rejected by Cajetan, who still insisted upon a simple recatttation ; and Lather, by the advice of his friends, after appeaing to a general council, secretly withdrew from Augsburg, and returued to his own country.

The diet of Augsburg was soon followed by the death of the emperor Maximilian. During his reign, Germany was divided into circles; and the imperial chamber and anlje council were instituted; order was given to government, and some degrec of vigour restored to the imperial authority.

We shall close this chapter with a brief sketch of the three northern kingdoms.
Denmark increased in prosperity during the reigns of Valdemar I. Canute VI. and Valdemar 1I. till at length it arrived at an amaziog pitch of power and riches. There were kept for constant service 1400 great and small ships for the king's use, cach, at a medium, carrying 121 soldiers, making the total of standing forces, besides garrisons, amount to 169,400 fighting men.

Such was the prodigious wealth and potency of this kingdom, about the year 1220, if we may credit contemporary writers; but from this time to the reigr of Valdemar III. we meet with nothing but civil dissentions; the expulsion and the number of princes. Valdemar. III. resumed most of the grants, which had alienated a large part of the royal domains, and enabled the nobility to excite innumerable disturbances: and by marrying his daughter Margaret to the king of Norway, laid the foundation of the celebrated union which afterward distinguished the reign of that princess.

Norway was converted to the Christian religion in the beginning of the 11 th century. and from that time became better known than before to the southern parts of Europe. Their king Olaus relinquished the religion of lis fathers, in 994. Barnard, an Englishuan, had the honour of baptizing him, when Olaus happened to touch at one of the Scilly islands. He plundered with great spirit during several years; and in 1006, received the crown of martyrdom from his pagan subjects.

But religious zeal soon proved subservient to purposes of commercial aggrandizement. The Hans towns poured in their missionaries, and reaped a teomporal harvest. By the year 1204, the merchants obtained from the wise prince Suer, every encouragement to commerce, who by that means introduced wealth and civilization into his barren kingdom. England by every method cherished the advantages resulting from an intercourse with Norway, and Bergen was the emporium. Henry III. in 1917, entered into a leagueqwith its monarch, Haquin, by which both princes stipulated for free access for their subjdgts into their respective kingdoms, free trade and security to their persons. In 1269, Henry entered into unother treaty with Magnus ; in which it was agreed, that no goods should be exported rrom either kingdom, unless they were paid for; and there was besides a humane regulation on both sides, for the security of the persons and effects of the subjects who should suffer shipwreck on their several coasts.

Fron the history of Sweden, which ascends to an high antiquity, but must be regarded -as uncertain before wieir conversion in the 10th century, it appears that Sweden and Denmark had been at intervals under the same monarch. The gegular and settled union of the three northenn kingdoms did not, bowever, take place, vill the time of Margaret of

Denthath, the Semiramis of the north. That abte and ambitious priacess having, by means of tiereditary pretensions, ethe influence of the clergy, her profound policy, and the suc-

- cess of her arms, obtained possession of the three crowns, procured that celebrated hiv to be enacted, which is called the union of Calmar.

It consisted of threc principal articles, which were established for the security of each natiou. The first imponed, that the three kingdoms, which were in a manner elective, should, benceforward, have but one and the same king, who should be chosen successively by each of the kingdoms, and then approved by a general assembly of the whole. The second article consisted in the obligation upon the sovereign to divide his time equaily in the three kingdoms, and to spend in ench the revenues arising to lim from each crown, without being able to apply the savings but for the good of that particular kingdom. The third and most important was, that each lingdom should retain its own laws, custous, senate, and privileges of every kind; and that the garrisons of each kingdom shonld be maintained at its own expence, and defended by its own forces; and that the subjects of one kingdom should not be raised to posts of profit and power in the other, but should be repoted foreigners, except in their own native country.

This union contained abundantly the seeds of discord, which we shall find in the next chapter breaking out into open war.

## CHAPTER V.

Germany anp fbe Nonts - From the accession of Chagles V. to the treaty of Westphatia.

THOUGH Maximilian could not prevail upon the German electors to choose his grandson of Spain king of the Romans, he had disposed their minds' in favour of that prince; and other circumstances, on the death of the emperor, conspired to the exaltation of Charles. The imperial crown had so long continued in the Austrian line, that it began to be considered as bereditary in that family; and Germany, torn by reli ious dispates, stood in aced of a powerfal emperor, not only to preserve its own intermal tranquility, but also to protect it against the victorious arms of the Turks, who, uider Sclim I. threatened the liberties of Furope. This fierce and rapid conqueror hud alrcady subdoed the Mamalukes, a barbarous militia, that had dismembered the empie of the Arabs, and made themselves masters of Egypt and Syria. The power of Charks appeared a cessary to oppose that of Selim. The extensive dominions of the house of Austria, which gave him an interest in the preservation of Germany; the rich sovereignty of the Netherlands and Franche-Compte; the entire possession of the great and warlike kingdom of Spain, together with that of Naples and Sicily, all united to bold him ap to the first dignity among Christian princes ; and the Now World seemed only to be called into existence, that its treasures might enable him to defend Christendom against the infidels. Such was the language of his partizans.
Francis I. however, no sooner received intelligence of the death of Maximilian, than be declared himself a candidate for the empire ; and with no less confidence of success than Charles. He trusted to his superior vears aud experience, with his great reputation in arms, acquired by the victory at Marignan, and the conquest of Milan. And it was further urged io his favour, that the impetuosity of the French cavalry, added to the firmness of the Geruan infantry, would prove irresistible ; and not only be sufficient under a warlike emperor, to set limits to the ambition of Selim, but to break entirely the Ottoman power, and prevent it from ever becoming dangerous ngain to Germany.

Both claims were plausible. The dominions of Francis were less extensive, but more united than those of Charles. His subjects were numerous, active, brave, lovers of glory, and lovers" of their king. These were stiong arguments in favour of his power, so necessary at this juncture ; bat be had no matural interest in the Germanic body; and the electors, hearing so much of military force on each side, became more alarmed fy their own privileges than the common safety. They deternined to reject both can-

- didates, and offered the imperial cown to Frederic, surnamed the Wise, duke of Saxony. But he, undazzled by the splendour of an objeet courted with so moch cajer-
nees by two mighty monarchs, rejected it, with a magnanimity no less singula than great.
"In times of tranquility," said Frederic, " we wish for an emperor who has no power to invade our liberties; times of danger demand one who is able to secure our safety. The Turkish armics, led by a warlike and victorions monarch, are now assembling; they are ready to poitr in upon Germany with a violence unknown in former ages. New conjunctures call for new expedients. The imperial sceptre must be committed to some band more powerful than mine, or that of any other German prince. We possers neither dominions, nor revenues, nor authority, which enable us to encounter such a formidable enemy. Recourse must be had, in this exigency, to one of the rival monarchs. Fach of them can bring into the field forces sufficient for our defeace. But as the king of Spain is of German extraction, as he is a member and prince of the enpire, by the territories which descend to him from his grandfather, and as his dominions streech along that frontier which lies most exposed to the enemy, his claim, in my opinion, is preferable to that of a stranger to our language, to our blood, and to our country." Charies was elected in consequence of this speech.

The two candidates had bitherto conducted their rivalship with emulation, but with out eumity. They had even softened their competicion by many expressions of friendship and regard. Francis in particular declared, with his usual vivacity, that his brother Charles and he were fairly and openly suitors to the same mistress: "The most assiduous and fortunate," added he, "will win her; and the other must rest contented." But although a generous and high-minded prince, while animated by the hope of success, might be capable of forming such philosophic resolutions, it soon appeared that be had promised a moderation too refined for bumanity, and which he was little able to practise.

The preference was no sooner given to bis rival, than Francis discovered all the passions uatural to disappointed ambition. He could not suppress his chagrin and iodignation, at being baulked in bis favourite purpose, and rejected in the face of all Europe, for a youth yet unknown to fame. The spirit of Charles resented such contempt; and from this jealousy, as much as from opposition of interests, arose that emulation between those two great monarchs, which involved them in almost perpetual hostilities, and kept their whole age in agitation.

When princes or private persons are resolved to quarrel, it is easy to find a brand of discord. Charles and Francis had interfering claims in Italy, and besides these various sources of competition and contention, the latter thought himself bound in hunour to restore the king of Navarre to his dominions, unjustly seized by the crown of Spain.

Heury VIII. of England was sought by both parties, but was at length drawn over to the interest of Charles.

This important point being secured, Charles repaired to Aix-la-Chapelle, where te was solemply iuvested evith the crown and sceptre of Charlemagne, in presence of a more splendid and numerous assembly than had appeared on any former inaugura-

fonh. About the atao time, Salymun II:. surnaiaed the Maguificent, one of the mont


 ef tin trezth of Selin


 the prace of crgiminy, ind to overtait the celuion of their ancestans:" Fhitoptrifons
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 extensive learaing, facemmon smyacity and herofo intrepility of poifit Antatad

 reionnich, he udvanced with more daring und hipid st gs to overtirn the ofote fibuic of
Vul. 1.

[^11]the establistred seligion, ant the pope's suprexacy was soon denied in the greater pat of Sixitzerland.
Such was the state gith reformation, when Chartes V. arived in Germanys No secular prince had yet entaraced tho new opiorons: no change in the establithed fomus of worslip had heen fimtroluced, nor any encroachments made upon the paisereinus of jurisdiction of the clergis: a doep inpressiai, bowever, was thade yjoa the mhads of the peaple ; their revercice for antient institutions and doctrines whas shaken: anidths materials "eret already scattered, which produced the conifegration - that aftermmet siread over all Europe,

Charles saw the flumes gathering: and as he found it ageescary to secore the friendahip of Lee N. He cited Lather to appear before the diet at Woris". I. wher did not hesitate a mognent about yiel fing obedigace : the necounpanied the horeld who lirunght the eqperors teter and saf-couduct. "I am Jomfotf ciltei to aperer in that city. suid be to some of bis friends, who were ansious for hivesafery : " and thither I will go, in the name of the Eord, though as many devils as tiles upon the houses were there assentifed agains me."
 sole principlei by which Luthice uss lufluenced, his receptina ot Wormis was such as he uighit have reekoned a futh reward for alt his labours, Vast cronds nsoemtited to aee
 burpougges of the highest rank, sho trented fim with all the reqpect that is due to supen fior merit, but which is more paticularly comuanded by those wha paskets the power of diecting the understanding and sentiments of others ltank or birh cun receive no tionage so flattering, for they can rective thone so stincre, or whet tins so fumer Giate a refercuce to those qualitics, which men call thair ging. Luther was not, humever, iutuxiented; ine behayed before the diet with equal decency and firmuess. Ife readily acknoufdiged an expess of velieurence and acrimony is lif controvenat writings: but he relusch to eftract his opinions, till goivinced of their fulvehood, of cousent to tbeir beug tride by any other atandard than the scriptime. Neither thereuts tior int tecaties could provail on him to depart from this resolution Sume af the tathere theren fore proposed to initate the example of the council of Constance, in its proccedings relative 20 Julin Husa; to commit to the flames the author of this pestilent heresy, now in then power, and detiver the church it once froin so dangerous unencmiy: but the menubers of the diet refising to expose the German integrity to fresh reproach, to a focolif violution of public fuith, aud Charles being no less wawiling to bring a stain Opon the beglating of his admiaistration by mich an imominigns measure, Luther was perinitted to depart in sofity. A fow diys Bfert be left the city, a severe ediet way frsued in the cuperar's name, and by authority of the diet, forbidding any prince to lases foar him, aud requiring all to concur in seizing his person, ins soon as his safe-condice was expired. Bit the elector of Saxony, his frithfal patron, took hitu ngain, though secretly, under his protection. Luther, in solitude, propagated his opintoing; bi't Charle: for a time, found otherematters to engage his atteotion.
A. D) 1329 - 30.

The aftention of the emperor was utinetes by ational event, which will be more folly related in thie prodecss of this work. First the Spaniuds broge out into open rebellion frojn the afisgust they conecived on account of the neglect of bieir sovereign. Francis Aetied thin upportanity to attempt the congraest of Navarve, and war, thos begon, soon giread to wher quarters ; to the Netherlands and the frontiers of Germany; but fell With its greatert weight upon Italy.
3 Francis uys defeated, taken ut Pavia in 1525 , apd Rome was plundered by the adhorcuts of Ctrartes, in 1527 . Hungory in the mean time was harassed by the Torks, who ware, bowever, checked by the emperor's brother Ferdinand.

The refurmation thal zafued mach groand in Germsay, during that long iuterval of frainquility, witch the atsocice of the euiperor, the contests betwecir hing and the pope, and Ais artoution to the war nith Prunce, ufforded is promuters. (Most of the princes who had enaliraced Lutber's gpiations, had not onty established in their territories that form of trorstip which he approved, hent hind entirely suppressed the rites of the Ronish clurch. Miny of the fike citics lind taitated thitir condoch. Amost one tialf of thic Gerranic budy had rovulied from the papal see ; and its dominions, even in that part Which had not yet shaken oft the yoke of Dlome, were considerably weakened by the vxampte of the neighthourthg states, or by the secfet progress of those doctrines which dind anderuined it atmong them.
Whatever sutinfaction the comperor, while at open enmity with the pope, might have filt tha flive events wlich tonded to mortify and embarrass tis holiness, he was at the same time sensible, that the religious divisions in Cermuny, would, in the end, prove fluctial to the imperial autiority, Accordingly, the prospect of an aecommodation with Clament to sooner opened, than Charles appointed a dict of the empire to be held at Sijire, in ordersto tuke into consideration the state of religion. The diet, after moch dippute, bsued a drevele. couffriming the edict published against Euther at Worms, and pruthbiting any furtice imozations in religion, but particularly the abolition of the unss, Wefore the wecting of a general council. Against this decree, as unjust and inpions, the efectur of Saxons, the landgrave of Hesse, the duke of Lavienburg, the prince of Antall, fogether with the deputies of 14 imperial or free cities, entered a solcmp protent. Oo that hecount they were called Protestants; an appelfation which has since become common lo all the seets, of whatever denomination, thit have revolted from the ctiurch of ltame.

Such was the state of religious matters, when Ctarles returned to Germang. Ife ass fitted in person at the diet of Augsburg; where the protestants presented theif systeis of opinions, composed by Melanction, the most learned and moderate of all the refurmers. This system, known by the name of the Confession of Augsburg from the place where it was presentod, was publicly read in the diet. Some popihh divines were appofited to cxamine it ; they lirought in their animadecrions; a dispute crsued betscon them and Melapetbon, seconded by some of his disciptes; and, as in miost cares

- of that kind, potbing wis determined. Every oue remained. io bin owit woy of thinking

Fron the protestant divinen, Charles turned to the princes, their patrons, but with wo better suecess ; they refusfd to abondon what they deensed the chuse of Goi, for bily earthly advantage. Coercive measures were resolved upoln. A decree was lkuod, ont demining most of the pecoliur tenets beld by the protestinti, and probibiting any one ti? toterate thove who taught them.

In eonseguence of tivis decree, which they constiemed as it prelishe to the most, lent pertacotion, the protestant pitaces assembled at Smalkalde, air suncliaded a lragug of mutbat detence fand the emperorb ambition, which led than ta get his broith elected king of the Roosans, ig order to coathue the iaiperiat crown in his fanily, far-
 princes. The kinter of Prance and Fogland secrelly agreed to sirppott them. Atein-
 fensoh to flempis the extirpation of heresy by the spord. He saw Solyman renity to enterituggary, with the whote force of the Tarkitil empire, in arder for wise oll the digrace whith hif arms had sustained in the former campaign; he felt the if centy of utiun, bot only for the accomplithinent of his fiture sectimes, but for arcertammolis freseat affey. The pence with France was precarious: and he why utrind that the followers of Lather, if treated whth severity, tight forget that tiey wete Clufitians, uby foin the lufisels. Palicy mide finm drop the matk of zeal. By a freaty concuded io
 protestanif fiberty of conscicice until the neeting of a fecberal conncil ; and they ageed, on their part, to assish him powertulty agines the Turks?

This traty was no sooner seged, tian Cluifes received ioformation, that Sofyunin

 finmednately assembled in the mightuarthood of Wienma. Of this vast budy. the cur
 sispence, the tisue of a decirive batto between the fou greateit potentinfes in fief uilierse

But' each dreading the others pourer anil pooil fortone, both conducted theif operations with so mach caution, that a umpalas. Fram wlich the onot impentirit cunfsequenes had been expectet; wos closed without any cuemorathe event. Sul nimp findr ing it iapossible to taLe advantage of an enemy always on bis gand, matrened back to Coastantinople ; and Chaires, freed frotu to daifgorom inis invader, sit out for Spais.

During the emperops hbserice, grent disorders prevalled in Cigmiant, oecavioned by the finaticisim of a sect of reformers, diafingainfed by themme of Amabaptirts, boe
 sons grown up to years of underntandiug and shablit him performed, not by spirikting them withwater, bat by dipping them in it. Thiv tenct was at ferst hartaliss; but they helat othe of more enthasiastic as, vich as hangerous nature. They inaintained, that, atoong Chris tians, nho have the precepts of the gospel to direct, and the spurit of God to goide theid,

## A. 1. $1555-35$.

NORTHERN EUROPE.
the office of magistrato is umneressary, and an eneronchment on spiritual liberty; that all distactions of birth or rank ought to be abolished; that in cowmunity of goods should be establistied, ond that evory man may marry as many wives as hé, thinks proper.

Tenets so flattecing to buman weakness and human pride, naturally produced a number of converts, especiaily among the lower class of people. The peasants greedily embraced opiaions which promised to place them on a level with their imperious masters. The'y assembled in great bodies, and spread devastation wheroer they came. But bejug destitute of a skifful lender, they were soon dispersed; and Muncer, dhe first anabaptist prophet, perished on a seaffold at Mulhausea, in 1505. Sevmal of his followers, hoivever, forited in different pruces, and secretly propugated the opinions of their sect. At last, tro emabaptist proplies, John Matthias, a baker of Harlem, and John Pocold, a juunneyman taylor of Leyden, possessed nith the rage of making proselytes, fixed their residence at Munster an imperial city in Westplulia ; and privately assensbling their associates from the neighbouring conntry, made themselves masters of the tonn, and expelled whom they pleased of the inhalit suts.

- Here the anabiptists tormed a simpular kind of republic, over which Matthias assumed absolute nuthority, and urote to his brediren in the Low Countrics, inviting them to assemble at Mount Sion, so he rermed Munster, that they might thence set out in a body, to reduce all nations under their dominion. Mcanwbile, the bishop of Munster having assembled a considerable army, alvanceil to besiege the town. On his approach, Mattiliss sallied out, at the head of a chosen band, forced his camp, and returnal to the city loaded with glory and spoil. But his success proved fatal to him. Thinking nothing now impossible for the farourites of heaven, be went out to meet the enemy, accompanied by no more than 50 of his followers; boasting that, like Gidcon, he would smite the host of the ungodly with a handful of men. The prophet and tis 30 associates were shin.

Thie anubaptists, however, did not despair: Jolin of Leyden, their other Light, stilt remained. I'his man, less bold, but more ambitious than Matthias, assumed the title of king; and being young, and of a complexion equally amorous and cothusiastic, be exercised, in their utmost latitude, those principles of his sect wish favoured sensual gratifications. He took, in a short time, no less than 14 wives. His example was fullawed by fis brelleren ; no man remained satiafied with a single wfice. The houses were searelied; and young women grown up to matuity were instantly seized, and compelled to marry. Notwithstanding this sensuality. Munster made a gallant defence; but the bistop's army being reinforced, and the besigged greatly distressed for watht of provisions, one of their own body deserted, and betrayed them. The city was taken by surprize : most of the anabaptists were slain; and their king was made prisoner and put to drath by the most exquisite and lingering tortures, all which he bore with astonishing fortiturde.

- This year was also distinguished by an expedition of the emperor against the pirates of Barbary, which exhuu-ted this treasures, and answered no iuportiont purpose. Hostilitis recomaneuced botween Chates and Francis, while alisaffection prevaiced in Vol. 1.


## NORTHERN EUROPR.

Spain and the Netherlands. For these reasons, it was not before $15: 5$, that Charles found leisure to turn his attention tovards the affairs of Germany. The protestants having in vain demanded a general council, pressed him carnestly to appoint a copaference hetween a select number of divines of each party, in order to cxamme the points in dispute. For this purpose, a diet was assembled at Ratiston : nnd such a conference, notwithstanding the opppsition of the pope, was held with great soleanity in the presence of the emperrir. But the divines chasen to manage the controversy, though men of learning eand moderation, were only able to settle a few speculative opinions, all points relative to worship and jurisdiction serving only to inflame the ninds of the disputants. Cluaries, therefore, finding his endeavours to bring about an accommodation ineffectual, and being impatient to close the diet, prevaild on the majotity of the members to approve of the following edict of recess; " that the articles concerning which the divines had ngreed, should be held as points decided ; that those about which they differed, should be referred to the determination of a general council; or, if that could not be obtained, to a national synod; and should it prove impracticable also to assemble a synod of Germany, that a general diet of the empire should be called withia 18 months, in order to give a final judguent on the whole controversy; that, in the wean time, no innovations should be made, nor any means employed to gain proselytes."

This ediet gave great offence to the pope. The bare mention of allowing a diet, comsposed cliefy of laymen, to pass judgment in regard tn articles of faith, appeared to him no less criminal and profane than the worst of those heresies which the emperor seemed so jealous to suppress. The protestants also were dissatisfied with it, as it considerably abridged the liberty which they at that time enjoyed. They murmured loudly against it ; and Charles, unwilling to leave any seeds of discontent in the empire, granted them a declaration, exempting them from whatever they thought injurious or oppressive in the edict of recess, and ascertaining to them the full possession of all their former privileges.

The situation, of the emperor's affairs, at this juncture, made these extraordinary concessions necessary. He foresaw a new rupture with France to be unavoidable, and he was alarmed at the rapid progress of the Turks in Hungary. A great revolution had happened in that kingdom. John Zapol Scaepius, by the assistance of Solyman, had wrested from the king of the Romans a considerable part of that country. John died and left an infant son. Ferdinand attempted to take advantage of the miniority, in orter to repossess limself of the whole kingdom ; but his ambition was disappointed, by the activity and address of George Martinuzai, hishop of Waradin, who shared the regeney with the queen. Sensible that he was unable to oppose the king of the Romans in the field, Martinuzzi satisfied bimself with holding out fie fortified towns, all which the provided with every thing necessary for defence ; and he at the same time sent ambassadors to Solyman, beseeching bim to extend toward the son that imperial protection which had so generously maintained the father on tbe throne. Ferdinand used his utmost endeavours to thwart this negotiation, and even meatily offered to hold the Hungetian crown on the same ignomintious conditions by which John had obtained
it, that of paying tribute to the Porte. But the sultan saw such advantages from espousing the interest of the young king, that he instantly marched into Hungary; and the Germans, having formed the siege of Buda, were defeated, with great slaughter ber

- fore that city. Solyman, however, instead of becoming the protector of the infant sovereign whom he had relioved, made use of this success to extend his own dominions; he sent the queen and her son into Transylvania, which province be allotted thero, and added Hungary to the Ouoman empire.

Happily for the protestants, Charles had received intelligence of this revolution before the close of the diet at Ratisbon ; and in consequence of the concessions which he made thens, he obtained such liberal supplies both of men and money, in order to prosecute the war against the Turks, as left bim litte anxiety about the security of Gerwany.

Now, therefore, be went on a second African expedition, in which be was unsuccessful, after losing great part of his army by the inclemency of the weather, famine, or ths sword of the enemy.

In consequence of the resolution of the emperor Charles V. to humble the protestant princes, he concluded a disadvantageous treaty with Francis I. and a dishonourable truce with Solyman II. He stipulated, that his brother Ferdinand should pay an annual tribute to the Porte, for that part of Hungary which still acknowledged his sway, and that the sultan should retain the imperial and undisturbed possession of the other. Charles at the same time entered into an alliance with Paul III. the reiguing pontiff, for the extirpation of heresy; or, in other words, for oppressing the liberties of Germany, under pretence of maintaining the jurisdiction of the holy see.

Meanwhile, a general council had been assembled at Trent, by the authority of the pope, in order to regulate the affairs of religion. But the protestants, though they had appealed to a general council, refused to acknowledge the legality of this, which they were sensible was convoked to condemn, not to examise their opioions. The proceedings of the council confirmed them in this resolution ; they therefore renounced all connection with it ; and as they had discovered the emperor's ambitious views, they began to prepare for their own defence.

The emperor, whose schemes were not yet ripe for execution, though much chagrined at this obstinacy, smothered his resentment ; and, in order to gain time, he attempted anew that dissimulation which he had so often practised with success. He assured and endeavoured to persuade the princes of the Smalkaldic league, that he had to design to abridge their spiritual liberty. It being impossible, however, to conceal his military preparations, he declared, that he took arms, not in a religious, but in a civil quarrel ; not to oppress those who continued to behave as quiet and dutiful subjects, but to dumble the arrogance of such as had thrown off all that sense of subordination in which they were placed soder him, as the head of the Germanic body. But the subatance of his *reaty with the pope, coming to light, these artifices did not long impose on the greater

- and sounder part, of the protestant confederacy. Its more inteligent members saw, that not onlo the sunnression of the reformed relimion. but the extinction of the Ger-
man liberties was intended; and as they determined neither to renounce thoso sacred truths, the knowledge of which they had attained by means so wonderful, nor to abandon those civil rights wbich had been transmitted to them from their ancestors, they bad immediately recourse to arms.

In the mean time, the death of Luther, their great apostle, threw the German protestants into much coryternation, and filled the catholics with excessive and even indeeent joy; neither party reflecting that his opinions were now so firmly rooted, as to stand in no*farther need of his fostering land. The members of the Smalkaldic league were also discouraged by the little suecess of their negotiations with foreiga courts ; having applied in vain for assistance, not only to the republic of Venice and the Swiss cantons, hot to the kings of France and England. But they found at home no difficulty in bringing a sufficient force into the field.

Germany obounded at that time in inhabitants. The feudal institutions subsisted in fall force, and enabled the nobles to call out their numerous rassals, and to pat the ia in motiou on the shortest warning. The martial spirit of the prople, not fraken or enervated by the introduction of commerce and arts, had acquired additional vigour during the continaal wars in whicis they had been employed for half a century ; eitier by the euperors or kings of France. On every opportunity of entering upon action, they were accustomed to run eagerly to arms; and to every standard that was erected, volunteers flocked from all quarters. Zeal seconded on this occasion their native ardour; men, on whiou the dectrines of the reformation bad made that deep impression which accompanies trath when first discovered, prepared to maintain it with proportional courage ; and among a warlike people, it appeared infamous to remain inactive, then the defence of religion and liberty were the motives for drawing the sword. The confederates were therefore able, in a few weeks, to assemble an army of 70,000 foot and 1500 horse, provided with every thing necessary for the operations of war.

The emperor was in no condition to resist such a force ; and had the protestants immediately proceeded to hostilities, they might have dictated their, own terms. But they improdently negotiated, instead of acting till Charles received supplies from Italy and the Sow Countries. He still, however, cautiously declined a bottle, trusting that discord and the want of money would oblige the confederates to disperse. Meantime, he himself began to suffer from the waat of forage and provisions. Great numbers of his foreign troops, unaccostomed to the elimate or the food of Germany, were become onfit for service ; and it still remained i doubtful point, whether bis steadiness was most likely to fuil, or the zeal of the confederates to be exhausted, when an unexpected event decided the contest, and occasioned a fatal reverso in their affairs.
Several of the protestant princes, overawed by the emperor's power, had remained neatral; while others, allured by the prospect of advantage, had voluntarily entered his service. Among the latter was Mauricc, marquis of Misnia and Thuringia, of the house of Saxony; a man of bold ambition, extensive views, and profound political talents. Aifer many conferences with Charles and his ministers, he concluded a trealy, by which" lis engaged to concur in assisting the emperor as a faithful subject ; and

Charles, in refurn, stipulated to bestow on him all the spoils of his relation and benefactor, the elector of Saxony, his dignities, as well as territories.
These engagements, however, so contrary to all that is justand honourable among pren, Maurice was able to conceal, as they had been formed with the most mysterious secrecy. And so perfeet a master was he in the art of dissimulation, that the confederates, notwithistanding his declining all connection with them, and his singular assiduity in paying court to the emperor, siem to have cotertained no suspicion of his designs. The elector of Saxony, when he marched to join his associates, even committed his dominions to the protection of Maurice, who undertook the charge with an insidious appcarance of friendship. But scarce had the confederates taken the field, when he began to consult with the king of the Romans, how to invade those dominions be tiad engaged to defend ; and no sooner did he receive a copy of the imperial ban, denounced against his cousin and his father-in-law, the elector of Saxony and the landgrave of Hesse, as leaders of the confederacy, than be suddenly entered one part of the electotal territories, at the head of 19,000 then, while Ferdinand, with an army of Fohemians and Hungarians, over-ran the other.
1.The news of this violent invasion and the success of Maurice, who, in a short time, made himseff master of the whole electorate of Saxony, exeept Wittenberg, Gotha, and Eisenach, no scoaer reached the camp of the confederntes, than they were filled with astonishment and terror. The elector immediately proposed to return bome with his troops, in order to recover his hereditary dominions ; and his associates, forgetting that it was the union of their forces whitei had hitherto rendered the confederacy formidable, and more than once obliged the imperialists to think of quitting the field, consented to his proposal of dividing the army.

Uhn, one of the chief cities of Suabia, highly distinguished by its zcal for the Sinalkaldic league, submitted to the emperor. An example once set for deserting the common cause, therest of the members became instantly impat ent tofollow it, and seemed afraid, lest others, by getting the start of itim in returning to thetr ailegisnce, should, on that account, obtrin more favourabie terms All the lerms, however, were sufficiently severe. Charles, being in great want of money, vot only imposed beavy fincs upon the princes and cisies that had taken arms agans: him, bot obliged them to deliver up their artilery and warlike stores, and to admit zarrisons in their priacipal towns and pleces of strength. Thus a confederacy, so powerful lately as to shake the imperial throne, fell to pieces, and was dissolved in the space of a few weeks; scarce any of the associates now remaining in arms, except the elector of Saxony, and the landgrave of Hesse, whom the emperor was at no pains to reconcile, baving marked them out as the victims of bis vengeance.

Mewrw hite, the elector, having expelled the invaders from Saxony, not only recovered, in a short time, pussession of lis own territorics, but over-ran Misnia, and stripped bis rival of ull that belonged to him, except Dresilen and Leipsic; white Maurice,

- obligetl to abandon ahe fielit to superior force, and to shut himself up in his capital, dispatelied courier after courier to the emperor, representing his dangerous situation,

Vol. 1.
ond ecliciting him, with the most carnest importunity, to march inmediately to his relief.

In the moan tine, a dowerful-league was forined, in which France engrged the asvistance of Sulyman II. of Venice, of England, and of Rome, to resist the progress of the imperial arnus. But this was frustrated by the death of Francis I, which delivered Charles from the impending danger.

This interval of security the emperor seized, to take vengeance on the elector and the landgrawe ; and, as be was uncertain bow long the calu might continue, he instantly marched into Saxony, at the head of 16,000 veterans. The elector's forces were noore numeraus, but they were divided. Charles did not allow them time to assemble. He attacked the main body at Mulhausen, near Mulberg ; defeated it, after an obstinate dispute ; and took the elictor prisoner. The captive primee was imur-diately condocted to the emperor, whou be found standing on the field of battle, is the foll exultation of victory. The elector's behaviour, even in this unfortunate and huubling condition, was alike equal, magnanimous, and decent. It was worthy of his galiant resistance. He alike avoided a sullen pride and a mean submission. "The fortune of war," said he, "most gracious emperor, has made me your prisoner, and I hope to be treated"-Here Charles rudely interrupted him; "And am I then, at last, acknowledged to be emperor? Charles of Ghent was the only title you lately allowed me. You shall be treated as well as you deserve ;" turning from him with a haughty air. To this cruel repulse, the king of the Romans added reproaches in his own name, using expressions still more haroh and insulting. The elector made no reply; bot, with an unaltered countenance, which discovered neither astonishment nor dejection, accompanied the Spanish soldiers appointed to guard him.

The emperor speedily marched towards Wittenberg, the capital, in that age of, the electural branch of the Saxon family, hoping that, while the consternation, occasioned by bis victory, was still recent. the inhabitants would submit as soon as he appeared before the walls. But Sybilla of C̣leves, the elector's wife, a woman equally distinguisbed by her virtue and abilities, instead of obeying the imperial summons, or abandoning berself to yars and lamentations, on account of her busbend's misfortunes, animuted the citizens, by her example, as well as exhortation, to a vigorous defence; and Charles, finding he could not suddenly reduce the place by force, had recourse to means, at once ungenerous and unwarlike, but more expeditious and certain. He summoned Sybilla, a second time, to open the gates; informing her, that, in case of refusal, the elector should answer, with his head, for ber olstinacy. And, in order to convince her that he was in earnest, be brought his prisoner to an immediate trial, subjecting the greatest priuce in the empire to the jurisdiction of a court martial, composect of Spanish and Italian officers ; who, founding their charge against bias upon the imperial ban, a sentence pronounced by the sole authority of Charles, and destituto of every legal formality which cuuld render it valid, presumed the elector convicted of treason and rebel- . lion, and condemned him to suffer death, by being beheaded.

Freleric was amusing himself in plaging at chicss with his follow prisoner, Emest of Brunswick, when this decree was intimated to him. He prfised a moment, though whiout any symptom of surprize or terror; and, after taking notice of the irregularity, as well as injustice of the proceedings agninst him, "It is easy," said he, "to comprehend the emperor's scheme. I must die, because Wittemberg refuses to surrender; and I will lay down my life with pleasure, if, by that sacrifice, I can preserve the dignity of my house, and transmit to my posterity the inheritance which I received from my ancestors. Heaven grant;" continued be, "that this sentence may affect my wife and children no more than it does me ! that they may not, for the sake of addiug a few years to a life already too long, renounce honours and territories which they were born to possess I ${ }^{\text { }}$. He then turned to his antagonist, challenged him to contiaue the game, and played with his usual attention and ingenuity.

It happened, as the elector had feared, the account of his coademastion was "not received with the same indifference at Wittemberg. Sybills, who had supported, with such undaunted fortitude, her husband's misfortunes, while she imagined bis person was free from danger, felt all her resolution fail, the moment his life was threatened. Anxious for his sufety, she despised every ather consideration; and was willing to make any sacrifice, in order to appease the rage of an inceased conqueror.

Meantime, Cliarles, perceiving that the expedient he bad tried began to produce the intended effect, fell, by degrees, from his former firmness, and allowed bimself to soften into promises of elemency and forgiveness, if the elector would show himself worthy of favour, by submitting to certain conditions. Frederic, on whom the consideration of what he himself might suffer, had made no impression, was melted by the tears of a wife whom he loved. He could not resist the entreaties of his family. In compliance with their repeated solicitations, he agreed to articles of accommodation, which he would otherwise have rejected with disdain ; to resign the electoral dignity, to put the imperial troops immediately in possession of his capital, and to remain the emperor's prisoner. In return for these important concessions, the emperor promistd, not only to spare his life, but to *ettle on him and his posterity the city of Gotha and its territory, together with a revenue of 50,000 florins. The Saxon electorate was instantly beslowed upon Maurice. This sacrifice Charles was obliged to make : as it was neither safe nor prudent to violate his engagements with a warlike priace, whom he had s aduced by ambitious hopes to abandon his natural allies, and whose friendship was still necessary.

The landgrave of Hesse, Maurice's father-in-law, was still in arms, but he thought no more of resistance. Alarmed at the fate of the elector of Saxony, his only care was how to procure favourable terms from the emperor, whom he now viswed as a cunqueror, to whose will there was a necessity of submitting. Maurice encouraged this tame spirit, by magnifying Charles's power, and boasting of his own interest with his victorious ally. - The landgrave accordingly threw himself at the emperor's feet, after ratifying what terms

- he was pleased to impose, Maurice and the elector of Brandenberg being sureties for his personal freedum: But his submission was no sooner made, than Charles ordered


## NORTHERN EUROPE.

him to be arrested, and detained prisoner under the custody of a Spanish guard ; and when the elector and Marice, filled with indignation at heing made the instruments of decciving and ruining their friend, represented the infamy to which they would bo $8 x-$ posed, unless , the landgrave was set at liberty ; that they were bound to procure his releasc, baving pledged their faith to that efficet, and even engaged their own persous as sureties for his, the emperor, who no longer stood in need of their services, coolly replied, that he was ignorant of their particular or private transactions with the landgrave ; nor was his conduct to be regulated by theirs, " I know," added be, in a decisive tone, " what I myself bave promised ; for that alone I am answerable." These words put an end to the conference, and all future entreaties proved ineffectual.

Charles, having now in his power the two greatest prinees of the empire, carried them ahout with him in triumph ; and, having humbled all whom he had not attached to his interest, proceeded to exercise the rights of a conqueror. He ordered his troops to seize the artillery and military stores of all who had been members of the Smalkaldic league ; and be levied, by his sole authority, large sums, as well upon those who had served him with fidelity, as upon such as had appeared in arms against bim. Upon the former, es their contingent towards a war, undertaken, as lie pretended, for the commen benefit ; upon the latter, as a fine, by way of punishment for their rebellion. His trother Ferdinand tyramized with still more severity over his Bohomian subjects, who had taken arms in support of their civil and religious liberties : he stript them of all their antient privileges, and loaded them with oppressive taxes.

The good fortune, or, as it hats been called, the Star of the house of Austrin, was now at its height. The emperor, baving humbled, and, as he imagined, subdued the independent spirit of the Germans, summened a diet to meet at Augsburg, " in erder to compose finally the controversies with regard to religion, which had so long disturbed the German empire ;" or, in cther words, to enslave the miods of those whose persons and properties were already at his disposal. He durst not, however, commit to the free suffrage of the Germans, broken as their spirit was by subjection, the determinativn of a matter so interesting. He therefore entered the city at the bead of his Spanishtroops, and assigned them quarters there. He cantoned the rest of his army in the adjacent villages ; and he took possession, by force, of the cathedral, together with ene of the principal ehurches, where his priests re-citablished, with great pomp, the rites of the Romish worship. These preliminary steps being taken, in order to intimidate the members, and to make them acquainted with the emperor's pleasure, he opencd the dict with a speech, in which fe pointed out the fatal effects of the religious dissentions which had arisen in Germany; exhorted them to recognise the authority of , the gencral council, which he had taken so much pains to procure ; and to stand the award of an assembly to which they had originally appealed, as having the sole right of jodgment in the case.

Bot the council, to which Churles wished to refer all controversies, had andergone, hy fhis time, a violent clange. The same jealuusy which had made the pope recal his troops, had also made him tramslate the council to Bologna, a city subject to bis own
jurisdiction. The diet of Augshurg,inverimed by threats, and inflienced by promises, prtitioned the pope, at the enipecor's- desire, in the nitme of ilje, nhivle Germanic body, to gejoin the prelates, who had retired to Bologna, to return agein to Treat, and renew tyieir deliberationsin that place. But Paol eluded the demand. He made the fathers at Bologra, ta whiom he referren the pietition of the diet, put al direet idegative upon the request ; and Charles, as he contd no longer hope to acquira such ao ascendant in the council, as to render it subservient to his ambitious aim, and to prevent the authority of so vencrable an iassembly froin being turned against bim, scat two Spanish law yen to Bologina, who, in presence of the legates, protested, That the translation of the: council to that place had been unnecessary, and founded on false or frivolons pretexts ; that while it continued to meot there it ought to te decmed an uniaiffut and schismatio cal conventicle, and all its decisions held null and void; and that, as the pope, together with the corrupt ecelesinstics who depended upon lim, (those who deprended upon. Charles having remained at Trent) had abondoned the care of the church, the emperor, as its protector, would emplay all the power which God had committed to him, in order to preserve it from those calamities with which it was threatened.
In consequence of this resolution, Charles emplayed some divines of known abilities and learning, to prepare a syitem of doctrine, which be presented to the diet, as what all should conform to, "until a council, steh as they wishied for, could be called," Hevie thie aaue' Interim, by which this system is known. It was conformable in almoit every article to the tenets of the Romish ehurch; anid the Romish rites were ent joined: but all disputed doctrines were expressed in the soffest words, io scripture plasases, or in terms of studied ambiguity. In regard to two points only, some relaxatign of popish rigour was granted; and some latitudo in practice admitted. Sucb eceleslastics as had married, and did not choose to part from their wives, were allowed, nevertheless, to periorm their sacred functions; and thase provinces which had been uecustoined to partake of the eup, as well as of the bread in the communion, were still iodulged the privileges of receiving both.

This treatise being read in presence of the members, according to form, the archbistrop of Mentz, president of the electonal college, rose up hastily, as soon as it was: finished, and, haxing thanked the emperor for his unwearied endeavours to restore peace to the church, siguified, in the name of the diet, their approbation of the system of doctrine which bis imperial majesty had prepared, together with their resolution of conformIog to it in every particular. And, although the whole assembly was amnzed at a declaration so unprecedented and unconstitutional, as woll as at the elector's presumption, is pretending to deliver the sense of the diet apon a point which had not hitherto beenthe subject of constitation or debate, not one member bad the courage to contradict what hio had said. Charles, therefore, helt the archbishop's declaration to be a ratification of the Interim, and prepared to eaforge the obseryance of it as a decree of the: eqpire:
The Interim iwas accordingly published immediately after the dissolation of the diet;. in the German, as well as in the latio labguage ; but, like all contuliating sehetnes pror Vol. I.
posed to men heated by dispntation, it pleased neither party. The protestants thoisitit it granted too little indلfenee; the eatholics too mueb; hoth wore dissatijfied. The emperor, however, lfond of his plan, adhered to his resolution of cerrying it into egeeution. Bat this proved one of the mest difficalt and dangerous undertakings lia hig reign ; for, althougb thrce protestant "prinees, Maurice, the electon of Palatino, and the eloctor of Braindeniergs, ngreed to receive the Interim, several athers remositrated against it; and the free eities, with one voice, joined - in refusing to admit it, till force taught theut sabenission. Aagsburgi and Ulim being barbarously stript of their privileges, on account of their opposition, many other cities fefignod compliance. - Put this obelience, extorted by the rigour of authority, produced no change in the sontiments of the Germans. They submitted, with roluctance, to-fie power that oppressed thein; and atthough, for a time, they conccaled their resentament, it wes daily gathering forcev and soon broke forth with such a violence that shook the impcrial throne,

In this moment of general submission, it is worthy of remark, that the elector of Saxany, though the emperer's prisoneryiand tempted botb by threats andipromises, refused to lend his sanction to the Interimnitifter declaring his fixed belief in the doctrines of the reformition, "I carmot now," said beja" in thy old age, abandon the principlesp for which I early contenifed ; nor, in order to procure freedom gluring a few declining years, will I betray that good cuiuse, on aecount of which I haversuffered so mucb, and an willing to suffer; better for me to enjoy, in this solitode, the esteem of virtuous men, together with cthe approbation of my own coascience, than to retum into the world with the impatation and guilt of ayostacy, to diggrace and cinbiter the remiainder of thy days."

In 1550, the emperor hold irdiot at Augshurg, in order to enforce the olsservation of the Iuterim, lind to proeure a more anthentic act of the cmpire, neknowledging : the jurisdiction of the council, then about to assemble at Trent, as well as an explicit prom nise of conforming to its reerees. And such absolute ascendaucy had ,Charles nequiret over the members of the Germanic body, that be procured as recess, in which the suthority of the counhil was recognisorl, and declared to be the proper remedy, for thoccils which?aflictod the chureh. The obscrvation of the Interim was moresstrictly eajoined than ever; and the emperor threatened all who had hithento neglected or refused to conform to it, with the severest effeots of his vengeance, if they persisted ia their disobedienge:

During the meeting of this diet, a now attempt was made to procure liberty to she landgrave. Nowise reconeiled by time to his condition, he grew every day, more ithpatient of restraint, and often applied to Wis surctics, Maurice and the, elector of Brandenburg, who took every epportanity of soliciting the epperor in "his be belf, thoush without effect. He now commanded his sons to summon, them, with legel formality, toperforin their engagemonts, by surrendering themselves to be treated as the emperor treated him. Thus, pushed to extremity, the sureties renewed their application ig. Charles. $n$ Resolved not to grint their reqoest, but anxipus, to gat rid of their incessant imprestunity, the eappefor endeavoured to provail on tho landgrave to give up the obli-
efion whiti lie had received from them; and when that prince tefused to part with a security wlieh he demued essentiat to his safoty, Charles, by a singular act of despotism, cubtbe knot which be could thot untie. As if faith, bonour, and conscience, had beea subjocted to his sway, be, by a public /deed, annulled the bond which Maurice and the elector of Bratdenbirg -had granted, aind absolved them from all their obligations to the landghive : A power of cancellirg those solemn contracts, whioh are the foundation of that pritual confidence wfiereby men are held together in social union, ims asver claimed by the most-despolic princes or arrogating priests of heathen antiquity: that enormiobs usarpation was reserved for the Roman poatiffs, who had readered themselves odious by the exercise of such a pernicious prerogative; all Germany was, therefore, filted ivith astonishment, wheo Ctiarles assumied the same rigbt. The princes, who had litliefto contributed to his aggrandisement, beganito tremble for their own safety, and to take wieasures for preveinting the danger:

The first cheel which Charles niet with in his ambitious projects, and which convinced biun that the Germans were hot yet slaves, was in his atteunpt to transmit the empire, as well as the kingdom of Spain, nad lis dominions in the Low Countries, to lis son Plilip. He had formerly assisted his brotber Ferdinand in obtaining the diguity of ling of the Romans : and that prince had not only studied to reader himself acceptable to the people, but lind a soin who was born in Germany grown up to the years of manhood, nud who possessed, in an eavinent degree, such qualities as rendered him the. darling of his countrymen. The iemperor, however, warmed with contemplating this vast desigy, flattered himself that it was not impossible to prevail on the electors to caneel their former choice of Ferdinatd, or, at least, to elect Pbilip a second king of the Ronans, substituting hion as next in succession to his uncle. With this view, be took Philip, whio had been edsented in Spain, along with bin to the diet at Augsburg, that the Germans'might have on opporfanity to observe and become acquainted with the prince, in whrose behatf he solicited their interest; but no sooner was the proposal made known, thin all the electors, the eeclesiastical as well as secular, coneurred in expressing fuch strong disapprobition of the ineasure, that Charles was obliged to drop his project, as impracticable. They foresaw that, by contiouing the imperial crown tike an hereditary' dignity in the same family, they should give the son'an opportanity of carrying on that system of oppression whichithe father had began, and put it in his power to overtarn whatever,was yet left entire in the antient and venerable fabric of the German consitution.

In thie mean time, the council of Trent proceeded to determine the great points in controvensy conferning the kacrament of the Lord's supper, penance, and extreme unction ; and the efriperor strained his authority to the utmost, in orcier to establish the repatation and jurisdiction of that assembly.
2The protestints were probibited tol teach any doctrine contrary to its decrees or to the venets of the Romish church ; and, on their refasing compliance, their pastors were eject-

- ed aud"exiled ; such magistrates as find distinguished themseives by their attachment to the new opinions were dismissed; ; their offices wore filled wth the most bigoted of,
their aflversaries: and the people were competled to stfend the ministratiou of prisats yhom they regarded as jdolaters, and to submit to the authority of rulers whom they detested as asurpers.

These tyrannical tweasures fully opened the eyes of Maurice of Saxony, and other Luthicran prinees, who, allured by the promise of liberty of conseience, and the pros: pect of farther advantages, had assisted the emperor in the war against the confederates of Smalkalde Maurice, in particular, who had long beheld, with jealous concern, ibe usurpations of Charies, now saw the necessity of setting bounds to them; and lie, who had perfidiously stript his nearest relation and benefactor of his hereditary possessions, nud been chiefly instromental in bringing to the brink of ruin the civil and religious liberties of tis country, became the deliverer of Oermany, of
The policy, with which Maurice conducted bimself in the execution of his desigo wha truly admimable. He was so perfect a master of address and dissimulation, that he retained the cumperor's confidence, while he recovered the good opinion of the protestants. As he kaew Charles to be inflexible, with respect to the subanission which he required to the Iaterim, be did not hesitate a moment whether be should establish that form of doctrine and worship in his dominions : be even undertook to reduce to obedience the citizens of Magdeburg, who persisted in rejecting it ; and he was chosen general, by a diet assembled at Augsburg, of the imperial army levied for that purpose. Hat he, at the same time, issued a declaration, containing professions of his zealous attachment to the reformed religion, as well ns of his resolation to guard against all the errors and eneroachments of the papal see; and he entered his protest against the aur thority of the council of Trent, unless the protestant divines had a fall hearing grantel them, and were allowed a decisive voice in that assembly ; unless the pope renousced liss pretensions to preside in it, would engage to submit to its decrees, and to absolve the bishops from their oath of obedience, that they might deliver their sentiments with greater freedou. He reduced Magdebarg after a seige of 19 months, protracted by design, in order tiket his schemes might be ripened before his army was disbandeder The public articles of capitulation were perfectly conformable to the emperor's views, and sufficiently severe. But Maurice gave the magistrates secret assurances that their city shoold not be dismanted; ; and that the inhabitants should neither be disturbed in the exercise of thetr religion, nor deprived of any of their antiedt privileges; and they, in their turn, elected him their burgrave, a dignity which had formerly, belonged to the electoral house of Saxony, and which entitled its possessor to very ampla jurisdietion, both in the city and its depepdencies.

Parf from suspecting any thing fraudulent or collasive in the terms of accommodation, the emperor ratified them without hesitation, freely absolving the Magdeburgers from the sentence of ban denounced against them; and Maurice, under various pretences, kept liv/ veteran troops in pay, while Ctharles, engaged in direeting the affairs of the council, entertsined no appreheusion of his designs. But, previous to she unfulding of theso. designs, some acrount inust be given of a new rosolation in Huagary, which contributed, not a little, 'Roward the extraordinary suceess of Alaorice's operatiuns.

- Sulyoman had deprived the young Aing of Hungary of the domiaions whitb his father nad leit liin, and granted that unfortunate prince the country of Transylvania, a proviged of his paternail kinglom. The government of this provinct, together mith the care of *ducating the infant king, (for the sultan-still allowed him to retain that title,) mas conimitted to L sabellia, the queen-mother, and Martinnozzi, bishop of Waredin, whom thio late king of Hongary bad appointed his son's goardians, and regents of his douiniong. This co-ordinate jurisdiction occasioned the same dissentions in a small priacipality, whieh it would have excited in a great monarchy. The queen and bishop grew jealous otrach other's authonty : both had their partizans amongst the nobility ; but as Martinnuzzi, by his superior tatents, hegan to arguire the ascendant, Isubella courted the protiction of the Turks. The politic prelate saw lis danger; and, through the mediation of some of the nobles, whe nere sulicitous to save dieir conntry from the calamities of a civit wiar, fie conciuded an gigeenent with the queen. Dut lie, at we same tume, secretly di-patched one of bis confadants to Vienas, and entered into a negotiation with the hing of the Romans, whom he offered to assist in expelling the Turks, unt in recuvering pussession of the timgarlian throne.

Allured by such a tlattering prospect, Ferdinand agreed, notuithstanding bis truce with Solymnn, to invade the pribeipality of Transylvania. The troops destined for that service, cousisting of veteran Spanish and German soldiers, were cownanded by Castalito, marquis de Piatena, an officer of crent knowledge in the ait of war, who was powerfully arconded by Martinnuzzi and his faction among the Ilungarians; and the sultan being then at the beat of his forces on the borders of Persia, the Tunkish bashaws could not ufford the queen such immediate or effectual assistance as the exipency of ber alfains miquired. Slar was, therefure, obliged to listen to such conditions as she would, at any other time, have rejrcted with divifain. She agreed to give up Traaslvania to Ferdiand, and to make over to him her son's title to the crowa of Hungary, ia exchange for the pincipalities of Opphelen and Ratibor, in. Silesia, for which she immediately set out.

Martinnuzzi, as the reward of his services, whs appointed governor of .Transylvania, with almost unlimited authority ; and he proved himself worthy of it. He conducted the war against the Turks with equal ability and success ; he recovered soaie Praces of which they bad taken possession; he rendered their attempts to reduce others utortive ; and the establisthed the dominion of the king of the Romans, not only in Transylvania, bat in several of the adjacent conntries. Always, howiver, afraid of the talents of Martinmuzi, Ferdinand now became jeatous of his power: and Castatdo, by inipating to the governor designs which he never formed, and charging biun with actions of which he was not guilty, at last convinced the king of the Romans, that, in order to preserve his Huppariancrown, he must cut off that ambitions prelate. The fatal mandate was uccordimply ismued: Castaldo willingly undertook to execute it : Martinuizzi was assassinated. Bot Ferdinand, instead of the security which be expected from that barn barous measure, found his Hangarian territories only exposed to more certais danger. The nobles, detesting sucb jealous and cruel policy, either retired to their own estites Vol. 1.
-9 D
or grew cold in the service, If thicy conthued in the Austrian army ; u lite the Turks, encouraged by the death of na cnemy, whose vigour and abilities they dreaded, prepared to renew hostilities with Iresh vigour.

Maurice, in the mein time, having almost finished his intrigues and preparations, "was on the puint of taking the field against the emperor. He had concluded a treaty with Henry II, of France, who wished to distinguish himelf by trying his atrength agniust the same enemy, whom it had been the glory of his father's rejug to oppose. Bot as it wouldhave been indecent in a popish prince to undertake the defence of the protestant church, the interests of religion, bow much soever they might be affected by the treaty, were not once mentioned in any of the articles. The only motives assigned for now leaguing against Charles, were to procure the lanigrave liberty, and to prevent the subversion of tho antient constitution and laws of the German cmpire. Religious concerns, the confederates pretended to commit entirely to the care of providence.

Having secured the protection of the Frenels monarch, Marice proceeded with great confidence, but with equal caution, to execute his plan. As he juithel it necessary to demand once more, before he took off the mank, that the landgrave should be set at liberty, be sent a solemn embassy, in which most of the German princes joined, to the emperor at Inspruck, in order to enforce his request. Constant to his system, in regard to the captive prince, Charles eluded the demand, though urged by some powerful intercessors. But his application, though of no benefit to the landgrave, was of infinite service to Maurice. It served to jostify his sulisequerit proceedings, and to demonstrate the necessity of taking arms, in order to extort that rquitable succession, which tis mediation or entreaty could not olstain. He accordingly dispatehed Albert of Brandenburg to Paris, to hasten the march of the Frencharmy: he took measures to bring his own troops together on the first summons ; and he provided for the security of Saxony while he stould be absent.

All these complicated operations were carried on with so much secrecy, as to elude the observation of Charles, whose sagacity, in observing the conduct of all around bim, commonly lect tim to exeess of distrust. He remained in perfect tranquillity at Inspruck, solely occupied in counteracting the intrigues of the pope's legate at Trent, and fn settling the conditions on which the protestant divines should be adnuitted into the council. Even Grauville, bishop of Arras, his prime minister, though one of the most subtle statesmen of that, or, perhaps, of any age, was deceived by the exquisite address with which Maurice concealed his designs. "A drunken German head," replied he, to the duke of Alva's suspicions, concerning the elector's sincerity, " is too gross to form any scheme which I cannot easily penetrate and batte." Granville was, on this occasion, however, the dupe of his own artifice. He had brioed Maurice's ministers, on whose information he depended for their master's intentiols ; but that prince having fortunately discovered their perfidy, instearl of punishing them for their crime, dexterously availed himself of their fraud. He affected to treat these ministers with greater confidence than ever : he admitted them into bis consultations, and seemed fo Jay open his heart to them ; but be took care, ail the while, to make them acquainted
with nothing but what it was bis interest should be known, ond they transmitted to Inspruck such accounts, as lulled the crafty Granville in security.

At last, Maurice's preparations were completed: and he hifd the satisfaction to find, that his designs were still unknown. But, ulthough ready to take the field, he did not yet lay aside the arts bo bad bitherto employed. Pretending to be indisposed, he dispatched one of the ministers whom Granville had bribed, to joform the emperor, that he. meant soon to wait upon him at Inspruck, and to apologize for his delay, In the mean time, he assembled his aring, which amonated to 20,000 foot and 5,000 horse, publishing, at the same time, a manifesto, containing his reasons for taking arms ; namely, to aecure the protestant religion, to maintain the German conssitution, and the landgrave of Hesse from the miscries of a long and unjust imprisonment. To this the king of France, in his own name, added a manifesto, in which he assumed the extraordinary appeliation of protector of the litierties of Germany and its captive princes.

No words can express the emperor's ustonishment at events so unexpected. He was not in a condition to oppose such formidable enemies. His embansosment increased their confidence: their operations were cqually bold and succesoful. The king of France imuediately entered Lorrain, made bimself mester of Tool, Verdun, and Metz; while Maurice, no less intrepid and caterprising in the field than cautious and crafty in the cabinet, traversed sll Upper Germany, every where reinstating the magistrates whoin Charles had deposed, and putting the ejected protestant ministers in possession of the charcties.

The emperor bad recourse to negotiation, the only resource of the weak ; and Maurice, conscious of bis oan political talents, and willing to manifest a pacific disposition, agreed to an interview with the king of the Romans in the town of Lintz, in Austrin, Icaving an army to proceed on its march, under the command of the duke of Meckicnburg. Nothing was determined in the conference at Listz, except that another should be beld at Passau. Meanwhile, Maurice continucd his operations with vigour. He marched directly towards Inspruck : and, hoping to surprize the emperor in that open town, he advanced with the most rapid motion that could be given to so great a bodyof men, forcing several strong passes, and bearing down all resistance.

Charles was happily informed of his danger a few hours before the enemy's arrival; and, although the night was far adyanced, dark and rainy, he immediately fled over the Alps in a litter, being so macls afflicted with the gout as to be incapable of any other mode of travelliug. Enraged that his prey should escape him when he was just on the point of seizing it, Maurice pursued the emperor and his attendants some miles; but, finding it impossible to overtake men, whose flight was hastened by fear, he retorned to Inspruck, and abandoned the emperor's haggnge to the pillage of his soldiers. Meantime, Charles pursued bis journey, and arrived in safety at Villach in Carinthin, where he continued till mattera were finally settled with the protestant prinees.

In consequence of Maurice's operations, the council of Trent broke up. The Gerrgan prelates, anxious for the safety of their territories, returnod home ; the rest were

- extremely impatient to be gone ; and the legate, who bad hitherto disappointed all the
endeavours of the imperial ambassators to procure the protestant divines an audience in the council, gladly land hold ou such a plasible pretext for dismissiag an assemityr, which he lad found so gifficult to govern. The breach which bad been anade in the church, instead of being closed, was widened ; and all mankind were made sensible of tho inefficacy of a general council for reconciling the contending parties.

The victorious Maurice repaired to Passan, on the day uppointed for the second $\mathrm{con}_{3}$ ference with the King of the Romans : and, as matters of the greatest consequence to alio future peacy and independencies of the empire were then to be agitated, thither resorted the ministers of all the electors, together with deputies from mast of the e-miderable prinecs and free cities. The elector limited his demand to three articles set forth in a manifesto : namely, the fiberty of the landerive, the pellice exerciee of the protestant religion, and the teestablishuent of the antient eonatitution of Giernany.

These demands appearing extravagant to the imperial ambassadors, they were presented by Ferdinand to the emperor in person, at Villach, it the name of all the princes of the empire, popish as well as protestant: in the name of such ms had assisted in forwarding his ambitious schemes, as well as of those who had viened the jrogress of his poiter with jealousy and dread. Unwilling however, to totego at once ebjects which he had long pursued with ardour and hope, Clarles, notwithatanding his need of peace, wis deaf to the united voice of Germany. He rejected the proffered terms with disdain; and Maurice, well acquainted with the emperor's arts, surpecting that the meant only to amuse and diceive, by a show of negotiation, inuenediately rejoiand bis troops, and laid seige to Frankfort on the Maine. This measure had the deoired offect. Firm and haughty as his nature was, Charies found it necessary to make concessions; atid Maurice thought it more prudent to accept of conditions less advantagoous than those be had proposed, than again commit all to the doubtfol issue of war. He therefore repaired once more to Passav, renewed the congress, und cuncluded a peace on the following terins : "The confederates shall lay down their arms before the 1eth day of August ; the landgrave shall be set at literty, on or before that day; a diat shall be held within six months, in order to deliberate concerning the most effictual method of preventing, for the future, all dissensions concerning religion ; in the mean time, no injury shall be offered to such as adhere to the confextion of Augsburg, nor sball the catholics be molested in the exercise of their religion ; the imperial chamber shall administer justice impartially to persons of both parties, and protestunts be admitted iudiscrimmately with catholics to sit as judges in that court ; the encroachments, said to have been made upon the constitution and liberties of Germany, stiatt be remitted to the corsideration of the approaching diet of the empire, and if that diet should not be able to terminate the disputes respecting religion, the stipulations in the present treaty, in behalf of the protestants, shall coutinue fur ever in full force?"

Such was the memorable treaty of Passau, which set limits to the authority of Cturles V. overturning the vast fabric which he had employed so many years in erecting, and establishing the protestant church in Germany, upon a firm ond secure basis, It is singular, that, in this treaty, no article was insertod in favour of the king of France,
te whom the confederates had been so moch indiehted for their suceess. But Henry II. experienced oaly the treatment which every prince, who lends his aid to the authors of a civil war, may expect. As soon as the rage of faction began to subside, and any prospeet of accommodation to open, his services were forgotten ; angl his associates made a aierit with their sovereign of the ingratitade with which they had abandoned their protector.

The treaty of Passau was no sooner signed, than Maorice, the deliverer of Germany, marched into Hungary against the Turks, at the head of $90,000 \mathrm{men}$, in consequence of his eagagements with Ferdinand, whom the hopes of such assistance had made a most zealous advocate of the confederates. But the vast superiority of the Turkish armies, together with the dissensions between Maurice and Castaldo, the Austrian general, who was piqued at being superceded in the command, prevented the elector from performing any thing in that country worthy of his former fame, or of much benefit to the king of the Rowans.

Mesntine Germany was still disturbed by the restless ambition of Albert of Brandenburg, who had refused to be comprehended in the peace of Passan; and as that princz obstinately continued his violences, notwithstanding a decree of the imperial chamber, a league was forned against him by the most powerful princes in the empire, of which Maurias was declaied the head. This confederacy, however, wrought no change in the sentiments of Albert. But as be knew that he could not resist so many princes, if they had leisure to unite their forces, he marched directly against Maurice, whom he dreaded the most, and hoped to crush him before he could receive support from his allies ; though io that he was deceived, Maurice was ready to oppose him.

These hostile chiefs, whose armies were nearly equal in numbers, each consisting of 24,000 men, met at Siverhausen, in the duchy of Lunenburg. There an obstinate battle was fought, in which the combat long remained doubtful, each gaining ground upon the other alternately ; but, at last, victory declared for Maurice, who was superior in cavalry. Albert's army fled in confusion, leaving 4,000 men dead on the field, and their baggage and artillery in the hands of the enemy. But the allies bought the victory dear. Their best troops suffered greatly ; several persons of distinction fell; and Maurice himself received a wound of which be died two days after, in the 32 nd yeas of his age. No prince, antient or modern, ever, perhaps, discovered such deep political sagacity at so early"a period of life. As be left only one daughter, afterwards married to the famous William, prince of Orange, John Frederic, the degraded elector, claimed the electoral dignity, and that part of his patrimonial estate of which he had been stripped during the Smalkaldic; but the states of Saxony, forgetting the merits and sufferings of their former master, declared in favour of Augustus, Maurice's brother. The unfortunate, but magnanimous, John Frederic, died soon after this disappointment, which he bore with his usual firmness ; and the electoral dignity is still possessedy by the descendants of Augustus.

The consternation which Maurice's death occasioned among his troops, prevented them from making a propes wre of their victory; so that Albert, having rc-sssembled his : Vol. I.
biroken forces, and made fresh-levies, renewed bis depredations with additional fury: Hor, being defeated in a second battle, scarce less bloody thun tho former, by Heary of Brunswick, who bad taken the command of the allied army, he whs driven from all his heredifary dominiong, as well as from those he had usurped; he was laid under the bian of the cmpire, and obliged to take refuge in Fraace, where he lingered out a fow years in un indigent and dependant state of exile.

During the years 1554 and 1555 , war raged in Italy and the Low Conntries, accompraicd with oll its train of miseries, and all the crimes to which-ambition gives infth ; but Gerimany erjoyed such profound tranquillity, as afforded thot diet fall teisure to confirm and pericet the plan of religions pacification agreed upon at Passab, mat referred to the consideration of the next mecting of the Germanic hodly. For this porpose, a dict bad been summoned to meet at Augsburg . oon atter the conclnsion of thiotreaty : but the commotions excired hy Albert of Brandenbars and the attention which Ferdiaand was obliged to pay to the affiors of Hungary, hasd litherto obatructed its de-1 liberations. The following stipulations were at last settlest, and formally pablished; namely, "That such priuces and cities as have dechared their approliation of the confession of Augsburg should be promitted to profess and exercise, without molestation, the doctrine and worship which it authorises ; thut the popish ecclesiastics shalh cloim no spiritual jurisdiction in such caties or priucipalities, nor shall the protestants molest the priaces and states that adbere to the chareh of Rume; that no atteupt shall the made for the future toward terminating religious differences, except by tho gentle and pacific methods of persuasion and conference: that the supreme civil power, in every state, may establish what focm and doctrine of worship it shall docm proper ; but shal! permit those who refuse to conform, to remove their effects; that sueh as had seixed the benefices or revenues of the clumech; previous to the treaty of Passau, shall retaio possession of them, and be sulfect to no prosecution in the imperial chambenten that account ; but if any prelate or ecelesiastic shalt hercafter abandon the llomish religion, he shall instantly relinquish his digcese or benefice, and that it shall be faufut for those in whom the right of nomination is vested, to proceed immediately to an election, as if the office was "vacant by death or transhation."

These are the principal articles in tho famous recess of Augstiurg, which is the basis of religious peace in Germany. The followers of Lother were highly pleased with that: security which it-atforied thein, and the catholics seem to have had no less reason to be satisfich. That article which preserved entire to the Romish church the benefiecs of such ceclesinsties as shonld hereafter renounce its dowtrines, at once placed a bedge around its patrimony, and effectually guardedlagaiast the defection of its dignitaries. But car-c diaal Caraffa, who was now raised to the papal throne, under the name of Paul IV. full of high ideas of hib apostolic jurisdiction, aod aniumated with thiç fiercest zeal against beresy, regarded the indulgence given to the protestants, by an assembly composed of laymet, as an impious act of that power which the diet bad usurped. He therefores threatened the cmperor and the lhing of the: Romans with the soverest effoets of his vengeance, is they did nov immedlately declare the recess of Augsburg iliegal and void;
ent os Charles shewed no dieposition to comply with this demand, the pope entered into an ailiance with the French king, in order to ruin the imperial power in Italy,

Buring the atgotiution of that tieaty, an event happened, wfich astonished all Esroie, and confounded thie reasonings of the intest politicians. The emperor Charles V.
Ithough no more than 56, an aze when objects of aimition operate with fuil force on the nfiud, and are generally pursued with the greatest arifour, bad, for wome time, formed the resolution of resigning his hereditary dominions to his son Fkilip. He now detertmined to put it in exccution. Various have beea the opinions of listorians concerning a resolution so singular and onexpected; but the most probable seem To be, the disappointaients which he had met trithi in his ambitions hopes, and the declime of his bealith. He had, early in lite, been attacked with the goit : and the fits were now becone so frequent anid sevire, that not only the vigour of his constitution ras broken, but the ficulties of his mind were seasiuty fimpairel. He, therefure, judged it more decent to conceal his intiruities in some solitude, than to expose them any longer to the pultio eye: and as hie was unwilling to forfit thie fame, or lose the acquisitions of tisbetter years, by attempting to guide the reins of government when he was no longer abie to told them with steadiness, he pridently determined to scek, in the troiquillity of retirement, that happiness, which he had in vain pursued amid the tumults of war and the intrigues of state.

In consequetice of this resolution, Chisrles, who had alraady ceded to his son Pialip the kingdom of Naples and the dachy of Milan, assembled the states of the Low Countries at Jrussels ; aid, seating himself, for the last time, in the clair of state, be explained to his stibjects the reasons of his resignation, and sulemnly devolved his authority upon Pbilip. He recounted with dignity, but without ostentation, all the great things which the had undertaken and performed since the commencement of his aduinistration ; and the numeration gives us the highest idea of his activity and industry. " I have dedieated," ohserved be, "from the 17th year of my age, all my thoughts and attection to pubitic otjeets, reserving no portion of my time for the intatgence of ease, and very little for the enjoyment of private pleasure. Either in a pacific or hostile manner, I have visited Gieranany nine times ; $\mathrm{S}_{\text {pain, }}$ six tiones ; France, four times ; Itily, seven times; the Loir Countries, ten times: England, twice ; Africa as often; and, while my health permitted me to di-charge the duties of a sovereign, and the vigour of my constitution was cqual in any degree to the arduous office of governing such extensive dominions, I never shanned fabour, nor repined under fatigue ; but now, when my health is broken, and my vigour exhausted, by the rage of an ficurable distemper, my growing infirmities admonist aib to retire; nor am I so fond of reigoing as to retain the sceptre in an impotent hand, which is no longer abie to protect my subjects.
" Instead of a soverelgo worn out with diseases," continued he, "and scarce half alive, I give you one in the prime of life, already accustomed to govern, and who ands to the vigour of yooth, all the attention and sagacity of "waturer years." Then, turning towards Philip, who fell on' his knees and kised his father's hand, "It is in your power," astd Cluaries, " by a wise and virtuous admimistration, to justify the extraordinary

## NOKIHERN EVROFE.

proof which I give thits day of my paternal affection, and to demonstrate that you-are worthy of the confidence which I repose in you. Preserve," added he, "an ioviolable regarif for religion : mintain the catholic faith in its purity ; let the laws of your comntry be sacred in your efos ; encruach not on the rights of your people; and if the time should ever come, when you should wish to enjoy the tranquillity of private life, bay you have a son, to whom you can resign the seeptre with as much satisfaction as I give mine to you." A few weeks after, the emperor also resigned to Plilip the Spanish crown, with all the dominons deponding upon it, in the Old, as well as in the New World ; reserving nothing to himself, out of all those vast possessions, but an anuual pension of 100,000 ducats.

Charlcs was now impatient to cmbark for Spain, where he had fixed on a place of retreat. But by the advice of his physieians, he put off his voyage fur somo months, on account of the severity of the season ; and, by yieiding to their jodgment, he had the satisfiction, before he left the Low Countrics, of taking a considerable step towards a peace with France. This be ardratly longed for ; not only on his son's accouht, whose adinimistration be wislied to commence in quietness, but that he might have the glory, when quitting the world, of restoring to Europe that tranguillity which his ambition bad banisbed from it, almost since the day that he assumed the reins of governmacnt.

In 1558, while Plilip and Henry were making advances toward a treaty, which restored tranquillity to Europe, Charles V. whose ambition had so long disturbed it, but who had becn for some time dead to all such pursuits, ended bis days in the monastery of St. Justus, in Estramadura, which he had chosen as the place of his retreat. It was seated in a valley of no great extent, watered by a small brook, and surrounded by rising grounds, covered with lofty trees. In this solitude, Charles lived on a plan that would have suited a private gentleman of moderate fortune. His table was plain, his domestics few, and his intercourse with them familiar. Sometimes he cultivated tho plants in his garden with his own hands, sometimes rodo out to the neighbouring wood on a little horse, the only one which he kept, attended by a single servant on foot : and when bis*infirmities deprived him of these more active recreations, he ndmitted a few gentiemen, who resided near the monastery, to visit him, and entertained them as equals ; or he employed himself in studying the priaciples, and in framing curious works of mechanism, of which he had always been remarkably fond, and to which his genius was peculiarly turned. But, however he was engaged, or whaterer might be the state of his bealth, he always set apart a considerable portion of bis time for religious exercises; regularly attending divine service in the chapel of the monastery, morning and evening.

In this manner, not unbecoming a man perfectly disengaged from the affairs of the world, did Clinries pass his time in retirement. But some months before his death, the gout, after a longer intermission than usual, returned with a proportional increase of violence, and enfeebled both his body und mind to such a degree, as to leave no traces of that sound and aasculine understanding, which had distinguished bum among his
cotemporaries, He sunk into $n$ deep inelanchioly. An illiberal and timid superstitiont depresed his spirits. He lost all relish for amusements of every kiud, and desired no ovier cimpany bit that of monks. With them, he chanted the fyymons in the Missal, and conformed to all the rigotirs of monnstic life, tearing his body with a whip, as an exphatirn for his sins ! Not sati-fied with these acts of mortification, and anxious to merit the favour of heasen by souie new and singular instance of phty, he resolved to celebrate bis own obsequies. His tomb wis accordingly erocted in the chapel of the monastery : his attendants walked thither in funcral processiun. Clarles followed them in his shroud. He was laid in his coffin, and the service of the dead was chunted over biaw; be, himself, joining in the pravers that were put up for the repose of his soul, and mingling his tears with those which ois attendauts shed, as if they had been celebrating a real funeral.

The fatiguing leugth of this ceremony, or the aufol sentiments which it inspired, threw Charles into a lever, of which be died, in the 59th year of bis age. His enterprizes speak his most eloquent panegyric, and his history forms his highest eltaracter. As no prince ever governed so extensive an empire, including his American dominions ; none seem ever to lave been endowed with a superior capacity for sway. His abilities as a statesman, and evenus a general, were of the first class ; and be poosessed in the nost eaninent degree, along with indefatigable industry, the science which is of the greutest importance to a monareh, that of discerning the characters of men, and of adapting their tulents to the various departments in which they are to be employed. But, anfortunately for the reputation of Charles, his insatiable ambition, whicis kept liimself; his neighbours, and his subjects, in perpetaal inquietude, not only frustrated the chief end of government, the felicity of the nations committed to his carc, but oblized thin to lave recourse to low artifices, unbecoming his exalted station, and led hin into such Jeviations from integrity, as were unworthy of a great prince. This iasidious policy, in itself sufficiently detestable, was rendered still more odions by a comparisour with the open and undesigning character of Francis I. and served by wify of contrast, to turn on the French monareh a degree of admiration, to which ucuther bis own tidents nor his virtues as a sovereign seem to have entitled him.

Before Charles left the Low Countries, he ande a second attempt to induce his brother Ferdinand to give up his litle to the imperial throne to Pisilip II. and to accept the investiture of some provinces, either in Italy or the Netherlands, as an equivalent. But, finding Ferdinand inflexible on that point, be desisted finally from his scheme, and resigned to biu the government of the empire. The clectors made no hesitation in recognizing the king of the Romans, whom they put in possession of all the ensigns of the imperial digoity, as soon as the deed of resignation was presented to them ; but Paul IV. whose lofty ideas of the papal prerogative neither experience nor disappointment could moderate, refused to confirm the choice of the diet. He pretended that it belonged glone to the pope, frow whom, as ricegerent of Cirist, the imperial power whs derived, to nominate a berson to the vacant thrune; and this arrogance and obstinacy he maia-

Vol. 1.
tained during his whole pontificato. Ferdinand I. however, did not enjoy the less ituthority as eruperor.

It is now aecessary to tontemplate the affairs of the north, from which quarter a storan spon after arose, that burst on the heal of the Austrian family, and appeared likely to ha ve laid all their greatuess in ruins.

The union of Culmar, seemingly so well calculated for the traniquillity as well as seçurity of the north, proved the source of much dircontent, and of many barbarous wars. The national ansipathy between the Swedes and Danes, now beigtrened by national jealousy, was with difficulty restrained by the vzoorom administration of Margaret, whose partiality for the natives of Denmark, is said to have been but too evident ; and under her successor, Eric, still inore unjustiy partial to the. Danes, the Sivedes opeuly revolted, choosing their grand marshal, Charies Canuteson, first regent, and afterwards king.

The Swedes, however, returned to their allegiance under Christian I of Denmark) But they again revolted from the same province ; again renewed the union of Calmar, under John, his successor; revolted a third time ; and were finaily subdved by the arms of Christian II, who reduced them to the condition of a conguered people.

The circumstances of this last revolution are sufficiently singular to merit our attention: and the consequences by which it was fohowed, render a recapitulation necessary.

The Swedes on revoling from Cliristian I. Fhad conferred the administration of the kingdom on Steen Sture, whọe son, of the same name, succeeded bim in the regency. The authority of young Sture was acknowledged by the body of the nation, hut disputed by Gustavus Trulle, archbishop of Upsal, and primate of Swedeo, whose father had been a competitor for the administration, and whom Cliristian II. of Denmark had brought over to his interest. Resieged in lik castle of Stecka, and obliged to surrender, notaithstanding the interposition of the Danish monarch, the archbishop was degraded by the diet, and deprived of all his benefices. In this distress, tho applied to Leo X. who excommunicated the regent and his adhorents, committing the execution of the bull to the king of Demmark. Pursuant to this decrec, the Nero of the Norith, as Chritian IL. is deservedly called, invaded Sweden with a powerful army ; but being worsted in a great battle, he pretended to treat, and offered to gूo in person to Stockhola, in order to cnnfer with the regent, prosided six hustages were, sent as a pledge of his safety. The proposal was accepted, and six of, the-first nobility, amont whom was Gustavus Vasa, grand-nephew to king Canuteson, were pot on board the Danibh thect. These hostages Cluristian carried prisoners to Denmark. Next gear the retorned with a more formilable armament, and invaded West Gothlaod ; where Steen Sture, advancing to give him battle, fell into an ambuscade, and received a wand which proved mortal. The Swedish arny, left vithunt a head, first retreated, ant aiterwardy dise persed. The senate was divided about the choice of a new regent, ind the conquerot. allowed them no leisure to deliberate. He immeliately marcheil, tourard the capitat,"
wasting every thing hefore him with fire ond sword, Stackholm suirrendered: and Gustavus Trolle, resuming bis archiepiscopal function, crgwned Cliriatian king of Syreden.
This coronation was followed by one of the most tragical- scenes in the history of the -fuman race. Ctristian affecting elemency, went to the cathedral, and store thet be would govern Sweden, not with the severe hand of a conqueres, but with tho mild and bebeficent disposition of a prince raised to the throue by the univeroal voice of the people; after which he invited the senators and grandees to a sumptuous entertainhent, that lasted for three days. Meanwhile, a plot was formed for extirpating the Swedish nobility. Oa the last day of the feast, in order to afford some pretext for the intended* massacre, archbishop Trolle reminded the king, that thougt his wajesty, by a general amnesty, had pardoned all past offences, no satisfaction liad yet been given to the pope, and demanded justice io the name of his holiness. The hall was immediately filled with armed men, who secured the gucsts; the primate proceeded against them as heretics; a scaffold was erected before the palace gate ; and $9 \downarrow$ persons of distinction, among whom was Eric Vasa, father of the celebrated Gustavus, were publicly executed for defending the liberties of their country. Other barbarities succeeded to these : the rage of the soldiery was let loose against the citizens, who were butchered without mercy ; and the body of the late regent, it is said, was dug from the grave, exposed on a gibbet, quartered, and nailed up in different parts of the kingdom.

Bot Sweden soon found a deliverer and an avenger. Gustavus Vasa had cscaped from tis prison in Denmark, and concealed himself in the babit of a peasant among the mountains of Dalecarlia. There, deserted by his sole compunion and guide, who carried ofli his little treasure ; bewildered, destitute of every necessarg, aud ready to perish with hunger, he euterod bimself among the miners, and worked under-ground for Uread, without relinquishing the hope of one day ascending the throne of Sweden. Again emerging to dight, and distinguished among the Dalecarlians by bis tofty mien, and by the ste agth and agility of his body, he had acquired a considegible degree of ascendancy over them, before they were acquainted with his rank. He made himself known to thear at their annual feast, and exhorted them to assist him in recovering the libenies of their country. They listened to him with admiration ; they were all rage agaiunt, their oppressors; but they did not resolve to join him, till some of the old men anowg them observed (so inconsiderable often are the causes of the greatest events !) that the wind had bloyn directly from the noith, from the moment Gustavus began to spealf. This they considered as an infallible sign of the approbation of heaven, and an crter to take up, arms under the hanners of the hero: they already saw the wreath of victory pe his lowow, and begged to be led agninst the enemy. Gustavus did not suffice their ardewir to coot. He inmediately attacked the governor of the province in lis castle, tomk it by assault, and sacrificed, the Danish garrison to the just vengeance of the - Dalrcarlaus. Lake unimals that have tasted the blood of their, prey, they were now furicus, and fot for any desperate enterprize. Gustavis every where saw himself victorious, and guiged partizins in all curners of the kingdorn. Fivery thing yielded to his-valour and
good fortune. His popularity daily inereased. He was first chosen regent, and afierwards king of Sweden.

Meanwhile Christian PI. become obnoxious by bis tyrannies even to his Danish subjects, was degraded from his throne. The inhabitants of Jotland first renouaced bis authority. They deputed Munce, their chief justice, to signify to the tyrant the sentence of deposition. " B fy name," syid Munce, glorying in the dangerous conmrission, " ought to be written over the gates of all wicked primees!" and it onght certninly' to be transunited to pusterity, as a warning to buth kings and inforior mugistrates of the danger of atiusing power. The whole kingdom of Demmask aequiesced is the decree ; aut Cliristian, hated even by his own officers, and nut daring to trast any one, retired into the Low Coantries, the hereditary domiaions of his Grother-in-law, Charles V. whase assistance be bat long fmplored in vain.

Frederic, duke of Holstein, Christiat's uncle, was elected king of Denmark and Norway. He uspired also to the sovercignty of Sweden; but finfling Gustavas firmly seated on the throne of that kingelonm, ho laid aside his chnim. Frecieric atterwards entered into an alliance with Gustaves and the HIas towns, nguinst the deposed king, Christian II. who, after several unsuccessful attempts to recover his crown, died in prisun; a fate too gentle for so barbarous a tyrant.

Frederic was succeeded in the Dakish throne by his son Cliristian IIT. one of the most prudeat and prosperous princes of his age. He established the protestant religion, at the same time, in Denmark and Norway, in imitation of the example of Gustaves, who had already introduced it into Sweden. The doctrines of Lother had spread themselves over buth kingdoms, and both princes saw the advaatage of refrenching the exorbitant power of the clenky. Claristian died in 1558, and Gustavus fa 1560, leaving behind hian the glorious character of a patriot king. He rescued Sweden from the Danish yoke, by his valour ; be made commerce and arts flourixh by his wise policy; and the liberality of his bold and independent spirit, by making him superior to vulpar prejudices, enabied him to break the fetters of priestly tyranny, and enfranchise tho minds as well as the bodies of his countrymen.

Charles V, as we have already seen, was succeeded in the imperial throne by his brother Ferdinand I. the beginning of whose reign was distinguivied by the diet of Ratisbon, which confirmed the peace of religion by reconciling the house of Hesse to that of Nassau.

Pius IV. was raised to the papacy in 1559, less obstinate than his predccessor, Paul, confirmed the imperial dignity to Ferdinand. He also issued a bull for re-assembling the commeil of Irent, the most memorable occurrence under the reign of this emperor.

On the publication of that bull, the protestant princes assembled it Nuuaburg, in Saxony, aud came to a resolution of adhering to the confession of Aug-burg, whatever should be deternined in the council of Trent. Meanwhile Ferdinand issucd orders for convoking a diet at Frankfort ; where he managed matters with so much address, that. his son Maxionilian, afready promoted to the throne of Bohemia, was elected king of the Romans; with the unanimous consent of the Germanic body. The emperor adso
endeapoured, on this occasion, but in vain, to persuade the protestants to submit to the general council. They enntinued unshaken in their resolution of rejecting its decregs. The pope, they maintained, had no right to convoke sych an assembly, that prerogative belonged to the emperor alone, to whom, as their sovereign, they were ut all times willing to explain themselves on any suljects cither civil or religious.

The emperor then addressed himself to the fathers of the cquncil, entreating them to uldertake the reformation of the popish clergy, to permit the cap to bo given to the laity, and to allow of the marriage of priests throughout the imperial dominions. Both these requests were refosed.

Soon after the dissolution of the council of Trent in 1563, died the emperor Eerdinaud I. He was succeeded by his son Maximilian II. who, in the beginoing of his reign, was obliged to engago in wnr against the Turks. Solyman II. whose valour and ambition had been sv long terrible to Claristendom, though unfit for the ficld, continued to enake war, by his generals. He had even projtcted, it is said, the conquest of the German empire. Tho affuirs of Transylvania furnished hius with a pretext fos taking arms. Joha Sigismund, prinee of that country, had assumed the titie of king of Hungary, (which his mother had resigned, as we have sees, for some possessions in Silesia,) and put hingelf ander the protection of the grand Seignior. Moximilian immediately sent an arony ngainst Sigismund, under the command of Lazarus Schuendi. The imporial general touk Tokay, and would soon have reduced all Transylvania, had not Solyman dispatched un anibassidor to the imperial coust, to negotiate in behalf of his vassal. Hy this covoy, matters were seemingly accominodated. Dut Solyman had not taid aside his hostile intentions.

Having soon nfter invaded Hlungary with a powerfol army, he laid siege to Sigeth. This city is strongly situated in a marsh, above 15 miles to the north of the Drave, on the frontiers of Sclavonia, and was then the bulwark of Stiria against the Turks. It had a garrison of 2,300 men, under the brave count Zerini, who defended it long, with incredible valour, agaiont the whole force of tho sultan. Meanwhile, the emperor Maximilian lay in. the neigtwoarhood, with an army not inferior to that of the besiegers, without daring to attempt its relief. At length, all the works being destroyed, and the magazine sot on fire by the enemy, Zerini sallied out at the head of $\$ 00$ chosen meni, and died gallantly with his sword in liss hand.

During the siege of Sigeth, befure wbich the Turks lost 30,000 men; Solyman expired, in the 76 th your of his age. But the emperor, being unacquainted with this cireumstanco, which was to be kept secret till after the redaction of the place, had retired toward the frontiers of Austria, as soon as informed of tho fate of Zerini. Solyman was succeeded in the Ottonan throve by his son, Selim II. who begen his reigu with concluding a truce of 19 years with Maximiliab.

In consequence of this truce, and the pacific disposition of the emperor, Germany bong enjoyed repose, whilh all the neighbouring nations were disquieted by wars, either Foreign or domestic. -

[^12]and was succeedorl in the imperial throne by his son, Rodolph II, A priace who inherited the pasific disposition of lis fether.

Rodolph 11. succeeged to the imperial shrone in 1576; and ulthough more ogeupied about the heavens than the earth, (bcing devoten both to astronomy and astrology, which be studied undor the famous. Tycho Birahe;) the empire, during his long reign, enjoyed almost . uninterrupted tranquillity. The equity of his administration compensated for its weakness. The chicf distarbances which he met with proce\&ded frop his brgther Matthias. The Turks, as usual, had invaded Hungary : Matthias had been successful in opposing their progress; and a peace had been concluded in 1606 , with sultan Achmet, suecessor of Mahomet III. The Hungarians thas relieved, became jealous of their religirus rights, conferrod their crown upon Matthies, their deliveror, who granted them full liberty of conscience, with every other privilege which they could desire. Matthins afterward hecaune mater of Austria and Moravia, on the same conditions : and the emperor Rodolph, in order to avoid the horrors of a civil wer; confirmed to him these usurpations, together with the succession to the kingdom of Moheania, where the Lutheran opinions had taken deep root.

In proportion as the reformed religion gained ground in Hungary and Eohemia, the protestant princes of the empire became desrous of securing and extending their pris vileges; and their demands-being refused, they entered into a new confederacy, called the Evangelical Unioa. This association was opposed by another formed to protect the anticnt faith, under the name of the Catholic League. The succession to the duchies of Cleves and Juliers, roused th arms the heads of the two partics, who may be suid to have slumbered siace the peace of Passau.

John William, dake of Cloves, Juliers, and Berg, having died without issue, several competitors arose for the succession, and the most prwerful prepared to suppert their title by the sword. In order to prevent the evils which must have been occasioned by such violent contests, as well as to support his own authority, the emperor cited all the claimants to appear before him, within a certain term, to explain the natare of their several pretenstons. Meanwhile, he sequestered the fiefs in dispute, and sent his cousm Leopold, in quality of governor, to take possession of them, and to rule them in bis name, "till- the right of inheritance should be settled. Alarmed at this step, John Sigismond, elector of Rravdenburg, and the duke of Neuburg, two of the competitors, united against the emperor, whom they sispected of interested views, They were supported by the elcetor Palatine, and the other princes of the Evangelical Union, as the emperor was by the clector of Snxony, one of the claimants, and the princes of the Catholic League ; and in order to be a match for their enemics, who were in alliance with the pope and the king of Spain, they applied to the king of France.
He was taking the most effectual measures to assist them, when that, with all bis otherdesigus, were rendered abortive by his death.
The two confederacics appeared to be dissolved with the death of Heary IV. But the elector of Rrandenburg and the duke of Neuberg still maintained their claim to* the suceossion of Cleves and Juliers ; and being assisted by Marice, prince of Otange,
A. D. 1600-19.
and some Ereach troops undee the mareschal de la Chatre, they expelled Leopold, the sequestrator, and tock pessession by foree of arms. They afterwards, however, disaigeed between thomselves, but were again reconciled from a sgnse of motual interest.

- In this petty quarrel, Spnin and the United Provinces interested themselves, and the swo greatest generals in Europe were once more opposed to each other: Spinoln on the part of the duke of Nenberge, who had renounced Lutheraniem jo order to procure thie procection of the catholic king, and Manrice on the side of the elector of Brandenburg who introduced Calvinism into his dominions more strongly to attach the Datel to .his cause.

Meantime, Rodolph II. died, and was succeeded Iy his brother Matthias. The pro testants, to whom the archduke had been very indulgent, in order to accomplish bis ambitious vicws, no sooner saw him seated on the imperial thirone, than they plied biin with memorials, requiring an extension of their privileges, while the catholics: petitiened for new restrictions ; and to complete his confusion, the Turks entered Transylvania. Dht the extent of the Ottoman dominions, which had so long given an alarm to Christendom, on this, as well as on former oecasions, proved its safoty: The young and ambitious Achmet, who hoped to signalize the begioning of his reign by tha conquest of Hungary, was obliged to recal his forces from that quarter, to protect the eastern frontier of his empire; and Matthias obtained, without striking a blow, a peace as advantageous as he could have expected, after the most sucerssfal war. He stipulated for the restitution of Agria, Pest, Buda, and every other place held by the Turks in Hangary.

Matthias was new resolved to pull off the mask, which he had so long worn on purpose to deceive the protestants, and to convince them that he was their master. Meanwhile, finding bimself advancing in years, and declining in licalth, he procured, in order to strengthen his authority, his cousin Ferdinand de Gratz, duke of Stiria, whom he intended as his successor in the empire, to be elected king of Bohemia and acknowledged in Hungary ; neither himself nor his brethren having any children : and be cogaged the Spanish branch of the house of Austria to renounce all pretensions which it could possibly bave to those crowns.

This family compact alarmed the Evangelical Union, and occasioned a revolt of the Hungarians and Pohemians. The malcontents in Hungary were soon appeased; but the Bohemian protestants, whose privileges had been invaded, obstinately contiusing in arms, werejoined by those of Silesia, Morivia, and Upper Austria. The confedorates were beajled by count de la Tour, a man of abilities, ond supported by an army of German protestants, under the famous count Mansfeldt, natural son of the Flemish general of that uapie, who was for a time governor of tho Spanish Netherlands.

- Thus was kindled a furious civil war, which desolated Germany during $\$ 0$ years interested alt the powers of Europe, and was not finally extinguished until the pesce of Westphalia.
- Amid these disorders died the emperor Mafthias, without keing able to foresoe the evcat or the struggle, or who should be his successor. The imperial dignity, however,
went'according to his destination. Ferdinand do Gratz was raised to the vacant throne, uotwithstanding the opposition of the elector Palatize and the state of Bohemia; and with a less tyrannical diposition he would lave been worthy that high station.

The election of Ferdinand 11. instead of intimidating the Boheminns, roused them to more vigorous measures. They formally deposed him, and chose Frederic V. elecitor Palatine for their king. Frederic, seduced by his flatterers, unwisely accepted of the crown, notwithstanding the remonstrances of James 1. of Eugland, his father-inlnw, who used all his influence in persuading him to reject it, and protertod that he would give him no assistance in such a rash undertaking.

This measure confirmed the great quarrel between Ferdinand and the Bohemians. Frederic was seconded by all the protestant priaces, except the elector of Saxony, who still adhemed to the emperor, in hopes of obtaiuing the investiture of Cleves and Juliers. Bethlem Gabor, vaivode of Tronsylvanis, also declared in favour of the Palatine ; entered Hungary, made himself master of many places, and was proclained king by the protestants of that country.

Frederic was farther supported by 2,400 Daglish volunteers, whom James permitted to embark in a cause of which he disapproved ; and by a body of 8000 men, under prince Henry of Nasseu, from the United Provinces. But Ferdinand, assisted by the catholie princes of the empire, by the king of Spain, and the archduke Albert, was more than a match for his enemies. Spinola lod $\$ 5,000$ veterans from the Low Countries, and plandered the Palatinate, in defiance of the English and Duteh; whia Frederic himself, unable to protect his new kingdom of Bohemia, was totally routed near Prague, by the imperial general Buquay, and bis own catholic kimeman, the duke of Bavaria.

The Palatine and his adherents were now put to the ban of the empire; and the Bohemian rebels boing reduced, an army wae dispatched under Buquoy into Hongary againat Bethlem Gabor, who consented to reaign his title to that crown, on obtaning: conditions otherwise advantageous. In the mean time, the conquest of the Palatinate was finished by the imporialists under count Tilly. Frederie was degraded from his electoral dignity, which was conferred on the duke of Ravaria; and his dominions were bestowed by Ferdinand, "in the falness of his power," upon those who had belped to subdue them.

For many years Ferdinand II. continued to carry every thing before him in Giermany. The king of Denmark, and the league of Lower Suxony, who maintained the quarrel of the Evangelical Union, were unable to withstand tho imperial armies under Tilly and Walatein. After repeated defents and losses, the Danish monarch was obliged to sue for peage : and the emperor finund himself at length possessud of absolute authority.

He was disposed to exert that authority to the utmost; and so oppressed the protestants, as to oblige them to invite the assistance of Gustavus Adolphus, king of Swedrn. Wo must now, therefore, take a retronpect of the northern kingdoms.

Bric, the son of Gustavus Vasa, proving a dissolate and cruel prinee, was deturoned
and imprisoned by the states of Swetlen in 1568 . He was succeeded by bis brother Joln ; who, after attempting in vain to re-estallish the catholic relgion, died i4 1592, and left the crown to his son Sigismund, already elected king ofi Poland.
Sigismund, like bis father, was a zealons cutholic, and the Swedes no less zealous Lutherans, they deposed him in the year 3600 , and raised to the sovereignty his uncle, Charles IX, who tasd been cliefly instrumental in preserving their religious liberties.
-The Poles attempted in vain to restore Sigismund to the throne of Sweden. Charles swayed the sceptre till his death, which happened in 1611 . He was sugceeded.by his son, Gustavus:Adolphus.

Denmark affords little that merits our' attention douring the reign of Frederic II. who socceeded his father. Christian III. in 1558; nor during the reign of his sun and suecessor, Christian IV, before he was chosen general of the league in Lower Saxony, His transactions, even while vested with that command, are too unimportant to merit a particular detail. The issue lins been already related.

No sooner wus Gustavus seated on the throne, though only 18 years of age at bis necession, than he signalized himself by bis exploits against the Danes, the antient enewies of his crown. Profiting afterwards by a peace, which he had found neeessary, he applied thimself to the study of civil affairs ; and by a wise and vigorous adroinistration, supported with salutary laws, he reformed many public abuses, and gave order, prosperity, and weight, to the state. In a war against Russia, he subdued almost all Finlend, and secured to himself the possession of his "co quests by a treaty. His cousin Sigismund, king of Poland, treating him as an usurper, and refusing peace, when offered by Gustavos, he over-ran Livonia, Prussia, and Luthuania. An advantageous truce of six years, concloded with Poland, in 1699 , gave him leisure to take part in the affairs in Germany, and exhibit more fully those heroic qualities, which will ever be the admiration of mankind.

Gustavus had many reasons for making war against the emperor. Ferdinand had assisted his? enemy, the king of Poland; be treated the Swedish ambassador with disrespect; and he had formed a project of extending his dominion over the Baltic. If the king of Sweden looked tamely on, till the German princes were finally subjected, the independency of the Gothic monarchy, as 'well as that of the other northern kingdoms, would be in danger.

But the motives which chiefly induced Gustavus to take arms against the bead of the empire, were the love of glory, and zeal for the protestant religion. These, however, did not transport bim beyond the bounds of prudence. He laid bis designs -before the states of Sweden; and he negotiated with, Franen, Engl nd, and, Holland, before be began his marclt. Charles I. still desirous of the restoration of the Palatine, agreed to send the king of Sweden 6000 men. The troops were raised in the name of the marquis of Hamilton, and supposed to be maintained by that nobleman, that the appearance of neutrality might be preserved. The people, were more forward than the king.

- The flower of Gustavus's army, and many of his best officers, by the time lie ertered Germany, consisted of. Scottigh and English adventurers, who thronged , over to sup-

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port the protestant cause, and to seek renowh under the champion of theitreligion ; so that the conquests, even of this illustrious hero, may partly be ascribed to British valour

- and Iritish sagacity.

The mosi necessary" supply, however, that Gustavas received, was an annual subsidy from cardinal Richelicu, of $1,200,000$ livres; a small sum in our days, but considerable at that time, especially in ahat country where the precious metals are still scarce. The treaty between France sud Sweden is a master-piece in polities. Gustavus agreed for consideration of the stipulated subsirly, to maintain in Germany an army of $\$ 6,000$ men; bound bimself to observe a strict neutrality toward the duke of Buvaria, sad alt the princes of the catholic league, on condition that they should not join the emperor against the Swedes ; and to preserve the rights of the Romish charch, wherever he should fiad it establisbed. Dy tfiese'ingcnious stipulations, which did so much honour) to the genhis of Itichelien, the catholic phinces were not only freed from all slarm on the score of religion, but furnished with a pretext for with-holding their lassistance from tha emperor, as a step which would expose them to the arms of Sweden.s) wr

Gustavus had entered Pomeranii when the treaty wis eoncluded, and soon aftoe made himself master of Prankfort upon the Oder, Colberg, and several other itaportant places. The protestaint prinecs, however, were still backward in declaring themselves, lest they should be separitely crushed by the imperial power; before the king of Swoden could march to their assistance. In order to pot an end to thís irresclation, Gustavus summoned the elector of Drandenburg to declare himself openly in tiree days ; and on receiving an evasive atiswer, he marched directly to Rerlin. This spirited conduct had the desired cffect: the gates were thrown open, and Gustavus was received as a friend.

He was soon after joined by the landgrave of Hesse, and clector of Snxony; whoy being persecnted by the catholic league, put themselves under his protection. Gustavus now marched towards Leipsic, where Tilly lay encamped. That experieneed general advanced ainto the plain of Breitenfeld to meet his antagosist, at the head of $\$ 0,000$ vetcrans. The king of Sweden's ariny consisted nearly of an equal number of men ; but the Saxon auxilaries being raw and undisciplined, fled at the first onset ; yet did Gustavus, by his superior conduct, and the suporior prowess of the Swedes, gain a complate victory over Tilly and the imperialists.

This blow threw Ferdinand into the uttoost consternation; and if the king of Sweden had marehed directly to Vienna, it is supposed he could have made himself master of that capital. Put it is impossible for human foresight to discera all the advaatages that may be reaped from a great and singular stroke of good fortune. Hannibal wasted his time at Capus, after the batte of Canne, when he might have led his vietorious army to Aune: and Gustavus Adolphus, instead of bosieging Vienna or laying waste the einpesor's bereditary dominions, took a different rout, and lad the satisfnction of erecting a colupn on the oppositc bank of the Rhine, in order to pergetuate the progress of the arms.

The consegtences of the battle of Leipsic, however, were great. Non did Gustavus

## A. D. 164 .

NORTHERN EUROPE.
fail to ithprove that victory which ho had so gloriously earned. He was instantly joined by all the members of the Evangelical Union, whom bis success had inspired with egurage. The measures of the Catholic Leapue were utterly disconcerted; and the king of Sweden made himself master of the whole country from the Elbe ta the Rhine, com. "prehending a space of near 100 leugues, fult of fortified towns.

- The elector of Saxany, in the meao time, entered Robemia gnd took Prague. Count Thly was killed in dispoting withi the Swodes tho passage of , the Iech: and Gustavus, who, by that passage, glived tumejtal Honour, soon after reduced Augshurg, and , there re-established the proteslant religican.s He next marched into Davaria, where he found the gates of almost every city thnowa open on lis approach. He entered the capital in triumph, had there an opportunity of displaying the liberality of his mind. When prensed to revenge on Munich the cruelties (too horrid to be described) which Tilly had perpetrated at Magdeburg; to give up the city to pillage, and reduce the elector's magnificent palace to ashes, "No I" replied he, " let us oot imitate the barbarity of the Goths, our ancestors, who have rendered their memory detestable by abusing the rights of conquests : in doing violunce to humanity, and destroying the precious monuments of art,"

During these transactions, the renowned Walstein, who had been for a time in disgrace, but was restored to the chief command with unlimited powers, soon after the defeat at Leipsic, had recovered Prague, and the greater part of Dohemia. Gustavus offered him battle near Nurembarg; but that cautious veterah prudently declined the challenge; and the king of Sweden was repulsed in attempting to force his entrenchments. The action lasted for ten hours, during which every regiment in the Siwedish army, not excepting the body of reserve, was led on to the attack.

The king's person was in imminent danger; the Austrian cavalry sallying out foriously, from their entrenchments on the right and left ; when the efforts of the Swedes began to slacken, and a masterly retreat only could have saved bim from a total overthrow. That service was partly performed by an old Scotch colonel of the Hegpburn, who had resigued bis commission in disgust, bat was present at this acsault. To him Gustavus applied in his distress, secing no officer of equal experienco at land, and trusting, to the colonel's natural generosity of spirit He was not deceived. Hepbura's prida overcame bis resentment. "This," said he, (and persevered in his resolution) " is the last time that ever I will serve so ungrateful a prince P" Elated with the opportunity that was offered bim of gathering fresh laurcls, and of exalting himself in the eye of a master by whom he thought himself iojured, he rushed into the thickest of the battle; delivered the orders of the king of Sweden to his army, and conducted the retreat with so much order and ability, that the imperialists durst not give him the smallest distarbance.

This severe check, and happy escape from almost inevitable ruin, ought surely to have moderated the ardour of Gustavus. Dut it had not sufficiently that effect. In marebing to the assistance of the elector of Suxany, he again gave batte to Walstein, with an inferior force, in the wide plain of Euthzen, and lost his life in a hot engage-
ment, which terminated in the defent of the imperial army. That engagement was attended with circumstances sufficiently memorable to merit a particular detnit.
Soon nfter the king of Sweden arrived at Naumburg, be learned that Walstein bagi moved bis camp from Weissensels to Lutzen; and although that movement froed bina from all necessity of fighting, as it Icft open his way into Saxony by Degaw, he wes Kecoly stimulated with an appetite for giving battle. He accordingly convened, in his own spartment, his two favourite generals, Bernard, duke of Saxo Weymar, and Knpp hauser, and desired them to give their opinions freely, and without reserve, in regard to the eligibility of such a measure. - The youthfol and ardent spirit of the duke, congenial to that of the king, instantly eaught fire, and he declared in favour of an engagement. Bat the courage of Kniphausen, matured by retlection and chastized by experience, madd him steadily and uniformly oppose the hazarding an action at that juncture, as contrary to the trie principles of the military science. "No commander," ssid be, "ought to encounter an enemy greatly superior to bim in strength, unless compelled so to do by some pressing necessity Now your majesty is neither circumscribed in place, nor in want of provisions, forage, or warlike stores."

Gustavus scemed to acquiesce in the opinions of this able and experienced geacral ; yet was he still greatly ambitions of a new trial at arms with Walstein. And no sooner was tie informed, on his nearer approach, that the imperial army had received no alarm, nor the gencral any intelligence of bis motions, than be declared his resolution of giving battle to the enemy.

That declaration was received with the strongest demonstrations of applause, and the most lively expressions of joy. At one troment the whole Swedish army made its. evolutions, and pointed its course towards the imperial camp. No troops were everknown to advance with so much alacrity ; but their ardour was damped, and their vigour wasted, before they cound reach their hostile antegonists. By a mistake in computing the distance, they had elght miles to mareh instead of five, and chicfly through fresh plonghed lands, the passage of which wes difficult beyond description; the miry ground elinging to the fect and legs of the soldiers ; and reaching, in some places, almost as luigh as the knee.

Nor were these the only diffeulties the Swedes had to encounter before they arrived at Lutzen. When they were within two miles of the spot, where they hoped a. speedy tertaination of all their toils, they found a marshy swamp, formed by a stagaating brook, over which loy a paltry bridge, so nurrow, that only two men coald march over it abrest. In consequence of this now obstacle, it was sunset before the whole Swedish army coald clear the pass ; and Walstein, having been by that time informed of the approaeh. of Gustavos, was cmployed in fortifying his camp, and in taking every other measure for his own safety and the destruction of his enemy that military skill could. suggest.

The situation of the king of Sweden was now indeed truly perilous. He saw himself: seduced to the necessity of giving battle under the most adverse circumstances ; or of vunning the hizard of being routed in attempting a retreat with tho troops -fatigoed and
almost fainting for want of food. Yet was a retreat thaught expedient by some of his generals, Dut Gustavus, in a tone of decision, thus silenced their arguments ; "I gannot bear to see. Walstein under my beard, without making*ome nnimadversions upon him, I long to un-earth him," added be, " and to behold with my own eyes how he can acquit himself in the open field."

Conformable to these sentiments, the king of Sweden came to a fixed resolution of giving battle to the imperial army next morning, and of beguning the action two hours before day. But the extreme darkness of the night rendered the execution of the latior part of his plan impracticable; and when morning began to dawn, and the finn to dispel the thick fog that had obscured the sky, an unexpected obstacle presented itself. Across the line, on which the Swedish left aving proposed to advance, was cut a deep ditch too difficult for the troops to pass; so that the king was obliged to make his whole army move to the right, in order to occupy the ground which lay between that diteh and Walstein's camp.
This movement was not made without some trouble, and a considerable loss of time. Having at length completed it, between eight and nine in the morning, Gustavus ordered two hymns to be sung; and riding along the lines with a commanding nir, he thus harangued his Swedish troops. " My companions and friends! shew the world this day what you really are. Acquit yourselves like disciplined men, who have seen and been engaged in service; observe your orders, and behave intrepidty, for your own sakes as well as for mine. If you so respect yourselves, you will find the blessing of heaven on the poing of your swords, and reap deathless honour, the sure and inestimable reward of valour. But if, on the contrary, you give way to fear, and seek selfpreservation in flight, then infamy is as certainly your portion, as my disgrace and your destruction will be the consequence of such a conduct."

The king of Swoden next addressed his German allies, who chictly composed the second line of his ermy ; lowering a little the tone of his voice, and relaxing his air of authority: "Fhiends, officers, and fellow soldicrs," said he, " let me conjure you to behave valiantly this day. You shall fight net only under me, but with me. My blood shall mark the path you ought to pursue. Keep firmly, therefore, withio your ronks, and second your leader with courage. If you so act, victory is ours, together with all its advantages, which you and your posterity shall not fail to cnjoy. Dut if you give ground, or fall into disorder, your lives and liberties will become a sacrifice to the encmy?

On the conclusion of these two emphatical speeches, one universal shont of applanse saluted the ears of Gustavus. Having disposed his army in order of battle, that warlike monorch now took upon himself, according to custom, the panticular comonand of the right wing; and drew his sword about nine in the morning, being, attended by the duke of Saxe Lauenburg, Crailsham, grand master of his household, a body of English and Scotch gentlemon, and a few domestics. The action soon became general, and was mainfained with great obsthacy on both sides. But the veteran Swedish Livigades of the first line, though the finest troops in the world. and estceuped invincibloj Vol. 1.
found the passing of certain ditches, which Walstein had ordered to be hollowed and lined with musqueteers, so exceedingly perplexing and difficult, that their ardour began to abate, and they ?eemed to pause, when their heroic prince flew to the dand gerous station ; and dismounting, snatched a partizan from one of tho officers, and said in an austere tone, accompanied with a stern look,
" If, after having passeg so many rivers, scaled the walls of numberiess fortresses, nad conquered in various battles, yourg native intrepidity trath at last deserted yof, stand, firm at bast for a few seconds. Have yet the courage to behold your master die, it a nianner worthy of himself !"-And he offered to cross the diteh.
"Stop Sire! for the sake of heaven," cried ull the soldiers; " spare that invaluable life ! Distrust us not, and the business shall be done."

Satistied, after such an assurance, that his brave trigades in the centre would not acceive him, Gustavus returned to the bead of the right wing, where his presence was much wanted ; and making his horse spring boldly neross the last ditch, set an example of gallantry to his officers and soldiers, which they thought themselves bound to imitate.

Having cast his cyes over the enemy's left wing that opposed him, as soon as he found himself on the farther side of the fosse, and scen there three squadrons of innperial cuirassiers, completely clothed in iron, the king of Sweden called colunel Stalbaus to him, and said, "Stalhaus! chargo home these black fellows; for they are the men that will otherwise undo us."

Stalhaus executed the orders of his royal master with great intrepidity and effect. But in the mean time, about II o'clock, Gustavus lost his tife. He was then fighting iword in hand, at the head of the Smaland cavalry, which closed the right tlank of the centre of his army, and is supposed to have outstripped, in his ardoor, the invincible brigades that coaposed bis anain body. The Swedes fought like ruused lions, in order to revenge the deatit of their king: many and vigorous were their struggles; and the approach of nightaslone prevented Kniphausen and the duko of Saze Weymar froms.gaining a decisive victory.

During ninc hours did the battle rage with inexpressible fierceness. No field whs ever disputed with more obstinacy than the plain of Latzen; where the Swedish infantry not only maintained their ground against a brave and greatly superior army, but broke its force, and almost completed its destruction. Nor could the flight of the Saxons, or the arrival of Pappenheio, one of the ablest generals in the imperial service, with a reinforcement of 7000 fresh troops, shake the unconquerable fortitude of the Swedes. The gallant death of that great man, served but to crown their glory, and inmortalizo their tiumph. "Tell Walscin," said be, prosuming on the consequetices that would result from the death of the Swedish monirch, "that I have preserved the catiolic retigion, and inade the emperor a free inan!" The death of Gustavas descrves more particular notice.

The king of Sweden first received a ball in his left arm. This wound he cither felt not, or disregarded for a *time, still pressing on with intrepid valour. Yet the soldiers
perceived their leader to be wounded, and expressed their sorrno on that account ; "Courage, my comrades !" cried he, "the hurt is nothing ; let as resume our ardour. and maintain the charge," At length, however, perceiving hie voice and strength to fatl him, he desired his cousin, the duke of Saxe Laaenburg, to convey bim to some place of safety.

In that instant, as the warlike king's brave associates were preparing to conduct him ous of the secne of action, an imperial cavalicr advanced, "unobserved, and crying aloud, " Long have I sought thee !" transpierced Gustavus through the body with a pistol ball. But this bold champion did not long enjoy the glory of his daring exptoit ? for the duke of Saxe Lauenburg's master of the horse, shot biar dead, with the vaunting words recent on his lips.

Piccolomini's cuirassiers now made a furious attack upon the king of Sweden's companions. Gustavus was held up on his seddle for some time ; but his horse, having received a wound in the shoulder, made a furious plange, and flung the rider to the earth. His majesty's military followers were sonn after utterly dispersed, but bis personal atteudants remained with him. His two faithful grooms, though mortally wounded, threw themselyes over their master's body : and one genticman of the bed-chamber, uho lay on the ground, having eried out, in order to save his sovereign's life, that he was king of Siveden, was instanly stabbed to the heart by an impurial cuirassier.
Gustavus being aftervards asked who he was, replied with heroic firmuess and magnanituity, " I au the king of Sweden! and seal, with my blood, the protestant rcligion, and the liberties of Germany." The imperialists gave Lim live barbarous wounds, and a builet passed through his head, yet had he strength left to exclaim, "My God! my Giod !" Hishody was recovered by Stalhaus, in spite of the most vigorous efforts of Piccolomini, who strove to carry it off.

No prince, antient or modern, scems to have possessed, in so eminent a degree as Gustavus Adulphus, the united qualities of the hero, the statesman, and the commander; that intuitive genius which couecives, that wisdom which plans, and that happy combination of courage and condact which gives success to an enterprize. Nor was the military progress of any leader ever equally rapid,-under circumstances equally dillicult: with an inferior force, against warlike nations, and disciphaed troops, commanded by able and experieneed generals. His greatert fault, ns a king and a commander, was an excess of valour. He usually appeared in the front of the batte, monnted on a horse of particular colour ; which, with his large and majestic stature, surpassing that of every other Swede, made hium knowa both to friends and foes.

But Gustavus bad nther qualities heside those of the military and political kind. He was a pious cliriatian, a warm friend, a tender husband, a dutifol son, an affectionate father. And the sentiments suited to all these softer characters are admirably displayed in a letter from the Swedish monarch to bis miaister, Oxenstiern, written a fow days before the battle of Lutzen. " Though the causo in which I am engaged," said - he, " is just and gobd, yet the event of war, because of the vicissitudes of human affairs, must ever be deemed doubtful. Uncertaio, also, is thę duration of mortal life;

Ithereicre require and beseech you, in the name of our blessed Redeemer, to preserve yoar fortitude of spirit, though events should not proceed in perfect conformity to my wishes."
"Remember, likewisc," continued Gustavas, ". how I should comfort myself in tegard to you, if, ly divine permission, I might live till that period, when you shall hava occasion for my assistance of any kind. Corisider me as a man, the guardian of a kingdoni, who has strugiled with diffleulties for twenty ycars, and passed through them withr reputation, by the prutection and mercy of beaven; as a man, who loved and honotured his relations ; and who neglected life, riehes, and happy days, for the preservation and glory of his country and faithful subjects ; expecting no other recompence than to be dechared, The prince who fulfilled the duties of that station which providence bed assigned him in this world."

1. "Phey who survive me," udded he, "for I, like others, must expect to feel the stroke of mortality, are, ou my account, and, for many other reasons, real objects of your commiscration: they are of the tender and defenceless sex: a helpless motier, who waits a guide, and an infant daughter, who needs a protector ! Natural affection forces these lines from the band of a son and a parent."

The death of the king of Sweden presaged great alterations in the state of Europe. The clector Palatine, who was in hopes of being restored, not only to his hereditary dominions, but to the throne of Bohemia, died soon after of chagtin. The Germaa protestants, now without a bead, became divided into factions ; the imperialists, though defeated, were transported with joy, and prepared to push the war with vigour; while she Swedes, thoughivictorious, were overwhelped with sorrow for the loss of their heroic prince, whose daughter and successor, Christina, was only six years of age. A council of regency, however, being, appointed, and the management of the war in Germany eommitted to the chancellor Oxenstiern, a man of great political talents, the protestant confederacy again wore a formidable aspect. The alliance between France and Swedei: was renewed, and hostilities were pushed with vigour and success, by the duke of Snxe Weymar, nad the generals Bannier and IIorn.

Notwithstanding these favourable appearances, the war became every day more burthensome and disagreeable, both to the Swedes and their German allies; and Oxenstiern; who hitherto successfalty employed his genius in finding resources for the support of the common cause, saw it in danger of sinkingr, whea an unexpected event gave new hopes to the confederates. The emperor, become jealous of the vast power be had granted to Walstein, whose insolence and ambition knew, no ,hounds, resulved to deprive him of the coamand; and Walstein, in order to prevent his disgrace, is said to have conecrted the means of a revolt. It is at least certain, that he attempted to secure himself by winning the attachment of his soldiers; and Ferdinand, afraid of the selay of a legal trial, or laving no proof of his treason, and dreading his resentment, had recourse to the dishonourable expedient of assassination.

But tee fall of this grent man, who had chiefly obstructed the progress of tho Swedish arms, both bifore and sipce the death of Gustavus, was not followed by, all, these ad-

## A. D. 1695 .

vantages which the eonfederates expected from th. The imperialists, animated by the presence of the king of Hungary, the emperor's eldest son, who suceeeded Walstein in tye command of the arnay, made up io valour what their genctal wanted in experience. Tirenty thousund Spenish and Italian troops arrived in Germany under the dake of Feria; and the cardinal Infant, the new governor of the Low Countries, likewise trought a reiuforcement to the catholic cause ; the duke of Lorrain, a soldier of fortuike, joined the king of Hungary with 10,000 wen ; snd the duke of Bavaria, whom the Snedes had deprived of the Palationte, also fuand himself under the necessity of uniting his forces to those of the emperor.

Meanwhile, the Swedish generals, Bannier, IIorn, and the duke of Saxe Weymar, maintatiod as superiority on the Oder, the Rhine, and the Danube; and the elector of Saxony in Boheonia and Lasatia. Horn and the duke of Saxe Weymar united their forees, in orifer to oppose the progress of the ; king of Hungary, who had already made hiusielf master of Ratisbon. They came up with him near Nordlingen, where was fought one of the most obstinate and bloody battles recorded in history; and where the Swedes were totally routed, in spite of their most vigorous efforts. In vain did the duke of Saxe Weymar remind them of Leipsic and Lutzen : though a consummate general, he wanted that all-inspiring spirit of Gustavus, which communicated his own heroism to his troops, and made them irresistible, unless when opposed to insuperable bulwarks.

This defeat threw the members of the Evangelical Union into the utmost consternation and despair. They accused the Swedes, whom they had lately extolled as their deliverers, of all the calamities which they felt or dreaded ; and the emperor, taking advantage of these discontents, and his own success, did not fail to divide the confederates yet more by aegotiation. The elector of Saxony first deserted the alliance: and a treaty with the court of Vienna, to the following purport, was at length signed at Prague, by all the protestant princes, except the landgrave of Hesse Cassel.

* The protestants shell retain for ever the mediate ecelesiastical benefices which did not depend immedintely upon the emperor, and were seized before the pacification of Passau; and they sball retain, for the space of 40 years, the immediate ecelesiastical benefices, though seized since the treaty of Passau, if actually enjoyed before the 12 th of November, in the year 1597; the exercise of the protestant religion shall be freely permitted in all the dominions of the empire, except the kingdom of Bohemia, and the provinces belonging to the house of Austria; the duke of Bavaria shall be maintained in possession of the Palatinate, on condition of payiug the jointure of Frederic's widow, and granting a proper subsistence to his son, when be shall return to his duty ; and there shall ba between the emperor and the confederates of the Augsburg confession, who shall sign this treaty, a mutual restitution of every thing taken since the irruption of Gustavus into the empire,"

In consequence of this pacification, almost the whole weight of the war devolved - amongst the Swedes and the French, between whom a fresh treaty had been concluded Vol. 1.
by Richelieu and Oxenstiern; and a French army marched into Germany, in order to support the duke of Saxe. Weymar.

In 1636, a decisive battle wao fought in Upper Germany, between the Swedes, uy der general Bannier, and the imperialists, commanded by the elector of Saxony. After watching the motions of each other for some time, they halted in the plains of Wislock, where both arnies prepared for battle. The imperiol camp was pitched on an eminence, and fortified with 14 redoubts, under which the troops stood ready to engage. Desirwus of dntwing the enemy from that adivantageous post, Bannier ordered part of his cavalry to advance and skirmish. This feint having, in some measure, the intended cffect, Bannier ordered colonel Gun, who commanded the right wing of the Swedes, to attack the enemy, and advanced himself at the head of five brigates to support that wing; while gencral Statens, with the left wing wheeled round the hill, in order tu charge the imperialists in flank. These attacks were execated with such vigoor, that the whole Austrian and Saxon infantry was broken or cut down. Five thousand men fell on the field or in the pursuit ; 7000 were taken, together with 30 pieces of cannon, 150 ensigns, and an incredible number of waggons.

The battle of Wislock, which restored the lostre of the Swedish urms, raised Bannier to the highest degree of wilitary reputation, and gave a sigual blow to the imperial power, was followed tyy the demise of Ferdinand II. He died at Vienns, in the 591 h year of his age, and the 18th of his reign, and was succeeded in the imperial throne by his son, Ferdinand III. The accession of this prince made litile alteration in the state of the war : for although the frrst year of the new reigu was distinguishrd by no memorable enterprize, the greater part of it being wasted in fruitess negatiations, the next campaign was remarkably active and bloorly; as if the contending powers had only been resting themsclves in order to renew, with more destructive rage, the work of death. The duke of Saxe Weymar, who had already fully revenged the injuries of his fumily upon the house of Austria, advanced to Khinfeld early in the spring, and resolved to besioge it in form. It was accorlingly invested ; but the defence was so abstinate, that, notwithstanding the utmost efforts of valour and military skill, the imperislists had time to*come to its relief, under general Savelli and the famous John de Wert. Both armies were immediately ranged in order of battle, and Weymar's right wing fell with such fury upon the enemy's left, commanded by Wert in person, that it was quick $y$ broken. The left wing of Weymar's army was not equally suceessful. On the contrary, it was repulsed; hut he collected his cavalry, and repeated the charge with such vigoar, that the enemy must have been totally routed, hed they not retired aader cuver of the shades of night. The battle was renewed next day, when the defeat of the imperialists was completed, and both their generals made prisoners, toguther with a great number of inferior officers.

The duke, after this victory, returned to the siege of Fhinfeld, to which he granted an bonourable capitulation, in consideration of its gallant defence. Newburg, Ruttelen, and Friburg, the capital of Brisgaw, were also reduced; and the siege of Brlane*

## NORTHERN EUROPE.

was undertaken, with the greatest contidence of success. Here the duke of Lorrain, and Goeutz, the imperial general, attempted to interropt Weygar's career, by attacking his intrenchments, but without effect. They always found bim upon his guard; and Erisac was forced at last to surrenter, after it had been redueed to such extremity by - famine, that the governor was obliged to set a guard upon the burying places, in order to prevent the inhabitants from digging up and devouring the dead,
*While the duke of Sose Weyomar thus triumphed over the imperialists in Alsace, the Swedish general Bannier prosecuted his conquests in Pomerania. Aftet the Vhetory obtained at Wislock, he redaced Gartz, Locts, Demmin, and Wolgast ; and, understauding that Galas had exteaded his aray, he sent Stalans and Torstenson, two gallant officors, with a reconnoifering detachment, that surprised and cot in pieces two regiments of imperial horse. But Charles Lewis, prince Palatine, son of the expelled elector, who had assembled some troops, aad borned with imputience to re-establish bimself by the sword, was less fortunate in Westphalia. Count Hasfeld, the emperor's lieutenant-general, in that province, advanced against him with a powerful army, in order to raise the siege of Lemgan, the capital of the country of Lippe. Lewis, sensible that he was in no condition to defend his lines against such a force, retreated toward Minden; tut Ilasfeld coming up with him in the valley of Asthein, an action ensued, in which victory continued long doubtful, but at last declared in favour of the imperialists. The Palatine's litule army was almost cut off, his artillery was lost, and his brother Rolsert made prisoner.

In 1639 all the aspiring hopes of Bannier and the Swedes were suddenly blasted, by the immature death of Bernard, duke of Saxe Weymar. He began the campaign with the siege of Thau, whicb he ordered to be battered with red-hot bullets ; a mode of attack which threw the inhabitants into such consternation, that they surrendered alwost iustantly, though they had before baffled all the efforts of Guebriant, the French general. Bernard's character was now so high, and his army so formidable to the imperial throne, that Ferdinand made some secret attempts to detach him from the French interest. But instead of listening to such proposals, which ho considered as insidious, or slackening his operations, he vigorously exerted himself in taking measures for passing the Rhine. While thus employed, he fell sick at Honningen, whence ho was transported by water to Newborg, and there expired in the $\$ 5$ th year of his age. He is supposed to have failen a sacrifice to the jealousy and ambition of cardinal Richelieu, who was not only desirous of gettiog possession of Brisac, but afraid that his scheme of humbling the house of Austria might be defeated, if the duke of Saxe Woymar should close with the emperor's proposals. Puffendarf not only supports this opinion, but positively aflirms, that the duke was taken off by poison, and that his body had all the marks of it.
The death of Weymar was no sooner known, than a violent contest arose who should possess his ariny. Endeavours were used by the Swedish agents in Gerunny, to en${ }^{*} g$ ge the officers and soldiers to join general Bannier ; the emperor took every measure in his power to draw them into his-service, and regain possession of the thices which
the duke thad connquered ; ond Charles Tewls, prince Palatine, the re-establishinent of whosa family bad been the chief cause of the war, attempted to main them through the

- influence of England and tllolland. Bot cardinal Richelien orderod Lewis to be arresty edf at Moalins, in his retum from London, and carried priwoner to the castle of Visoumes, where he was coalined till a treaty was concluded betireen France and the . Weymarian officers. It was stipulated. That the troope of Bernard, duke of Saxe Weymar, should constitute'a separate body, under the diriction of the officers namedin his"will for "that purpose; that tho Prench king should keep this twody alvinys effective, by the payment of a certain annual suai for raising recroits ; shat he stimuld continue to the priaci,al officers the same appointments which they had enjoyed under the dake: furnish them with bread, ammunition, and all other necessarics of war, and watify the several donations which Bernard had made to lis officers and soldiers; that the tromis should receive their orders froui the duke of Longuevilic, through the medium of their own commanders, who should be summoned to all councils beld for the serviee of the common cause ; that the conquered places should he put into the lands of his most Christian majesty, who might at pleasmet appoint governors for Brisso and Friburg; but that the gerrisons should consist of an equal nomber of French and Gorman soldiers ; and that the governors of the other places be chouen from the Weymuran army.

In the year 1641, during the deliborations of the diet, which was then sitting at Ratisbon, the counts d'Avaux and Salvius, the plenipotentiaries of France and Sweilen, were negotiating at Hamburg, the prelininaries of a general peace were signed at Latzen, by one of Ferdinand's aulic counsellors. After certain difficolties had been removed, it was agreed by these celebrated statesmen, that a congress for a general peace stould be held at Munster and Osnaburg, the garrisons of whirh should march out; that the inoabitants should be released from their oath of allegiance to either party, and observe a strict neutrality during the time of nogotiation ; that both cities shonld be goarded by their own burghers and soldiers, commanded by the magistrates, who stould be accountable for the effects, persons, and attendants of the negotiators; that the two conferences should be considered as only one congress, and the roads between the two cities be safe for all goers and comers, logether with the mtermediate -places, where the negotiators might think proper to coufer with each other ; that, in case the negotiation sliould be interropted before a treaty could be concluded, Mynster and Osnahurg should return to the same situation in which they were before the congress ; but that the neutrality should be observed six weeks after the conferences were broken off: that all the safe-conducts on each side should be exchanged at Hamburg, through the mediation of the Danish ambassador, in the space of two months after the date of the agreemigt; that the emperor und king of Spain should grant safe-conducts to the miaisters of France, Saeden, and their allies in Gerwany and elsewhere, and receive the same security from bis nost Christian majesty, and that Sweden should grant safo-conducts to the emperor's plenipotentianiea, as well as those of the electors of Mentz and BrandenDurg. It was farther * sgreed, That France should treat at Munster, and Sweden at Osaaburg: and that
each crown should bave a secretary where the other's plenipotentiary was, in order to communicate their mutual resolutions.
The emperor, for the present; refused to ratify this convention, which he ssid was prejodicial to his honour, as well as to the interests of the Germanic body ; and certain unexpectod events, fatal to the hopes of the confederates, confirmed him in his resolution of cqutinuing the war.

Among these disastrous events may be reckoned the death of Barnier, who fell sick at Zickaw, in consequence of fatigue ; and expired at Halberstadt, in the 41 st year of his age, to the infinite loss, and inexpressible regret of his country, as well as ber allies. Beside his knowledge in the art of war, which he had acquired under the great Gustavas, to whom he was scarcely inferior as a commander, be was distinguished by his moderation and humanity toward those whom, he had vanquished. He always avoided the elfusion of blood, as far as circumstances would admit : and, being robust, patient indefiatigable, and active, he was adored by the soldiery, whose toils and dangers he cheerfally shared.

In 1643, the eyes of all Europe were again torned towards the negotiations at Munster and Osnaburg. The plenipotentiaries named by the emperor were the count d'Aversperg, and the baron de Krane, with Henry, duke of Saxe Lauenburg, who was chief of the embassy. France deputed the count d'Avaux and de Servien, counsellor of state ; Sweden, Salvius, assisted ty a son of the cetebrated chancellor Oxenstiern: and Spain, the marquis de Castel Roderigo and Diego de Saavredan Deputies were also named by the other European powers interested in the negotiations. Tho Swedish garrison quitted Osnaburg ; which, together with Munster, was, by the baion de Krane, released from the oath that the citizens had taken to the emperor; and the regencies of both cities swore that they would observe an exact neatrality, and protect the persons and effects of the negotiators.

In the midst of these advances toivards peace, Torstenion was ordered by the court of Sweden to carry war into the duchy of Holstein; the regency being incensed against the king of Deamark, whom they accused of concealing all tife bostile inteations of an enemy under the mask of a mediator. He had taken several Swedish, vesselsin, the Sound, and refused to give satisfaction to the regency, which complained of these acts of hostility. It was therefore resolved, in a general assembly of the states of Syreden, to make reprisals. That resolution, however, was not publicly known till the moment that Torstenson invaded Holstein. In that ducby he reduced Oldisloe, Kiel, and several other places of importance.

Chisistian IV. afarmed at this irruption, complained of it ta Torstenson, as a palpable infringement of the treaty lately concluded between Denmark and Sweden. Put finding that the Swedish general, instend of paying any regard to such remonstrance, penetrated into Jutland, and made himself cimaster of aimost all the towns in that proVince, his Dauish mapesty had recourse to the emperor, who ordered Galas to march to his assistance in the depth of winter. The imperialists, though much retariled by the snoiv, which rendered the roads aluiost impassable, at length appeared on Pie frontiefs
of Ifolstein ; whero a resolution was taken to starve the Swedes in Jotland, by oceupying the defiles between Stockholm and Sleswick. This design, however, was renderfd abortive by the vigilance of Torstenson, who marched toward Rendaburg with an *intention to give Galas battle, in case he should dispute the passage ; and as the imperialists did not think proper to give him the least molestation, he quitted Holsteib, iutercepted some of their cofivoys, and encamped near Ratzburg.

Meanwhile, France, finding the general negotiations disturbed by the war between Swetden and Denmark, sent M. de la Thuillerie to Copenhagen, in order to bring about an accommodation. His proposals, however, met with hitte attention, until the setreat of the imperialists, and an advantage gained by the Swedes over their northern peighibours at seo, made the Danish monarch more tractable. Despairing of being able to obtain fresh succours from the emperor, Cliristian now listened to the mediation of France A treaty was accordingly concluded at Bromsboo, by which Siweden restored to Denmark all the towns that Torstenson had taken in Holstein, and Cluristian, on his part, ceded to Sweden, Jemptie, Halland, the igland of Gotbland, and the citadel and the town of Wisbic, with all the isles depending upon it. Beside this treaty, which enabled Sweden to act with all her forces against the house of Austria, Thuillerie cctschuded an aliance between France and Denmark, by which Christian agreed to yield no assistance, direetly or indirectly, to the enemies of France, or those of her allies.
Tilt 1658, the negotiations at Munster and Osnaburg, had varied according to the vicissitodes of the war ; but the French and Swedes being then decisively victorious, und having no other enemy in Germany bot the emperor, all the rest being either subdued or in alliance with them, it only remained for Ferdinand to receive law from those powers. Other circumstances conspired to forward the tieaty. Sweden was weary of the war, notwithstanding the great success of its arms, during 18 years of hostilities; and the young queen, Christina, so distinguished by her love for leaming, was desirous of repose, that she might have leisure to pursue her favourite studies. The United. Proviaces, become jealous of France, had coucluded, in 1647, a separate treaty with Spain ; in which their independency was not only acknowledged, but the republic was declared a free and sovereign state, by the only power that had disputed it, at a vast expence of blood and treasure, with an obstinacy to which history uffords to parallel, for the term of 80 years. France, therefore, was left to sustain the whole weight of the war against the Spanish branch of the bouse of Austria ; and casdinal Mazarine, ber prime minister, bsing at the same time threatened with an intestine war, beçame siore moderate in his demands at the congress, as well as more sipcerely disposed to promote the tranquillity of Germany.
In eonsequence of these favourabie occurrences and corresponding views, the memorable Peace of Westphalia was signed at Munster on the 24th day of October, in the year 1648. As it is a fundamental law of the empise, and the basis of all subse? quent treaties, it is necessary to state the substance of the principal articles of it.
In order to satisfy the different powers, the following important stipulations were
found necessary ; namely, That France shall possess the sovereignty of the three archbishoprics, Metz, Toul, and Verdun, the city of Pignerol, Brisac, and its dependeacile, the territory of Suntgau, the landgraviates of Upper and Lower Mlsace, and the right to keep a gAtrison in Philipsburg ; that to Sweden shall be granted, besides five millions of erewns, the archbishopric of Bremen and the bishopric of Verden secularised, Upper Pomerania, Stetin, the isle of Rugen, and the city of Wismar, in the ducfly of Mocklenburg, all to be held as fiefs of the empire, with three votes at the diet ; that the elector of Brandenburg shall be reimbursed for the loss of Upper Powerania, by the cession of the bishopric of Magdeburg secularized, and by having the bishopric of Halberstadt, Minden, and Camin declared secular principalities, with four votes at the diet; that the duke of Mecklenbarg, as an equivalent for Wismar, shall have the hishoprics of Schwerin and Ratsburg erected, in like manner, into seeplar: principalities ; that the electoral dignity, with the Upper Palatinate, shall remain with. Masimilian, duke of Bavaria, and his descendants, as long as they shall produse male issue; but that the Lower Palatinate shall be restored to Charics Lewis, son of the deposed elector, in whose favour shall be established an eighth electorate, to continuetill the extinction of the house of Bavaria. All the other princes and states of the emspire were re-established in their lands, rights, and prerogatives, which they enfoyed before the troubles of Bohemia, in 1619.

The republic of Switzerland was declared to be a sovereign state, exempt from the jurisdiction of the empire : and the long-disputed succession of Cleves and Juliers, withthe restitution of Lorrain, was referred to arbitration.

The stipulations in regard to religion were no less aecurate and comprehensive. The pacification of Passau was confirmed in its full extent ; and it was farther agreed, That the Calvinists shall enjoy the sume privileges as the Lutherans ; that the imperial chamber should consist of 24 protestant members, and 26 eatholies : that the emperor shall receive six protestants into his aulic eouncil, and that an equal number of catholic and protestant deputies shall be chosen for the diet, exeept when it is convgked on a cause that concerns one of the two religions, in which case, all the depoties shall be protestants. if it respects the protestants ; and catholics, if it relates to the followers of the eatholic faith.

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## CHAPTER VF.

GersiasY ASD THE Nonti- From the peace of Westphalia, to the preyent 0 ..
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THAT tranquillity which the peace of Westphalia had restored to Germany, continued ummolested till the death of Ferdinand III, in 1657, when an interregnum of five monthis ensued, and the diet was violently agitated in regard to the choice of a saccessor. At last, however, his son Leopold was raised to the imperial throne; for although jealousies prevailed among some of the electors, on account of the ambition of the house of Ajstisia, the greater number were convinced of the propriety of such a choice, in order to prevent more alarming dangers, White the Turks remained masters of Buda; tho French in possession of Alsace, and the Swedes of Pomerania, a powerful emperor seemed necessary.

The first measure of Leopold's reign, was the finishing of an alliance which his father had began, with Poland and Denmark, in opposition to Sweden. But we shall have occasion to botice the events to which this alliance gave birth, in tracing the history of the northern kingdoms.
Sweden had been raised to the highest "pitch of military reputation by the victorles of Gustavus Adolphus, who was considered as the champion of the protentant cause; but who gratified his own ambition and love of glory, at the sime time that he protected the liberties of Germany, which lis immature death only perhaps preventer bin from overturaing. And his daughter Christina, no less ambitious of fame, thongh neitier in the camp nog eabinet, immortalized her short reign by declaing herself the parroness of learning and the polite arts. She drew to ber court Grotius, Vosstus, Des Cartes, and ocher eminent men, whom she liberally rewarded. But her studies in general, were too antiquated and abstract, to give lustre to her chafacter as a woman ; and by occupying too much of her attention, they were injurious to her repatation as a queen. She acceded to the peace of Westphatia, from a desirc of indulging her passion for study, rather than out of any regard to the happiness of Sweden or the repose of Europe. That peace ligbtened the cares of government; but they were still too weighity for Christina. "I think I see the Devil!" said she, "when my secretary enters with his dispatches,"

Iuorder to enable the queen to pursue her literary amusements, without disadvantage to the state, the senate of Sweden proposed that she should marry ber cousio, Charles Gustavus, prince Palatine of Deux Ponts, for whom she had been designed from her infancy. But although this prince appears to have beenf a fiwourite, tike our* Elizabeth, she did not shoose to give herself a master. She prevailed, however, with the atates to Ceclare Charles Gustavas her successor; a measure by which she kepit
berself at liberty, secured the tranquillity of Sireden, and repressed the ambition of some grgat families, who might, in case of her death, otherwiso have pificred pretensions to the crown.

- Hut the Swedes, among whom refinement had made little progress, but whose martial spirit was now at its height, and among whom policy was well understood, could noi-bear to see the daughter of the great Gustavus devote her time and her tnieats solely to the stady of dead languages; to the disputes about vortiees, innate ideas, and other unavailing speculations; to a taste for medals, statues, pictures, and public spectacles, in contempt of the nobler cares of royalty. And they were yet more displeased to find the resources of the kingdom exhausted, in what they considered as inglorious porsuits, and childish amuscments.

An universal discontent arose, and Cliristion was again pressed to marry. The disgost occasioned by this importunity, first suggested to her the jdea of quitting the throne. She accordingly signified her intention of resigning, in a letter to Charles Gustavns, and of surrendering her crown in full senate.

But Chuilcs, trained in dissimulation, and fearing the queen had laid a snare for him, rejected her proposal, and prayed that God and Swetten might long preserve ber majesty. Perbaps he flattered himself, that the seaate would accept her resignation, and appoint him to the goverament, in recompence for his modesty ; but he was deceived, if these wero his expectations. The senate and the chicf officers of state, hoaded by chanceltor Oxenstiorn, waited upon the queen. And whether Christina had a mind to alarm her discontented subjects, and establish herself more firmly upon the throne, by pretending to desert it, or whatever else might be her motives for resigning ; in a word, whetber having renounced the crown ant of vanity, which dictated most of her ections, she was disposed to respme it out of caprice; sho submitted, or pretended to subait, to the importunity of her sabjects and suecossor, and consented to reign on condition that she should be no more pressed to marry.

Finding it impossible, however, to reconcile : or literaty pursuits, or more properly, thic love of case, and ber romantic turn of miah with the duties of her station, Cliristina finally resigued her crown in 165 ; and Giarles Gustavus ascended the throne of Sweden; under the natme of Charles X. After despoiling the palace of every thing earious and valuable, she left her capital aad fier kingdom, as the abodes of ignorance and barbarism. She travelled through Germany in men's clothes; and having a design of fixing ber residence at Roinc, that she wight have an opportunity of contemplating the precious remains of antiquity, she nmbraced the catholic religion at Drussels, and solemnly renounced Lutheranism at laspruck. The catholics considered this convorsiop as a gront triumph, and the protestants were not a litte mortified at the defeetion of so celebrated a woman ; but botb without reason; for the queen of Sweden, . who loud an equal coatempt for the pecularitics of the two religions, meant only to conform, io appearance, to the tenet of the peoplo among whom she intended to live, in order to enjoy more agrecably the pleasures of social intercouse. Of this ber letien afford sufficient evidence, to silence the cavillers of either party,

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- But Cliristina, like moit sovereigus who have quited a throne, in order to escape frour the cares of royalis? found berself nu less caeasy in private life ; so true is it, that happiness depends on the mind, not on the condition. She soon discovered, thai a queen without power was a rery insignificant character in Italy, and is supposed to have repented of hur resiguatyion. But, borrever that may be, it is certain sto became tired of ber situation, and made two journeys into Prance, whero she was received with anich respect by the learned, whom ahe had peusioned and fattered, but with little attention by the polite, especialiy of her own sex. Her maseoline air and libertine consersa, tion, kopt women of delicacy at a distance. Nor does she seem to bave detired their acquaintance ; for when, on her first appearance, some ladies were eager to pay their civilities to ber, "What," said she, "makes these womea so fond of we ? Is it because I am so like in man ?" The celebrited Nuion de l'Enclos, whase wit and beauty gave ber the power of pleasing to the most advantage, and who was no less distioguisbed by the multiplicity of her anoours, than the singolarity of her manner of thinking, was the only woman in France whom Christina honoured with any particular mark of her esteem. Slio laved the free conversation of the men: or of women, who, like berself, were above vulgar restraints.

The modest women in France, bowever, repaid Christina's contempt with ridicule. And happy had it been for her character, had she never excited, in the mind of either sex, a more disagreeable emotion; but that was soon succeeded by those of detestation and horror. As if not culy savereignty, but despotism, had been attached to her person, in a fit of libidinous jealousy, she ordered Monaldeschi, ber favourite, to be assassinated in the great gallery of Fountuinblenu, and almost in her own presence. Yet the woinan, who thus terininated an amour with murder, did not want her apologists among the learned: and this atrocions violation of the law of nature and nations, in an enilightened asce, and in the hieart of a civilized kingdom, was allowed to pass, notonly without punishwent, but without inquiry !
Christina found it necessary, however, to leavo France, a bere she was now justly Theld in abhorrence. She therefore returied to Rome; wtere, unden the wing of the vicar of Christ, the greatest crinuinals foand shelier and consolation; and where the queen of Sweden, a dupe to vanity and caprice, spent the remaiader of her life, in sonsual indalgencies and literary conversations, with candinal Azzolioi, and other members of the sacred college; in admiring many things for which'she had no taste, and in talking about thore which she did not understand.

White Caristina was thus rambling cver Earope, and amusing berself in a manner as unworthy of ber former eharacter as of the dajghter of the great Gustavas, ber successor, Charles X . was indulging the martial spifit of the Swedes, by the conquest of Poland. This he accomplished after severil signal victeries, in which be discovered both courage and conduct. Warsaw, the capital, was obliged to surrender; and Casimir, the Polish king, took refuge in Silesia. But that conquest was of small advantage to Sweden. The Poles revolted, in violation of the most solomn oaths and engagements ; and the Russians, the Danes, the elector of Brandenburg, and the curperor Leopold, assisted them in expeiling their invadere

But the king of Sweden, though assaited by so many enemres, was not discournged. Dejending on the valour of his troops, he suddenly entered Denuark, then goveraed by Prederic III, and laid sioge to Copenhayen ; which must bave surrendered, if it hid not been relieved by a Dutel fleet. He made a second attack on the same capital the year following, though without success; and the ardour of his spirit being still unabated, he was taking measures to pash the car with redoubled vigour against ell his enemies, when he was carried off by an epidenical fever that raged in his camp.

As the son of this warlike and ambitions monarch was yet a minor, peace now became necessary to Sweden. A treaty of general pacification for the North, was aecordingly concladed at Oliva; by which Polish Prussia was restored to Casimir, who ceded Esthonia, and the northera Livonia, to Sweden. The Danish monarch, still under the terror of the Swedish arms, made also considerablo sacrifices.

The north of Europe, for several years after the peace of Oliva, was the theatre of but few considerable events. In 1665, the king of Denmark assisted the Dutch in sheir war against England, with a fleet of 40 ships, in consideration of an annual subsidy of 1500 crowns.

In 1668, Sweden became a party in the defensire alliance which was formed by England and Holland, to resist kie power of France.

In the mean time, the Mungarian nobles, whose privileges had been invaded by the emperor, flew to arms, and even craved the assistance of the Tarks, their old and implacable enemies. The rebels were quickly subdued, by the vigour of Lsopold. But the body of that brave people, who had so often repelled the infidels, and tilled with the sword in their hand, a country watered with the blood of their ancestors, were still dissatisfied ; and Germany itself, deprived of so strong a barrier as Hungary, was soon threatened by the Turks.

The emperor entered into an allience with the Dutch and Spaniards; and from this time became a party in the war against Lewis.

This war will be more particularly trented of in another part of this work; but we must here observe, that the flames soon spread to the north of Europe.

The king of Sweden was induced, by the paynient of large subsidies, to take part with France ; but had soon cause to repent of this resolution.

The Duteli, the Spaniards, and the Danes, became at once his enemies. He was defeated by the elector of Brandenburg, whose territories he had invaded, and lost all Pomerania. Bremerfust was taken by the troops of Brunswick Luncnburg ; Wolgast by those of Brandenburg; and Wismar fell into the hands of the Danes.

These conquents were, bowever, restored by the treaty of Nimeguen, and the treaty of Westphalia reusained in full foree in Germany and the North.

Levis, soon after the treaty of Nimeguen, began to encroacir upon the rights of Gersnany ; but the imperail armies were employed in another quarter, to oppose a more, pressing danger.

The Hungarians, whose privileges Leopold had never suftiently respected, had sgain brokẹ out into rebellion, und Tekeli, the head of the insurgents, had salled it
the Turks to the support of his countrymen. Ny the assistance of the Basnaw of Buds, the ravaged Silesia, anâ reduced many important places in Hungary; while Matiowut IV, the reigaing sultan, was preparing the most formidable force that the Ottoman ceapire had ever sent'against Christendom.
Leopold, foreseeing that the gathering storm would finally break upon Germans, beside demanding the assistance of the princes of the empire, concladed an offidisive and defonsivo alliance with John Sohieski, king of Poland. Meanwhile, the grand vizier, Kara Mustaphn, passing through Hangary, at the head of 50,000 janizaries, 30,000 spahis, and 200,000 common men, assembled for the occasion, with baggage and artillery in proportion to such a multitude, advanced towards. Vienna. The duke of Lorrnin, who commanded the imperial forces, attempted in vain to oppose the progress of the invader. The Turks, under the grand vizier, took the right of the Danube, and Tekeli, with the Hungirians, the left. Seeing his capital threatened on every side, the emperor retired first to Lintz, and afterwards to Passau. Two thirds of the inhabitants followed the court; and nothing was to be seen, on all. sides, but fugitives, equipages, and carriages laden with moveables. The whole empire was tbrown into consternation.

The garrison of Vienna amounted to about $15,000 \mathrm{men}$ : and the citizens able to bear arms, to near 50,000 . The Turks invested the town on the 17 th of July: and they had not oaly destroyed the suburbs, bot made a breach in the body of the place by the 1st of September. The duke of Lorrain had beenso fortanate as to prevent the Ifungarians from joining the Turks, but was unable to lend the garrison any relicf; and an assault was every moment expected, when a deliverer appeared. John Sobieski, king of Poland, having joined his troops to those of Saxony, Ravaria, and the Circles, made a sigual to the besicged from the top of the mountain of Calemberg, and inspired them with now hopes. Kapa Mustapha, who, from a contempt of the christians, had neglected to push the assault, and who, amidst the progress of ruin, had wantoned in laxury, was now made sensible of his mistake, when too late to repair ie
The christians, to the number of 64,000 , descended the mountain, under the command of the king of Poland, the duke of Lorrain, and an incredible number of Gesman princes, The grand visier advaneed to meet them at the head of the main body of the Turkish army, white he ordered an assault to be made upon the city, with 90,000 men, who wero keft in the trenches. The assault failed; and the Turks being seized with a panic, were roiuted almost without resistance. Only 500 of the victors fell, and not abiove. 1000 of the venquished. And so great was the terror, "and so precipitate the flight of the infidels, that thicy abandoned not ouly their tents, artillery, and baggage, bat left behind them even the famous standard of Mahomet, which was sciat as a present to the pope. The Turks received another defeat, in the plain of Barcan ; and all Hungary, on botb sides of the Danube, was recovered by the imperial arms.

The emperor baving subduod the Hungarian malcontents, and defeated the Turks, turned his attention to the side of Frence. A league isas concluded by the woole
empire at Augiburg to deFend the liberties of Europe; and to this league Denmark and Sweden, as well as many of the southern powers afterward aceeded.

For nine years after the league of Augsbarg, the emperor was exposed to a double war; that on the side of France, which was terninated by the treaty of Ryswick, in 1697 ; and that with the Turks, in which the Austrians were ultimately successful ; the Turks being obliged to colle to the emperor by the treaty of Carlowitz, all Hungary on this side the Saave, with Transylvania and Sclavonia.

The treaty of Ryswick was not productive of lasting tranquillity. The powers of the south and west were very soon after engaged, first in -negotiation, and then in war, to promote or resist the progress of the house of Bourbon; while the affairs of the north aid cast were agitated by the long and bloody contest between Charles XII, and Peter the Great, two of the most extraordinary men that ever existed. In order to teach his lualf civilized subjects the art of war, and to gain a port on the eastern shore of the Baltic, the latter of these monarchs joined with the kings of Poland and Denmark in unprovoked hostilities againat the young Charles of Sweden.

In these umbitious projects the hostile prinees were eucouraged, not only by the youth of the king of Sueden, who had succeeded his father, Charles XI. in 1597, when only 15 years of age, but by tho little estimation in which be was, held by foreign courts. Charles, however, suddenly gave the lie to public opinions, by discovering the greatest talents for war, accompanied with the most enterprizing and heroic spirit. No sooner did the occasion call, than his bold genius began to shew itself. Instead of being disconcerted, when told of the powerful confederacy that was forming against him, he seemed rather to rejoice at the opportunity which it would afford him of displaging his courage. Meanwhite, he did not neglect the necessary preparations or precautions. Ie renewed the alliance of Sweden with England and Holland; and he sent an army into Pomerania, to be rendy to support the duke of Holstein, his brother-in-law.

Ou Hulsteia the storm first fell. The Danes, led by the duke of Wurtemburg, and encouraged by the prescoce of their sovereign, invaded that duchy; and after taking some inconsiderable placels, invested Tonningen, while the Russians, Poles, and Saxons, entered Livonia and Ingria. The moment Charles was informed of the invasion of Hulstein, he resolved to carry war into the kingdom of Deamark. He accordingly left his capital, never more to return thither, and cmbarked with bis troops at Carlseroon ; having appointed an extraordioary council, chosen from the senate, to regulate affairs during his absence. The Swedish fleet was joined at the mouth of the Sound, by a combined squadron of Euglish and Duteh men of war, which William, as both king of England and Stadtholder of Holland, had sent to the assistance of bis ally. The Danish flect, unable to face the encmy, retired under the guns of Copenbagen, which was bombarded; and the king of Denmark, who had foiled in his attempt upon Tonningen, was himself cooped up in Holstein, by some Swedish frigates cruising on the ccast.

- In this eritical season, the enterprizing spirit of the young king of Sweden suggested to bim the uicans of finishing the war at a blow. He proposed to besiego Copeohagen Vol. 1.
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by fand, while the combined feet llocked it op by sea. The idea was admired ty all bis generals, and the negessary preparations were made for a descent. The king bimself, impatient to reach the store, leoped into the see, sword in hand, where the nager rose above his middle. His example was followed by all his officers and soldiers, who quickly puit to -light the Panish troops that attempted to oppose his landiag. Charles, whio had acver hefore beea present at a general discharge of auakets loaded with ball, asy kedomajor Stuart, whostood near him, what occasioned the whistling which be heard." "ts iv the sound of the bullets," "replied the major, "which they fire agaiust your wajesty." "Very' well," said the king, " this shall benceforth be my music."

The citizcoss of Copenhagen, filled with consternation, sent a deputation to Charles, besecebing him not to bombard the town. He, on horseback, received the deputics at the bead of his regiment of guards. They fell on their knees before him ; and he granted their request, oo their agreeing to pay thim, 400.000 rix-dollars In the mean time, the king of Denmark was in the most perilous situation; pressed by land on one side, and confined sy sea on the other. The Swedes were in the heart of bis dominions, and his capital and ais Acet were both ready to fall into their hauds. He could defive no hopes but from negotiation and subinission. The king of England offered his mediation : the French ambiassador also interposed his good affices; and a treaty, highly advantageous to Charles, was concluded at Travendale, between Denmark, Sweden, and Holstein, to the exclusion of Rassia and Poland.

As the scene of the next operations of the aorthern powers was laid in Poland and Russia, all that will be necessary in this place is to recite such events as will preserve the thread of the nurration.

Iminediately after rabising the siego of Copenhagen, Chatles, with 8000 men, defeated 80,000 Russians, who were engaged in the siege of Narva.

Having paseed the winter at Narva, be entered Polund carly the next spring, and having forced diue passage of the Duna, and defeated a large army of Saxons and Poles, penerrated to Mittan, the capital of Courland.

Fiom Courland the passed into Lithuania; and at Birzen, where the confoderated princes has planied his destruction, formed the design of dethroning the king of Polund, by arailing himself of the discontent of his suljects.
In 1703, he saw these purposes accomplisted; tho diet at Warsaw baving declared Augustus, king of Poland, incapatle of reizning, and the throne necessarily vacant : and Stanislaus Leczinkki, Palatine of Posnania, being elected king, through the linterest of the Swedish monarch.

In 1706, 60,000 Russians, who were sent into Poland to the nssistance of Augustus, were defeatel by the victorious Swedes, and obliged to recross the lioristhenes. At the same time, in another quarter, a targe army of Russians and Saxons were defeated by Renschiid, a renüwned Swedish general. After this, Charles entered Saxony, and compelled Augustus to relinquish all pretensions to the crown of Poland.

In t70s, be apaio expelided the Rassians, from Poland, and having slighted tho . great Peter's proposals for peace, attempted, withvot any due proparations, to force his
way to Moscow. He was, liowever, totelly defeated at Putows, and reduced to secke refuge anong the enemics of Christendom. By his intrigue? with the court of Constantioople, he involved the Turks in a war with the Russians ; in which the latter were saved from ruin only by the elemency of Baltagi, the grand vizier.

On these most bumiliating conditions, Peter was ullowed $\downarrow 0$ retire swith his army. The Turks supplied him with provisions; so that he had plenty of every thing in thiscamp, only two bours after signing the treaty. He did not, however, a moment delay his refreat, aware of the danger of intervening accidents. And just as he was marching off, with drums beating and colours flying, the king of Sweden arrived impatient for the fight, and bappy in the thought of having his enemy in bis power. Ponitowski met hiun with a dejected countenance, and informed limo of the peace. Inflamed with resentincnt, Charles flew to the tent of the grand vizier, and keenly reproached bim with the treaty be had concluded. "I tiave a right," said Baltagi, with a calm aspect, " to make either peace or war. And our law commands us to grant peace to our enemies, when they implore our clemency." "And does it command you," subjoined Charles, in a baughty tone, "to stay the operationis of war by an unineaning treaty, whien you might fupose the law of the conqueror? Did not fortume atlurd you an opportunity of leading the ėzar in chains to Constantinople ? 6 . The grand vizier, thus pressed, replled with an imperious frown, "And who would have governed his empire in his absence ? It is not proper that all crowned heads should leave their dominious," Churles made no snswer only by a sarcastic sumile. Swelling uith indignation, he threw bimself upon a sofa, and darting on all around bion a look of disdain, he stretehed out his leg, and entangling his spor in Baltagis robe, purposely tore it. The grand vizier took no notice of this splenetic insolt, which he seemed to consider as an accident; and the king of Sweden, fartlier mortified by that magnanimous neglect, sprung up, mounted his horse, and returned with a sorrowful heart to Bender.

Baltagi Mahoniet, however, was soon mait: sensible of his error, in agt paying more regard to the claims of Charles XII. For sistrough the Grand Seigoior was so well pleased with the treaty concladed with the czar, when the news first-reaclied Cofistantinople, that he ordered poblic rejoicings to be belit-for a whole week, Ponitowski and the other agents of Charles soon found means to persuade him, that his interest had been betrayed. The grand vizier was disgraced. Bot the minister who suceceded Baltagi in tibat high office, was yet less disposed to favour the views of the king of Sweden. His liberat allowance of 500 crowns a day, beside a profusion of every thing necessary for his table, was withdrawn, in consequence of his intrigues. All his attempts to kiodle a new war , between the Turks and Russians proved ineffectual ; and the divan, wearied out with his perpetual importunities, came to a resolution to send bim back, not with a numerous arny, as a king whose cause the sultan meant to abet, but as a troublesome fugitive, whom he wanted to dimiss, attended by a sufficient guard.

- To that purpose, ${ }^{\text {Achaset III. sent Charles a letter; in which, after stiling him }}$ the most powerful among the kings who worship Jesus, brilliang in majesty, a lover of boneur and glory, be very positively requires bis departure. "Though we had propos-
ed," says the sulton, " to mareh our victorious army once more against the czar, we have found reason to glange our resolution, In order to avoid the just resentment which we had expressed at his delaying to execnte the treaty concluded on the banks of the Pruth, and afterwards renewed at oor sublime Porte, that prioce has surrendered. into our hands the eastle gnd city of Azoph; and sndeavoured, through the mediation of the ambassadors of Eingland and Holland, our antient allies, to cultivato a lastipg peace with ua We.hnve therefore granted his request, and delivered to his plenipotentiaries, who remain with us as hostages, our imperial ratification, having first received his from their hands. Yeu must; therefore, prepare to set out, under the protection ef providence, and with an bonourable guard, on purpose to return to your dominions, taking care to pass through those of Poland in a peaceable manner."

Although this letter was sufficiently explicit, it did not extinguish the hopes of the king of Sweden. He still flattered himself that he should be able to iavolve the Porte in a new war with Russia ; and he had almost accomplished his aim. He discovered that the czar had not yet withdrawn his troops from. Poland. He made the sultan acquainted with that circumstance. The grand vizier was disgraced, for neglecting to enforce the exccution of so material an article in the late treaty ; and the Russian ambassador was committed to the castle of the Seven Towers. This storn, bowever, was suon dissipated. The czar's plenipotentiaries, who had not yet left the Porte, cagaged that their master should withdraw his troops from Poland. The treaty of peace was renewed; and the king of Sweden was given to understand that he must immediately prepare for his departure.

When the order of the Porte was communicated to Charles, by the bashaw of Bender, he replied, that he could not set out on his journcy until he had received money to pay his debts. The bashar asked how much would be necessary. The king at a venture, said, 1000 purses. The bashaw acquainted the Porte with his request; and the sultan, instead of 1000 , granted 1500 purses. "Our imperial munificence," says he, in a letter to the bashaw, "hath granted 1000 purses to the king of Sweden, which shall be sent to Bender, under the care and conduct of the most illustrious Mahomet Bashaw, to remain in your custody until the departure of the Swedish monarch ; and then be given him, together with 200 purses more, as a mark of our imperial liberality above what he demands."

Notwithstanding the strictness of these orders, Grothusen, the king of Sweden'sseeretary, found means to get the money from the bashaw before the departure of bis master, under pretence of making the necessary preparations for his journey; and a few days after, io order to procure forther delay, Chartes demanded another thousand purses. Confounded at this request, the bashaw stood for a moment speechless, and was observed to drop a tear. "I shall loso my head," said he, " for having obliged your majesty! and took his leave with a sorrowful countenance. He wrote, however, to the Porie in hís own vindication; protested that he did not deliver 1200 purses, but upon a solemur promise from the king of Sweden's minister, that his master would instantly depart.

The bashaw's excuse was sustained. The displeasure of Achmet fell wholly upoa
A. D. 1713.

NORTIERN EUROPE.
Charles. Having convoked an extraordinary divan, ne epole to the follosing purport, his eyes flashlng with indignation. "I hardly ever knest the king of Sweden, extept by his defeat at Pultowa, and the request he made to me for an asylum in my dominions. I have not, 1 believe, any need of his assistance, or cause to love or fear him. Nevertheless, without being influensed by any other motive than the hospitality of a Mussulman, directed by my natural generosity, which sheds the dew of beneficence upon the great as well as the small, upon strangers as well as my own sudjects, ( bave received, protected, and maintained himself, bis ministers, officers, and soldiers, according to the dignity of a king; and, for the space of three years and an half, have never with-held my hand from loading him with favours. I have granted him a considerable guard to conduct lim back to his own kingdom. Ife asked 1000 purses to pay some debts, though I defray all his expences : instead of 1000 , I granted bim 1900 purses; and having received these, be yet refuses to depart, until he shall obtain 1000 more, and a stronger guard, although that already appointed is fully sufficient. I therefore ask you, whether it wilt be a breach of the laas of hospitality to sgnd away this prince? and whether foreign powers can reasonably tax me with cruelty and iojustice, if $I$ should be under the necessity of using force to compel him to depart?"

Alt the members of the divan answered, That such a conduct would be consistent with the strietest rules of justice. An order to that effect was accordingly sent to the bashaw of Bender, who immediately waited upon the king of Sweden, and made him acquainted with it. "Obey your master, if you dare," said Charles, "and Ieave my presence instantly." The bashaw did not need this insult to animate him to his duty. He coolly prepared to execute the commands of his sovereiga ; and Charles, in spite of the earnest entreaties of his friends and servants, resolved, with 500 Swedes, to oppose an army of Turks and Tartars, having ordered regular entrenchments to be thrown up for that purpose. After some hesitation, occasioned by the uncommon nature of the service, the word of command was given. The Turks marched up, to the Swedish fortifications, the Tartars being already waiting for them, and the cannoin began to play. The little camp was instantly forced, and the whole 300 Suedes made prisoners.

Charles, who was then on horseback between the camp and his house, took refuge in the latter, attended by a fow general officers and domestics. With these he fired from the windows upon the Turks and Tartars, killed about 900 of them, and bravely maintained his post, till the house was all in flames, and one half of the room fell in. In this extremity, a ceutinct, named Rosen, had the presence of mind to olserve, that the chancery-house, which was only 50 yards distant, bad a stone roof, and was proof against fire ; that they ought to sally forth, take possession of that house, and defend themselves to the last extremity. "There is a true Swede,". eried Charles, rushing out like a madman, at the -head of a few desperadoes. The Turks at first recoiled, from respect to the person of the king; but suddenly recollecting their orders, they - surrounded the Swedts, and Charles was made prisoner, together with all his attendants. Being in boots, as usual, he entangled bimself with his spars, and fell. A number of janizaries sprung upon tim. He threw his sword up into the air, to save thinself the

## Vol. 1.

- 90
mortification of surrondering it ; and some of the janizaries taking hold of his legs, - and others of his aras, he \$n as carried in that manner to the bashan's quarters.

The bastiaw gave Cliarles his own apartment, and ordered him to be served as a* king, but not without taking the precaution of planting a goard of jonizaries at the chamber duor. Next day be was conducted tur ard Adrianople, as a prisoaer, in a chariot covered with scarlet. On his way be was inforned by the baron Fabricius, ambassa, dor foem the dake of Holstein, that the was not the only Christian monarch that was a prisoner in the hands of the Turks ; that his friend Stanislaus, having come to share his fortunes, had beeo taken into custody, and was only a few miles distant, oniler a guard of soldiers, who were condacting him to Bender. ". Run to him, my dear Fabricius !" cried Charles, "desire him never to make peace with Augustus, and assure him that our iffluirs will som take a more flattering furn." Fabricius hastened to execute his commission, attended by a jmizary, haviog first obtained leave from the bashaw, who, in person, commanded the guard.

So entirely was the king of Sweden sedded to bis own opinions, that although abandoned by all the nurld, stipt of great part of lis dominions, a lugitive among the Turks, whose liberality he had abored, nud noa led captive. without knoning whither he was to be carried, he shil reckoned on the fivours of fortune, and hoped the Ottoanan court would send bian hmme at the hyad ot 1 anowo men. Tais idea continued to occopy him during thé while tine of his ciofincunth, He wat at first committed to the castle of Denirtash, in the neighboprlioad of Adninople; bot atterwand allowed to reside at Deniotica, a little town aboot six leagues distant from that city, and near the tamous river Hebrus, now called Merizza. There be renewed his intrigues; and a French adventurer, counterfeiting madness, had the boldness to present, in bis name, a memorial to the Grand Seignior. In this meanorial, the inaginary wrongs of Charles were set forth in the strongest terms, and the minister of the Porte accused of extorting froar the sultan an order, in direct violation of the lrws of uations, as well as of the hospitality of a Mussulman ; an order in itself utterly unvorthy of a great eurperor, to attack, with 20,000 men, a sovereign who had none but his domestics to defend him, and who relied upon the sacred word of the sublime Achmet.
in coasequence of this intrigue, as was supposed, a sudden chango took place in the keragiio. The mufti was deposed; the khan of Tartary, who depents upon the grand seignior, was banished to Rhodes, and the bashaw of Bender coufined in one of the islands of the Archipelago. One vizier was disgraced, and another strangled. But these changes in the mintstry of the Porte, produced none in the condition of the king of Sweden, who still remained a prisoner at Demotica ; and, lest the Turks stoold not pay him the rervect doe to his royal person, or oblige him to condescend to any thing beneath his dignity, he resolved to keep his bed, during his captivity, under pretence of sickness. This resolution he kept for ten months.

While the naturally active and indefatigable Charles, who held in contempt all. effeminate-indulgences, and had set even the elements themselves at defiance, was wasting, from caprice, lis time and his constitution in bed, or barassing his mind with

## NORTUERN EUROPE.

fruitless intrigues, the northen princes, who hart formerly trembled at his namie, and whom he might still, by a dlifferent conduet, bave made tiguble, were dismembering Gis dominimos. General Stremboek, nho had distinguished hinself. by driving the Danes - out of Schonen, and deteating their best troops with an inferior number of Swedish millitia, defended Pomerania, Bremen, and all his master's. possessions in Germany, as long as poasible. Bat he could not prevent the combined army of Dunes and Suxous from besieging Stade ; " place of great strength aod importance. situated on thegbanke of the Elbe, in the duchy of Bremen. The town was bombarded and reduced to ashes, and the garrison obtiged to surrender before Steenbock could come to their assistance.

The Swedish general, however, with 12.000 men, pursued the enemy, though twica his number, and overtrow them at a place called Gadesbush, in the duchy of Mecklenburg, in December, 171g. He wis separated from theim, when he first came in sight, by a morass. The Danes and Saxons, who did not decline the combat, were so posted as to have this morass in front, and a wood in the rear. They had the advantage of numbers and situation ; yet Sreenbock. notwithstanding these adverse circumstances, pessed the morass at the head of his troops, and brgan one of the most furious and bloody battes that ever bappenet between tho rival nations of the nortl; After a desperate confliet of three liours, the Danes and Saxons were totally roated, and driven off the field with great slangiter.

Hut Steenbock stained the honour of his victory, by burning the flourishing, though defenceless, whin of Altena, belouging to the king of Denmark. In consequence of that severity, many thousands of the inhabitants perished of hunger and cold. All Germany exclatued against so shocking an insult to humenity; and the ministers of Poland and Denimark wroto to the Swedish geaeral, reproaching him with an act of cruelty committed without necessity, and which could not fail to awaken the vengeance of heaven anit carth against him. The enlightened, but unfeeling Goth, replied, That he never should have exercised such rigour, had it not been with a view to teach the evemies of Sweden to respect the laws of nations, and not to make war, for the future, like barbarians. They had not only, he observed, laid waste the beautiful province of Pomerania, but sold near an hundred thousand of its inhabitants to the Turks ; and the torches which had laid Altena in ashes, he affirmed, were no more than a just retaliation for the red hot bullets, which had wrapt in flames the more venerable city of Stade.

Had the king of Sweden appeared in Pomerania, whilc his subjects carried on the war with such ipplacable resentment, and even with success, against their numerous enemies, he might, perbaps, bave retrieved bis minous fortune. His troops, though so widely separated from tis person, wero still animated by his spirit. But the absence of a prince is ziways prejudicial to his affairs, and more especially presents his generals - from making a proper use of their victories. Steenbock lost, almost instantly, the fruits of his valour and conduct, which, at a happier crisis, would have been permanent conquests. Though victorious, he could not prevent the junction of the Russians,

Denes, and Saxons, who obliged him to seek an asylum for nimself and bis galant

- army in Toningen, a fortres in the dachy of Holstein.

That duchy was thon subjected to the most cruel ravages of any part of the north. The young duke of Holstein, nephew of Charles XII. and presumptive heir to the crown of Sweden, was the caturab enemy of the king of Denmark, who had endeavoured to strip his father of his dominions, and to crush himself in the very cradle, The bishop of Lobeck, ore of bis fatber's brothers, and administrator of the dominions of his mi. fortunate ward, now beheld himself in a very eritical situation. His own territoriea were already exhausted by continual contributions; the Swedish army claimed his protection ; and the forces of Russia, Denmark, and Saxony, threatened the duchy of Holstein with finmediate desolation. But that danges was seemingly removed by the address of the fanous baron de Goertz, who wholly gaverned the bishop, and was the most arfful and enterprizing man of his time ; endowed with a genius amazingly penetrating, and fruifful in every resource.

Goertz had a private conference with general Steenbock, at which he promised to deliver up to him the fortress of Toningen, without exposing the bishop-adminisfrator, his master, to auy inconveniency: rnd lie gave, at the same time, the strongest assurances to the king of Denmark, that ho would defend the place to the utmost. The governor accordingly refused to open the gates; but the Swedes were admitted partly within the walls, and partly under the cannon of the town, in consequence of a pretended order from the young duke, who was yet a minor.

This indulgence, however, procured by so much ingenious deceit, proved of little use to the brave Steenbock, who was soon obliged to surrender himself prisoner of war, together with his whole army.

The territories of Holstein now remained at the mercy of the incensed conquerors. The young duke became the object of the king of Denmark's vengeance, and was doomed to pay for the abuse which Goertz had made of lis name. Finding his original project thus rendered abortive, the baron formed a scheme for establishing a neutrality in the Swedish provinces in Germany. With this view, he privately entered into a negotiation, and at the same time, with the several princes, who had set up claims to any part of the tertitories of Charles XII. all which, the kingdom of Sweden excepted, were ready to become the property of those who wanted to share them. Night und day he contfined passing from one province to another. He engaged the governor of Bremen and Verden to put those two duchies into the bands of the elector of Hanover, ly way of sequestration, in order to prevent the 1)anes from taking possession of them for themselves ; and be prevailed with the king of Prussia to accept, in conjonetion with the duke of Holstein, of the sequestration of Stetin, which was in danger of falling a prey to the Ressians.

In the mean time, the czar was pusbing his conquests in Finland: Having made a desceut at Elsingford, in the most southern part of that cold and barren region, he e ordered a fitigned attackata be made on one side of the harbour, whilo he landed his troops on the other, and took possession of the town. He afterward made hionsct
master of Abo , Borgo, and the whole coast : defeated the Swedes near Tavestius, a port which commanded the Gulf of Buthmia, penctrated as far as Vaza, and reduced every fortiess in the country. Nor were the conquests of Beter confined to the land. He gained a complete victory over the Swedes by sce, and mfde himself master of the istund of Ocland.

- Durug these important transactions, so fital to the porer and the glory of Sweden, Cbuarles continued to keep his hed at Dometica. MeanvLile, the regeary at Stockholm, diven to despair by the desperato situation of their affairs, and the abseace of their sovereign, who scetwed to have utterly ubaadoned his dominions, had come to a Resolution no more to consult bin in regard to their proceedings. And the senate went in a body to the princess Ulrica Eleanora, the king's sister, and entreated her to take the government into her owo hands antil the return of her brother. She agreed to the proposal ; but fiuding that their purpose was to force her to make peace with $R$ issia and $\operatorname{Den}$ mark, a measure to which she knew her brother would never consent, on disadvantageous terms, she resigned the regency, and wrote a full and circumstantial account of the: whole matter to the king.

Roused from his affected sickness, by what he considered as a treasonable attempt upon his authgrity, and now despairing of being able to make the Porte take arms in his favour, Charies signified to the Grapd vizier bis desire of returning, through Germany, to his owa dominions. The Turkish ministry neglected nothing which might facilitate that event. In the mean time, the king of Sweden, whose principles wete perfectly despotic, wrote to the senate, that if they pretended to assume the reins of government, be would send them one of his boots, from which they should receive their orders ! and all things being prepared for his departure, he set out with a convoy consisting of 60 loaded waggons, and 300 horse.

On his approaching the frontiers of Germany, the Swedish monarch bad the satisfaction to learn, that the emperor had given orders that he should be received in every part of his imperial dominions, with the respect due ta his rank. But Charles had no juclination to bear the fatigoe of so mucb pomp and ceremony. It therefore, took leave of his Turkisy convoy, as soon as he arrived at Targoniz, on the confines of Transylvania; and assembling bis attendants, desired them to give themselves no farther concern about him, bot to proceed with all possibie expedition to Stralsund in Pomierania. The king himself in disgulee, attended only by two officers, arrived at that place, after making the tour of Germany. And, without considering the wretched state of his affairs, he inmediately dispatehed orders to his gencrals, to renew the war ogainst all hisenemies with fresh vigour.

The approach of winter, however, provented any military' operations being proseeuted ontil the sping. Meanwhile, the king of Sweden was employed in recruiting his armies ; and in order to strengthen bis interest, he gave his only surviving sister, Ulrica Eleanora, in marriage to Frederic, prince of Hesse Cassel, who had distinguibhed him--self in the imperial service in the Low Countrics, and was esteemed a good general-

Vol. I.

* 9 P

But Charles, on the opening of the campaign, was surrounded by such a multitude of enemies, that valour or conduct, without a greater fores, could bo of little service, The Geranan troops of the elector of Hanover, now king of Great Britain, together with thase of Denmark, invested the strong town of Wismar, while the combined arnyp of Prussians, Danes, and Saxons, marched tonard Stralsund, to form the siege of that important place. The czar was at the same time in the Batic, with 20 ships of war, and 150 transports, carrying $\$ 0.000$ men. He threatened a descont upoa Sweden; and all that kjngdoin was in arms, expecting every moment an invasion.

St/alsund, the strongest place in Pomerania, is situated between the Paltic Sea and the lake of Franken, near the Straits of Gella. It is inaceessible by land, unless by a narrow causeway, guarded by a citadel, and by the other fortifications which were thought impreguable. It was defeuded by a body of 12,000 men, commanded by Charles XIL. ia person, and besieged by the kings of Prussia and Denmark, assisted by the gallant prince of Anhalt, with an army thrce times the number of the Swedes. The allies were arimated by a love of glory and of conquest ; the Swedes by despair, and the presence of their warlike king. Unfortunately, however, for the latter, it was discovered that the sea, which, on one side, secured the Swedish entrenchments, was at times fordable.

In consequence of this discovery, the Swedes were unexpectedly attacked at night. While one body of the besiegers advanced upon the causcway that led to the citadel, another entered the ebbing tide, and penetrated by the shore into the Siwedish camp, before their approach wes so much as suspected. The Swedes thus surprized, and ussailed buth in flank and rear, were incapable of resistance. After a terible slaughter, they were obliged to abandon their entrenchment: to evacuate the citaslel, and take retuge in the town, against which their own eannon were now pointed by the enemy, who henceforth pushed the siege with unremitting vizour.

In order to deprive the king of Sweden and his little army of all succours, or of even the possibility of escape, the allies had hegun their operatinas with chasing the Swedish fleet from the coast of Pomerania, and taking possession of the isle of Usedam, which marle agallant defence. They now resolved to make themselves mayters of the ivle of Rugen, opposite Stralsund, and which serves as a bolwark to the place. Though sensible of the importance of Rugen, and of the designs of the enemy. Charlen was not able to place in it a sufficient garrison. Twenty thousand men, under the prince of - Anbalt, were landed in that island, without any loss. The king of Sweden hastened to its relief, the same day, with 4000 choice troops.

Putting himself at the head of this small body, and observing the most profound silence, Charles advanced at midnight against the invaders. But he did not find them unprepared. The prince of Anhalt, aware what incredible thing the unfortunate monarch was capable of attempting, had ordered a deep fosse to be sunk as soon as he. landed, and fortified it with chevaux de frise. The king of Sweden, who marched on foot, sword is hand, was not therefore a littlo surprized, whes, plucking up some
of the chevaux de frize, he discovered a ditch. He was not, however, disconcerted. Ilaving instantly formed his resolution, he leaped into the fosse, accompanied by the boldest of his men, and attempted to force the eaemy's camps:
*The impetuosity of the assault threw the Danes and Prussians at first into some confusion. But the contest was unequal. Atter an attack of 20 minutes, the Swedes were repulsed, and obliged to repass the fosse. The pritice of Aobalt parsued them into the plain. There the battle was renewed with incredible fory, and victory obstinately dlisputed ; until Charles bad seen his seeretary, Grothusen, fall deadoat his Get; the generals, Dardoff and Darimg, killed in his sight, and the greater part of his brave troops cut to pieces. He himself was wounded; and bcing put oa borseback by Ponitowski, who had saved his life at Pultowa, and shared his misfortunes in Turkey, he was obliged to make the best of hils way to the sea-coast, and abandon Ragen to its fute.

Stralsund was now reduced to the last extremity. The besiegers were arrived at the counter-scarpe, and hat already begun to throw a gallery over the principal pitch. The boubs fell as thick as hail upon the houses, and half the tamn was reduced to ashes. Charles, however, still preserved his firmness of mind. One day, as he was dietating some tetters, a bomb bursting in the neighbourhood of his apartment, his secretary dropt his pen. "W hat is the matter ?" said the king, with a degree of chagria, as if ashamed that any one belonging to him stould be capable of fear. "The bourb!" sighed the intimidated seribe, unable to utter another word. "Write on," cifed Charles, with an air of indifference; " what relation has the bomb to the letter that I am dictating ?" But he was soon obliged to admit less heroic ideas. After wo desferate attacks, during which the king of Sweden fought among his grenadicts, like a private man the besiegers made themselves masters of the horn-work. The grand assiatt was every moment expected, and Charles was determined to sunfain it; but the danger of falling into the hands of his enemies, and being a second time made prisoner from his obstinacy, indaced him to listen to the entreaties of his friends, and quit a place which he was no longer able to deiend. He accordingly embarked in a small vessel, that was fortumately int the harbour ; and, by favour of the night, passing, safely through the Danish ffeet, reached one of his own sbips, which landed bian in Siseden. Stralsund surrendered next day.

The king of Swedes, not choosing to visit his capital in his present unfortunate circumstances, passed the winter at Carlscroon; from which he had set out, in a very different condition, about 15 years before, animated with all the high hopes of a youthful thero, ready to give law to the North, and who flattered bimself with nothing less than the conquest of the world. Those hopes ought now to have been moderated. But Charles had tiot yet leamed to profit by adversity.. And, unhappily for his subjects, he found, in his distress, a minister who encouraged bis most extravagant projects, and evensugsested new schemes of ambition. This was the baron do Goertz, jehom we have already. had oecasion to mention, and who, from a congeniality of ideus,

- became the particular favourite of the king of Sweden, after bis return to his own do-
minions. To such a king and sueb a minister, nothing seemed impossible. When all Europe expected that Sweden would be invaded, and even over-ran by her numberless enemies, Charles passed :over into Norway; and made bimself master of Christina: But the obstinate defence of the citadel of Frederickshall, the want of provisions, and the approach of a Danish army, obliged him to abandon his conquest.

Meanwhile, Wismar, the only towa that remained to Charles is the frontiers of Germany, had surrendered to the Danes rnd Ponssians; wlio, jualous of the Rassiavs, would not alkw them so much as to be present at the sirge. Of this jenlousy, which alienated the czar's mind from the cause of the confederates, and perhaps prevented the ruin of Sweden, Goertz took advantage. He ventured to advise his master to parchase a peace from Russiant any price ; intimating that the firces of Chanles and Peter; when united, would be able to strike terror into all Europe. Nor did tie conceal the sacrifices necessary to be manfe, in order to procore such an union. He dectared that, disgustod as the czar was with his allies, there wonld be a necessity of giving up to hin many of the provinees to the east and north of the Baltic. And he entreated the king to consider, that, by relinquishing those provinces, already in the possession of Peter, and which be limseff was in no condition to recover, he might tay the foundation of lis future greatness. Pleased with the mighty project, without building upon it, Charles furnished lis minister with full power to treat with the czar, or any other prince with whou he slould think proper to negotiate.

Goertz accordingly, by himself or his ageats, secretiy entered into negotiations, which he condacted, at the same time, with the heads of the Englinh Jacobites, and with the courts of Petersburg and Madrid. Alberoni, the Spanish mimister, a man of the most boundtess ambition, and in genius not infetior to the northerit statesman, bad resoived to place the Pretender on the throne of Great Britain ; and the dake of Ormond, whose zeal knew no bounds, projected a marriage between that priace and Anna Petrowna, daughter of the czar. In consequence of these intrigues, count Gillomburg, the Siwedish ambassador at the court of London, was taken into custaily, and Goertz in Holland. They were set at liberty, however, after an imprisoninont of six months, and Goerty renewed bis negotiations with the court of Resssia. Peter proceeded cautiously ; hut conferences were, at last, appointed to be held in the island of Oeland. And every thing seemed to promise the conclusion of a treaty, which would probably have clanged the face of affiirs in Europe, when an unexpected event, fortunately for the repose of mankind, readered abortive all the latours of the baron de Goertz.

This was the death of the king of Sweden. Having undertaken a second expedition into Norway, instead of attempting to recover any of his fertile German provinces, he sat down before Frederickshall, in the month of December; when the ground was as haird as iron, and the cold so intense, that the soldiens on duty frequiently dropt down dead. In order to animate them, be exposed himself to all the rigour of the climate, as well as the dangers of the siege; sleeping even in the opea air, covered only with his cloak. One night, as he was viewing them carry on their approaches by star-lights he was killed, it is asserted, by an. half-pound ball, from a cannon loaded with grape-

## NORTHERN EUROPE

shot. Though he expired without a groan, the moment he received the blow, he had instinctively grasped the hilt of his sword, and was found with 大阝is hand in that position, soternly characteristic of his mind.

The death of Charles was considered as a signal for a general cessation of arms. The prince of Hesse, who commanded onder the king, immediatoly raised the siege of Fiederickshall, and led back the Swedes to their own country, Nor did the Danes attempt to molest them on their murch.

The first act of the senate of Sweden, after being informed of the fate of their sovereign, was to order the baron de Goertz to be arrested; and a new crime was invented for lis destruction. He was accused of having slanderously misrepresented the nation to the king. He lad, at least, encouraged the king in bis ambitious projects, which had brought the nation to the verge of rain. He had invented a number of oppressive taxes, in order to support those projects ; and when every other- resource failed, he had advised bis master, to give to copper money the value of silver; an expedient productive of more misery than all the former. In resentment of these injories, Goerta, though. found guilty of no legal crime, was condemned to lose his head, and executed at the foot: of the common gallows.

The Swedes having thus gratified their vengeance, at the expence of the reputation of a king whose memory they still adore, proceeded to the regulation of their government. Liy a free and voluntary choice, the states of the kingdom elected Ulrica Eleanora, sister of Charles XII. for their queen. But they obliged her by a solemn act, to renounce all hereditary right ta the crown, that she might hold it entirely by the suffrage of the people; while she bound herself, by the most sacred oaths, never to attempt the re-establishment of arbitrary. power. And sacrificing, soon after, the love of royalty to conjugal affection, she relinquished the crown to ber busband, the privee of Hesse, who was chosen by the statesy and mounted the throne on the same conditions. with his royal consort.
The new government was no sooner established, than the Swedes turnett their views toward peace. It was accordingly brought about by different treaties. One with the king of Great Britain, as elector of Hanover, to whom the queen of Sweden agreed to cede the ducbies of Bremen and Verdun, in consideration of a million of rix-dollars ; another with the king of Prussia, who restored Stralsund and the isle of Rugen, and kept Stetio, with the, isles of Usedon and Wollin; and a third with the king of Densnark, who retained part of the duchy of Sleswick, conquered from the duke of Holstein, and gave up. Wiswar, on condition that the fortifications should not be rebuilt. The war with Russia still continued ; but an English squadron being sent to the assistance of Sweden, the czar thought proper to recal his fleet, after committing most terrible depredations on the coasts of that kingdom. New negotiations were opened at Nystadt ; where a treaty of peace was at last concloded between the hostile crowns, by which the ezar was left jo-possession of the provinces of Livonia, Estbonia, and Ingria,

- with part of Carelia, and part of Finland.
- For a very considerable interval after the conclusion of this treaty, Europe in general Yos. 1.
- enjoyed an unusual tranquillity ; and the north of it especially, affords few "materiais for history.

At length, however, a more busy scene opens, and our attention is insensibly driAva to one of the most renowned warriors and "accomslished princes of the last century. As early as the treaty of Seville, which was confirmed by another at Vienna, in 1731, Charles VI. apprehensive of the calamities which might fall upon lis family and bis copntry in the event of his death without male issue, stipulated with England, Hulland, and France, that they zhould goarantee the Praguntic Sanction, or doraestic law ; by which the succession to the bereditary dominions of the house of Austria were secured to the female as well as male heirs of the emperor. In 1740, Charles died, and his eldest daughter, Maria Therosa, succeoded, without opposition, to his extensive dominions. Possessed of ia popular affability, which her predecessor had seldom put in practice, she gained the hearts of her subjects, withont diminishing her dignity.

Butabove all, she ingratiated herself with the Hungarians, by voluntarily secepting the antient oaths of their sovereigns, by which their subjects, should their privileges be invaded, are allowed to defend themselves, without being treated as rebels.

Slie was, however, destitute of money, and a number of competitors soon rose up against her.
The war in which she was involved, was one of those great movements which affect the whole of Europe ; and which, in consequence, we shall defer the relation to a succeeding part of this work, bat shall here trace the progress of her formidable enemy, Frederic III. king of Prussiz.

Frederic, or his accession to the Prussian crown, found himself in possession of an immense treasure which had been amassed by his father. Resolving to employ his resources for the enlargement of his territories, he took advantaga of the distresses of Maria Theresa, to revive some antiquated clains to four duchies in Silesia; and without publishing any manifestoes, began his march with 80,000 cboice troops, in order to assert his right. He defeated the forces of the queen at Neisschouing : gained the victory by the firmness of his infantry, and their celerity in firing. He now became master of the whole province of Silesia ; end procured his title to that country to be confirmed by a treaty of alliance with Lewis XV.

In 1742, a very hard fought engagement took place at Czaslaw, between the king of Prussia and prince Charles of Lorrain. The disciplined troops on both sides were nearly equal ; but the Austrians had the advantage of a large body of barbarous irregulars, Croats, Pandours, Talpaches, who engaged with incredible fury. The Prossians were broken ; the king left the field, and a total defeat must have ensued, had not the lust of plunder seized the Austrian irregulars at the sight of the Prussian baggage. Their example infected the regulars of the Austrian right wing, who also gave over the pursuit. The Prussian infantry took this opportaoity to rally; they returned to the charge; and, after an obstinate dispute, broke the main tody of , the Austrian army, and obliged prince Charles to retreat with the loss of 5000 men.
i. The king of Prussta, whose loss was little inferior to that of the Austrians, sick of

## NORTIERN EUROPE.

such bloody victories, and no less politic than brave, concluded at Breslaw, without consulting his allies, an advantageous treaty with the queen of Hengary. By this treaty, Maria Theresa ceded to Frederic III, the Upper and Lower Silesia, and the country of Glatz; and he engaged to observe a strict mesutrality during the war, and to withdraw his forees from her dominions within 16 days after the signing of these articles.

The treaty was hardly concluded with the king of Prussia, by which Maria Theresa relictantly yielded up the province of Silesis, and with it a clear revenue of 800,000 , a-year, before she entered into another with the court of Petersburg, which was concladed, May gend, 1746. This treaty, as far as was made public, was only of a defensive uature ; bot six secrett and separate articles were added to it." By one of these it was provided, that, in case his Prussian mojesty should attack the empress queen, or the empreas of Russia, or even the republie of Poland, it should be considered as a breach of the treaty of Dresden, by which Silesia was given up. It was also stipulated, that notwithstanding that treaty (which indeed had been dictated by the king of Prussia himself,) the right of the empress queen to Silesia still continued, and for the recovery of that province the contricting powers should mutually furnish an army of 60,000 men. Tho this treaty, called the treaty of Petersburg, the king of Poland was invited to accede ; but he, being, in a manner, in the power of the king of Prussia, did not think proper to sign it; however, he verbaily acceded to it in such a manner, that the other parties were folly convinced of his design to co-operate with all their measures ; and in consideration of this intention, it was agreed that lie should have a share in the partition of the king of Prussia's dominions, in casc of a successfal event of their enterprizes.

In consequence of these machinations, every art was used to render the king of Prussia personally odious to the empress of Russia ; the queen of Hungary made vast preparations in Bohemia and Moravia ; and the king of Poland, under pretence of a military amusement, drew together 16,000 men, with whom he occupied a strong post at Pirna. The queen of Hungary, still farther to strengthen herself, corsluded a treaty with the court of France at Versailles, dated May 1st, 1756. But, in the mean time, the king of Prussia, having understood by his emissaries what was going forward, resolved to be beforehand with bis enemies, and, at least, to keep the war out of his own country ; and therefore èntered Saxony with a considerable army. At first, he affected only to demand a free passage for his troops, and an observance of the neutrality professed by the king of Poland ; but having good reasons to doubt this neutrality, he demanded, as a preliminary, that these Saxon troops should immediatoly quit the strong post they occupied, and disperse themselves. This demand was refosed; on which his Prussian majesty blockaded the Saxon camp at Pirna, resolving to reduce it by famine, since its strong situation rendered an attack very dangerous. At that time there were in Bohemia two Saxon armies, me under the command of M. Brown, and the otber under M. æicolomini. To keep these in awe, the king sent M. Sebwerin with an army into Bu-

[^13]from thie side of Misnia. But still the king of Prussia did not entirely confide in theso dispositions ; and therefore, fearing lest M. Brown might afford some assistance to the Saxons, the joined lis forces under Keith, and on December ist, attacked and defeated the Austrian general, so that the latter found it impossible to relieve the Saxons, who, alter a vain attempt to . retire from their post, were all taken prisoners, The king of Poland quitted his dominions in Germany, and the Prussians took up their wizter quarters in Saxony. Here they seized on the revenues, levied exorbitant contributions, and obliged the country to furnish them with recruits. The king of Prussia, at this time, made himself master of the arehives of Dreaden, by which means, he procured the originals of those pieces above-mentioned: which, when produced to the world, gave foll proof of the combioation that had been formed against him, and consequently justified the measures he had taken for his own defence.

No sooner had be entered Saxony, in the manner related, than a process was commenced aguinst him in the emperor's aulio council, and before the diet of the empire, where he was suon condemned fer contumacy, and put to the ban of the empire. The vaiious circles of the empire were ordered to furnish their contingents of men and money tolput the sentence in execution ; but these came in so slowly, that, bad it not been for the assistance of the French, under the prince de Soubise, the army would probably have never been in a condition to act. The Austrians, in the mean time, made great preparations, and raised 100,000 men in Bohenia, whom they committed to the sare of prince Charles of Lorrain, assisted by M. Brown. The crarina sent a body of 60,000 men, under M. Apraxin, to invade the Ducal Prussia; whilst a strong flect was equipped in the Baltic, in order to co-operate with that army. The king of Sweden also acceded to the confederacy, in hopes of recovering the passessions in Pomerania, which his ancestors had enjoyed; and the duke of Meekienturg took the same party, promising to join the Swedish army with 6000 men as soon as it should be necessary. On the king of Prussia's side appeared no body, excepting an army of between 30 and 40,000 Henoverians, commanded by the duke of Cumberland; and these wree out-numbered, and forced to yield to a superior army of Erench, commanded by M. D'Etrecs.

In the mean time, his Prussian majesty, finding that he must- depend for assistance solely on his own abilities, resolved to make the best use of his time. Accordingly, in the spring of 1757 , bis armies poured into Bohemia from two different quarters, while the king himself prepared to enter it from a third. M. Schwerin entered from Silesin; the prince of Bevern from Lusatis, where he defeated an army of 28,000 Austrians that opposed bis passage. As the intentions of the king himself were not known, the Austrians detached a body of $Q 0,000$ mea from their main army to observe his motions, This was no sooner done, than the king cut off all communication between the detachment and the main body; and having joined his two generals with-ineredible celerity, he engaged the Austrians neor Prague, totally defeated them, took their camp, mili. tary chest and cannon; ; but lost the brave general Schwerin, who was killed at the
age of 88 , with a colonels standard in his band, Oa the Austrian side, M. Brown wes wounded, and died in a short time, though it is supposed more fom the chagrin be suffired, than froun the dangerous nature of the wound itself.

About 40,000 of the Austrian army took Trefuge in Pruguc, and while the rest ffed different ways, the city was instantly invested by the king, and al succours were cut off. Thg great uumber of troops which it contained rendered an attack unadvisable, but sectaed to render the reduction of it by famine inevitable; bowever, the king, toanccoaplist his purpose the more speedily, prepared to bombard the town. On the 29th of May, atter a most dreadful storm of thunder and lightning, four batteries began to play on the city. From these were thrown, every of bours, 288 bombs, besides is vast uumber of red-hot balls; so that it was on fire in every quarter. The garison. tuade a vigurous defence, and one well-conducted sally ; but had the misfortune to be repolsed with great lass. The magistrates, burghers, and clergy, seeing their city on the point of being iediuced to an heap of rabbish, supplicated the comanaider in the most earnest mannier to capitulate ; but he was deaf to their entreaties, and drove 12,000 of the most useless moaths out of town, who were quickly driven in agaia by the Prussians.

Thus the affairs of the empress queen seemed verging to destsuction, when Leopold, count Daun, took upon him the command of the remains of II. Brown's army. This general had arrived within a few miles of Prague the day after the great battle, Me immediately collected the scattered fugitives with the greatest diligence, and retired with them to a strong post in the neighbourhood, from whence he gave the troops in Prague h pes of a speedy relicf. It was now the king of Prassia's basiness, either to bave attempted to make hiuself master of the city by one desperate effort, or entirely to have abandoned the enterprize, and driven count Daun before his troops had recovered from the terror of their late defeat; bat, by attempting to do both, he sendered biaself incapable of doing either. Though the army of count Daun already amounted to 60,000 men, and though they were strongly entrenched, and defended by a vasb train of arfillery, his majesty tiought proper to send no more than 32,000 men. This body made an arduous attack on the 1 Stb of June; but though they did ell that buman courage and conduct could do, and though the king himself, at hast, charged at the bead ot bis cavairy, the Prussians were driven out of the field with great loss. This engagement wis somed the battie of Colin.

The first consequence of the battle of Colin was that the king of Prussia was obliged to raise the siege of Prague; soon after which, he was obliged to quit Bobemia, and take sefuge is Saxony. The Austrians harassed him as much as possible; but notwithstanding their greas superiority, their armies were not in a condition to make any decisive attempt upon him, as the frontiers of Saxony abounded with situations easily defended. Ia the mean time, the Russians, who had bitherto been very dilatory in their motions, begen to exert themselvos, and entered Ducal Prussia, under M. Apraxintand Fermor, where thej committed innumerablo cruchies and excesses. A large body of Austrians entered Silesia, and penetrated as far as Breslau. When they unde a turs hoshwarils, aad bosieged Scbiseidnitz. Another bosly entered Lusatio, and made

[^14]Themselver masters of Zitgau. An arniy of 29,000 Swedes entered Prussian Pomerania;

- took the towns of Anclarn and Demmein, and laid the whole country under contribution. The I'rench too, being freed from will restraint by the capitulation of the duke of Comberland at Closter'Seven, made their way into Halbertstadt and the Old Marcho of Brandenburg, for exacking contributions, and then plundering the towns. The army of the cmpire, being reinforced by that of the prince de Soubise, after many delyys, was on fuil march to enter Saxony, which lefrthe Austrians at liherty to exert the greatest part of their force in the reduction of Silesia. General Haddick penetrated through Lusatia, passed by the Prussian armies, and suddenly appeared before the gates of Beriin; which city he laid under enntribution. He retired on the approach of a body of Prussians ; yet he still found meaus to keep such a post ns interrupted the king's communication with Silesia. The destruction of the king of Prussia, therefore, now seemed inevitable. Every exertion which he made, though brave and well conducted, had been unsuecessfut. His general Lehwald, who opposed the Russians, had orders to attack them at all events. He obeyed his orders ; and with 30,000 men attacked 60,000 of the enemy strongly entrenclied at a place called Norkiten. The Prussians behaved with the greatest valour ; but after having killed five times more of the enemy than they themselves lost, they wete obliged to retire, though more formidable after their defeat than the Russians after their victory. The bing, it the mean time, exerted himeelf on every side, and his encinies fled every where before him; bot whilst he pursued one body another gained upon him in some other phrt, and the winter came on fast, while his strength decayed, and that of his adversaries seemed to increase in every quarter.

The Prussian monarch, liowever, though distressed, did not abandon himself to despair, or lose tho woinderful presence of mind whieh so eminently distinguished hitn in all bis military enterprizes. He industriously delayed a decisive action till the approach of winter; but, at last, after various movements, on November 5 th, 1757 , he met at Rosbach with the untited army of his enemies, cotnmanded by the prince of Saxe Hiltarghausen and the prince de Soubise. The allied army amounted to 50,000 men complete ; but most of the troops of the circles were new raised, and many of them not well affected to the cause. The Prussians did not exceed 25,000 men; but they were superior to any troops in the world, and were inspired, by the presence of their king, with the most enthusiastic valour. The Austrians were defeated with the loss of $\$ 000$ killed, eight generals, 350 officers of different ranks, and 6000 private soldiers taken prisoners, while night alone prevented the total destriction of the army.

By this battle the king was set free on one side ; but this only gave lim an opportonity of renewing his labours on another. The Austrians had a great forae, and now began to make a proportionable progress in Silesia. After a siego of 16 days, they had reduced the strong fortress of Sclweidnitz, and obliged the Prussinn garrison of 4000 men to surrender prisoners of war. Hearing then of the victory at Rosbach, and that the king of Prusia was in full :march to relieve Silesia, they resolved to attact the prince of Bevern, In his strong camp under the wallis of Breslan. They attacked the priace's army on November 22 ad ; but their attack was sustained with the greatest
resolution. The slaughter of the Austrians was prodigious. A great part of the enemy had retired from the field of battle, and the rest were preparigg to retire, when all at once the Prussian geuerals took the same resolution. Their army had suffered much in the engagement, and they became apprebensive of a total defeat in case their entrenchments should be forced in any part ; for which reason tiey quitted their strong post, and retired behind the Oder. Two days after, the prince of Bevern, going to reconnoitre without escort, attended only by a groom, was taken prisoner by an advanced party of Croats, a small body of whom had crossed the Oder.
On this, the town of Breslau immediately surrendered ; where, as well as at Scliweidnitz, the Austrians found great quantities of provisions, ammunition, and money. All Silesiu was on the point of falling into their hands; and the Prussian affairs were going into the utmost distraction, when the king himself, by a most rapid march, passed through Thuringia, Missia, and Lasatia, in spite" of the utmost efforts of the generals Haddick and Marshal, who were placed there to oppose him ; and, entering Silesia on the Ind of December, joined the prince of Bevern's corps, who repassed the Oder to meet him. The garrison of Schweidnitz, who, as we have already observed, had been made prisosers of war, also joinod the king's army unexpectedly; and their presence contributed not a litte, notwithstanding the smallness of their number, to raise the spirits of the whole arnyy. They had submitted to the capitulation with the greatest reluctance; but as the Austrians were conducting them to prison, they happened to receive intelligence of the victory at Rosbach : on which they inmediately rose on the escort that conducted them, and entirely dispersed it ; and afterwards marched in such a direction as they thougit might most readily lead them to their king, they accidentally fell in with his army.

His Prussian majesty now approached Breslau; on which the Austrians, confiding in their superiority, for they exceeded 70,000 , while the Prussians scarcely amounted to 36,000 , abandoned their strong camp, the same which the prince of Bevern had formerly occupied, and advanced to give him battle. The king did not intend by any means to disappoint them, but advanced on his part with the greatest celerity. The two armies met on the Sth of December, near the village of Leuthen. Count Daun made the, best dispositions possible. The ground occupied by his army was a plain, with small eminences in some parts. These eminences they surrounded with artillery; and as the ground was also interspersed with thickets, they sought to turn these likewise to their advantage." On their right and left were bills, on which they planted batteries of cannoh. The ground in their front was interseted by many causeways; and to make the whole more impracticable, the Austrians had felled a great number of trees, and scattered them in the woy. It was almost imporsible, at the beginning of the engagement, for the Prussian cavalry to act, on account of these impediments ; but, by a jodicious disposition made by the king himself, all difficulties were overcome. His majesty had placed four battalions behind the cavalry of his right wing; foreseeing that general Kadasti, who was placed on the enemy's left with a corps de reserve, designed to attack him in flank. It happened as be had foresege ; that general's cavalry, attacked the Prussian right wing with great fury; but lie was received with such a severg fire
from the four battalions, that he was obliged to retire in disorder. The king's flank. then, well covered and supported, was enabled to act with such order and sigour, as repulsed the eneroy. The Austrian artillery was also silenced by that of the Prussians; bowever, the Austrians continued to make a gallant resistance doring the whole battle. After having been once thrown into disorder, they rallied their forces about Leuthen, which was defended on every side by entrenchments and redoubts. The Prossians, "attacged them with the utmost impetuosity, and at last becane masters of the post ; on which the enemy fled on all sides, and a total rout ensued. In this battie, the Austrians lost 6,000 killed on the spot, 15,000 were taken prisoners, aid upwards of gno picces of cannon.

The consequences of thisv ictory were very great. Breskit was immediately invested, and surrendered on December 29 th; the garrison, amounting to 13,000 men, were made prisoners of war. The blockade of Schweidaitz was formed as closely as the season of the year would permit ; while detached Prussian partics over-ran the whole country of Silesia, and reduced every place of less impartance. The Rassians, who bad ravaged and destroyed the country in such a manner, that thicy could not subsist la it, thoughit proper to retire aut of the Prussian dominions altogether. Thus general Lehwald was left at liberty to act against the Swedes; and them be quickly drove out of Prussian Pomerania, the whole of which country he not only recovered, bat also some part of Swedish Pomerania. Thus the duchy of Mecklenburg, being lef quile exposed, tho King took ample vengeance on it, by exacting the most severe contributions of inea and money. To complete this monarch's good fortune, also, the Freneb, who had retired after the battle of Rosbach, were now opposed by the Flanoveriais under prince Ferdinand, who kept them so well employed, that during the rest of the war, the king of Prussia had no more trquble from them.

The begioning of the year 1758 , was favourable to the arms of his Prussian majesty. On the Srd of April, he commenced bis operations ugniast Schweidnitz, and pushed the siege so viporously, that the place surrendered in 19 days. He then disposed his forces in such a manner, as might best guard his dominions against his numerous enemies. For this purpose, count Dohna commanded a body of troops on the side of Pomerania ; anotber considerable body was posted between Woblau and Glogau, in order to cover Silesia from the Russians, in case they should make their inroad that way Ao astoy: in a linte time after, was formed in Saxony, commanded by the king's brother, princeHenry. This army consisted of 30 battaliomend 45 squatrons, and was designedto. make bead against the army of the empire; which, by k्रेeat efforts made doring the winter, snd the junction of a large body of Austrians, was pgsin in condition. to aot Between all these arnies, a ready communication was kept up by a proper choice of posts. After the reduction of Schweidnitz, the king having rasade a shew of. invading Bohemia, sudddenly burst into Moravia, where, in a short time, he made bimself mister of the whole country, and on the 27 th of Moy, huid siege to Olmutz, the eapital. Of this M. Daun was ino sgeper informed, than he took his roate to Moravia, though Bobemia; and, though be was not in a condition to risk a bettle, nor iodeed.
twould have done so untess he hat had a considerable advantage ; yet, by placing him. self in a strongsituation where he could not be attacked, by Varassing the king's troops and cutting off their convoys, he at last obliged him to abandon the enterprize. The - King, however, who frequently owed a good part of his success to the impenetrable secrecy with which he covered all his designs, gave not the leas bint of his intention to ridise the siege of Olmutz. On the contrary, the very day before the siege was raised, the firing continued as brisk as ever ; bat in the night, July lat, the whole army took the road to Bohemia in two columns, and gained an entire mareh upon the Austrians. Thus, notwithstanding the utmost efforts of his enemies, the Prossian army reacied Bolienia with very litte molestation. Here he siezed upon a large magazine at Lieutomissel; defeated some corps of Austrians who had attempted to interrupt his progress ; and arrived at Konigggratz, of which be took possession, after driving from it 7000 Austrians who were intrenched there. This city and several other districts he laid under contribution ; but soon after entered Silesia, and marehed with the utinost rapidity to encounter the Russians, who had at that time united their forces under generals Brown and Fermor, entered the New Marche of Brandeabarg, and laid ilige to Costrin.

The king arrived at this city at a very critical period. The Russians had laid siege to it on the 15 th of August; and though they were not well skilled in managing artillary, yet, by furious and unremitting discharges at random, they threw such a number of bombs and red-hot balls, that the town was soon on fire in every quarter. Some of the wretched inhabitants were burned; others buried in the ruins of their houses, or killed by the balls which fell like hail in the streets; while many of their survivork abandoned their habitations, and fled out of the town on that side where it was not invested. The governor didevery thing for the defence of the place; but as the walls were built nfter tite old manner, it was impossible that the town could have made a defence for any length of time, especially as the principal magazine of the besieged had been blowa up. The avenger of all these injuries, however, was now at hand. The king came in sight of the Russians on the 25th of August, after a march of 56 days, and bogeld the country every where desolated, and the villages in flames by the depredations of his cruel enemy, who had raised the siege at his approach, and retired towards a neighbouring village called Zorndorff, -

At nine oclock in the morning, a most terrible fire of cannon and mortars poured destruction on the right wing of the Rassian army for two hours without intermission. The slaughter was such as might bave been expected ; but the Russians dept their ground with astowishing resolution; new regiments still pressing forward to supply the places of those that fell. When the first line had fired away all their charges, they ruslied forward on the Prussians with their bayonets ; and all at once these brave troops, though encouraged by the presence of their king, gave way and fled before an enemy already half defeated. The Russian generals ought now to thave attacked with their cavalry the disordered infantry of their enemies, which would, have completed the defeat, and, in all probability, given the finishing stroke to the king of Prussia's.affairs.

## Yel. 1.

81):

## NORTHERN EUROPE.

-This opportunity, liowever, they lost; but the king was not so negligent; for by a very - rapid and masterly motio $Q^{\circ}$, he brought all the cavalry of his right wing to the centre, and, falling on the Russian foot uncovered by their horse, and evea disordered by theip own success, they pushed them back with most miserable slaughter; at the same time -that the repulsed battaligns of infantry, returning to the charge, and exasperated at their late disgrace, rendered the victory no longer doubtful. The Russians were now throun into the most dreadful confusion. The wind blew the dust and the smoke into their faces, so that they could not distinguish friends from foes; they fired on each other, plondered their own baggage which stood between the lines, and intoxicated themselves with brandy: the ranks fell in upon oae another; and, being thas cramaed togettier into a narrow space, the fire of the Prussians hat, a futt and dreatfut effeet, while their enemies kept up only a scattered and ineffectual fire, generally quite over their heads. Yet even in this dismal situation the Russians did not Aly ; but suffered themselves to be slaughtered till seven at night, when their gemerals having caused an attack to be made on the Prussian right wing, the attention of the eneny was drawn to that quarter, and they had time to retire a little from the freld of batile to recover their order.

In this engagement, which was called the battle of Zorndorff. the Russians lost 21,599 men, while that of the Prussians did not exceed 2000 . A vast train of artillery was taken, together with the military chest, and many officers of high rank. The consequence was, that the Russian army retreated as far as Land-perg. on the fr-mtiers of Poland, and the king was left at liberty to march, with his usual expedition, to the relief of prince Heary of Saxony.

The prince was at this time sorely pressed by M. Daun. As sonn as the king bad left Bohemin in the manner already related, M. Daun considered that it would have Leen to no parpose to follow him, resolved to torn his arms toward Saxony. Towards that country, therefore, he took his rout through Lusatia, by Zittau, Gorlitz. asd Bautzen. On the Srd of September he invested the strong fortress of Sunnestein; which unaccountably surrendered, after a single day's resistance, to one of his generals, named Macguire. He then began to favour the operations of general Ladoln, who advanced through the Lower Lasatia, to the confines of Brandenburg; and, by drawing the attention of the Prussian forces which were left in Silesia to the northward of that duchy, he facilitated the progress of the generals Harsch and De Vile in the southern parts. He then proposed that prince Henry should bo attacked by the army of the empice, white that of the Austrians should pass the Elbe ; and, falling at the same time on the Prussians, second the atlack of the imperialists, and cut off the retreat of their ene$\mathrm{m}^{\prime}$ 'es from Diesden. The sudden appearance of the king of Prussia, 'however, put en end to this plan ; general Laudohn abandoned all his cunquests in Lower Luratia, and retired towards M. Daun, while that general himself retired from the neighboarhood of Dresden as far as Zittau. The army of tio empire only kept ive ground : póssessing. itself of the estrong post at Pirna, formerly mentioned, but did not undertiake any thing As for the Siredes, who had directed their motions by those of the Russians, they fou

## - NORTHERN EUROPE.

sooner heard of the victory of Zorndorff, than they retreated svith much more expedition dhan they harl advanced.

Thus the king of Prussia's affairs seemed to be pretty well retrieved, when by one fatal piece of negligence he was brought to the verge of ruin. M. Daun had possessed himself of an advantageous camp at Stolphen, by which he preserved a communication wfth the army of the eapire. On the other hand, the king of Prussia having taken possession of an important post at Bautzen, extended bis right wing to the villsge of Hochkirchen, by which be preserved a communication with his brother, prince Henry, protected Brandenhurg, and was better situated than he could be any where else for throwing succours into Silesia. The two armies kept a watehful eye on the motions of each other; and as the principal aim of M. Daun was to cut of the king's communication with Silesia, and of the king to cut off M, Daun's communication with Bohemia, a battle seemed inevitable, though great danger scemed to await that party who should begin the attack

Ia this critical posture of affairs, the Austrian general formed a design of attacking the Prussian camp in the night. Ia what manner he came to surprize such a vigilant enewy, has never been accounted for ; but that such a surprize was actually accomplistied, on the 14th of October, is certain. In the dead of the preceding nigbt, the Austrian aruy began to march in three columns towards the camp of the king of Prussia ; and though the night was exceeding dark, and they had a considerable way to go, they all arrived at the same time, in safety, without being discovered, and without the Least coufusion ; and at five in the morning began a regular and well-conducted attack. The Prussians were in a moment thrown into confusion; marshal Keith, one of their best generals, received two musket-balls, and fell dead on the spot. Prince Francis of Brunswick hat his head shot off by a camon-ball as be was mounting his horse ; and every thing seemed to announce the total destruction of the army. Still, however, the king preserved bis wonderful presence of mind, which, indeed, he nevef appears to have *lost on any occasion. He ordered some detachments from his left to support bis right wing ; but the moment these orders were received, the left itself was foriously aftacked. General Ketzow, who commanded in that quarter, repulsed the Austrians with diffculty, and was not able to afford any considerable assistance to the right; which alone was obliged to sustain the weight of the graind attack. Tae Austrians, in the beginbing of the engagement, had driven the Prussians out of the village of Mochikirchen; and as the fate of the day depended on the possession of that post, the bottest dispute was there. The Prussians made three bloody and unsuccessfill attacks on the village ; on the fourth they carried it ; but the Austrians, continually pouring in fresh troops, at last drove them out with prodigious slaughter on all sides. The king then ordered a retreat, which was conducted in good order, without being pursued; however, this - bloody action cost hiw 7000 men, together with a great number of canaon. The Austrians computed their own loss at 5000 .
this Prussian majesty, having thus happily excaped such immifient danger, took every possible measare to prevent the enemy from gaining any considerable adeantage from,

## NORTHERN EUROPE.

bis defeat. Perceiving that the only advantage they wished to derive from it was to cover the operations of their armies in Silesia, and that he had now nothing to fear on * tlie side of Saxony, he largely reinforced his own army from that of prince Henry, and hastened into Silesia, in orter to raise the siego of Neiss, which had been completely invested on the 4th of October. On the 94th of that montb, therefore, he quitted his camp; and, making a great compass, to avoid-obstruction from the enemy, arrived at the plains of Gorlitz. A body of the Austrians had in vain attempted to secure this post before lim; and-some who arrived after him were defeated with the loss of 800 men. From this place the king pursued his march with, the utmost diligence; but was followed by general Laidobin, at the bead of 24.000 ; who constantly being on his rear, harassed his arny. The king, however, knowing the importance of his expedition, continued his march without interruption, and suffered his antngonist to obtain many litte advantages without molestation. Daun, however, not content with the opposition given by Laudohn, sent a large, body of horse and foot, by another route, to reinforce the generals Harsch and de Ville, who had formed the siego of Neiss and the blockade of Cosel, while he himself passed the Elbe, and advanced towards Dresden.

All these precautions, however, were of little avail. The generals Marsch and de Ville, notwithstanding their reinforcements, no sooner heard of the king of Prussia's approach, than they raised the siege of both places, and retired, leaving behind them a considerable quantity of military stores. The end of the Prussian monarch's march being thus accomplished, he instantly returned by the same way he came, and bastened to ttie relief of Saxony, the capital of which (Dresden) was in great danger from marshal Daun. The place was bat indifferently fortified, and garrisoned only by 12,000 inen; so that it could not promise to hold out long against a numerous and well-appointed army. It was besides commanded by a large suburb, of which, if once the enemy got possession, all defence of the city must then be vain. For this reason M. Schmetiau, the Prussian governor, determined to set these suburbs on fire, which was ${ }^{\circ}$ actually done November 10th, with an incredible loss to the inhabitants, as in the suburbs were carried on most of those valuable mannfactures which rendered the city of Dresden remarkable. This disappointed the designs of Daun ; but, though the action was agreeable to the laws of war, and had been executed with all the catition and humanity of which such an action was capable, yet the Austrians exclaimed against it as a piece of the most unprovoked and wanton cruelty recorded in history.

After the king of Prossia Lad approached Drestea, all the Austrian, arniyy retired into Bohemia, where they took up their winter quarters, at the king of Prussia did in Saxony. This unhappy country, he said, he would now consider as his own by right of conquest. But instead of treating the conquered people as his lawful subjects, he oppressed thẹm in all possible ways, by levying the most severe autd exorbitant contribue tions, surrounding the Exchange with soldiers, and confining the merchants in narrow lodgings on straw beds, till they drew upon, their correspondents for such somstas he: wanted.
an i759, as early as the e9rit of kebruary, the Prussians commenced their mit: tary operations. General Wobersow marehed with a boily of troops into Poland, where ho dratroyed several vary lugg imgazines thelonzing to the R iscians, and returned isto Silesia withut any tos, on the 18 hh of April. In the wran time, by some mover ments of the kiog of Prussis himself, the greatest part of the Austrimn troops bad been drasn towards the frontier- for Silesia. Prince Henry immelintely took advantage of
 columis. Ont, comsmanded be himwelf. marched toirards Peterswade ; the other, under geveral Holsen, passed by the towne of Pasberg and Commotan. That commanded by prince Heary himself penctrated an fir as Laboschatz and Leitmeriz; the eneuy fling every where before them, and burning or abandoning the vast magaziaes which they ibad amassed in these parts. The body under general Huken had a more active employment. A strong pass at Pasferig wis defended by a considerabte body of Austrians. General Hulsen having conducted his cavalry be another way in such a manner as to fall directly on the rear, attacked them in front with bis infantry, drove them ont of their entrenclaments, sud totally defeated them, with the loss of a great number killed and 2000 taken prisoners, while that of the Prassians did not exeeed 70 in killed and wounded. Atter this exploit they returned into Saxony, with hostages for the contributions which they bad largely exacted during the course of their expedition.

Some other successes obtained by prince. Henry, cleared the coontry of Franconin of his enemies ; bat now the approach of the Russians seeoled once more to bring the uffides of the king of Prussia to a crivis. Notwitlistanding the destruction of their magazines, they had continned to advance into Silesia, where they were opposed by count Dolnna; but as the troops be had with him were very far inferior to his coemies, he found it ímpossible to do more, at least with an appearance of success, than to observe their motions and harass them on their mareh. But this was so displeasing to the king, that he disgraced this genernl, and appointed Wedel to succeed him, with orders to attack the Russians at all events. To euablo him, however, in some measure to comply with this desperate order, he sent him some reinforcements, which brought his arany up to near $\$ 0,000$. With these, on the 2Srd of July, 1759, general "Wedel attacked 70,000 Russians posted in the most advantageous manner at Zulichau, and defended by a numerous attillery. Though the Prussians marebed on to certain destruction and diagrace, they sustained the attack for a long time with unparalleled resoJution. At last, bowever, they gave way, and were obliged to retire with the loss of 4,700 killed or taken prisoners and 3000 wounded.

The consequences of this victory were, that the Russians penetrated into the king's territories and took possession of the towns of Crossen, and Frankfort, on the Oder, wlich made it necessary for the king to come in person to oppose them. Accordingly on the 4th of August he joined Wedel with a considerable body of forces, having left the greatest part of his aray in Saxony under prince Henry. But as marshal Daun had *seat a body of 12,000 horse and 8000 foot under gencral Landohn to the assistance of the Kussians, the king still found hinself unable to fight then ; "as, with this and some
VoL. I.
other reiniorcements, their army amounted to opwards of 90,000 . He therefore recalled foneral Finck, whom he hyd seat into Saxony with 9000 men ; but with all his rein-- forcements, it was found -impossible to augaent his arany to 50,000 complete. His situation, however, was now so critical, that a battlo was unavoidable : and thereforé on the 19 ih of August, with this inferiority of number, the king attacked his enemies strongly entrenched, and defended by a prodigious number of cannon. In this action, his principal effort was against the left wing, of the Russian army. He began the oftack, "according to custom, with a heavy cannonade ; which, having profloced the desired effect, he attacked that wing with several battalions disposed in colouns. The Russian entrenchments were forced with great slanghter, and $7 \%$ pieces of cannon were taken. But still-there was a defile to be passed, and several redoubts which covered the village of Cunnersalorff to be mastered. These were attacked with the same resolution, and taken one nftor another. The enemy made another stand at the village, and endeavoured to preserve the groned there by pashing forward several hattalions of horse and foot ; but this also proved unsuccessful ; they were driven from post to post, quite to the last redoubt. For upwards of six hoors the Prussians were successful, and every where broke the encmy with prodigious slaughter; drove them from almost all the ground they had occupied before the batte, took more than hulf their artillery, and scarce any thing seemed wanting to make the victory compicte. In these circumstances, the king wrote the followiog billet to the queen. " Madam, we have beat the Russians from their eatrenchments. In two hours expeet to hear of a glorious victory." Of this victory, however, he deprived bimself, by an excessive eigerness for conquest. The enemy, defeated alonost in every quarter, found their left wipg shattered as it was, to be more eatire than any other part of their army. Count Soltikoff, the Russian getieral, Hicrefore, assembled the remaias of his right wing; and gathering as many as lee could trom his centre, reinforced the left, and made a stand at a redoubt which had been erected on an advantageous eminence in a place called the Jews' burying-ground. All the kinges generals are said to have been of opinion, that he ought to allow the liassians the peaceable possession of this post. Their army had already suffered sce much, that it would have beet, impossible for them to have attempted any enterpize of consequence after the battle; but their artillery was still numerous, the poit very strong, and the Prussian troops greatly fatigued. These reasons for a few imoments had some weight with the king : but the natural impetnosity of his temper getting the better of his reason, he led on his wearied troops again and again ; till at last, when their strength was in a manner totally exhausted, they were attacked and utterly routed by the Austrian and Russian cavalry; the former of which had hitberto remaned quite inactise, and were therefore quite fresh, and icresistible by the enfeebled Prussians, The niglit, and prudent use of some eminences, prevented the total deatraction of the army: bowever, their loss amounted to 20,000 men killed and wounded. The king, when he-found the victory totally lost, sent another billet to the queen, expressed in the following manner: " Remove from Berlio with the royal* family ; let the archives"be carried to Potsdam; the town may make conditions with the cucmy."

## NORTHERN EUROPE.

Inmediately after this defeat, the king set himself about repairing his losses with the thtmost diligence. In a few days, every thing was again put in $\begin{gathered}\text { der io his camp. He re-* }\end{gathered}$ placed his artillery from Berlin ; recalled general Kliest will; 5000 men fiom Powerania ; detacted 6 noo from his own army to the defence of Saxony ; and with the re-- mainder put timself between the Russians and Great Glogau, covering that city which bad been the chief olject of their designs : and, in short, noturistanding their, vietory, obiged them to return to Poland, without accomplisting any thing besides the carnage at Cunnersdorti.

The misfortunes of the Prussian monareh, howéver, were not at nn end. Prince Henry, indeed, by a most extraordinary and well-conducted mareh, entered Saxony, which was now totally over-ran by the armies of the eneny. At the same time, strong detachments haviog been sent into that country under generals Finck and Wunsch, the whole was in a short time recovered, except Dresden. Towards this place marshal Daun retired, and, in all probability, would soon have been obliged to leave Saxony cntirely. But the king's impatience could not be satisfied without cutting off his retreat, and torcing lim to a battle ; for which purpose, he sent general Fuck with upwards of 12,000 men according to the Prussian account, but 20,000 according to the Austrians, to seize some passes through which M. Daun could only take his route towards Bohemia. This commission was executed with great exactness ; but the Prassian general, haviag probably advanced too far iuto these defiles, and neglected to preserve a communication with the main army, gave his enemy an opportanity of surrounding him, and at last forced hin enfl his whole army to surrender prisoners of war. This disaster was soon after fulloved by another. General Darceke was posted at the rigit of the Elbe, opposite to Messen ; but on the upproach of a large body of Austrions, they prepared to retreat over the river into a place where they hoped to be more secure. But having beea ouliged, by a hard frost, to withdraw their bridge of boats, a thaw supervened, when they attempted to lay a bridge of pontoons, so that they were again obliged to bave recourse to their boats. In this situation, their rear guard was attacked evith great fury by the Austrians, and all the soldiers who composed it killed or taken. The loss of the Prussians on this occasion was computed at 3000 men.

The year 1760, showed the Prussian monarch in a more dangerous situation than he had ever yet experienced. Indeed his affairs now seemed to be altogether desperate. His losses were not to be measured by the number of killed or prisaners, but by armies destroyed und taken. Forty generals had died or been killed in bis servico since the beginning of October, 1756, exclusive of those who were woanded or taken prisoners. Tlyis of itself would have been an irreparable loss, had not the very wars which destroyed tkese, furnished others equally capable of filling their places. Rat another deficiency, which could not be remedied, still remained.

The king had, by his indefatigable industry and exertions, supplied all the deficiencion of men in his armies, but they-werenot the same taen as before. The bardy veterans, with whom be had originally taken the field, were now no more, and their places were
supplied by others who had neither the same experience nor discipline; so that now he

- Tras colliged to supply thig deficiency by liss own genias and heroism.

But whatever abilitiss the Prussian wonach might jossess, end though he undoubdedly excrted them to the utmost, it seciuing only to be contening agaiant fate, and his enemies gamed still grouter and greater adeantages. Cieneril Landuhn with whime none but the lring lrimeff seetns to hinve beem atole to copes by a series of anfol mesemients, drew into a disadvanta_cons situation M. Fomquet, one of the Prossian gemetils, witl "a strong body of funce:. Pereeiving it impossible for theen to escape, Landatan then miade a viofent attick on ilirir entreactiments in the dend of the night of Jome esrd. The Prassians made a gallant defence, lut at hat were ill killed or taken prisoners exeept about 300. Of the Prossians were killed 4006 , and 7000 taken prisoucrs ; 58 pieces of cannon, and a great number of coloars, were also lost. This victory, bowever, was dear bonglt; for the Austrians lust above 19.000 uncn ju Eifled and wouniled; whow, however, they could better spare than the-Pristinus, on account of their numbers. This action was ealled the battle of Lard-hint.

Baron Liudohn failed not to improve this victory to the nitmost. He instantly furned back from Lindshut, and fell upon the city of Glate, whith he took in a very stiort thine, with the garrison ubo defended it, consivting of ge00 mien. Ia this place were found 101 pieces of brass cennon, with immense quantitiss of provisions and military stores. From thence be marched against Breslau, and imonediately isvested it. But, in the mean time, the king of PruFsia, whose motions had been ull this time counteracted by M. Daun in Saxany, mareled with his usubl rapidity towarde Silesta. Dy this menes he drew M. Daun ont of Sixxony ; and indeed the Austrian general used such expedition, that he gained two full days on the king. This was no sooner known to bis Prus-sian-majesty, than he retorned with the same expedition that he lad ardvanced, rond sat down before Dresden. Of this M. Daun soon received intelligence, and retarned also. In the mean time, however, the buildings of the city were tenibly shattered by the king's cannof and bombs which continually played upon it, His endeavours, however, proved ineffectusl to reduce it before the arrival of M . Daun. The siege had been begua on the 13 th of July and on the 19th M. Dzun appeared within a league of Dresilen. The Prussians then redoubled their effurts. They had that day received seinforcements of heary cannon and mortars, with which they battered the place incessantly. The cathedral church, New Square, several principal strects, and some palaces, and the neble manufact ry of porcelain, were entirely destroged. The siege was contineed till the 22 nd : but on the night of the 21st M. Daun had throw 16 battalions into the eity; which rendered it impossible for the king to continue lenger before it with any prospect of success. He therefore raised the siege, and retifed without molestation, though there were three considerable armies of the enemy in the neightour-
hood. Breshau wis fiercely bombarded by Laudohn, hot thie approach of puince Henry obliged him to desist from his entorprize to the 5 th of August.

But, in the mean time, the fortunc of the king seemed likely to be terminated by one

## NORTHERN EUROPE.

fatal stroke. Finding it iappossible for him to carry on a defensive war, he marelied towards Silesia with such astonishing rapidity, that before the middle of Augast he ked advanced 200 milcs, leaving Marshal Daun with his army for behind him. This expe-* dition he uadertook in order to engage general Laudobn before he could have time to effect a junction with Daun and Lacy, another Austrian general ; which triple urion seomed to threaten dim with navavidable destraction at. once. This, howerer, be ' found it impossible to prevent ; and the three armies, when joined, formed a most tremendous line of encampments, exteading no- less than 30 Eaglish pailts ; at the same time every one of their posts was strong and the communication between them easy. The king was strongly encamped at Lignitz; and for several days employed all his military osill in attempting to indace one of the bodies to detach itself from the rest, or to aftack them at some disadvantage ; bat without effect. At last, the Austrian generals, having maturely weighed all circumstances, resolved to attack the king's camp itself strong as it was ; and Marshal Daun, remembering the advantage he had gaiaed at Hochkirchen by an attack in the sight-time, resolved to follow the same plan now. The plan therefore was laid in the following manner. The whole army, as soon as it should begin to grow dark, was to march from their several posts to such situations as were marked out for each corp3 : they were to strika their tents, but yet to keep up the fires in their ewimps, and to have the drums beat the tattoo as usual, by which means they had a probability of surprising the enemy ; or if not tbey julged it absolutely impossible to escape them ; though lie should be ever so much on his guard. In what manner the kigg of Prossia became acquaiated with this plan is not koown. His friends attribute it to his own penetration and knowledge of the stratagems of war; the Austrians to intelligence given bin-by deserters. But, in whatever wey he becawe acquainted with this design, it is certain that he took the most effectual methods to present it.

As the Austrim plan was to sumround the camp: and this could not be done without The division of their army be had so long desired, he resolved to intercept one of their parties ; and if that should tho disabled from acting, he could then more easily deal with the other two. Therufore, in the very evening calculated for the decisive attack on his camp, he quitted it with the utmost privicy, and took an advantageces post on the road through which generai Laudohn was to pass. The nature of this post was such that at the time that it stopped the progross of Laudotus in front, Daun would lie onder great difficulties if he should attempt his rear ; at the same time that, for his further security, the *ing strengthened his rear with several batteries. As soon as his army was drawn up, he divided it ; leaving his right on the ground where it had been formed, to observe marshal Daun, and to maintain the post ; whilst with his left be turned in ordec, to fall on the eorps under general Laudohn. In the mean time, that commander, ignorant of the fate which was waiting him, advanced with the utmost expedition towards the place which had been assigned him, in order to share in the glory of destroying the Prussian monarch; when at three in the morning, on the 15th of

- August, a thick fog which covered the ground, suddenly glearing up, discovered, like the opening of a great scene, the dreudful front of the Prussian army regulady embat${ }^{*}$ Yol. 1 .
tled, and ndyantageously posted. Laudohin, though surprised, made tho bost dlspoditions that circumstances woyld admit of, and an obstinate engagement ensued; in which, however, he was at last obilged to yield to the superior skill of his adversary, with the loss of 10,000 killed, wounded, and prisoners, 89 pieces of eannon, and 23 pair of colours.

The victory, though complete, gave bat a partial relief to the king of Prussia. The most essential service it did was the preventing of the Russians from joining those ene \% $^{*}$ mies thich he already had. Czernichew had been advancing with 24,000 men, and had even' passed the Oder; but was so intimidated by this news, that he instantly repassed that river on the same bridges which be had :lately built, even though. M. Daun sent hitm a strong body of troops in order to encourage him to advance. Soon after this battle, the king joined his brother, prince Henry, at New Marche ; and marched against Daun, who had begun to form the blockade of Schweidnitz, foll upon a corps under general Beek, made two battalions of Croats prisoners, and dispersed the rest, which obliged the enemy to abandon the enterprize they had just undertaken. About the same time, general Ifulsen gained a considerable advantage over the imperial aray in Suxony, with very trifling loss on his part, by which he effectually prevented theq from cutting off his communication with the city of Torgau.
By these successes the affairs of his Prassian majesty seemed to tevive; but there Was no end of his enemies: The late manceuvres had drawn thim so far into Silesia, that his communication with Brandenburg was almost wholly eut off., The Kussius army, which, after it had repassed the Oder, began to move out of Silesia, sent forward a powerful detachment, umder count Czefinichew, towards the Marche of Brandenburg A body of 15,000 Austrians, under the generals bacy and Brentans, and the whule united body of Austrians and imperialists which acted in Saxony, began their march in concert with the Rassians, and proposed to unite at the gates of Berlin. Triese armies amounted to $40,000 \mathrm{men}$. To oppose this formidable power, general Hulseg catled to his assiskace general Wernen, who had been sent with a body of troops into Poncrania ; bat, aftor being joined by him, their united forces wers tound not to exceed is or 16,000 men. To attempt a defence of the capital nith thas force would have been little short of madness ; and therefore these commanders were obliged, to leave Berlin to its fate; which, indeed, considering the barbarity of the Russiuos and the animosity of the Austrians, sermed to be a dreadful one. However, by the powerful mediation of several foreign ministers, the town obtained terms which were not aftogetter intolurable ; but the magazines, arsenals, and foundries, were destroyed, and an inmense quantity of military stores seized, with a number of cannon and other anus. The city was frrst obliged to pay 800,000 guilders, after which a * contribution of $1,900,000$ crowtas was laid on ; yet, notwithstanding thit, many violences were committed, and the king's palace was plundered, and the faryiture abused in a scandflous manimer.

The combined armies staif in Berlin only four days : dreading the severe vepgeance of she king "of Prassia, whio they beard was advancing towards that place with great

## NORTHERN EUROPE.

expedition, Dut so great were the embarrassments which now attended that monarch that it seemed absolutely beyond human power to retrieve his affairs. The imperialhes, on their return from Berlin, having no aroy to opposo them, made themselves masters * of Leipsic, Torgau, Mleissen, and Wirtemherg; ius which large city they found the grand magazine of the Prussians immensely stored with provisions, ammunition, \&c. M. Stainvillu also, with a detachment from Broglio, the French general's army, laid the city "and duchy of Halberstadt nader contribution. In Eastera Pomerania, the Russians had besieged Colberg by sea and land. In the Westerr Pomeracia, fle Siwedes advanced with great celerity, hoping to share in the plunder of Derlin. In Silsia, the king no sponer began his mareh to the northward, than Laudohn advanced, aad laid siege to the important fortress of Cosel; and, to complete lis _distress and embarcrassment, the kiog himself was attended at every step. by count Daun, with a superior army, well propared to take every advantage.

In this desperate situation, the kiog. being joined by his generals Hulsen and prince Eugene of Wirtemberg with the corps uader their conmand, advanced un the Elber while M. Daun fell back to cover Leipsic and Torgau, but, the latter finding that the Prussians directed their march towards the Elte, encamped within, reach of Torgau; one part of his army extending to the Elbe, by ivhich he was covered on that side, whilst on the other, he was covered by, hills and woods, so that it was impossible to choose a more advantageous situation. The Prossian army did not amount to $50,000 \mathrm{men}$, whilht that of the Austrians exceeded 86,000 ; yet sucf wero the unfortunate circumstances of the king, that he was obliged to fight under all these disadvantages : and therefore caused his army to be informed that be was now to load them to a most desperate attempt, that his affuirs required it, and that he was determined to conquer or die. His soldi-rs unanimously declared they would die with him.

The Srd of November, 1760, was the day on which this important affair was dccided. The king divided his forces into three columns. General Hulsen was to take post with one in a wood that lay on the left of the Austrian army, apd had orders not to move until he found the rest of the Druscians engaged. General Ziethen was to charge on the right; and the great attack in front was to be conducted by tha king in person. His forces were disposedin such a manner, that either his right or left must take the enemy in the rear and close them in, so as to disable them from undertaking any thing against the part where he intended to offect his priacipal attack. On the other hand, M. Daun, perceiving the king to be serious in his design of fighting, to prevent contusion, sent all his baggage over the Elbe, across which he threw three bridges in case a retreat should be necessary. At the same time, he caused Torgau to be evacuated : and then, extending bis first line to a village called Zinne on the left, he stretched it to another called Croswitz on the right; supporting the right of his second line upon the Eibe. In this disposition he was found, when, about two o'clock in the afternoon, the king began hisattack. He was received by the fire of 200 picces of camon,

- which were disposet along the Austrian front. The Prusgians were thrice led on to the attack; but were every time repulsed and broken with, terrible slaughter. The
*lag at length commanded a fiesh body of cavalry to advance, which at first compelled the Austrians to retire; butbew reinforcements continually consing in, this cavalry was in its turn obliged to fall btack, atrd the Prussians maintained themselves with difficulty, until geveral Ziethen, with the right wing, attacked the enemiy in the rear, repulsed them, and possessed himsolf of some of the eminences which cownanded the whole Austrian army. Encouraged by this suceess, the Prussian infantry once more advanced, mastered several of the enemy's entrenchments, asd made way for a new attack' by, tivir cavaliry, which broke in with irresistible fory on the Austrians, and threw several bodies of them into irreparable disorder. It was uow about nine o'clock, and of consequence buth armies were involved in thisk darkness; yet the fire continued without intermission, and the battulions, with a blind rage, discharged at one another without distinguishing firend from foe. M. Daun nocoivod a dangeroas wound in his thigh, and was carried from the field, which probably hastened the defent of his troops. Thie command then devolved on count O'Donnell; who, finding athe greatest part of his troops in disorder, the night advanced, and the onemy possessed of some eminences which commanded his camp, and from which it was ia vain to think of driving them, ordered a retreat, which was conducted with wonderful worder and exnetness; nene were lost in passing the bridges, and by far the greater part of their artillery was pre served. The loss of the Prossians was estimated, at 20,000 kilted and wounded, and 5000 takeh prisoners. That of the-Austrians in killod and wounded is mut known ; but 8000 were taken prisoners, with 216 officers, among whom were font generals.

The conseguences of the vietory at Torgau was, that the king rocovered all Saxony execpt Dresden; and, in the mean time, zeneral AVernor baving marched into Poners: nia, the Russians raised tho siege of Colberg, und retired into Poland, without laving effected why thing forther thin wasting the open comntrg.

Werner then fles tu the assistatice of Western Pomeranin, where he defented a budy of Swedes, zad at last drove them totally out of the country. General Iaudahn too, abruptly raised the Ulocknde of Cosel; and ofterwards, ubandoning Landshut, retired कto the $A$ ustrian Silesia, leaving the Prussian part enticly in quien. M. Daun placed one part of his army in Dresden, and the other in some strong peste which lie to the south and west of it, by which he commanded the Elise, and preserved his communication with Bolicmia. The army of the edipire retired into Franconin, and placed bis head quarters at Bamberg.
Though these successes find, to appearances, retrieved the king's affigirs in spme measure, yet lis strength seened to be wholly exhausted; and in the carupaign of 1701, he made no such vigorous efforts as be had formerly. Hone. The Russigns "divided themselves into two bodies, invaded Silesia and Pomerania, In the former country they leid siege to Brealau, and in the latter to Colberg. Tottiehen also, who had commanded the Russian araries, was now removed on'saspicion that he had corresponded with the king of Prussia, and genenil Romanzow pot in his plsee ; by which it was expected that * the Mussian'operations wenld be more brisk this yeur than formenly.

## NORTHERN EUROPE.

The king continued strongly encamped near Sebweidnitz; where he was so closely watclua by generals Daun and Laudohn, that he could atgempt nothing. However, he. defeated the designs of the Rassians against Breslau, by seluding general Platen to de-

- stroy their magazines ; which he accomplished with great success, at the same time cutting off a body of 4000 of their troops. But this only brought the more sure destruction upon Colberg; to which place that body of Russians intinediately marcied, cruelly . wasting the country as they went along. The king of Prussia could do pothing but send detachments of small parties, which, though they could not oppose their enemies in the field, yot he hoped, by cutting off the convoys of the enemy, might distress them to such a degree as to oblige them to abandon the siege, or at least protract ittill the severity of the winter should reader it impossible for them to carry on their operations. Thus he weakened his own army so much, that it was found requisite to draw 4000 men out of Schweidnitz, in order to reinforce it; and no sooner was this done, than general Laudohus suddenly attacked and took that fortress by a coup de main. Colberg made a brave defence; but the troops sent to its relief being totally unable to cope with the Russian army, consisting of 50,000 men, it was obliged to surrender on the Srd of December; and thus the fate of the Prossian monarch seemed to be decided, and almost every part of his dominions lay open to the invaders.

In the midst of these gloomy appearances, the empress of Russia, the king's most inveterate and inflexible enemy, died on the 9nd of January, 176\%. Her successor, Peter III. instead of being the king's enemy, was his most sanguine fricnd. As carly as the 93 rd of February, in a memorial delivered to the ministers of the allied courts, he declared, that, " in order to the establishment of peace, he was ready to sacrifice all the conquests made during this war by the arms of Russin, in hopes that the allicd courts will, on their parts, equally prefer the restoration of peace and tranquillity, to the advantages which they might expect from the continuance of the war, but which they cannot obtain but by a continuance of the effusion of human blood."

This address was not so well relished by the allies; however, they were very willing to make peace, provided it was for their own interest ; but they recommended to his attention fidelity to treaties, which constitutes a no less valuable part of the royal character, than humanity and disinterestedness. The answer made no impression on the ezar; a suspension of hostilities took place on the 16 th of March, which was followed by a treaty of alliance on the Stl of May. In this treaty, the czar stipulated nothing'in favour of his former confederates ; on the contrary, he agreed to join his troops to those of the king of Prussia, in order to act against them. Sweden, which had, for a long time, acted under the direction of Russian counsels, now followed the example of her mistress, and cuncluded a peace with Prussia-on the e2nd of May.

It is not to be supposed the kiog of Prossia would remain long inactive after such an unexpected turn in his fuvoor. His arms were now every where attended with success. Prince Henry drove the imperialists from some important posts in Saxony, by which 1,e secured all tibat part which the Prussians possessed; and though. the Austrians frequently attempted to recover these posts, they were constantly repulsed yith great KoL. 1
-9 X
slagghecr. The king was not joined by his new allies till the latter end of June; after which be drove M. Daun before bian to the extremity of Silesia, leaving the town of Schweidnitz entirely uncovered, and which the king immediately prepared to invest. In the mean time, different detachuents of Prussians, some on the side of Saxony, and sthers on that of Silesia, penetrated deep into Bohemia, laid many parts of the country undor contribution, and spread an universal nlarm. A considerable body of Russian irregulars also ppade an irruption into Bohemia, where they practised on the Aus-: trians the same cruelties which they had long been accustomed to practise on the Prussians.

But while the king was thas making the best use of his time, he was all at once threatened with a fatal reverse of fortune by a new revolution in Russia. The emperor was deposed, and his deposition was soon after followed by his death. The empress, who succeeded him, suspected that her busband had been misled by the counsels of his Prussian majesty, against whom, therefore, she entertained a mortal enmity. She could not, however, in the very beginning of her reign, undertake again a war of so much importance as that which had been just concluded. She therefore declared her intention of observing the peace concluded by the late emperor ; but, at the same time, of recalling ber armies from Silesia, Prussia, and Pomerania; which, indeed, the unsettled state of the kingdom now made in some degree necessary. At the same time, a discovery was made with regard to the king of Prussia himself, wlich turned the scalo greatly in his favour.

The Russian senate, flaming with resentment against this monarch, and against theth late unfortunate sovereign ; and the empress, full of suspicions that the conduct of the latter might have been influenced by the councils of the former, searched eagerly: amongst the papers of the late emperor for an elucidation or proofs of this point. They found indeed many letters from the Prussian monarch; but in a strain absolutely different from what they had expected. The king had as far as prudence would permit, kept a reserve and distance with regard to the too rash advances of this unhappy ally; and in particular, counselled him to undertake nothing against the empress bis consort. The thearing of these letters read, is said to have had such an effect upon the empress, that she burst into tears, and expressed her gratitude towards the Prussian monarch in the warmest terms Still, however, the Russian army was ordered to separate from the Prussians ; but all tire important places which the former had taken during the whole war were faithfully restored.

The king, finding that the Russians were no more to take an active part in his favoun resolved to profit by their appearance in his camp; and therefore, the very day after bic oroer for their return had arrived, he attacked the Austrian army, and drove their shatwing from sume eminences and villages where they were advantageously posted; by waici means he entirely cut off their communication with Schweidnitz, so that nothing could be atteaupted for its relief. Prinee Henry kept them in continual alarms for Bohemia ; and a great part of their atteotion, and no small part of their forces were engaged po that side. Marshal Daun, now finding himself readered almost ineapable of
undertaking any thing, detached general Laudohn, with a a force much superior, to attack the prince of Bevern, and drive him from the advantageous post he occupied. Buflie prince defended himself with such resolution, that all the efforts of Laudohn could not ${ }^{*}$ succeed before the king had time to come to his assistance. The Austrians being thea - put between two fires, were routed and pursued with terrible slaughter; after which, the king met with no more disturbance in his preparations for the siege, and the trenches -zvere opened on the 18 th of July. Marshal Dann máde no attempts to relieve the place ; but the garrison being very strong, it held out near two months from the opening of the trenches. It is said that the attack was conducted, and the defence made by two engineers who had written on the sobject of the attack and defeuce of forlified places; and they were now practically engaged to prove the superiority of their systems. At last, however, the garrison, to the number of 8000 men , surredered prisoners of war; and the whole body, except nine, were soon after drowned at the mouth of the Oder, on their passage to their inteaded confinement of Koningsburg:

The King of Prussia, now become master of Scaweidnitz, turned lis attention towards Saxony, where he considerably reinforced his brother's army, and made preparations for laying siege to Dresden. In this country the Austrians had lately met with some sticcess, and driven prince Henry back as tar as Freyberg ; bot on the 29th of Octaber, they were attacked by thie Prussian army, thus reinforced, and totally routed. Great numbers were slain, and near 6000 taken prisoners. This vietory proved decisive : and the empress queen, finding herself deserted by all her allies, was glad to conclude a treaty; the substance of which was, that a mutual restitation and oblivion should take place, and both parties set down at the end of the war in the same situation in which they began it. This treaty was called the peace of Hubertsburg.t

The vast abihities of the great Frederic were displayed almost equally in private as in public life ; but unfortunately, in both instances, they conduced rather to the splendor of his reputation than to the general benefit of mankind. Being put in his infancy under the care of Val de Recoule, a French lady of great understanding, he acquired, in his early years, not only a taste for literature in general, but a predilection for the French language, which was never obliternted. He was taught the mathematics and "fortification by major Senning; Han de Jendun, a Frenchman, instructed him in other branches of knowledge ; a cadet of the name of Kenzel taught him the exercise.

At eight years of age he was furnished with a small arsenal, stored with all sorts of arms proportioned to his size and strength ; of which his father left him fully master. In a short time, he was named captain and chief of the corps of cadets; and performed every day in dumiature with his little soldiers all the evolutions of military exercise. The martial spirik which was thus diligently cherished, combined with his early devotion to literature, to make him peruse with eagerness the most valuable writings of the antients. He never spoke without enthusiasm of the great warriors of Greece and Rome ; and when seated og the throne, thought he could never distinguish an able soldier in a more honourable manner than by conferring on him a Roman surname.

Ip the pursuit of glory, Frederic found that it was not fappoper to cultivato the
fejendship of celebrated poets, philosophers, and others of the literary class ; for which plfpose be flattered, commgnded, and complimented, all the most celebrated literati of
"Europe. "The philosoplfers," says the author of his life, " answered him as a mad lover writes to his mistress. They wrote to him that he was a great poet, a great philosopher, the Solomon of the north. All these hyperboles were printed; and Solomonwas not sorry for it, though he had too much understanding to believe them. Wolf, Rollin, Gravesande, Maupertuis, Algarotti, Voltaire, were honoured with his core respontience. The last especially, accustomed to offor up incense to the idol of the day, were it transported from the dungbill to the altar, did not fail to exalt, as the first man in the universe, a prince, who was in expectancy of the throne, and who assured him that he was the greatest philosopher of the age, and the first poet in the world."

As the following account, taken from Voltaire, will give an idea of Frederic's manner of living, we shall here transeribe it ; first warning the reader, that he is about to follow a very exceptionable guide.
"He rose al five in the morning in summer, and six in the winter. A lacquey came to light his fire, and dress and shave him ; and, indeed, he almost wholly dressed himself. His room was not inelegant. A rich balustrade of silver, ornamented with little cupids, seemed to enclose an alcove bed, the curtains of which were visible, but behind them, instead of a bed, there was a library; the king slept on a truekle-bed with a slight mattress concealed behind a screen. Mareus Aurelius and Julian, those aposthes of Stoicism, did not sleep in a more bomely manner. At seven, his prime minister. arrived with a great bundle of papers under his arm. This prime minister was noother than a clerk who had formerly been a soldier and valet de chambre. To him the secretaries sent all their dispatehes, and he brought extracts of them, to which the king wrote answers by two words in the margin; and thus the affairs of the whole kingdom were expedited in an hour. Towards cleven the king put on his boots, reviewed his regiment of guards in the garden, and at the same hour the colonels were following: his example in their respective provinces,"
"The" princes, his brothers, the general officers, and one or two chamberhins, dined at his table ; which was as good as it could be in a country where there is neither game, tolerable butchers' meat, nor a pollet, and wiare the very wheat is brought from Magdeburg. After the repast, he retired alono into his cabinet, where he madeverses till five or six o'clock. Then cane a young man named D'Arget, formerly secretary to Valory, the French envoy, whoo read to him. A little concert began at seven, in which the kiog played on the flute with as much skill as the first pecformer ; and pieces of his composition wero frequently exccuted. Supper was served in a little hall, the singular and striking omanent of which was a pieture, the design of which he had. given to Pesae, one of our best colouribste It was a fine pieture of Priapus. These repuste were not in general the less philosuphic on that account. Vever did men converse, in any part of the world, with so much liberty concerning the superstitions of mankind und novor were they treated with more, pleasantry and contempt. God jras.
respected, but none of those who had deceived tmen in his anme were spared. Neither women nor priests ever entered the palace. - In a word, Frederic lived without a courtn! without counsel, and without religious worship."

- We have only to fill up the vutlines of this picture, which was intended to flatter, in order to form some conception of the moral cffects of the new philosophy.

The fatigues he had suffered in his military exertions, undermined this constitation. Seon after the peace of Hubertsburg, his body began to bend, and his head to ineline to ithe right side; by degrees he became very inifirm ; he was tormented with the gpot, and subject to frequent indigestions. All his distempers were, bowever, borne with in= vincible patience ; and till within a very short time of his death, he hever ceased to attead his reviews, or visit the different proviuces of his dominions. His dissolution took place on the month of August, 1786.

His nephew, who succeeded him, found himself possessed of a full treasury, a fine army, and an obedient people. He discouraged the cultivation of the French language and philosophy, to which his unele was so violently attached. The events of his reigu, and that of his successor must be postponed till we give an account of the Dutch, Frunch, and Polish revolotions.

The emperor, Chatles VII. who had been raised to the throne by the intrigues of France, died in 1745, und was succeeded by Francis I. the husbanid of Maria Theresa, the queen of Hungary. Their son Juseph bad been crowned king of the lomans in 1764 , and the next year succeeded his father as emperor. This prince shewed an active and restless disposition, which inclined him to extend his dominions by conquest: and to make reformations in his internal policy, but without taking any proper methods: for accomplishing his parposes. Hence he was almost always disappointed; asomuch that he wrote for himself the following epitaph. "Here lies Joseph, unfortunate in all his undertakings."

In the year 1778, a war commeuced betwixt him and the king of Prussia, in which notwithstanding the ippetuous valour of that monarch, Joseph acted with such caution, that his adversary could gain no advantage over hith; and an aecommodation took place without any memorable exploit on either side. His foreign engagements, which will be described in our account of Hollond and Turkey, did not prevent him from carrying on his reformation throughout all his dominions with a rapidity scarcely to be paralleled, and which at leagth produced the revolt in the Austrian Netherlands. In the course of his labours in this way, a complete code of laws were compiled. These were at first greatly commended for their humanity, as excluding almost every species of eapital punishment ; yet when narrowly considered, the commutations were judgod by: many to be so "exceedingly severe, that the most cruel death would have beon, comparatively speaking, an act of mercy. Evea for smaller crimes the punishments were very severe ; but the greatest fault of all was, that the modes of trial were defective, and the punishments so arbitrary, that the most inoocent character lay at the mercy of a tyramical judge.

The innovations in religious matters were, however, the mogt offensive. Among

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the many changes introduced this way, the following were some of the most remark!able. 1. An abridgnent of divine service, \&. A total suppression of yocal performers in choirs. 3. The introdaction of the vermacular language instead of the latin in administering thesacraments. 4. The prolibition of chanting hymns in private houses, 5 The suppressions of a number of religious houses, and the reduction of the nuabber of the clergy. 6. The 'total abolition of the papal supremacy throughout the imperial dominions. Many favours were also bestowed on the Jews; ard in 1786 , the empecor wrote with his own hand to the different handicaft and tradiag companies in Vieuna, *equesting that the Jewigh youth might be received as apprentices in the city. Severe laws against gaming were enacted and executed with rigour.

Leavy restrictions were laid upon all the free-masoas' societies in Germany, and they were totally suppressed in the Netherlands. He died in February, 1790, and was succeeded by his brother Leopold. The affairs of the the succeeding reigas are inseparable from those of France.

Though the two northern crowns bave been for many years past of very littie inportance to the rest of Europe, they have both experienced some jaternal changes which we must briefly notice.

- Christian VL. of Denmark, succeeded his father Frederic, the enemy of Charles XII. in 1790 ; and reigned till 1746, with the glorious title of Father to bis Country. His successor, Frederic V. imitated his conduct in seeking the welfare of his poople, and died in 1766 . His present majesty, Christian VII, then ascended the throne. He had married the princess Carolina Matilda of England; put this alliance proved extremely unfortunate, which is generally ascribed to the intrigues of the queen dowager, mother-in-law to the present King.

She is represented as ambitious, artful, / and designing; and as one who wished to have set aside the king himself in favour of her own son Frederic.

On the arrival of the young queen, however, she received her with much apparent affection, telling her the faults of her husband, and at the same time prothisigg to assist ber on all occasions in reclaiming him from his vicious courses. Thus, under pretencerof kindness and friendship, she sowed the seeds of dissension betwixt the rogal pair, before the unfortunate princess had the least suspicion of ber danger; and while the unthinking queen revealed to the dowager all her secrets, the latter is said to have placed spies about the king to keep him constantly engaged in riot and delauchery, to which he was at any tine too much inclined. At last it was contrived to throw a mistress in his way, whom he was advised to keep in his palace. It was impossible that ahy woman could puss such a piece of conducf unnoticed; however, in this, affulf, the queen dowager behared with her usual duplicity. In the absence of the king sine pretended great resentaient against him, and even advised the queen not to live with him ; but as soon as he returned, when his consort reproached bim, though in a gentle manner, with his conduct, she not only took his part, bot insisted that it was presumptuons in a queen of Denmark to pretend to direct her busband's contluct. Notwithstandints this'incendiary behavigur, the qqueen was in a'stiort time reconciled to her husband, and
lived on very good terms with thim, uotil she ngain excited the jealousy of the dowager, by assuming to herself the direction of that part of public affairs which the dowager had 3 been accustomed to look upon as her own privilege. For scopge time it seemsed to be Nfficult for her to form any effectual plan of revenge, as the king had displaced several . of her friends who had for some time a share in the admiaistration. Two new favourites, Brandt and Struensee, had now appeared; and as these paid great court to the queen, the dowager took oecasion to insinuate, not only, that the queen was harbouring impiroper desigus with regard to the government, but that she had an intrigue with Syruensee. The new ministers indeed behaved imprudently, in attempting to make a re formation in several of the departments of the state at once, instead of waiting patiently antil an opportunity should offer; and in these precipitate schemes they were certainly supported by the queen.
These instances of want of circumspection in the ministers, were represented by the dowager aid her party, to be a settled scheme to make an alteration in the government'; and a design was even spoken of to supersede the king, as boing incapable of governing, to deelare the queen regent during the minority of ber son, and to make Struensee prime minister.
Thas a very formidable opposition was formed against Brandt and Struenace, and as the latter had mide some innoyations in the military department, as well as the civil, some of the principal officers, who were the creatures of the dowager, represented hinn as designing to overthrow the whole system of government. When matters were brought to i proper bearing, it was at last resolved to surprize the king in the middle of the uight, and force bim instantly to sign an order, which was to be ready prepared, for connmifting the obooxious persons to separate prisons, accuse them of high treason ia getieral, nnd particular with a design to dethrone or poison the king. If this conld not be properly authenticated, it was determined to suborn witnesses to confirm the report of a criminal correspondence between the queen and count Struensec. This design was executed on the night of the 16th of January, 1779, when a masked ball kas given at the court of Denmark. The queen, after having danced most part of the uiglit with count Struensee, retired to her chamber about two in the moraing. About four, the same morting, prince - Frederic got up, and went with the queen dowayer to the king's bed-chamber, accompanied by general Eichstedt and count Rantzan. Having ordered the king's valet de chambre to awake: him, they informed his mejesty, that the queet, with count Struensee, his brother, and Brands; one of the now tuinisters, were at that moment busy in drawing up an act of renunciation of the crown, which they would immediately after compel hion to siga; and therefote there was a necessity for him to give an prder for their arrestment. The kinig is said to have, hositated for some time, and inclined to refuse this scandalous requisition ; but at length, thraugh importunity, and, according to some accounts, being reven threatened -into compliance, he consented to what they required.

-     * Count Rantzau was dispatched, at , thit untimely hour, into the ppartment, and immediately exceuted the orders of tife king. Thierwafortunate pringess: wasan conveyed ia


## NORTHERN EUROPE.

one of the king's coaches to the castle of Cronenburg, together with the infant prindess, Pattended by lady Mostyn, and escorted by a party of dragoons. Struensee and Brandt were seized in their beds and imprisoned, as well as several other members of the new administration, to the number of 18 . The queen dowager and her adherents seemed to assume the government entirely into their own hands, and a total change took placo in the departments of administration. The prince royal, son of queen Matilda, then in the fifth year of his age, was put under the care of a lady of quality, who was appoluted gowerness ufider the superintendency of the queen dowager. Struensee and Braidt tvere put in iroas and very severely treated; they underwent long and frequent examinations ; and Struensee at last confessed that ho had a criminal intorcourse with the queen. Both their heads were struck off on the esth of April; but many of their partisans were set at liberty.
The confession of Struensee is, by many, and indeed with no small degree of probability, supposed to have been extorted by fear of the torture, and to lave no foundation in truth; bat as'no means were used by the court of Britain to clear up the queen's character, the affair most undoubtedly wore a suspicious aspect. At last, however, his Britannic majesty interfered so far as to send a small squadron of ships to convoy the unhappy prineess to Germany. Here the city of Zell was appointed for her residence; ind in this place she died of a malignant fever, on the 10 th of May, 1775, aged 93 years and 10 months.
The inhuman treatment of this princess did not long prove advantageous to the queen dowager and her party. A new revolution took place in April, 1784, when the queen dowager's friends were removed, a new council was fornied under the auspices of the prince royal, and no instrument deemed authentic, unless signed by the king, and countersigned by, the prince, Since that time the King, who, from the beginning of his administration, showed a great degree of incapacity, has been eatirely laid aside from public business, and has no share in the goverument.

- Charles XWI. mas succeeded by his sister the priucess Ulrica Eleonnra, wife to the hereditary prince of Hesse. On this occasion, the states took care to make a previous stiputation for the recovery of their liberties, and obliged the princess to sign a paper to this purpose, before eutering on the government. The first care was to tmake a peace with Great Britain, which the late king intended to bave invaded. The Swedes then, to prevent their farther losses by the progress of the Rassian, the Danish, the Saxon, and other urms, made many great sacrifices to obtain peace from those powers. The Frencli, bowever, about the year 1730 , formed a dangerous party in the kiugdom under the name of the Hats ; wisich not only broke the internal quiet of the kinydom, but led it into a ruinous war with Russia, by which the province of Finland vas lost.

Thieir Swedish majesties having no children, it was necessary to settie the succession ; especially as the duke of Holstein was descended from the quecr's eldest sister, and was, at the same time, the presumptive heir to the empire of Nussia. Four competitors appeared ; the duke of Holsteia' "Gottorp, prince Frederic of Hesse Cassc. nephew to the king, the priniee of Denaark and the duke of Deux.Ponts. The duke
of Holstein would have carried the election, bad he not embraced the Greek religion, that he might mount the throne of Russia. The czarina inkerposed, and offered to restore all the conquests she had made from Sireden, excepting a small district in Fin- $\$$ lind, if the Swedes wonld receive the dake of Holstein's utale, Adolphus Frederic, bishop of Lubec, as their hereditary prince ard successor to their crown. This was igreed to ; and a peace was concluded at Abo, under the mediation of Sis Britannie migesty. This peace was so firmly adliered to by the czarina, that his Danish majesty thiought proper to drop all resentment for the indignity done his son. The prince sue cessor married the princess. Ulrica, third sister to the king of Prussia; and in 1751, entered into the possession of lits new dignity, which proved to bim a crown of thorng: Through a strange medley of affairs and views of interest, the French had acquired vast influence in all the deliberations of the Swedish senate, who of late have been littlo better than pensioners to that crown. The intrigues of the senators forced Adolphus to take part in the late war against Piussia ; but as that war was disagreeable not only to the people, but also to the king of Sweden, the nation never made so mean an appearance; and upon Russia's making peace with the king of Prussia, the Swedes likewise made their peace, upon the terms of leaving things as they stood at the brginning of the war.

Adolphas dicd dispirited in 1771, after a turbulent reign of 90 years; and was succeeded by his son Gustavus. The most remarkable transaction in this reign, is the revolution which took place in the government in the year 1772. by which the king from being the most limited, became one of the must despotic monarelss in Earope. Ever since the death of Charies XII, the whale power of the kingdom had been lodged in the states ; and this power they had on alt occasions most grievously abused. Gusktavus therefore determined either to seize on that power of which they made such a bad luse, or perish in the attempt. . The revolution was effected in the following manner. On the morning of the 19th of August, 1779 , a considerablo number of officers as well as other persons known to be attached to the royal cause, had been summoned to at--tend his imajesty. Before ten he was on borseback, and visited the regiment of artillery. As be passed through the streets he was more thian usuaily courteous to all be met, bowing familiarly to the lowest of the peoplo. On the king's return to his palace, the detachment which was to mount guard that day being drawn up together with that which was to be relioved, his majesty retired with the officers into the guard room. He then addressed them with all that eloquence of which he is said to bave been a perfect master; and after insinuating to them that bis life wus in danger, be exposed to them in the stropgest colours the wretched state of the kingdom, the shackles in which it was held by means of foreign gold, and the dissensions and troubles arising from the some cause which had"distracted the diet during the course of 14 months. He assured them - that his only design was to put an end to these disorders ; to banish corruption, restore true liberty, and revive the antient lustre of the Swedish uame, which had been long

- tarnished by a venaliny as notorious as it was disgracefot. Then assuring them in the strongest terms that he disclaimed for ever all absolute power, or what the Swedes enil Voz. I. - 9 Z
sovereignty, lie concluded with these words : " I I atn obliged to defend my own liberty and that of the kingdom, against the aristocracy which reigus, will you be faithful to me, as your fore-fatherg were to Gustavas Vasa and Gustavus Adolphus? und I will then risk my life for yoofr welfare and that of my country."

The officers, wost of them young men, of whose attachment the king bad becp long secure, who did not thoroughly perhaps see into the nature of the request bis majesty had made them, afid were allowed no time to reffect upon it, immediately consenked to every thing, and took an oath of fidelity to bim.

Three only refused. One of these, Frederic Cederstrom, captain of the company of guards, alledged he had ulready, and very lately, taken an oath to be faithful to the states, and consequently could not take thirt which his majesty thien exacted of hin. The king, looking at him sternly, answered, "Think of what you are doing." "I do," replied Cederstrom, "and what I think to-day, I shall think to-morrow; and were I capable of breaking the outh by which I am already bound to the states, I should be hikewise enpable of breaking that your majesty now requests me to take."

The king then ordered Cederstrom to deliver up his sword, and pat him under errest.

His majesty, however, apprehensive of the impression which the proper and resolote conduct of Cederstrom might make upon the , minds of the officers, shortly afterwards softened his tone of voice ; and again addressing himself to Cederstrom, told bim, that as a proof of the opinion be entertained of him, and the confidence he placed in bith, be would return him his sword without insisting upon hisetaking the oath, and would only desire his attendance that day. Cederstrom continued firm ; he answered that his majesty could place no confidence in him that day, and that he begged to be exeosed from the service.
While the king was shut up with the officers, senator Ralling, to whom the command of the troops in the town had been given two days before, came to the dbor of the guard-room, and was told that he could not be admitted. The senator insisted upon being present at the distribution of the orders, and sent to the king to desire it; but was answered he must go to the senate, where his majesty would speak to him.

The officers then received their orders from the king; the first of which was, that the tivo regiments of guards and of artillery should be immediateely asseinbled, and that a detachment of 36 grenadiers should be posted at the doors of the council-chamber to prevent any of the senators from coming out.

But before the orders could be carried into execution, it was necessary that the king stiould address thimself to the soldiers ; men wholly unacquainted with his designs, and accustoased to pay obedience only to the orders of the senate, whom they fad been taught to hold in the ligighest reverence.

As lib unajesty, followed by the officers, was-advancing from the guard-rom to the parade for this parpose, some of them, more cautious, or perhaps more timid than-the rest, became, on a short reflection, apprehensive of the consequentes of the measures in ${ }^{\text {" }}$ which they. were engaged; they began to express their fears to the king, that uniless soine
persons of Greater weight and influence than thenselves were to take a part in the same cause, he could hardly hope to succeed in his enterprize. The king stopped awhile, and appeared to hesitate. A serjeant of the guards overheard their discourse, and cried sloud, "It shall succeed: Long live Gustavus !" His mojesty immediately said, "Then I will venture;" and stepping forward to the soldiers, he addressed them in terms nearly similar to those he had made use of, to the officers, and with the same success. They answered him with loud acclamations ; one voice ondy-said, No ; but it was not attended to.

In the mean time, some of the king's emissaries had spread a report about the torn that his majesty was arrested. This drew the populace to the palace in great numbers, where they arrived as his majesty had concluded his harangue to the guards. They testified, by reiterated shouts, their joy at secing him safe ; a joy which promised the happiest conclusion to the business of the day.

The senators, were now immediately, secured. They had from the window of the council-chamber beheld what was going forward on the parade before the palace; and, at a loss to know the meaning of the shouts they beard, were coming down to inquire into the cause of them, when 30 grenadiers, with their bayonets fixed, informed them, it was his majesty's pleasure they should continue where they were. They began to talk in a high toue, but were answered only, by having the door shut and lockod upon thear.
The moment the secret committee heard that the senate was arrested, they separated themselves, each individual providing for his own safety. The king then mounting his horse, followed by bis officers with their swords drawn, a large body of soldiers, and numbers of the populace, went to the other quarters of the town where the soldiers be bad ordered to be assembled were posted. He found them all equally willing to support his cause, and to take an oath of fidelity to him: As he passed through the streets, he declared to the people that he only meant to defend them, and save bis country ; and that if they could not confide in him, he would liey down his sceptre, and surrender up biskingdom. So much was the king beloved, that the people (some of whom even fell down upon their knees) with tears in their eyes, implored his majesty not to abandop them.

The king proceeded in his course, and in less than an hour made himself master of all the nilitary force in Stockholm. In the mean time, the heralds, by proclamation in the several quarters of the city, summoned an assembly of the States for the ensuing morning, and declared all members traitors to their country who should not appear. Thither his majesty repaited in all the pomp of royaity, surrounded by his guards, and bolding in his hand the silver, sceptre of Gustavus Adolphus. In a very forcible speeth be lamented the unliappy state to which the country was reduced by the conduct of a party ready to sacrifice, every thing to its ambition, and reproached the states with sdapting their actions to the xiews of foreign courts, from which they received the wages off perfidy. "If any one dare to contradict this, let him rise and speak." Conriction, et. fear kept the assembls silent, and the secretary read the new form of goverument
which the king submitted to the approbation of the states. It consisted of 57 articles; of which the following five were the cliief.

1. The king bas the eytire power of convoking and dissolvigg the assembly of states as often as he thinks proper. 9. His majesty atone has the command of the army, fleet, and finances, and the disposal of all offices civil and military. 3. In case of an invasion, or of any pressing necessity, the king may impose taxes, without wuitiag for the assembly of the states. 4. The diet can deliherate upon no other subjects tban those propused by the king. 5. The king shall not carry on an offiensive war wititont the consent of the states. When all the articles were gone through, the king demanded if the states approved of them, and was answered by a general acclamation. He then dismissed all thie senators from their cmployments, adding that in a few days he would appoint others ; and coneluded this extraordinary seene by. drawing out of his pocket a smsll book of psalms, from which, after taking off the crown, he gave out 'To Deum. All the members very devoutly added their voices to bis, and the hall resounded with thanksgivings, which is to be feared never rose to heaven, if sincerity was necessary to their passport.

The power thus obtained, the king employed for the good of his subjects. He took care that the law should be administered with impartiality to the richest noble and the poorest peasant, making a severe example of such judges as were proved to have made justice venal. He gave particular attention and eacouragement to commerce, was a liberal and enlightened patron of learning and science, and laboured strenuously to introduce into his kingdom the most valuable improvements in agriculture that bad beeo made in foreign countries.

But while thus active in promoting the arts of peace, he was not inattentive to those of war. The fleet, which he found docayed and feeble, he in a few years restored to a respectable footing, and besides changing the regulations, of the navy, he raised a new corps of sailors, and furmed them to the service by continual exercise. The arnyy; which, as well as the navy, bad been neglected during the aristocracy, was next to be reformed. The king began by giving eloaks, tents; and new arms to all the regimenter Afteryards, under the direction of teld marshal Coñt do Hesscinstein, a new exercise was introduced, and several camps were formed, in which the soldiery were maneeuvred by the king himself. The sale of military offices, which had heen permitted for many years, were entirely suppressed; and the king provided not only for the reestablishnent of discipline and good order in the army, but for the foture welfare of the individuals which composed it. These warlike preparations were necessary to a plan which he had formed for entirely abolikhing the power of the aristocracy, and freeing Sweden from the factions which lind long been formed in it by the cour of St. Petersburg. The changes which he had introduced into the constitation ivere very inimical to the intrigues of that court ; and the Russian ambassador exerted himself openly io bring about a rupture between the king and the discontented nobles. Gustavas ordered him to quit the kingdom in eight days, and imneediately preparel for war with Russiar To this apparently rash enterprize he was incited by the Ottoman Porte, at that tuhe
nable to oppose the armies of the two empires : and his own ambition, together with the internal state of his kingdom, powerfully concurred to make him lend every assistance to his antient ally. It is needless for us to enter into a detail of the particulars of that war ; which, as well as the astonishing activity and miktary skill displayed by the Swedish monarch, are fresh in the memory of all our readers. Suffice it to say, that neither Gustavus Adolphus nor Charles XIL. gave greater proofs of undaunted courage, and military conduct, in their long and bloody wars, than were given by Gustavus III. from the end of the year 1787 to 1790 , when peace was restored between the courts of St. Petersburgh' and Stockholm. Had his army remained faithfol, it seems in a bigh degree probable, that he would bave penetrated to the metropolis of the Russian empire in the first campaign; and when be was deserted by that arny, and his councils distracted by new hostilities commencing against hitn by the Danes, the vigour and resources of his mind never forsook him. When the court of Copenhagen was compelled, by the means of England and Prussia, to witbdraw his troops frous the territories of Sweden, the king attacked Russia with such vigour both by sen and land, displayed such address in retrieving his affairs when apparently reduced to the last extremity, and renewed his attacks with such pertinacious courage, that the empress lowered the haughtiness of her tone, and was glad to treat with Gustavus as an equal and independent sovereign.

The king of Sweden was now at liberty to cherish again the arts of peace, and to humble the haughty apirit of the nobles. For his attempting to deprive those men of that power which they had for many years employed against their country, he has been beld up to the world as a despot who trampled on the liberties of his suljects ; and as a man without sincerity or patriotism ; and, in one word, as a perjured tyrant, who overthrew the constitation which he had sworn to maintain. That he was not troubled with a scrupulous conscience, when so artfully condlueting the revolution of 1779 , must be acknowledged; nor can it be denied that in his treaties with other powers he sometimes endeavoured to over-reach them ; but if the necessities of state could in any case be an apology for falsehood, they would sufficiently apologize for the duplicity of Gustivus. He was engaged in the ardoous enterprize of freeing his suljects from an aristoeratic tyranny, supported by a foreign power, the most formidable in the north; he ${ }^{*}$ had been forced ipto a war with that power; and, as there is reason to belicve, promised assistance which he never received; and it cannot excite wonder nor great indignation, that, as soon as he could make an honourable peace, be embraced the opportunity without paying much regard to the interests of an alliance, which tamely looked on while be was struggling with difficulties apparently unsurmountable. That the revolution wlifch he effected in his own country was calculated to promote the general good of the peopte, is unquestionable; and to gain soch an object be might perhaps restore the crown to its antient splendour, withoot brigging upon-bis goverument the odious epithet of despotism.

The nobles, however, continned discontented, and a conspiracy was planned against Gustavus, under bis own roof. He had entered into the alliance that was formed againss

Vol. I

- 10 A
the revolutionary goverument of France; and to raise an army which be was to lead in person to cu-operate with the cuperor and the king of Prussia, he was obliged to negotiate large loans, and to impose opon his subjects heavy taxes. The nobles took advantage of that circumsance to prejudice the minds of many of the people against the sovereign who had laboured so long for their real good. On the 16 th of March, 1799, her received an anonymous letter, warning him of his immediate danger from a plot that was laid to take nway his life, requesting him to remain at bome, and avoid balli for a year; and assuring him that if he should go to the masquerade for which he was preparing ho voould be assassinated that very night. The king read the note with conteapt, and at a late hour entered the ball room. After some time he sat down in a box with the count D'Essen, and observed that he was not deceived in his contempt for the letter, since lind there been any desiga against liis life, no tine could be more favourable than that moment. He then mingled, without appretiension, amoug the crowd, and just as lie was preparing to retire in company with the Prussian ambassador, he was surrounded by several persons in masks, one of whom fired a pistol at the back of the king, and lodged the contents in his body. A scene of-dreadful confusion immediately ensued. The conspirators, amidst the general tomult and alarm, had time to retire to other parts of the room ; but one of them lise previously dropped his pistol and a dagger close by the wounded king. A general order was given to all the company to unmask, and the doors were immediately closed ; but no person appeared with any particular distinguishing marks of guilt. The king was inmodiately convoged to Lis apartments ; and the surgeon, after extracting a ball and some slags, gave favourable hopes of his majesty's recovery.

Suspicions immediately fell upon such of the nobles as bad been notorious for the epposition to the taeasures of the court. The anonymous "letter was traced up to colonel Liljehorn, major in the king's guards, and he was immediately apprehended. But the most successful clue that seemed to offer was in consequence of the weapons which had fallen from the assassin. An order was issued, directing all the armourers, gunsmiths, and cutlers in Stockholm, to give every information in their power to the officers of justice concerning the weapons. A gunsmith, who had repaired the pistols, readily recognised them to be the same which he had repaired some time since for a nobleman of the name of Ankarstrom, a captain in the army : and the cutler who had made the dagger referred at once to the same person.

The king lainguished from the 17th to the g9th of March. At the first, the reports of his medical attendants were favourable ; but on the 28 th a mortification was found to have taken place, which terminated his existence in a few hours. On opening his body, a square piece of lead and two rusty nails were found unextracted within his ribs.

During his illness, and particularly after he was made acquainted with the certainty of his approaching dissolution, Gustavus continued to display that inshaken courage which he had manifested on every occasion during his life. A few hours before his decease, he made some alterations in the arrangement of public affairs. He had before by his will appointed a council of regency ; but convinced by recent experience, how littlo
no could depend upon the attachment of his nobles, and being also aware of the neceesity of a strong government in difficult times, be appointed his brother, the duke of Sadermathia, sole regent, till his son, whowas then about 14, shall have attained the age of 18 yearn. His last words were a declaration of pardon to the congpirators against his life. "Ihe actual murderer alone was excepted; and he was excepted" only at the strong instance of the regont and those who surrounded this majesty in his dying moments. Inmediately on the death of the king, the young prince was proclaimed by the title of Gidstavas 1V.

Ankarstrom was no sooner apprehended, than be confessed, with an air of triumph, that be was the person " who had endeavoured to liberate his country from a monfter. and a tyrant." Suspicions at the same time fell on counts Horn and Ribbing, barou* Pechlin, baron Ehresvard, baron Hartsmandorf, Von Eagerstrom, the royal secretary, and others; and these suspicions were confirmed by the confetsion of Ankarstrom. After a fair and ample trial, this man was condemned to be publiciy and severely whipped oa three successive days, his right hand and bis head to be cut off, and his body impaled; which sentence he suffered not till the 17th of May, long after the death of the Ling. His property was given to his children, who, however, were compelled to change their names.

The counts Horn and Ribbing were condemned to lose their right hands, and to be cecapitated. Colonel Liljehorn and lieutenant Ehrenjwerd were plso to be beheaded. All these conspirators were degraded from the rank of nobles, and their property declared to be confiscated. Major Hartmansdorf was to forfeit his rani in the army, and to be imprisoned for one year. Engerstrom was to suffer perpetual imprisonment, and

- baron Pechlin and secretary Lillestrahle to be imprisoned during pleasure. Four others, accused of being concerned in the conspiracy, were pardoned, and some were acquitted.

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     Frould not pernit bim to implore the queen's clemency. His crimpal designs would bava been for ghen, it tic extravingancies of a groat boil ; but his wapt of confidefied if the affection of an fadulgent nilhtress, or his sulfen contempt of her mercy, were uuppindonable. Hif enemies knew it : they took advantage of it, to lanten his destrucflon: aud tuis friund were afratd to imberpose, Test they stiould be representod is the aboctars of hi. freisoas, Hit mo sooner was the fatil blows gtruck, than, fear amd envy being taid asleep, his merits were universally confeesed. Even his sentiments of duty wind foyntry were extolled. Elizabeth became senstble she frad beev decelved, and tirbivatoit hier ra hness, in sacrificing á man on whose life her bappines depended. His unemogy linchine drily more dear to her, and shie seldom thentioned nis bame without tearef Other ciecomstances compired to heifhten her regres: Her courtiens beving no longer itre superior favour of Esser to dread, grew less respectiof and assiduous in their aftendunce, and all men desirous of preferment zeemed to look forward to ther

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[^12]:    Maxiailian died while repaing to support his election to the kinglom of Poland
    Vol. I.

[^13]:    - hemia from the country of Glatz, and M. Keith bad penetrated into the same kingdoms

[^14]:    rac. 1.:
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[^15]:    - Bungay : Printed by C. Pirightly and T. Kinpersly.

