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ASSISTED BY
E．WIGGLESWORTH AND T．G．BRADFORD．

Vol．VII．

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CAREY AND LEA．
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## EASTERN DISTRICT OF PENNSYLVANIA, to wit:

Be it remembered, that on the tenth day of August, in the fify-fourth year of the Independence of the United States of America, A. D. 1829, Carey, Lea \& Carey, of the said district, have deposited in this office the title of a book, the right whereof they claim as proprietors, in the words following, to wit:
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D. CALDWELL,

Clerk of the Eastern District of Pennsylvania.


## ENCYCLOPRDIA AMERICANA.

Inductron, in logic ; a conclusion from the particular to the general. Strict conclusions are made from the general to the particular. The general premise being true, the application to the particular case which is included in it follows with logical certainty. Induction gives only probability. If, for instance, we conclude, from the earth being habitable, that the other planets are so, the conclusion is only probable. Induction rests upon the belief that general laws and rules are expressed in the particular case ; but a possibility always remains, that these general laws and rules are not perfectly known. An induction may be perfect or inperfect. To inake it perfect, the premises must include all the grounds that can affect the result. If this is not the case, it is imperfect. For instance, every terrestrial animal lives, every aërial animal lives, every aquatic animal lives, every reptile lives; therefore, cyery aniunal lives. If we now allow that there cxists no animal not included in the four enumerated classes, the induction is perfect.
Induleence, in the Roman Catholic system ; the remission of sin, which the church has power to grant. (We shall first give the Protestant, and then the Catholic views on this subject.) 'The visible head of the clurch, the pope, distributes indulgences in various ways. They are divided into temporary and plenary. The principle of indulgences rests on that of good works; for the Catholic theologians prove the authority of the clurch to issue indulgences in this way :-many saints and pious men have done more good works, and suffered more than1 was required for the remission of their sins, and the sum of this surplus constitutes as
treasure for the church, of which the pope lias the kcys, and is authorized to distribute as much or little as he pleases, in exchange for pious gifts. The historical origin of indulgences is traced to the public penances and the canonical punishments, which the old Christian church imposed on the community, especially on those who did not remain firm unto martyrdom. When ecclesiastic discipline became milder, and the clergy more covetous, it was allowed to commute these punishments into fines, for the benefit of the church. At first, the only source of indulgences was in Rome, and they could be obtained only by going there. At Rome, this trcasure of the church was divided among many churches, of which seven principal ones were gifled the most largely by the popes. These churches were termed stationes indulgentiarum. One of the richest was the church in the Lateran, on which were bestowed, at its renewed consecration, as many days of indulgence as the drops which fall in a rain continuing three days and three nights. The whole treasure of indulgences of the churches in Rome was accordingly inexliaustible. When the popes were in want of money, and the number of pilgrims who resorted to Rome to obtain the remission of their sims began to decrease, indulgences were put into the hands of the foreign archbishops and bishops; and, finally, agents were sent about, who made them an object of the meanest traffic. During the period of jubilee (see Jubilee), the people were tanght to belicve that the efficacy of indulgences was doubled, and the richest harvests were always reaped at this time. Leo X , fanous for his love of splendor, commenced his reign in 1513 ;
and, as the building of St. Peter's church had exhausted his finances, he began the sale of indulgences in Germany, without waiting for the jubilee of 1525 , in conjunction with the elector of Mentz, who was to receive half the profit; and the latter found an excellent agent for the sale in Tetzel. This flagrant abuse inflamed the zeal of Luther, and the Protestant theologians have always found indulgences one of the most vulnerable points of the Roman Catholic system; and even the Catholic states of Germany represented to the emperor, in 1530, that he ought to prevail upon the pope, to omit sending any more letters of indulgence to Germany, lest the whole Catholic religion should become an object of scorn and mockery. Nevertheless, the right to remit sins was received, in the council of Trent, among the articles of faith. (We shall now proceed to give the Catholic views, as taken from the article Indulgence, written by a Catholic, in the German ConversationsLexicon.) The penances of the ancient church (see Penance) were never so strictly binding as to preclude the presbyters from relaxing thein in some degree, in particular instances, where their object seemed more casily attained in some other way. But this never was done, except in single cases, and after the circumstances of the petitioners had been closely examined; nor was the whole punishment ever remitted, but merely a part of it, according as the case of the individual required, and his repentance justified it. The council of Nice, in their 12th canon, require, for such a dispensation, proot of true repentance. In the 11th century, another kind of indulgences was introduced, -absolution. This was granted to those who undertook some difficult enterprise for the benefit of the church. This was usually bearing arms in her cause, of which the crusades are the most famous example. In the council of Clermont (1095-1096), it was decreed (canon 12 ), that every one, who, actuated solely by devout zeal, and not by love of glory or by avarice, went on the expedition to Jerusalem for the deliverance of the holy sepulchre, should receive a full remission of his sins. In later tinnes, this indulgence was extended to those who were not able to go themselves, and sent a champion in their stead. By degrees, the exemption was extended still farther, and soon plenary and partial indulgences were granted to those who gave alms for effecting some good work (e. g., the restoration of a church, \&c.), or perforined some prescrib-
ed labor of piety (the visiting of a church, for instance) at the time of the jubilee, which was established by Boniface VIII, in 1300. This gave the death-blow to the public penance of the church. Considerable abuses, however, stole into the system of indulgences, and the scandal became very great. Under pretext of alms for the benefit of good works, indulgences were made the means of indirectly taxing the whole of Christendom. It was proposed several times in the diets of the German einpire (e. g., at Nuremberg, in 1466), to make use of them for supplying the expenses of the war against the Turks. The popes, bishops and civil rulers usually divided the proceeds, though the latter sometimes appropriated them entirely ; as, for instance, in 1500 , when the government of the empire took possession of the money collected for the pope on the occasion of the jubilee, and allowed only a third part to the legate of the pope, for his subsistence. Under such circumstances, when holy institutions were abused for vile gain, it was natural that wrong notions respecting indulgences and their power, should spring up among the people, and be spread by the preachers employed to distribute them. (See Tetzel.) It is a well known fact, that the indulgences proclaimed by Leo $\mathbf{X}$, gave the first spring to the reformation. It was the oisject of the fathers assembled at Trent, to make a public disavowal of the erroneous doctrines which had been preached by individuals respecting indulgences, that they might not appear to be sanctioned by the church. The council first required (in sess. 24, cap. 8, De Reformatione), the restoration of public penance, in the following words : "The holy apostle (Paul to Timothy) ordains, that those who sin publicly, should be publicly rebuked. If, therefore, a crime has been comınitted publicly, and in the sight of many, so as not to leave any doubt of its giving a bad example to others, a public penance is to be imposed on the guilty person, suited to the crime, that the sight of his repentance may recall those to the right way, whom his example has led astray. The bishop may, however, substitute a private for the public penance, if he thinks it more suita ble." Respecting absolution itself, the church has established no dogma, because such dogmas are expressed only in the canones, of which there exist none on this subject. She has given only a decree, and this in her last session, which literally says : Since the power of conferring indulgences has been given to the church
by Christ, and she has exercised it from the earlicst times, the holy council teaches and ordains, that this usage, so beneficial to Christians, and confirmed by the authority of many holy councils, is to be retained in the church; and she inflicts the anathema upon such as cither declare indulgences unnccessary, or dispute the power of the church to grant them. It is her wish, however, that in the grant of indulgences, according to the custom long existing in the church, proper limits should be observed, lest the discipline of the church become injuriously relaxed. But as the church desires that the abuses which have crept in, and have given occasion to heretical preachers to heap reproach upon this venerable usagc, should be corrected, she ordains by the present decree, that the shameful bartering of indulgences for money, which has been so fruitful a source of abuse, shall bc entirely abolished. As the corruptions which have sprung from superstition, ignorance, irreverence, or from any othcr causes, cannot herc be enumerated and individually censured, on account of the variety of the kinds prevailing in different places and provinces, the synod commands every bishop to search out with diligence the abuses of his own church, and to lay them before the first provincial synod, that they may be branded as errors by the judgment of the other bishops, and be submitted to the authority of the supreme bishop at Rome, whose wisdom will provide for the universal good of the church, that the sacred indulgences may in future be distributed with purity and holiness. The selling of indulgences has accordingly ccased. In regard to the absolution still practised in the cliurch (continues the Catholic writer), the spirit of the church is the same as in ancient times. The old discipline of penance never has been formally abolished. On the contrary, the principle has rather been confirmed by the council of Trent, as has just been shown. The church still commissions her scrvants to impose penances upon sinners, in proportion to their guilt,-even heavier penances than the ordinary ones. Why, then (he asks), should she not be authorized to remit part of the sentence, if the penitent is found worthy of favor? Whetleer such remission be deserved by the penitent, is to be judged by those ministers of the church who are in immediate intcrcourse with them. To make absolution effectual, Bellarmin requires that the end attained should be morc agreeable to God than the performance of the
penance remitted. The labor itself should be in proportion to its aim. We have seen that there exists no dogma on absolution; it is therefore by no means a doctrine of the church, but it is left to the private views of the individuals, whether and how far the absolution and the idea of purgatory (see Purgatory), are connccted with each other. It is falscly belicved by many Protestants, that absolution is esteemed by the Catholic church equivalent to conversion, and as effectual to remit the punishment of sins. Every popular catechism proves the contrary.

Indus, or Sindh ${ }^{*}$; a large river in the western part of Hindoostan, rising on the north of the Himalaya mountains; it flows first north-west, then west, penetrates the chain of mountains in the 36 th parallel, then takes a winding course to the south, and empties by several mouths into the sea of Arabia, between lat. $23^{\circ} 20^{\circ}$ and $24^{\circ} 40 \mathrm{~N}$. Its chicf tributaries are from the east; they were known to the Greeks. One of them is thic Behât or Jelam (Hydaspes), from Cashmere; it joins the Chenab (Acesines), which also receives the Ravy (Hydraotes) ; below the confluence of the Chenab is that of the Kirah (Hyphasis), formed by the junction of the Setledje or Satadrou (Hesidrus) and the Beyal. The country traversed by the Indus and its tributaries is called the Penjab or Punjab. The water of the Indus is wholcsome, and resembles that of the Ganges. Its course, including its windings, is estimated at 1700 miles, and is generally W. of S. The Delta of the Indus is about 150 miles in length along the coast, and 115 in depth. The river is navigable, for vesscls of 200 tons, to the province of Lahore, a distance of 760 geographical miles. From Attack to the Delta, a distance of about 800 miles, its breadtl is generally about a mile, and its depth from two to firc fathoms. The tide sets in with great violence. Owing to the barbarous manners of the tribes which inhabit its banks, little commerce takes place on this river. The bed of the Indus is sand, with a small quantity of mud.

Ines de Castro. Pedro, son of Alphonso IV, king of Portugal, after the death of his wife Constantia (1344), secretly married his mistress, Ines de Castro, who was descended from the royal line of Castile, from which Pedro was

* The name is very ancient. Indus is from the Greek, which borrowed it from the Persian. The Persians seem to have derived it from the Indian Sind'hu, ocean.
also descended on his mother's side. As he steadily rejected all propositions for a new marriage, his secret was suspected, and the envious rivals of the beautiful Incs were fearful that her brothers and family would gain a complete ascendency over the future king. The old king was easily blinded by the intrigues of his artful counsellors, Diego Lopez Pacheco, Pedro Coëlho and Alvarez Gonsalvez. They persuaded him that this marriage would be prejudicial to the interests of his young grand-son Ferdinand (the son of Pedro by his de wased wife). Alphonso asked his son if he was married to Ines. Pedro dared not confess the truth to his father, much less would he comply with the command of the king, to renounce his mistress and unite himself to another. Alphonso again consulted his favorites, and it was resolved to put the unhappy Ines to dcath. The queen Beatrice, mother of the Infant, obtained intelligence of this cruel design, and gave her son notice of it. But Pedro neglected not only this information, but even the warning of the archbishop of Braga, as a rumor intended merely to terify him. The first time that Pedro left Ines, to be absent several days, on a hunting expedition, the king hastened to Coimbra, where she was living in the convent of St. Clara with her children. The arrival of Alphonso filled the unhappy lady with terror; but, suppressing her feelings, she appeared before the king, threw herself with her children at his feet, and begged for mercy with tears. Alphonso, softened by this sight, had not the heart to perpetrate the intended crime. But after he had retired, his evil counsellors succeeded in obliterating the impression which had been made on him, and obtained from him permission to conmit the murder which had been resolved on. It was exccuted that very hour; Ines expired under the daggers of her enemics. She was buried in the convent where she was murdered (1355). Pedro, frantic with grief and rage, took arms against his father, but the queen and the archbishop of Braga succceded in reconciling the father and son. Pedro oltained many privileges : in return for which, he promised, on oath, not to take vengeance on the murderers, Two years after, king Alphonso died ; the three assassins had already left the kingdom, by his advice, and taken refuge in Castile, where Peter the Cruel then reigned, whose tyranny had driven some noble Castilians into Portugal. Pedro agreed to exchange these fugitives for the murderers of Ines. Hav-
ing delivered them to their master, he received, in return, the persons of Pedro Coc̈lho and Alvarez Gonsalvez; the third, Paclieco, escaped to Arragon. The two were then tortured in the presence of the king, in order to make thein disclose their accomplices; their hearts were torn out. their bodies burnt, and their ashes scattered to the winds ( 1360 ). Two years after, lie assembled the clief men of the kingdom, at Cataneda, and solemnly declared on oatl, that, after the death of his wife Constautia, he had obtained the consent of the pope to his union with Ines de Castro, and that he had been married to her in the presence of the archbishon of Guarda and of an officer of his court, Stephen Lobato. He then went to Coimbra. The archbishop and Lobato confirmed the assertions of the king; and the papal document, to which the king referred, was publicly exhibited. The king caused the body of his beloved Ines to be disinterred, and placed on a throne, adorned with the diadem and royal robes, and required all the nobility of the kingdom to approach and kiss the hem of her garment, rendering her when dead that hornage which she had not received in her life. The body was then carried in a fumeral car to Alcobaça. The king, the bishops, the nobles and knights of the kingdon, followed the carriage on foot; and the whole distance, from Coimbra to Alcobaça, was lined on both sides by many thousands of people, bearing burning torches. In Alcobaça, a splendid monument of white marble was erected, on which was placed her statue, with a royal crown on her head. The history of tha unhappy Ines has furnished many poeto, of different nations, with materials for tragedies,-Lamothe, count von Soden, \&c. ; but the Portuguese muse has immortalized her through the lips of Camoens, in whose celebrated Lusiade, the history of her love is one of the finest episodes.

Infallibility; exemption from the possibility of error. God, of course, is infallible, bccause the idea of divinity excludes that of error ; Christ was infallible, and, according to the belief of the Greek and Catholic chureh, and of most Protestant sects, the apostles were also infallible, after the descent of the Holy Ghost. Here, however, the Protestants and Catholics divide. The latter, founding their creed on tradition (q. v.) as well as on the Bible, maintain that the tradition, that is, the general doctrine and belief, handed down from age to age, and taught by the great
body of the pastors, is above the possibility of error ; consequently, also, the councils are infallible, because the councils, according to a Catholic writer, "do not make truths or dogmas, as some Protestants maintain, but merely express the belief of the church on certain points in question :" the truth pronounced, therefore, always existed, but had not been previously declared by the church. From several passages in the Bible, the Catholic infers that the above-mentioned tradition and the councils are under the continual guidance and influence of the Holy Ghost: hence the formula so often repeated by the council of Trent, the last general council of the Catholic church-" the holy council lawfully assembled under the guidance of the Holy Ghost." It is clear, that, if the councils are infallible, it is of the utmost importance for the Catholic to know what are lawful councils. This is a point which, as may be easily conceived, has created great discussions in the Catholic church, because the popes claimed the sole right to convoke councils. (See Council.) So far all Roman Catholics agree respecting infallibility, namely, that Christ, the apostles, the body of the pastors, the traditions of the church, and the councils, are infallible; but they disagree respecting the infallibility of the popc. The ultramontane theologians maintain that the pope is infallible, whenever he pronounces dogmatically on a point of doctrine, to settle the faith of the whole Catholic church. These theologians are therefore called infallibleists. The theologians of the Gallican church do not adnit this infallibility. The assembly of the Frencl clergy, in 1682, laid down the naxim, "that in questions of faith, the sovereign pontiff has the clief part, and that his decrees concern the whole church ; but that his judgment is not irrcformable, until it be confirmed by the acquiescence of the church." Bossuct, in his Defensio Declarat. Cleri Gallic., 2 d part, 1. 12 seq. has treated this point at length. He maintains, that the pope is by no mcans infallible, and that a papal decision is not to be considered infallible until the church acquicsces in it, whicl, he admits, may be done, in general, silently.-In politics, the word infallible is used in a different sense. The position that any political person, or body, is infallible, only means, that there is no appeal from such person or body. When the English public law declares that the king can do no wrong, every one knows that this is merely a political fictiou. But the genuine supporters of di-
vine right believe in a somewhat more real political infallibility of kings.
Infant, in law. By the English, and generally by the American, and so by the Frencl law, persons come to majority at the age of twenty-one years, until which time they are called in law infants, and are under guardianship or tutelage. The laws of some of the U. States, however, make a distinction between males and females, the age of eighteen being that of majority in females. Infants cannot, in general, bind themselves by contracts, as they are supposed not to have sufficient discretion for this purpose. But this is their privilege, and their contracts are accordingly held in general not to be void, but only voidable at their election; and they may elect to avoid their contracts during their minority, but they cannot confirm them so as to be bound by them, until their majority. Infants may possess property, but it must be under the management and control of a guardian. They have not the right of citizens as to voting, and discharging other political functions. But in regard to crimes and punishments, and trespasses and private wrongs, their conduct is regulated by the same laws as that of the other members of the community, in case of their being of sufficient age and discretion to understand their duties and obligations. And for this purpose no gencral limit can be assigned, as some children are inuch more intelligent than others of the same age ; and it will again depend, in some degree, upon the nature of the offence cominitled, or the wrong done, whether a child of any given agc can be considered legally guilty of it, since some offences and wrongs can be more easily understood to be such than others. The law, in gencral, has a tender regard to youth, and does not permit them to be convicted and punished for offences and trespasses, unless it appears clearly that they have sufficient knowledge and discretion to distinguish them to be such.-There are exceptions to the incapacities of minors as to contracting, and these exceptions are made for their benefit. Thus an infant not sufficiently furnished with necessary clothes, food or instruction, by his parent or guardian, and not being innder the imınediate superintendence of the parent or guardian, may make a valid contract, in respect to those subjects, and sucl contract may be enforced against him. Another exception to the general incapacity of infants to contract, relates to the contract of marriage, which, by the law of England and
the U . States, may be made by a male at the age of fourtecn, and by a female at that of twelve. The Frenclı code fixes the age for making a valid marriage contract, in the case of the malc, at eightcen, and in that of the female at fifteen. And as the law gives validity to the principal contract, the prevalent doctrine, though subject to some doubt as to the extent of its application, is, that all contracts collateral and incidental to that of marriage, such as making marriage settlements by the husband, and accepting them instead of dower by the wife, are equally binding on both of the parties, being of age to contract marriage, and, accordingly, not subject to be revoked either before or after coming to the age of majority. If, however, one party be under the age at which a contract of marriage may be made, he or she may, on arriving at such age, either ratify or annul any such contract previously made. The jurisdiction in respect to infants is gencrally vested in either probate or orphans' courts, in the U. States. These courts appoint guardians to take charge of the property of infants, and, in case of the deccase of the father, to take charge of their persons; but, during the life of the father, he has the guardianship and control of the persons of his sous until they are twentyonc years of age, and of his daughtcrs until they are either eighteen or twentyone. At a ccrtain age, howcver, that is, twelve or fourtcen, the clild, in case of the deceasc of the father, may choose his own guardian, who, being approved by the proper judge, is appointed accordingly. (Sce Infante.)
Infart Schools. (Scc Schools.)
Infantado, dukc of, a Spanish grandce of the first class, bom 1773, was educated in France, under the eye of his mothcr, a princess of Salm-Salin. In the war of 1793, he raised a regiment in Catalonia at his own expense. The prince of the Asturias formed an intimatc union with him, becanse the duke showed an aversion to Godoy, the king's favorite. Godoy therefore obtained an order, in 1806, for the duke to leave Madrid. He became, in consequence (1807), still more intimately connected with the prince (sec Ferdinund $V I I$ ), who appointed him, in case of the death of the king, captain-gencral of New Castile. This appointment involved him in the affair of the Escurial ; the attorncygencral of the king demanded sentence of death against the duke and Escoiquiz; but the popular favor towards him, and
the intercession of the French ambassador Beauharnais, prevented the sentencc. In 1808, the duke accompanied Ferdinand VII to Bayome. July 7, 1808, he signed the constitution prepared by Napoleon, at Bayonne, for Spain, and became colonel in the guards of king Joseph; but lie soon after resigned his post, and suminoned the nation to arm against the French, and was consequently denounced as a traitor by Napoleon, Nov. 12, 1808. In 1809, he commanded a Spanish division, but was twice defeated by Sebastiani; and, notwithstanding lis courage, he lost the confidencc of the supreme junta, who deprived lim of his command. He then retired to Seville. In 1811, the cortes appointed him president of the council of Spain and the Indies, and ambassador cxtraordinary to England. In June, 1812, he returned to Cadiz. From hence he went to Madrid, after the French had been driven from that capital, in 1813, but was obliged to withdraw from that city, by the commard of the junta, as one of the chiefs of the Servile party (los serviles)Ferdinand VII, however, recalled the duke, made him president of the council of Castile, and treated him with distingnishod favor. On the establishment of the constitution in 1820, he resigned his place, and retired to his estate near Madrid, but was banished to Majorca. In 1823 , he was appointed president of the regency which was established by the French at Madrid during the war. In August, lic went with Victor Saez to Puerto Santa Maria, to resign the government into the hands of the king, who made him a member of the council of state. The duke formed the plan for the organization of the regiments of guards, and obtained for the king (1824) the sum of 100,000 florins, for lis journey to Aranjuez. In October, 1825, he succeeded Zea as first minister, and changed Zea's dclibcrative junta into a council of state ; but the machinc of state, which the apostolic party checked in its course, could not be put effectually in motion. The duke contributed 500,000 francs, the amount of his income for one year, to the neccssities of the state, and in October, 1826, obtained his disclarge.
Infante, or Infant (a word derived from the Latin, signifying child); the title given, particularly in Spain and Portugal, to the princes of the royal house, the eldest being also called el principe. The princesses at these courts are called infanta, the eldest also la princesa.

Infantry.* If cavalry (q. v.) are to be called l'arme du moment, the great work of the battle is to be performed by the infantry, which composes the greatest part of an army, and is, in point of claracter, the most important part, because it can be used every where-in mountains, on plains, in woods, on rivers, and at sea, in the redoubt, in the breach, in cities and fields, and, depending only on itself, has a great advantage over the two other classes of troops, who, depending, in a great measure, for their efficiency on the strength and the will of brutes, are far less fitted to cndure deprivation, and a noxious climate, to contend with the snows of Russia, or the deserts of Egypt. The infantry are preëminently the moral power of armies; and on no class of troops has a gencral, who knows how to act on his soldiers, such influcnce. Footsoldiers were armed, in old times, with a spear, sometimes with a sword, arrows, lance and sling; at present, with a gun and bayonet, which is generally accompanied with a sword. Sometimes, but rarely, they are armed with pikes. Some foot-soldiers, in most armies, have rifles, generally so constructed that the rifleman may put his short sword on the rifle, to be used as a bayonet, though this has proved of no great service. The sword given to foot-soldiers, in almost all armies, is of but little advantage, and is generally intended principally for ornament, to complete the soldierlike look, rather than to be used in fighting. It serves, however, for cutting branches, to be used in cooking and building luts; but swords might be given to foot-soldicrs, similar to the sailors' cutlasses, which would answer all these purposes, and also the chief endto fight. (See Cutlass.) They ought always to have a sufficient guard for the hand. The foot-soldier has no defensive covering, or very little. The greatest is his mantle, rolled up, aud wom on one shoulder by the Prussian and Russian troops. The helmet or cap protects the head, and epaulettes (q. v.) are sometimes

[^0]used to protect the shoulders. The thick cue, with wire in it, has sometimes been considered a defence to the neck. Infantry is divided into light infantry and that of the line. The latter forms the great mass, which is intended to fight in line, to decide attacks by the bayonet, to make assaults, and is itself again divided into grenadiers (q. v.) and musketeers. The light infantry is particularly intended to serve in the outposts, to act as sharpshooters, to make bold expeditions, and harass and disquiet the enemy. It includes the riffemen. The light infantry form from the 30 th to the 60 th part of an army. The character of military operations, however, has changed of late so much, that, in a good army, it is necessary that the infantry of the line should take part readily in the light service, and the light infantry be ready to fight in the line, from which the riffemen only are excepted. These are only used as sharpshooters. In some armies, there are, besides the riflemen, whole regiments of light infantry ; in others, as in the Prussian army, each regiment has two battalions of infantry of the line, and one battalion of light infantry; in others, as in the Frencl, carh battalion has its grenadiers and tirailleurs (sharpshooters). Infantry is divided into battalions (q. v.), these into companies, these into platoons. Several battalions, two or three, sometimes four and five, form a regiment. The tactics of infautry admit thrce different modes of arranging this species of troops in battle-1. in line, when they are drawn up in line two or three men deep, an order very rarely, if ever, used at present ; 2 . in column, when several lines, three or two men deep, are drawn up one behind the other (see Column, in Tactics, and Square); 3. in dispersed order. (See Sharpshooters.) The cxcellence of infantry depends on their good order in advancing and retreating, perfect acquaintance with their exercises and duties, in a just application of their fire, and great calmness both in assaulting and when assaulted in the square, which is acquired by experience. As long as the infantry remain calm, the general need not lose hope; but all is to be feared when they are disordered, whether through ardor or fear. In countries affording horses, men always prefer, in the carly periods of society, to fight on horseback, and civilization only gives more importance to infantry. Where foot-soldiers exist, at this early period, together with cavalry, they are considered of inferior consequence. The Hebrew
army, however, consisted, for a long time, of infantry only. (See Cavalry.) The Egyptians, likewise, seem to have used cavalry little. With the Asiatics, besides the use of infantry and eavalry, princes and noblemen fought on chariots. The infantry was the part least esteemed, and, with the Persians, consisted of the hearyarmed, the slingers and archers. Probnbly this was one reason of the victories of the Greeks over the Persians, as they had cultivated infantry more, and had given up the ehariots, deseribed by Homer as common in the Trojan war. Even their kings and generals fonght on foot. They had both heary and light infantry. The Greeks were conquered, in their turn, by an improved form of infantry, the columns of Philip of Macedon, which also enabled his son Alexander to conquer the Persians. With the Romans, infantry was the strength of the armies. Their legions, cousisting mostly of infantry, conquered the world. With the ancient Germans and Gauls, also, infantry was considered very important; but when, in the great migration of nations, the Huns, and other Mongolic tribes, arrived in Europe, on small and flect horses, and carried vietory with them, spreading the terror of their arms far and wide, and when the Franks in Northern Spain became aequainted with the Moors, who came from Arabia, and the platean of Asia, on beautiful horses, cavalry was considered as more important. When the feudal system was developed, the horse, of course, was more agreeable to the adventurous knight, than the font service. The crusades, where the Europeans were obliged to fight with the fine cavalry of the Seljooks, favored this tendency still more. Infantry fell into total disrepute, and consisted of the poorer people, who cared little in whose service they fought, in those times of violence and oppression, when a change of rulers made no change in their sufferings; and no reliance could be placed upon them. Among those people who were not in feudal bondage, and fought for the defence of their own liberty, infantry maintained its old importance, is with the Swiss, on several occasions in the 14th and 15th century ; and the penetrating Machiavelli, who burned to free his country from its numberless foreign and native tyrants, saw the great value of infintry, and urged its establishment upon a respectable footing. The invention of gunpowder clanged the whole art of war, and brought infantry again into repute. (See Army.) The Swedish infantry, in
the thirty years' war, was excellent. The arrangement became, in the course of time, more judieious, and all unnecessary manœuvring was avoided. The Austrians, at this time, employed soldiers from their Turkislı frontiers-the Croats and Pandoors, semi-savages-as a sort of irregular light infantry; and other armies had troops of a similar character; but they were so rude and disorganized, because their warfare was little better than legalized robbery, that Gustavus Adolphus would not admit them into his forces; but Frederie the Great again establisher, free corps (q.v.) during the seven years' war. Infantry remained without much change in the 18 th century. Prince Leopold of Dessau, during this time, first introduced, in the Prussian arny, the iron ramrod, the lock-step, and several other inprovements. The bayonet having been invented already in the iniddle of the 17th century, came inore and more into use, and enabled the squares to resist the cavalry; but a great change in the use of infantry took place towards the end of the 18th century, when, in the American war of independence, the people, being obliged to contend, without discipline, against well trained troops, adopted the irregular mode of fighting, protected by trees or other objeets, being, at the same time, mostly skilful marksinen. The efticiency of this method of fighting was evident; and when, in 1791, the French revolutionary war began, the French sent swarms of tirailleurs against the allies, and injured them exceedingly. In the wars from 1791 to 1802, the Frencl2 greatly improved this way of fighting, which, in the interval of peace that followed, was reduced to a system, the consequences of which were seen in 1805, 1806, and 1807, against the Austrians, Prussians, and Russians. These nations, after the disasters whieh they suffered, adopted the same system, as well as the greater use of columns, particularly as the ordinary mode of arranging the troops before they came into the fire. Under equal circumstances, well trained infantry is almost uniformly successful against any other kind of troops.
Inferle, in Roinan antiquities; sacrifices offered to the infernal deities for the souls of the departed. Some writers have thought that they are the origin of the exequies of the Catholic chureh.

Inferno (Italian for hell); the name of the first part of Dante's grand poen. (See Dante.)

Infinitesimals. (See Calculus.)

Infinitive; the indefinite mode, in which the verb is represented without a subject. As the verb expresses an action, or a state, it generally bulongs to a subject whose action or state is expressed; but if we wish to express the mere idea of this action or state, we use the infnitive, which therefore, in many languages, is employed without further change, as a substantive-for instance, in Greek and Gerinan-only preceded by the neuter article; but, as the verb expresses an action or state, under certain conditions of time, the infinitive can also express the action or state in the present, past or future, though these conditions are not expressed in all languages by peculiar forms; nay, some languages have not even a peculiar form for the infinitive present, and must express it by some grammatical contrivance, as is the case in English. (See Verb.)
Inflammation of the Intestines. (See Enteritis.)
Inflexion, Point of, in the theory of curves; that point in which the direction of the curve changes from concavity to convexity, and vice versa. It is particularly called punctum inflexionis, at the first turning, and punctum regressionis when the curve returns. These points are of much interest in the theory of the functions.
Influenza (Italian, influencc); a term used in medicine to denote an epidenic catarth which has, at various times, spread more rapidly and extensively than any other disorder. It has seldom occurred in any country of Europe, without appearing successively in every other part of it. It has sometimes apparently traversed the whole of the Eastern continent, and, in some instances, has been transferred to America, and has spread over this continent likewise. The French call it la grippe. In all the known instances of its occurrence, from the 14th century, its phenomena have been pretty uniform, and have differed little, except in severity, from those of the common febrile catarrh. In 1802, such an influenza attracted universal attention. In February, it set out from the frontiers of China, traversed all Russia, extended along the Baltic, to Poland and Denmark; reached Germany and Holland in April and May, and France and Spain in June. It could cven be followed to Gibraltar. No sex, age or state of health was exempted. It showed itself chiefly as a severe cold, attended with a catarrhal fever of a more or less inflammatory or bilious character.

Gencrally, it passed over within a few days, yet, in some places, it gave a check to business. Few persons died of it, except those who were afflicted at the same time with other diseases, but almost every one was attacked. G.F. Mort, a German physician, attempted to prove that Europe suffered periodically from the influenza. He maintained that, during the greater part of the period which had elapsed since 1712, this epidemic had visited Europe, at intervals of about 20 years, and still more frequently in the early part of the period. Accordingly, he prophesied a new one for 1820 , which, however, did not happen.

Informer. To encourage the apprehending of certain felons, divers English statutes of $1692,1694,1699,1707,1720$, 1741 and 1742, granted rewards of from 10 to 50 pounds sterling, to such as should prosecute to conviction highwaymen, counterfeiters, and thieves. These acts were passed at the time of the troubles in Great Britain, occasioned by the risings of the Jacobites, when, with the increase of political criminals, the number of private offenders was thought to be increasing also. By the law of 1699 , besides the $£ 40$, an immunity from all parish offices foverseer of the poor, churchwarden, \&c.) was allowed to any person who shoald prosecute to conviction a felon guilty of burglary, horse-stealing, \&c. The Tyburn tickets (as the certificates of exemption were called) could be sold, as the first was of no use to a man who received a second, and were actually sold in large cities, like Manchester, at high prices (from 250 to 300 pounds sterling). The amount of the rewards (without including the Tyburn tickets), in the 40 counties of England, for 1798, was £7700, and, in 1813, it had risen to $£ 18,000$. The abuses which originated from this system were horrible. The police officers made a trade of it, by seducing poor, ignorant persons, chiefly foreigners, to crimes (principally the issuing of counterfeit money), in order to gain the reward by prosecuting them for the offence. A certain McDaniel confessed (1756) that he had caused, by his testimony, 70 men to be condemned to dcath. He was brought to the bar with two others, but the people, fearing they were to be acquitted, treated them with such violence, that they were killed on the spot. In 1792, a similar case lappened, in which 20 men had become the victims of an informer. A more recent case, in 1817, excited greater indignation. Four
police officers, who had entered into a conspiracy against the life of poor men, were condemned to death, but, on account of some judicial formalities, were released by the 12 judges (the united members of the three chicf tribunals in Westminster hall), and escaped without punishment. They had induced several poor women to pass counterfeit money, and seized them in the act. In other cases, such men endeavored to change a small offence into a capital crime; for instance, if one had stolen the work-bag of another, they swore that it had been tied with a string or ribbon to the arm, and torn from it by violence, by which theft was transforned into robbery, and, instead of imprisonment, the punishment was death, and the informer received the price of blood (£50). A revolting case of this kind happened (1817) when two soldiers, who were wrestling with another, in sport, for a wager of one shilling, were condemned for robbery by the artifice of a police officer, and escaped with the greatest difficulty from an undeserved punishment. Small offences were kept secret by the police officers, and the perpetrators watched, until, as they terined it, they weighed 40 pounds sterling. For prosecution to conviction of any person attempting to pass counterfeit bank notes (which is a capital crime), the bank pays $£ 30$, and, for the prosecution of a person issuing counterfeit coin, $£ 7$. Several persons have become the victims of this provision. The police officers very well knew the counterfeiters, and those who made it a trade to induce women and children to change their false notes, and deliver thein into the hands of the police; but they spared the true authors of the crime, as good customers, and denounced the poor wretches employed by them, who were condemned by the jury upon the slightest suspicion, and executed without mercy. Alderman Wood asserted, in parliament, that, in the year 1818, at a visitation of the prison, he had found 13 men, mostly Irishmen and Germans, who had received counterfeit money from others, to buy bread, had been seized in the act, and condemned, without any regard to their assertions that they were ignorant of the character of the money. These rewards were abolished in 1818, by an act of parliament ( 58 George III, c. 70), but the abuse in respect to the bank notes remained as before. The desire of obtaining the rewards for the conviction of offenders has recently tempted the police officers to prosecute unhappy individuals,
who, during the hard times, complained loudly against the government, and accused it of injustice and hostility to the middling class of citizens.

Infula was, with the Romans, the wide, white woollen omament of the head of priests, vestals, and even of animals offered for sacrifice, the hiding of the head being considered a mark of humiliation. At later periods, the imperial governors wore the infula as a sign of dignity, and, as such, it was adopted, in the 7th century, by the bishops of the Catholic church, who continue to wear it on solemn occasions, and have it, instead of a crown or helınet, in their coat of arms. It consists of two pieces, turning upward, of a pointed forin, one before and one behind, so that in the middle there is a hollow. They are of pasteboard, or tin, and covered with white silk, the one in front being ornamented with a cross. The bishops of the church of England have an infula still in their coat of arms, but never wear it on the head. With them, however, it is generally called mitre, from mitra, which, according to Von Hanmer, originally meant the globular part of the head-dress of Persian kings, indicating, originally, the ball of the sun, which the Persian kings wore on the crown, and the Egyptian on the head. Mithra was the genius of the sun, with the Persians. (See Mithra.)

Inge; a Saxon word signifying field, appearing in many German geographical names, as Thüringen, Tübingen, Zophingen, \&c.; also in Dutch names, as Gröningen.

Ingemann, Bernhard Severin, born in 1789; one of the most distinguished Danish poets. The works of his countryman OEhlenschläger had great influence upon his productions. His patriotic odes, particularly that to the Danebrog (the Danish Flag), shows great poetical spirit ; but his epic, the Black Knights (Copenhagen, 1814), an allegoric poem, in nine cantos, like Spenser's Fairy Queen, often suffers from the length to which the allegory is protracted, though it contains real beauties. Masaniello and Blanca are Ingernann's most celebrated tragedies. He lias also written much in prose.

Ingenhouss, John, a naturalist, born at Breda, in 1730, practised physic in his native city, and afterwards went to London, where he was well received by Pringle, the president of the royal society. The empress Maria Theresa, having lost two children by the small-pox, ordered her ambassador at London to send her an

English physician, to vaccinate the others. Pringle rccommended Ingenhouss, who received honors and presents, at Vienna, for the easy operation, which was not then much practised. He then travelled, and finally settled near London, where he died 1799. He was the author of several treatises on subjects of natural history, which he enriched by several important discoveries.
Ingot, in the arts, is a small bar of metal made of a certain form and size, by casting it in moulds. The term is chiefly applied to the small bars of gold and silver, intended either for coining or exportation to foreign countrics.
Ingria; a former province of Sweden, on the bay of Finland. It belonged, as early as the 13tll century, to Russia, was inhabited by the Ingrians or Ishorians, and received its name from the river Inger, the former name for Ishora, when the Swedes took possession of it in 1617. In 1700, the Russians reconquered it It forms, at present, a part of the government of St. Petersburg, in which the capital, St. Petersburg, is situated.
Ingulphus, abbot of Croyland, and author of the listory of that abbey, was born in London about 1030. He received his early education at Westminster, and afterwards went to Oxford, where he applied to the study of Aristotle, and, as he gays, "clothed hinself down to the heel in the first and second rhetoric of Tully." In the year 1051, Willian, duke of Normandy, then a visitor at the court of Edward the Confessor, made Ingulphus, then of the age of 21 , his secretary. He accompanied the duke to Normandy, afterwards went on a pilgrimage to the Holy Land, and, upon his return, entered into the order of the Benedictines, at the abbey of Fontenelle, in Normandy, of which he became prior. On the acquirement of the crown of England by William, Ingulphus was created abbot of the rich monastery of Croyland. He died in 1109. His listory of the monastery of Croyland is interspersed with many particulars of the English kings. It was published by sir Henry Savile, in 1596, among the Scriptores post Bedam, and has been reprinted both at Frankfort and at Oxford, the latter of these editions, dated 1684, being the most complete. The history of Croyland comprises from 664 to 1091.

Ininabitancy. (See Domicil, vol. iv, p. 613.)

Inheritance. (See Descent, and Estate.)
vol. vif.

Injections belong partly to surgery and partly to anatomy. In surgery, fluids, different, according to the different cffects desired to be produced, are thrown, by means of a small syringe, into the natural cavities of the body, or those occasioned by disease, partly to remove unhealthy matter, and partly to bring the remedy immediately to the seat of the disorder, and thus effect a cure. Wounds and sores are usnally cleansed in this way, when they extend far below the skin, or an excitement and cure are produced by the same method. Cato the Censor had one applied to himself when he suffered from a fietula. In diseases of the nose and the cavitics connected witl2 it, in those which have their seat in the neck, in disorders of the ears, the bladder and urethra, the uterus and vagina, and for the radical cure of hydrocele, injections are often used, and with important advantages. Pure warm water is injected, with the highest success, for the removal of pus, blood, or even foreign bodies. Sometimes astringent medicines, to restrain excessive evacuations, sometimes stimulating ones, to excite inflammation, as in hydrocele, or even to increase and improve evacuations, sometimes soothing medicaments, to mitigate pain, \&c., are added to the water. In diseases of the throat which hinder the patient from swallowing, and thus tend to produce death by starvation, nourishing fluids are injected into the stomach. The blood of beasts, or of men, has been sometimes injected into the veins, which is called transfusion. In the same way, medicines are introduced immediately to the blood; for instance, tartar emetic to excite romiting, if a foreign body is fixed in the throat so firmly as to restrain the patient from swallowing, and can neither the moved up nor down. According to the place where the injection is to be made, the instrument must be either longer or shorter, a straight or a curved tube. The size is regulated by the quantity of the liquid to be injected, and the force which is to be applied. Anatomists inject into the vessels of bodies various colored fluids, which are liquid when hot, and coägulate when cold, to make the smaller ones visible. Thus the arteries, veins and lymphatic ressels arc injected. Anatomy has carried this art so far as to make very minute vessels visible to the naked eye.

Injunction is a prohibitory writ, issuing by the order of a court of equity, restraining a person from doing some act which appears to be against equity, and
the commission of which is not punishable by the criminal law. An injunction may be obtained to stay waste, as where a tenant for life, or years, is proceeding to cut down timber which he has no right to cut; to prevent vexatious litigation in the courts of common law, as where a man persists in bringing actions to recover an estate, notwithstanding repeated failures; to enable a man to make a just defence, which he could not make at common law, as where the legal defence to a claim rests exclusively, or to a great degree, in the knowledge of the party advancing the claim; to prevent infringement of a copyright, or a patent, \&c.

Injuria (Latin), in law ; properly, every act by which some one suffers unlawfully. In the Roman law, the obligations arising from such violations formed a class by theinselves, which were regulated by the lex Aquilia, so called because the tribume Aquilius (in the sixth century, between the destruction of Carthage and Corinth, and during the beginning of the civil wars) had caused the law to be enacted. At a later period, the right to ask legal redress was also extended to a mere violation of the honor of a person; and, in the laws of modern nations, this has been retained, though with a great variety of views. In the middle ages, the duel was authorized by law; and, when the laws took from individuals the right of redressing their own wrongs, it was deemed necessary to offer some other mode of redressing injuries to honor, which had been one of the most fruitful sources of duels. The common law of England punishes injuries to honor only when they amount to malicious attempts to blacken a man's reputation (see Libel, and Slander); but according to the Prussian code, a person may be sued for having used insulting language, or even insulting gestures, on the mere ground of violation of honor, and not of any other damage inflicted thereby. But, of late, the right has been considerably restricted; for instance, the complaint must be entered within a short period fixed by law, \&cc. According to the laws of the German states, the petition of the complainant may be to have the amende honorable made him, as by an apology for the insult, \&c., or to have the offender punished. Legislation and adjudication on injuries to honor are matters of much delicacy, beyond the limits of the English law, which makes reparation only in cases where the offence has produced, or is directly calculated to produce injury, to a man, in his character or business.

Ink, Writivg. This material can be prepared of various colors, but black is the most cominon. Doctor Lewvis gives the following receipt:-In three pints of white wine, or vinegar, let three ounces of gall-nuts, one ounce powdered logwood and one ounce green vitriol be steeped half an hour; then add $1 \frac{1}{2}$ ounce gum Arabic, and, when the gum is dissolved, pass the whole mixture through a hairsieve. Van Mons recommended the following preparation:-Let four ounces gallnuts, $2 \frac{1}{2}$ ounces sulphate of iron, calcined to whiteness, and two pints water, stand in a cool place 24 hours; then add $1 \ddagger$ ounce gum Arabic, and keep it in a vessel open, or slightly stopped with paper. Another recipe is this :-Take one pound gallnuts, six ounces gum Arabic, six ounces sulphate of iron, and four pints beer, or water; the gall-nuts are broken, and stand as an infusion 24 hours; then coarselypounded gum is added, and suffered to dissolve; lastly, a quantity of vitriol is introduced, and the whole passed through a hair-sieve. It is generally observed, that unboiled inks are less likely to fade than others. A good red ink is obtained as fol-lows:-A quarter of a pound of the best logwood is boiled with an ounce of pounded alum and the same quantity of cream of tartar, with half the quantity of water, and, while the preparation is still warm, sugar and good gum Arabic, of each one ounce, are dissolved in it. Solutions of indigo with pieces of alumina, and mixed with gum, form a blue ink. Green ink is obtained from verdigris, distilled with vinegar and mixed with a little gum. Saffron, alum, and gum water, form a yellow.-It is not well ascertained how soon the present kind of writing ink came into use. It has certainly been employed for many centuries in most European countries; but the ancient Roman inks were, for the most part, of a totally different composition, being made of some vegetable carbonaceous matter, like lainp-black, diffused in a liquor. The Chinese, and many of the inks used by the Oriental nations, are still of this kind. Sometimes the ink of very old writings is so much faded by time as to be illegible. Doctor Blagden (Philosophical Transactions, vol. 77), in his experiments on this subject, found that, in most of these, the color might be restored, or, rather, a new body of color given, by pencilling them over with a solution of prussiate of potash, and then with a dilute acid, either sulphuric or muriatic; or else, vice versa, first with the acid, and then with the prussiate. The acid dissolves the oxide
of iron of the faded ink, and the prussiate precipitates it again of a blue color, which restores the legibility of the writing. If this be done neatly, and blotting paper laid over the letters as fast as they become visible, their form will be retained very distinctly. Pencilling over the letters with an infusion of galls also restores the blackness, to a certain degrec, but not so speedily, nor so complctely.
China or Indian Ink. The well known and much admired Indian, or China ink, is brought over in small oblong cakes, which readily become diffused in water by rubbing, and the blackness remains suspended in it for a considerable time, owing to the extreme subtilty of division of the substance that gives the color, and the intimacy with which it is united to the mucilaginous matter that keeps it suspended. Indian ink does, however, deposit the whole of its color by standing, when it is diffused in a considerable quantity of water. Doctor Lewis, on examining this substance, found that the ink consisted of a black scdiment, totally insoluble in water, which appeared to be of the nature of the finest lamp-black, and of another substance soluble in water, and which putrefied by keeping, and, when evaporated, left a tenacious jelly, exactly like glue, or isinglass. It appcars probable, therefore, that it consists of nothing more than these two ingredients, and probably may be imitated with perfect accuracy by using a very fine jelly, likc isinglass, or size, and the finest lamp-black, and incorporating them thoroughly. The finest lamp-black known is made from ivory shavings, and thence called ivory black.

Printers' Ink. This is a very singular composition, partaking much of the nature of an oil varnish, but differing from it in the quality of adhering firmly to moistened paper, and in being, to a considerable degree, soluble in soap-water. It is, when uscd by the printers, of the consistence of rather thin jelly, so that it may be smeared over the types readily and thinly, when applied by leather cushions; and it dries very specdily on the paper, without running through to the other side, or passing the limits of the letter. It is made of nut-oil, boiled, and afterwards mixed with lamp-black, of which about two ounces and a half are sufficient for 16 ounces of the prepared oil. Other additions arc made by ink-makers, of which the inost important is generally understood to be a little fine indigo in powder, to improve the beauty of the color. Red printers' ink is made by adding to the varnish
about half its weight of vermilion. A little carmine also improves the color. (Encyclopédie, Arts et Métiers, vol. iii, page 518.)

Colored Inks. Few of these are used, except sed ink. The prcparation of these is very simple, consisting either of decoctions of the different coloring or dyeing materials in water, and thickened with gum Arabic, or of colored metallic oxides, or insoluble powders, merely diffused in gum-water. The proportion of gum Arabic to be used may be the same as for black writing ink. All that applies to the fixed or fugitive nature of the several articles used in dyeing, may be applied, in general, to the use of the same substance as inks. Most of the common water-color cakes, diffused in water, will make sufficiently good colored inks for most purposes.

Sympathetic Inks; liquids without any observable color ; any thing may be written with them invisibly, and made visible at will by certain means. Even Ovid informed maidens who were closely watched, that they might write to their lovers whatever they pleased with fresh milk, and when dry sprinkle over it coal-dust, or soot. In modern times, chemistry has taught the preparation of many improved inks of this nature:-Form a solution of green vitriol in water, and add a little alum , to prevent the yellow iron precipitate from sinking, which always rises in case the acid does not prevail ; this solution forms a sympathetic ink, which appears extremely black when it is moistened with a saturated infusion of gall-nuts. A sympathetic ink may likewise be formed from common black ink. For this purpose, the color must be destroyed by a mixture of nitric acid. Any thing written with it becomes visible on moistening it with a solution of some volatile alkali. The famous ink, invisible in the cold, and visible at a moderate temperature, may be prepared without much difficulty. (See Coball.) Any writing with this ink is invisible; but, on the application of a certain degree of heat, it becomes a beautiful greenish blue. As soon as it cools again, the color vanishes; and thus, by alternately heating and cooling it, the writing can be made visible or invisible. Care must be taken not to heat it more than is required to make it plain, for othervise it always continues visible. With this sympathetic ink landscapes may be drawn, in which the trees and the earth lose their verdant appearance in the winter, but may be changed again into a spring landscape, at will, by exposing them to a
gentle heat. This has been already tried on screens.

Inland Naigation.-American Canals. An account of canals, except those of America, is given under the article Canals. An account of river navigation will be found under the article Rivers, navigable. In the prescent article, a view will be given of American canal navigation, as it presents itsclf in 1831; beginning at the northerly part of the continent, and proceeding southerly. It is difficult to obtain exact information relating to the works of this description in Amcrica. The publications on the subject contain immense masses of matter, of very littlc interest or practical utility, and, at the same time, onit a definite description of the works themselves, and give a very imperfect account of thic obstacles overenme in their construction, or the amount of busincss done upon then. Some of the works mentioned in the following list, as will be scen in the account of them, are inerely projected, and othes are not yet completed; and it is not casy, at the time of making this artiele, to ascertain, precisely, what degree of progress has been made in some of them; nor is it very important to do so, since the state of things is rapidly elanging in this respect; insomucl, that what would be an exact account of some of them at the time of making this article, would cease to be such at the time of its publication.

Caniles of Canada.-Welland canal was constructed from 1824 to 1829. Its length is $41 \frac{1}{2}$ miles; its breadth at the surface 58 feet, at the bottom 26 fect, and its depth 8 feet. This line of navigation passcs from the mouth of Ouse river, on lake Erie, north-eastward, to strike at a point of the Welland or Chippeway river; and, taking the course of that river downwards, 11 miles, proceeds from thence northward, across the mountain ridge, and down to the mouth of Twelve-Mile crcek, on lakc Ontario. The distance from lake to lake is 43 miles. The deepest cutting, near the summit, is 56 feet. It has 35 locks, 125 to 100 feet long, 32 to 22 feet wide. The capital stock of the company is 200,000 pounds; the number of shares, 16,000 . This canal admits of sloop navigation, and opens a communication between lake Erie and lake Ontario, in the same vessels which navigate those lakes, and saves discharging and reloading cargoes. One of the purposes of its construction was, to prevent the trade of that part of Upper Canada which communicates with the great western lakes, from
being diverted to New York, by the route of the Erie canal. It was an ardnous and stupendous work, as appears sufficiently from the dimensions and length of the canal. Its cxccution was, however, facilitated by taking advantage of natural channels of slack-water.-Rideaı canal is a projected navigation for 122 miles, from Hull, on the great Ottawa, by the course of the river Ridean and a chain of lakes, to the Gamnanoqui, on the St. Lawrence, at the Kingston mills, five miles from the city of Kingston. The plan of communication is calculated for sloop navigation. The expense, it is supposed, may amount to $£ 1,000,000$.-La Chine canal is 10 miles in length, from Montreah, on the St. Lawrence, directly to Upper La Cline, on lake St. Louis, cutting off a bend in the river, and avoiding the rapids of St. Louis. Cost, $£ 220,000$; for sloop navigation.-L'Isle Perrault canal is a projected work of five miles in length, from St. Louis lake, at the foot of St . Annc's rapids, to the head thereof, by a canal passing either at the back of St. Aune's, or else across the Isle Perrault.Grenville canal is a projected work of 12 miles in length, from the head of Long Sault or Ottawa falls, at the village of Grenville, by a lateral canal, to the foot of Carillon rapids, opposite Point Fortune ; for sloop navigation. Estimated cost, £250,000.-La Petite Nation canal is a projected artificial channel of navigation, of 50 miles in length, from the foot of Carillon rapids, at Hawkesbury, on the Ottawa, across the peninsula, to the St. Lawrence, at Prescott.

Canals of the United States. Immensc innprovements lave been made in inland navigation, botlı by rivers and canals, during the 15 years from 1816 to 1831. More than 1000 miles of canal have becn made during that time, besides vast improvements in river navigation; and, in 1831, the numerous works of this sort, already commenced, are prosecuted with unrcrnitted activity. Only a very general outline of thesc improvements, so important, hoth in a political and economieal view, can be given in this work.

Canals in New England.-Cumberland and Oxford canal. This navigation, part ly natural and partly artificial, extends about 50 miles, from Portland to Sebago pond, in Maine. The head of the canal is in the town of Bridgeton, at the termination of Long pond, which is 10 miles in length. This pond, together with Brandy pond and Sebago pond, with their outlets, constitutes $27^{\circ}$ miles of the ca-
nal ; 24 locks only are necessary. Tolls are, per mile, for planks, 6 cents per 1000 feet; shingles, 2 cents a thousand; wood, 6 cents a cord, per mile ; timber, 6 cents a ton, per mile ; goods in boats, 6 cents a ton; boats, rafts, \&cc., 6 cents additional for each lock.-Middlesex canal was completed in 1808. It opens a communication between Boston harbor and the Merrimack river, a distance of 27 miles. It has but one summit level, 104 feet above Boston harbor, and 32 above the level of the Merrimack, at the place of its junction with that river in Chelmsford, above Pawtucket falls; on which falls are situated the great manufacturing establishments of Lowell. Its breadth at the surface is 30 feet, at the bottom 20 feet, and its depth of water 3 feet. It makes part of a line of water communication between Boston and the central part of New Hampshire. There are on this canal 20 locks of different lifts, of which the highest is 12 feet. The locks are 75 feet long in the clear, 10 feet wide at the bottom, and 11 feet at the top. The number of aqueducts, over rivers and streams, is 7; and there are 50 bridges, having stone abutments 20 feet apart. Cost, $\$ 528,000$; constructed by the Middlesex canal company, incorporated in 1789. The tolls, in 1824, were, for boats, $\$ 14,184$; rafts, $\$ 5770$; in the whole, $\$ 19,954$.-Bow canal was made in 1812, and is the continuation of a line of navigation, of which the Middlesex canal constitutes a part. Its length is $\frac{1}{3}$ mile; the lockage 25 feet. Its dimensions, and the size of the locks, correspond to those of the Middlesex canal, being designed to pass the same boats. It passes a fall in the Merrimack of 25 feet, with 4 locks. A dam is constructed across the river, at the liead of the falls. Expense of the whole work, $\$ 19,000$ - Hooksett canal, another work on the Merrimack, 50 rods in length, is also a part of the same line of navigation, and passes Hooksett falls, in that river, by a lockage of 16 feet. These fills are lower down the river than the Bow canal. It has three locks. Cost of the whole works, $\$ 13,000$.-Amoskeag canal, one mile in length, is another part of the same navigation, being eight iniles farther down the Merrimack, at Amoskeag falls, which are passed by this canal with a lockage of 45 feet. It has 9 locks, and several dams. Cost, \$60,000.-Union canal, a part of the same navigation, having 7 locks in 9 miles, is immediately below the Amoskeag canal, and comprehends 6 sets of falls. Cost, $\$ 35,000$. Cromwell's falls, which are below, on the same river,
are locked at an expense of $\$ 9000$; and 15 miles lower down are the Wiccassee falls, which have been locked at an expense of about $\$ 12,000$. The line of navigation above described, commenced at a very early period in the history of canal navigation in the $\mathbf{U}$. States ; and the undertaking evinced great public spirit and enterprise on the part of the persons who engaged in it, whose inadequate pecuniary remuneration has, however, operated as a discouragement from similar enterprises in New England.-Pawtucket canal, a branch of the navigation above described, is a channel of about a mile and a half in length, passing Pawtucket falls on the Merrimack, and facilitating the navigation of that river from Chelmsford, where the Middlesex canal meets the river, to Newburyport, situated near its mouth. It is in the town of Lowell. A dam is made across the Merrimack, above those falls, a short distance below the termination of the Middlesex canal, for the purpose of regulating the height of water for supplying the Pawtucket canal, which was originally made mercly for the passage of rafts and boats, and corresponded in dimensions to the other works on the same river above, and to the Middlesex canal. About the year 1820 , the proprietors of the manufacturing establishments, which have, during the short subsequent period of about 10 years, grown to so surprising a magnitude, and which are still rapidly increasing, purchased the Pawtucket canal, and eularged its channel to the dimensions of 90 feet in breadth, and 4 in depth, which not only serves for the original purpose of this canal, in passing thcse falls, which are in the whole about 32 feet in height, but also supplies immense hydraulic works, used for the purposes of manufacturing.Farmington canal was commenced in 1825 , upon the plan of connecting, by a line of 78 miles of entirely artificial navigation, Connecticut river at Northampton, in Massachusetts, with New Haven harbor. It is 36 feet in breadth at the surface of the water, 20 at the bottom, and 4 feet in depth; and passes from New Haven to Farmington, in Connecticut, and from thence to Colebrook. The locks are 80 feet in the clear, and 12 feet wide. Its commencement at New Haven is from a hasin of 20 acres capacity. It is (in 1831) nearly completed, and wholly under contract, from New Haven to Southwick ponds, in Massachusetts, a distance, by survey, of 58 miles; lockage, 218 ft .-Hampshire and Hampden canal is a projected
work, of 20 miles in length, in Massachusetts, in continuation of the Farmington canal, from Southwick ponds to Northampton; loekage, 298 feet.-Enfield canal, and the three others next mentioned, are short cuts at the different falls on Connectieut river. This was the latest of these improvements, having been commenced by a company, under a charter granted in 1824. It is $5 \frac{1}{2}$ miles in length, and passes the Enficld falls, in the state of Connecticut. It has three stone locks, each 10 feet lift, 90 feet by 20 . This canal adds 40 miles to the steanboat navigation up the Connecticut. Before the construction of this work, these rapids were navigated by the boats passing along the river, but they were a great impediment to the navigation. This canal, like the Pawtucket at Lowell, on the Merrimack, is intended both to facilitate navigation and supply hydraulic works. It is an important improvement, and does great credit to the undertakers.-South Hadley canal, the next artificial channel of navigation up the Connecticut, is in South Harlley, in Massachusetts. It is 2 miles in length, and overcomes the rapids in the Connecticut at the place, amounting to about 40 fect. There is a eut in this canal, 40 fect deep, 300 feet long, in solid rock. This improvement, and also the one next mentioned, were undertaken by a company which was chartered in 1792.-Montague canal, in the town of Montague, also in Massachusetts, is the next in order, bigher up the Connecticut. It is 3 miles in length, 25 feet broad and 3 deep. By this canal the navigation passes the Montague falls, which commence above Miller's river; it terminates above the mouth of Deerfield river; lockage, 75 feet-Bellows Falls canal is a short artificial channel, higher up the Connecticut, in the state of Vermont, for the purpose of passing Bellows falls.-Blackstone canal (see that article for a description of this canal). A few niles above Providence harbor, this canal meets the Blackstone or Pawtucket river, and passes up along its western bank a great part of its route, and is wholly supplied by the waters of this river and its tributary streams and ponds, some of the latter being made use of as extensive reservoirs, whereby, in the dry season, all the water used by the canal, and so taken away from the various manufacturing works established at the different falls on the river, is replaced, and supposed, indeed, to be more than compensated for. This canal facilitates and greatly increases the trade from the
northern part of the state of Rhode Island, and the interior central part of Massuehusetts, to the market of Providence, that of New York, and the ports of the Middle and Southern States.

New York Canuls. The state of New York las an extensive system of artificial inland navigation, connecting the navigation of IIudson river with that of lake Champlain, lake Ontario, lake Erie, and Delaware river.-Champlain canal is $643^{2}$ miles in length, 40 feet wide at the surface, 28 feet at the bottom, and 4 feet in depth. This, and the Erie, Oswego and Cayuga canals, were inade by the state, at the public expense, and remain under the administration of the government, as public property. The Champlain canal passes froin Albany to Whitelall, on lake Claanplain, connecting IIudson river with that lake. This eanal commences at Whiteliall, at the head of sloop navigation on lake Champlain, and, inmediately rising, by 3 locks, 26 feet, proeeeds on a level $5 \frac{1}{2}$ miles up the valley of Wood creek, enters that streanl, and follows its channel for 3 miles, to a lock of 4 feet lift, which extends the navigation up the creek $3 \frac{1}{2}$ iniles farther, to Fort Anne village, where, after rising by 3 locks 24 feet, it leaves the creek, and proceeds 12 miles on a summit level, through the towns of Fort Anne and Kingsbury, to Fort Edward. Here it receives the waters of the IIudson, above the great dam. in that river, by a feeder of half a mile in length, and soon after descends 30 feet by 3 locks, into the IIudson, below the dam. The great dam is 900 feet loug, 27 feet high, and throws back an ample supply of water for the sumınit level. From Fort Edward, the navigation is continued, for the present, down the channel of the Hudson, 8 miles, to the head of Fort Miller falls; around which it is carried by a canal on the east bank of the river, half a mile long, and having 2 locks of 18 feet descent. From Fort Miller, the river is made navigable for near three miles farther, by a dam at the head of Saratoga falls, just above which the canal leaves the river on the western side, and proceeds on a level for 17 miles, through Saratoga and Stillwater, Schuyler's flats, and over Fish creck, by an aqueduct, to a point two miles below Stillwater village From this point to Waterford, where the canal enters the Mohawk, and meets tha Erie canal, a distance of 9 miles, it descends 86 feet by 9 locks, 6 of which are in the town of Waterford. From Waterford, the IIudson is now made naviga.
ble for sloops to Troy, $3 \frac{1}{2}$ miles below, by a dam across the river at the latter place, 1100 feet in length, 9 feet high, and having a sloop lock, at its eastern extremity, 114 feet long, 30 feet wide, 9 feet lift. The cost of this lock and dam was \$92,270.-Erie canal, extending from Albany on the Hudson, to Buffilo on lake Erie, is 363 miles in length, 40 feet wide at the surface of the water, 28 feet at the bottom, with a depth of 4 feet of water. It has 2 suminit levels in this distance, and the whole lockage is 692 feet. It was completed in 1825. The locks are 83 in number, all of stone masonry, each 30 feet long in the clear, and 15 feet wide. From Buffalo, the canal procceds 10 miles to 'Tonnewanta creek. The 'Tonnewanta is then used for 12 miles; thence by a deep cut $7 \frac{1}{2}$ miles to Lockport, where it descends 60 feet by 5 locks; thence oll a uniform level 63 miles to Rochester, where it crosses the Genuesee, by an aqueduct of 9 arches, each 50 feet span. Here it is supplied by a navigable feeder, 2 miles long, connecting it with the Gennesee; thence easterly to Montezuma, $67 \frac{1}{2}$ miles, in which distance it descends 126 feet, and crosses Mud creek twice by aqueducts. At Montezuina, the level of the canal ascends, and, in a distance of 27 miles, to Salina, rises 67 feet. In Salina commences the 'long level,' a distance of 69 miles, to Frankfort. From Frankfort, the canal descends, in 12 miles, 49 feet, to the liead of Little Falls, where are 5 lacks, and an aqueduct over the Mohawk, of 3 arches. From the foot of Little Falls, the caual continues for 70 miles down the valley of the Mohawk, on the south side of the river, to Niskayuna, 4 aniles below Schenectady, where it crosses the Mohawk by an aqueduct 748 feet long. The descent from the foot of Little Falls to Niskayuna is 86 feet. After crossing the Mohawk, the canal proceeds along the north bank thercof for 12 miles, and then recrosses by an aqueduct 1188 feet long, and passes by the Cohoes falls, where, ill the space of 2 miles, it descends 132 feet, by 16 locks. A little below the Colioes falls, a feeder enters from the Mohawk, and connects the Erie with the Champlain canal; and the united work then proceeds to Albany, $8 \frac{1}{2}$ miles, in which distance it descends 44 feet, and terminates in the tide waters of the Hudson. Cost, \$7,602,000.-Osivego caral is a branch of the Erie. This navigation passes from Oswego to Syracuse, connecting lake Ontario ivith the Erie canal. It has 123 feet of lockage, all de-
scending towards lake Ontario. One hals of the distance, is a canal connected with Oswego river by locks and dams; the other lialf is a slack-water navigation on the river. Its structures consist of 22 bridges, 1 aqueduct, 7 culverts, 2 waste weirs, 8 dams across the river, 13 locks of stone, and 1 of stone and timber. Cost, $\$ 525,115$. It has been made since the Erie canal.-Cayuga and Seneca canal, another branch of the Erie, made is 1828, extends from Geneva to Montezuma, connecting Seneca and Cayuga lakes with the Erie canal. The work consists of 10 miles of independent canal, and 10 miles 24 chains of slack-water navigation. There are 7 locks, embracing $73 \frac{1}{2}$ feet of lockage, 19 bridges, 5 safety-gates, 5 dams, and if culverts. Cost, $\$ 211,000$.-Delaware and Hudson canal is not, like the preceding, a work of the state, having been made by a private company. It is 64 miles in length, 32 feet wide at the water's surface, 20 feet at the botom, 4 feet in depth, and has 615 feet of lockage. It commences on the western side of the river Delaware, at Carpenter's point, and passes across to the Hudson, which it enters 4 miles below Kingston, and thus connects those two rivers. It also unites, in Pennsylvania, with the Lackawaxen canal. These canals, when united, extend 117 miles. Length from the tide water of the Rondout, to the summit level between the Hudson and Delaware, 38 miles, with a rise of 535 feet. From the summit level to the Delaware, is 26 miles, and a descent of 80 feet. Up the Delaware to the mouth of the Lackawaxen, is 17 miles, and a rise of 148 feet. Up the Lackawaxen to head water, at Kean's pond, is 36 miles, and a rise of 668 feet. Total lockage, 1431 feet. Cost, $\$ 16,000$ per mile. The Delaware and Hudsou canal company were incorporated in 1823. Tolls not to exceed 8 cents per mile per ton of coal, and 4 cents for other merchandise ; the same for every 100 feet, cubic measure, of timber, and every 1000 feet boards, and every 5000 shingles.
New Jersey.-Morris canal was commenced in 1825, and is (1831) much advanced. It is $\mathbf{1 0 1}$ iniles in length, from 30 to 32 feet wide at the surface, 16 to 18 feet at the bottom, and 4 feet in depth; the whole lockage is 1657 feet. It extends from Jersey city, on the Hudson, acrow the state of New Jersey, to the Delaware, opposite Easton, where it connects with the Lehigh canal. The summit level is near lake Hopatcung. On the western division, from the feeder at the summit level
to the Delaware, are to be seven loeks, overcoming a difference in level of 67 feet, and 11 inclined planes, overcoming 691 feet. On the castern division, between the summit level and the Passaie, there are to be 17 locks, overcoming a difference of 156 feet, and 12 inclined planes, overcoming 743 feet. There will be, within these limits, 4 guard-loeks, 5 dams, 30 culverts, 12 aqueducts, 200 bridges and upivards. The aqueduct across the Passaic, at Little Falls, is of cut stone, the duct resting on a single arch of 80 feet, with 50 feet radius, and measuring 52 feet perpendicular above the water level, that is, to the coping of the side-walls; extent, from wing-wall to wingwall, 215 feet.-Delaware and Raritan canal is a projeeted work in the same state.
Pennsylvania Canals. The state of Pennsylvania has a very extensive system of canal navigation, a very large part of whieh has been undertaken by the state, at the public expense.-Schuylkill canal and navigation was commenced in 1816, and has been in operation a number of years. Its length is 110 miles; loekage, 620 feet, or only 5.64 feet per mile; is 36 feet wide at the surface of the water, 24 feet at the botton, and 4 feet deep, and extends from Philadelphia to Reading, and from thence to mount Carbon. It is sometinues called the Schuylkill navigation. It comprises 31 dains, coinmencing at Fair Mount waterworks, near Philadelphia, by which is produced a slack-water navigation of 45 miles; also 23 canals, extending 65 miles; 125 locks, 17 feet wide, 80 feet long, of which 28 are guard-loeks. There are 17 arched aqueducts; a tunnel of 450 feet, eut through and under solid roek; 65 toll and gate-houses. The dams vary from 3 1027 feet in height. Total cost of the improvements, January 1, 1830, $\$ 2,236,937$. Tolls, for $1826, \$ 43,109 ; 1827, \$ 58,149$; $1828, \$ 87,171$; $1829, \$ 120,039$. It was construeted by the Sehuylkill navigation company, ineorporated in 1815. The company may declare a dividend not exceeding 25 per cent. per annum, and the :Wlls are to be regulated accordingly.Snion canal and navigation, construeted in 1827 ; length, 82 miles, exelusive of a navigation of $7 \frac{1}{2}$ miles; lockage, 520 feet; 36 feet wide at the surfacc, and 24 feet at the bottom, and 4 feet deep. It extends from 4 miles below Reading to Middle:own, connecting the Susquehanna and Scluylkill rivers, and uniting at Reading with the Sehuylkill canal, and at Middletown with the great Pennsylvania canal ; the summit level is at Lebanon. The canal begins, at its eastern end, in the Schuyl-
kill works, and aseends along the westem bank of the Schuylkill to the valley of the 'Tulpelocken, and passes up that valley to the east end of the summit level, within five miles of Lebanon, rising 311 feet by 54 locks, of various lifts of from 8 to 4 feet. The summit extends 6 miles, 78 ehains, part whereof is a tunnel of 850 feet, 18 feet wide, 14 high, opening into Clark's creek valley, along which the eanal descends to the Swatara, and, continuing along the valley of this river, terminates at Middletown. Descent from summit, $208 \frac{1}{2}$ feet, overcome by 39 loeks. It has 43 waste weirs, 49 eulverts, 135 road and farm bridges, 12 aqueduets, one of which is 276 feet in length. On this canal are extensive water-works for raising the water of the Swatara to the summit. Cost, $\$ 20,000$ per mile. Rates of toll to be regulated so as not to give more than 12 per cent.-Lackanaxen canal is 36 miles in length, 32 feet wide at the surface, 20 feet at the bottom, and 4 feet in depth. It commences at the termination of the Dela ware and Hudson eanal, near Carpenter's point, and unites with a rail-road at Honesdale. (See Delaware and Hudson canal.) In 1825, the Lackawaxen canal and coal company were authorized to aet in union with the Delaware and Hudson eanal company. The tolls are not to exceed $1 \frac{1}{2}$ cents per ton per mile on boats transporting stone, coal, \&e. Great quantities of Lackawana coal are transported along this eanal.-Lehigh canal and navigation was completed about 1829, is $46{ }^{3}$ miles in length, 60 to 65 feet wide at the surface, 45 feet at the bottom, and 5 feet deep; the lockage is 360 feet. It extends from Easton on the Delaware to Stoddartsville, connecting the Morris canal with the Mauch Chunk railroad ; cost, $\$ 1,558,000$. It consists of 37 miles of canal, and $9 \frac{3}{3}$ of slack-water pools. The ponds connecting the several lengths of canal are all cleared out in the channel to the width of 50 feet. The canals are furnished with 43 loeks, from 6 feet lift to 9 , whereof 2 are guard-locks, besides 5 other guard-locks at the pools respectively; dimensions, 22 feet wide, 100 feet long. There are 8 dams, varying in height from 6 to 16 feet. The lock walls are constructed of rough stone. There are 4 aqueducts; 22 eulverts ; cost, $\$ 25,000$ per mile. The Lehigh coal and navigation company were incorporated in 1818. Tolls not to exceed three cents per mile, per ton, for boats, and every ton of shingles in rafts, from the Great Falls to the mouth of Nescoponing ereek; and from thence to the mouth of the Lehigh, one cent per
mile ; and the samc toll is paid for 1000 fcet boards. - Conestoga navigation, 18 miles in length, with a lockage of 70 feet, passes from Safe Harbor, on Susquehanna river, at the mouth of Conestoga creek, up the course of the creek, to Lancaster. The navigation is effected by a series of locks and dams, the pools never affording less than 4 feet depth of water; the locks are 100 fect by 22 , in the chambers; the towing-path is on the south side of the river. Cost, $\$ 4,000$ per mile. The company were incorporated in 1825; they are authorized to receive to the amount of 15 per cent. on the sum expended, and the legislature may regulate the rate of tolls, provided they do not reduce them below that rate.-Conewago canal is $2 \frac{1}{2}$ miles in length, with a lockage of 21 feet, and passcs from the foot to the head of Conewago falls, west side of Susquehanna river, York county, Pennsylvania; and the same, cast side, Dauphin county. Two dams, one of 800 , the other of 500 feet, are connected with the works. There are 1 guard and 3 lift locks, cach 110 feet long, by 18 wide.-Pennsylvania canal was conmenced in 1826, by the state of Pennsylvania, and great progress has been made in constructing the different branches, and the work is now (1831) prosecuted with great activity. It includes a number of canals, running in different directions, and known by different names: it consists of five divisions:-1. The transverse division commences at Columbia, where the Philadelphia and Columbia rail-road terminates, and runs on the Susquchanna to Duncan's island, $44 \frac{43}{106}$ miles, at the month of the Juniata, thence on the Juniata to Huntington, 89 niles; thence from Huntington to near Holidaysburg, 39 miles. The division of rail-way proposed from Holidaysburg to the head of the basin at Johustown, is 37 miles; this road crosses the Alleghany, and at its lowest crossing-place is 1364 feet 7 inches above the basin at Holidaysburg, and 1141 above that of Jolnstown. The canal then runs from Johnstown to Pittsburg, $104 \frac{1}{3}$ miles, down the Kiskimenitas and Alleghany. 2. The middle division is from the mouth of the Juniata up the Susquehanna to the boundary line of New York, 204 miles. 3. The West Branch division, from NorthumberLand, by canal, up the West Brancli vallcy, on the east side of that river, to a dan above the mouth of the Bald Eagle creek, and thence, across the small peninsula there formed, to a dain on the Bald Eagle, near Dunustown. Ascent, by 14 locks, 101 feet; distance, $68 \frac{1}{4}$ miles. 4. The eastern
division is in the valley of the Delaware commencing at Bristol, 18 miles above Philadelphia, and running to Easton, 60 miles. From Easton it is to be continued, under the name of the Delaware canal, to meet the Delaware and Hudson canal, at Carpenter's point, $66 \frac{1}{2}$ miles. Begun in 1827. 5. The western, or Ohio and lake Eric division, is to extend from the mouth of the Kiskimenitas up the Alleghany and French creeks, and thence to the town of Erie, uniting the Ohio and lake Erie, 213 miles.-French creek feeder runs from $\mathbf{B e}-$ nis's mill, on French creek, along the eastern side, nine miles, down to a point opposite the Conneaught outlet, and thence passing across by an aqueduct westward $12 \frac{1}{2}$ miles, to Conneaught lake, $21 \frac{1}{2}$ miles.
Delaware and Maryland.-Chesapeake and Delaware canal was commenced in 1824, and opened for navigation in 1829. It is 138 miles long, 66 feet wide at the surface of the water, and 10 feet deep,bcing intended for sloop navigation between the river Delaware and Chesapeake bay. It leaves the Delaware 45 niles below Philadelphia, and passes across the peninsula to the Chesapeake. This canal has two tide and two lift locks, of 100 feet in length by 22 in breadth, within the chamber; it is navigable for vessels usually employed in the bay and coasting trade. At the eastern termination of the canal, at Delaware city, a harbor extends 500 fect along the shore, from which two piers, that distance apart, project 250 feet into the river, nearly opposite to Fort Dclaware. Betwcen the harbor and the canal, the Delaware tidelock opens the communication. In this canal is a deep cut of $3 \frac{3}{3}$ miles, $76 \frac{1}{2}$ feet in depth, at the place where the greatest excavation was made. The summit level is 12 feet above tide water.-Port Deposit canal is a public work of the state of Maryland, of 10 miles in length, from Port Deposit, on the east bank of the Susquehanna, along a line of rapids northward to the boundary line of Maryland and Penn-sylvania.-Potomac river canals. At Little, or Lower Falls, three miles above Washington, is a canal $2 \frac{1}{2}$ miles long ; difference of level, 37 feet 1 inch, overcome by a series of 4 sets of locks, of solid masonry, 80 feet long, 12 wide. At Great Falls, nine miles above, is a canal 1200 yards long, lined with walls of stone; difference of level, 76 fcet 9 inches, surmounted by 5 sets of locks, of solid masonry, 100 feet long, 10 to 14 wide; lifts from 10 to 18 feet. Both here and at Little Falls, the canal dimensions are 25 fect wide at surface, 20 at bottom, 4 feet deep. Canal
works, on a smaller scale, are constructed at Sencea falls, Shenandoah falls, House's falls. These works were executed by the Potomac company, incorporated, in 1784, by Maryland and Virginia; but they are to be surrendered to the Chesapcake and Ohio canal company.-Chesapeake and Ohio canal, commenced in 1828. The proposed length is $341+$ miles; the breadth, at the surface of the water, 60 to 80 fect ; at the bottom, 50 feet ; the depth of water, 6 to 7 feet. According to the plan of this canal, it will pass from tide-water of the Potomac river above Georgetown, in the District of Columbia, and terminate near Pittsburg, in Pennsylvania. The first 2 miles of this canal above Georgetown are 70 feet wide on the surface, and 7 fcet deep ; the next 2 miles are 80 feet wide, 6 feet deep. Five miles from Georgetown, the canal is so planned that a branch may be constructed to Alexandria, another to Baltimore, and anothcr to the navy-yard in Washington. The remaining distance to the Point of Rocks ( 44 miles), is to be 60 feet wide, 6 deep. The locks arc to be of stone, 100 feet by 15 feet in the clear. The eastern section of this canal, from one mile below Cumberland to tide-water at Georgetown, is 186 miles 1353 yards; descent, 638 feet. The middle section is from Cumberland to the mouth of Casselman's river, 70 miles 1010 yards; this section includes the summit level, where a tunnel, 4 miles 80 yards long, passing under a ridge of the Alleghany of 856 feet elevation, is necessary, with a deep cut of 1060 yards long at the western end, and another deep cut of 140 yards at the eastern end, each of these cuts opening into a basin, of 880 yards in length and 64 in width. Length of summit level is 5 miles 1280 yards; lockage of the whole middle section is 1961 feet. The western section is from the mouth of Casselman's river to Pittsburg, 85 miles 348 yards, embracing a descent of 619 feet; lockage on the wholc canal, 3215 feet. The first estimate of the cost was $\$ 22,375,000$, but it is maintained that the cost will not exceed $\$ 10,000,000$. The U. States have authorized a subscription of $1,000,000$ dollars to the stock of this company. To be constructed by the Chesapeake and Ohio canal company. Charter granted by Virginia in 1824, confirmed by Maryland and congress in 1825. Tolls not to exceed 15 per cent. dividend.

Ohio. The state of Ohio has commenced the construction of canals, as public works, on a very liberal scale.Ohio State canal, from Cleveland, on lake Erie, to the Ohio, at the mouth of the

Scioto; lockage, 1185 fcet ; length of the main line is 306 niiles; fecders, 15 miles ; total, 322 miles. Estimated expenses, $\$ 2,801,000$. The route is from Portsmouth, on the Olio (where it is 474 feet above tide level, and 94 below lake Eric), up the valley of the Scioto, to Pikcstown ; thence crossing the river to near Chillicotle; thence again crossing the river, it continues along the eastern bank to the Big Belly creek, where it receives a feeder, 10 miles long, from the Scioto at Columbus; it then passes up the valley of Walnut creek to the Licking and Walnut creek summit, between the head waters of those strcams. From the summit it continues down the valley of Licking creek to Rocky Fork, and thence across the valley to the Tomaka , and down it to near its junction with the Muskingum. From this point the ascent commences, and the line passes up the Muskingum valley to White Woman's creek; crossing this, it proceeds up the valley of the Tuscarawas Fork, first on the western, then on the eastern bank, to a point where its two head waters unite ncar the south-west angle of Portage county. This is the centre of the Portage summit, extending 10 miles. From the north of the Portage or Akron summit ( 499 feet above the Ohio at Portsmouth, 973 feet above the Atlantic, 405 above lake Erie), it passes down the Cuyahoga valley, first on the west, afterward on the east side of the river, to within 6 miles of the mouth at Cleveland, for which 6 miles the river channel with a towing-path is to be used.-Miami canal, 40 feet wide at the surface, and 4 feet in depth, from Cincinnati on the Ohio to the Maumee, near the head of lake Erie, was commenced in 1825. Length of main line, 265 miles; feeders, 25 miles; total, 290; lockage, 889 ; estimated expense, $\$ 2,929,957$. 'The entire line from Cincinnati to Dayton is (1831) completed. This division embraces 22 locks; ascent from the Ohio, at low water, 108 feet; length of canal, 65 ; feeders, 2 ; total, 67 miles; cost, $\$ 746,852$. From Dayton the line is to be extended to lake Erie. The summit level, commencing 18 miles north of Dayton, extends 60 miles within a single lock; and this level, together with 75 miles of the line north of it, must receive all its waters from feeders from the Mad and Miami rivers. To aid the state in extending this canal to lake Erie, there is assigned by congress, of the public lands which the same shall pass through, a quantity cqual to one half of five sections in width, on each side of the canal, betiveen Dayton and the Mau-
mee river, at the mouth of the Auglaise, the U. States reserving each alternate section; provided this extension be commenced within five years from May, 1828, and finished within twenty ; the canal to be a highway for the $\mathbf{U}$. States, free from toll.

Virginia and North Carolina.-Appomattox river canals. These canals are for the purpose of improving the navigation of the Upper and Lower Appomattox. - James river canals. The river is navigable, for vessels of 125 tons burthen, to a little below Richnond. At the city, there are 12 locks, overcoming an ascent of 80 feet, and commecting the tide water with a basin on Shockoc hill. Fron this basin proceeds a canal, 25 feet wide, 3 deep, for $2 \frac{1}{2}$ miles, where it enters the streann; at 3 miles farther are 3 locks, overcoming an ascent of 34 feet, and a short canal leading to Westham, at the upper end of Great Falls.-James and Jackson river canal and navigation, from Riclınond basin, by canal, up the James river valley, to the head of Maiden Adventure's falls, Goochland county. Distance, $30 \frac{1}{2}$ miles; width of canal, 40 feet ; depth, $3 \frac{1}{2}$; finished in 1825 ; cost, $\$ 623.295$. Also from the lower end of Irish falls, or Piney island, by canal, along the margin of Janes river to the mouth of North Branch, in Rockland county. Distance, 7 miles. The fall is overcome by lockage 90 feet; cost, $\$ 340,000$.-Shenandoah canals, for the improvement of the Shenandoah. They are situated near Port Republic. A fall of 50 feet is overcome by six short canals with stone locks.-Dismal Swamp canal is $22 \frac{2}{2}$ miles in length, 40 feet wide and $6 \frac{1}{2}$ deep, passes from Deep creek to Joyce's creek, at the head of Pasquotank river, connecting the waters of the Chcsapcake and Albemarle sound ; partly in Virginia and partly in North Carolina. This canal was finished, upon a circumscribed plan, in 1822. Its dimensions have since been enlarged. Every quarter of a mile, the canal is widened 60 feet, for turn-out stations. The locks newly constructed correspond in dimensions with those of the Chesapeake and Dclaware canal ; and the old ones may be so altered when necessary. The summit level is $16 \frac{1}{2}$ feet above the Atlantic at mid-tide, and is supplied by a feeder of five miles, from lake Drummond. The basin, at Deep creek, is half a mile in length, and 15 feet above the level of tide water. The North-west canal connects North-west river (which empties into Currituck sound in North Carolina) with the main canal, requiring a cut of

6 miles. This canal is 24 feet will, 4 feet deep.-Weldon canal is 12 miles ia length, along the Weldon or Great Falls in Roanoke river, in which distance the river descends 100 feet.-Danville and Dan river canals are a series of improvements on the upper branches of Roanoke river. The expenditure of the Roanoke navigation company, for these purposes, has been about $\$ 350,000$.- Cape Fear river canals, from New Inlet, at Smith's island, at the mouth of Cape Fear river, up the stream to Wilmington, and thence, by a course of lock and dam improvements, up to the hicad thereof, formed by the union of Deep and Haw rivers, below Haywoodsborough in Chatham county; distance, 200 miles. These canals, \&c., are for the purpose of improving the navigation of the river. This work is prosecuting by the state of North Carolina.Wateree river and Catawba river canals, from the confluence of the Congaree and Wateree rivers, up the course of the latter, as also of the Catawba river, across North Carolina, to near the source thereof. Distance, by the river channcl improvements and lateral canals together, 275 miles.Santee, Columbia and Saluda canals, from Columbia, through the Columbia canal, into Broad river, and through the Saluda canal, from Broad into Saluda river, up which and through Drehr and Lorick's canals, on to the Abbeville county line, near Cambridge ; also from Santee river, by the Santce canal, into Cooper's river, and down this river to the port of Charleston. Distance, by mixed navigation, 150 miles. These comprise five canals, with 28 locks. overcoming falls of 217 feet. The Santee and Cooper's river canal is 22 miles long, uniting Siutee river to the head of Cooper's river. The ground rises, by an ascent of 35 feet, to the summit level, by four locks. Towards Cooper's river, the descent is 68 feet, overcome by nine locks. The locks are 60 feet long by 10 feet wide. The canal is 32 feet wide at top, and 20 feet at the bottom; 4 feet deep. It was completed in 1802 , at an expense of $\$ 050,667$. -Winyaw canal is 10 miles in length. It unites the Santee river with Winyew bay.
Kentucky.-Louisville and Portland canal is about two miles in length, 50 feet wide at the bottom, with a lockage of $22 \frac{1}{3}$ feet. It is not fully completed in 1831. It passes from the Ohio, at Louisville, to a point of the same below the rapids, near Portland. Distance, by the bend of the river, three miles; constructed by the Louisville and Portand canal company, which
was incorporated in 1825. The canal is for the passage of large vessels. Iticommences from the lower end of a basin or estuary, which extends along the shore of the river for the whole length of Louisville, and is connected with the river at its upper end. From the lower part of this basin, the canal traverses the point formed by the bend of the river at the falls, and reenters the river at Slippingsport. The bottom is to be 50 feet wide, sunk four feet below the level of the basin at Louisville, at time of low water; the banks to be elevated 2 feet above the highest water mark known at Louisville, which makes 42 feet from the bottom of the canal, and to be sloped as $1{ }^{3}$ base to 1 , so far as respects the upper or earthen portion ; monderneath there is a solid bed of stone for a foundation, the whole length of the canal, and this is to be cut perpendicularly, to the requisite depth, varying from 1 to 10 feet; the slope above which, to the top of each bank, is to be faced with stone. 'There are to be 3 lift-locks, of 7 feet lift each, and a guard-lock at the lower ond of the canal; dimensions, 190 feet long by 50 feet wide, in the chamber. The U. States have contributed towards this important work.

Georgia.-Savannah and Ogatchee canal is 16 miles in length, 33 feet wide at the bottom, and 5 feet in depth, passing from Savannah river, commencing at Savannal, to the Ogatchee river; lockage, 29 feet; estimate of cost, $\$ 162,276$; locks to be 18 feet wide, 90 long. This is to be continued from the Ogatchee to the Alatamaha.

Louisiana.-New Orleans and Teche river canal is a projected and partly executed navigation, of 100 miles in length, from a point on the Mississippi, opposite New Orleans, to the waters which unite with the Teche river, at Berwick's bay. A portion of this canal, from Lafourclie to Terrebonne, has been (1831) nearly completed by individual enterprise.- Ca rondelet canal is $1 \frac{1}{2}$ miles long, 30 feet wide, and 4 feet deep, and extends from bayou St. John to a basin in the rear of the city of New Orleans. This canal is without locks. Through it the tide flows into the basin.-Lafourche canal passes from the river Lafourche, 16 miles below its efflux from the Mississippi. It is opened from the right bank into a small creek, uniting with lake Verret. It is through this channel, at high water, that boats are taken to and from the lower part of Attaceapas into the Mississippi, or from the latter stream ; navigable only in times of high
flood.-Plaquemine canal passes from the Mississippi into bayou Plaquemine, at ita efllux from the Mississippi. The mouth of the Plaquemine is closed by a raft of timber, and the canal (a short cut of about 400 yards) was inade across the point, below the bayou. It is only navigable in times of high flood.
Iny, a river in the south of Germany, rises in the Grisons, flows through Tyrol and Bavaria, and empties into the Danube at Passau. It is navigable from Telfs. Innspruck (q. v.) is situated on this river.
Innate Ideas; certain primary notions, or impressions, supposed by unany philosophers to be given to the mind of mark when it first receives its being, and to bo brought into the world with it. Their existence has afforded ground for much dispute among philosophers.

Innocent; the name of thirteen popee, among whom are the following:-Innocent $I$, saint, a native of Albano, succeeded. Anastasius I as bishop of Rome, in 402. He was in great favor with the emperor Honorius, and induced him to take severe ineasures against the Donatists. He supported St. Chrysostom (q. v.), and renounced the communion with the Easterm churches, on account of their treatment of that eminent man. In 409, he was sent to obtain terms of peace from Alaric, but without success, in consequence of the opposition of the pretorian prefect Jovius. (q. v.) Rome was taken and pillaged, in 410, while Immocent was still in Ravenna. IIe condemned the Pelagians as heretics, in a letter to the African churches, but excited their opposition by his arrogant tone. He died in 417; according to some, in 416. He is one of the inost distinguished among the saints; his day is July 28. His decrees (in the Collection of Dionysius Exiginus) and letters (most complete in Schönemaun's Pontif. Rom. Epist. genuinc) prove lis zeal for the establishment of the Roman supremacy; but part of thein are considered, by many critics, spurious. Zosimus was his surcessor.-Innocent II; a Roman of noble birth, elected pope, in 1130, by a part of the cardinals, whilst the others elected Peter of Leon, who took the name of Anacletus. Innocent fled to France, where, by the mediation of Peter of Clairvaux, he was acknowledged by the council of Etampes, by Louis VI, and, soon after, by Henry II of England, also by the German king Lothaire, who conducted him, in 1133, to Rome, where he occupied the Lateran, whilst Anacletus occupied the castle of Crescentius, the church of St. Peter, and a large part of
the city. Innocent was soon obliged to retire to Pisa, and, though the emperor reiastated him, in 1137, A nacletus inaintained himself until his death, in 1138. Having prevailed against another anti-pope, he held the second ceumenical council in the Lateran, where nearly 1000 bishops condemned Arnold of Brescia and his heresy, declared all the decrees of Anacletus null, and excommunicated Roger of Sicily, who had supported the latter. But Roger waged war against the popc, made him prisoner, and obliged Innocent to acknowledge him as king, absolve himı from excommunication, and invest him and his heirs with Apulia, Calabria and Capua, Towards the end of his pontificate, he put France under an interdict, and had to struggle with constant disturbances in Rome and Tivoli. He died in 1143. Celestine II succceded him. His letters are to be found in Baluze, Martène and oth-ers.-Innocent III, Lothaire, count of Segni, born at Anagni, in 1161, studied in Rome, Padua and Bologna. On the dcath of Celestinc III (1198) cardinal John of Salerno declined the pontificate, which had been offered to lim, and proposed Lothaire, who was unanimously elected, at the age of 37 . Thic death of the emperor Henry VI, in 1197, had thrown the imperial affairs in Italy into the greatest confusion. Innocent, in the vigor of manhood, endowed by nature with all the talents of a ruler, possessed of an erudition uncommon at that tinie, and favored by circumstances, was better qualified than any of his predccessors to elevate the papal power, which he considered as the source of all secular power. By his clemency and prudence, he gained over the inlabitants of Rome, obliged the imperial prefcet to take the oath of allegiance to him, and directed his attention to every quarter where he believed, or pretended to belicve, that a papal claim of property, or of feudal rights, existed. From the imperial seneschal, duke Marquard of Romagna, he required homage for the Mark of Ancona, and, on his refisal to comply, took possession of the Mark, with the assistance of the inhabitants, who were dissatisfied with the imperial government, and excommunicated Marquard; obliged the duke Conrad of Spoleto to resign that duchy, and would also have taken Ravenna, if the archbishop had not prevented him. He concluded treaties with many cities of Tuscany for the mutual protection of their liberties and those of the chureh. Thus he soon obtained possession of the ecclesiastical states, in

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their widest extent. He conferred Na ples on the widowed empress Constantia and her minor son, afterwards the emperor Frederic II, after having abolished all the privileges conceded by Adrian IV, in 1156 , assumed the guardianship of the young prince, after the decease of the empress, and frustrated all the machinations of Marquard to deprive him of his inleeritance. In Germany, Innocent favored the election of Otho IV against Philip of Suabia, crowned him, in 1209, at Rome, but soon became involved in disputes with him, on account of his violations of the promises which he lad made to the church. He excommunicated Philip Augustus, king of France, laid the kingdon under an interdict, in 1200, because Philips had repudiated his wife, Ingelburge, and obliged the king to submit. He was still more decided in his treatment of John (q. v.), king of England, who refused to confirm the election of Stephen Langton as archbislop of Canterbury. Innocent laid the kingdom under an interdict, and, in 1212 , formally deposed him, and instigated the king of France to attack England. John was finally obliged to submit, resigned his territorics to Rome, and received them, as a papal fief, from Innocent, from whom he was unable to obtain alisolution until he had paid large sums of money. Alinost all Christendom was now subject to the pope; two crusades were undertaken at lis order; and his influence extended even to Constantinople. Innocent was one of the greatest of popes and rulers; he acted in accordance with the principles laid down in his writings; lie cuforced purity of morals in the clergy, and was limself irreproachablc in private life; yct the cruel persccution of the Albigeuses in the south of France, which he encouraged, though without approving of all its rigors, and the inquisitorial tribunals established by lim in 1198, from which the inquisition itself originated, are stains on lis pontificate, but partially effaced by a consideration of the spirit of the tinies and the disordered state of the Christian world. It may be said of his rule, as of that of Gregory VII, whom he most resembles, that, in those times, the power of the pope was salutary, as a bond of union for Europe, in which the still firmer bond of a conmon civilization and knowledge did not, as at present, exist. His attacks on the secular power are to be considered as the struggle between the ecclesiastical and secular power, which was natural and necessary in the developement of European civilization. If he had not subdued
the monarchs, they would have erushed the papal power. In 1215, he held a couneil of more than 1300 arelibishops, bishops, prelates and ambassadors of European princes, by which transubstantiation in the Lord's supper and auricular confession were established as dogmas, Frederic II was acknowledged as German emperor, and the Franciscan and Dominican orders were confirmed. Innocent died soon after, on the 16 th of July, 1216. Some of his works on legal and theological subjeets were published in Cologne, 1575, folio. The best edition of his letters, important for the history of the time ( 11 books), is that of Baluze (Paris, 1682). The Stabat Mater and Veni Sancte Spiritus, and other sacred hymus, are said to have been written by him. Honorius III succeeded him. -Inrocent XI (Benediet Odescalehi) was born at Como, in 1611, served, in his youth, as a soldier, in Gerinany and Poland, took orders, at a later period, and rose through many important posts, until he was elected pope in 1676, on the death of Clement X. He was eminent for his probity and austerity; he zealously opposed nepotism (q. v.) and simony, restrained luxury and excess, and even prohibited women from learning music. Though hostile to the Jesuits, whose doctrinc of probabilities he publiely disapproved, and attaeked 65 of their opinions in the decree Super quibusdam axiomat. moralibus, yet he was obliged to condemn Molinus and the Quietists. He determined to abolish the privileged quarters (the ground for a considerable distance around the palaces of certain aunbassadors in Rome, which was considered as foreign territory, in whieh eriminals were out of reach of the authorities); but Louis XIV, the vainest of monarchs, would not yield to so just a clain, occupied Avignon, and imprisoned the papal nuncio in France; in consequence of which the authority, and particularly the acknowledgment of the infallibility of the pope, reecived a severe blow, by the IV Propositiones Cleri Gallicani, in 1682. (See Infallibility, and Gallican Church.) These disputes were highly favorable to the English revolution, as it induced the pope, in 1689, to unite with the allies against Jancs II, in order to lower the influence of Louis XIV. His conduct in this respect has led many Catholics to assert that lie sacrificed the Catholic religion to his personal resentment; and it was pointedly said, that "to put an end to the troubles of Europe, it was only necessary for James II to become a Protestant, and the pope a Catholic." Bayle, however, judiciously ob-
serves, that the extrinc predominance of any great Catholie sovereign is injurious to the interests of the papacy, and mentions the similar conduet of Sixtus V, another able pope, in relation to Philip II of Spain and queen Elizabeth of England. Innocent died August 12, 1689, at the age of 78 , leaving behind him the eharacter of an able and economical pontiff, and of an honest and moral man. Had he not died, an open rupture with France might have ensued. Alexander VIII succeeded him.
Inns of Court. The colleges of the English professors and students of common law are called inns, the old English word for the houses of noblemen, bishops, and others of extraordinary note, being of the same signification as the Frenelı hotel. It is not possible to deterinine precisely the antiquity of the establishment of inns of court. The received opinion is, that soeieties of lawyers, which, before the conquest, held their chief abodes for study in ecelesiastical houses, began to be collccted into permanent residences, soon after the court of common pleas was directed to be held in a fixed place, -a stipulation whiel occurs in the great charters both of king John and Henry III. In these houses exercises were performed, lectures read, and degrees conferred; that of barristers, or, as they were first styled, apprentices (from apprendre, to learn), answering to baehelors; that of sergeants (servientes adlegem) to doctors. The inns of court were mueh celebrated for the magnificence of their revels. The last of these took place in 1733, in the Inner Temple, in honor of Mr. Talbot, when he took leave of that house, of which he was a bencher, on having the great seal delivered to him. Fortescue, lord chancellor of England in the reign of Henry VI, says, in his treatise De Laudibus Legiun Anglioc, that, in his time, there were about 2000 students in the inns of court and chancery, all of whom were gentlemen born. In the reign of queen Elizabeth, sir Edward Coke did not reckon ahove a thousand students, and the number at present is very considcrably less. The inns of court are governed by masters, principals, benchers, stewards and other officers, and have public halls for exercises, readings, \&c., which the students are obliged to attend and perform for a certain number of years, before they can be admitted to plead nt the bar. These societies have not any judicial authority over their members; but, instead of this, they have certain orders among themselves, which have, by consent, the force of laws. For light offences, persons are
only excommoned, or put out of commons; for greater, they lose their chambers, and are expelled the college ; and, when once expelled from one society, they are never received into any of the others. The gentlemen in these societies may be divided into benchers, outer barristers, inner barristers and students. The four principal inns of court are the Inner Temple and Middle Temple (formerly the dwelling of the knights Templars, and purchased by some professors of the cominon law, more than three centuries since); Lincoln's Inn and Gray's Innı (anciently belonging to the earls of Lincoln and Gray). The other inns are the two Sergeants' Inns.Inns of Chancery were probably so called because anciently inhabited by such clerks as chiefly studied the forming of writs, which regularly belonged to the cursitors, who are officers of chancery. These are Thavie's Inn, the New Inn, Symond's Inn, Clement's Inn, Clifford's Inn (formerly the inansion of lord Clifford), Staple's Inn (which belonged to the merchants of the staple), Lion's Inn (anciently a common inn, with the sign of the lion), Furnival's Inn, and Bernard's Inn. These were forinerly preparatory colleges for younger students, and many were entered here before they were admitted into the inns of court: now they are mostly taken up by attomeys, solicitors, \&cc. At the present day, previously to being called to the bar, it is necessary to be admitted a member of one of the inns of court. The regulations of Lincoln's Inn, to which those of the other inns bear a strong resemblance, are alone given in the following account:The applicant for admission need not be present, but the application may be made through the medium of a third person; the applicant must be recommended to the society by one of its members, or by two housekeepers, who are required to certify that they know the applicant to be a propor person for admission. A bond must also be entered into by the applicant himself and the recommending member, or housekeepers, in the sum of $£ 100$, conditioned for the due payment of his fees to the society. The fees are generally more than $£ 6$ and less than $£ 8$ a year ; the expense of admission, in the year 1827, amounted to £31 16s. Before the student commences keeping his terms for the English law, he must deposit with the society the sum of $£ 100$, which is retumed, without interest, if the student dies, or quits the society, or is called to the bar. No deposit is required from those who can produce a certificate of having kept two years' terms
in the universities of Oxford, Cambridge, or Dublin, or of being of the faculty of advocates in Scotland, nor from those who are admitted inerely for the purpose of being called to the Irish bar. Persons removing from one inn to another are allowed the terms which they have kept in their original inns. A term is kept by the student being present at five dinners during the term ; three dinners suffice for three quarters of a term; one dinner, during the grand week, for half a term. The student must keep 12 terms ( 60 dinners) leefore he can be called to the bar, and his name must have been five years on the books, unless he produces a certificate of having taken the degree of master of arts, or bachelor of law, at Oxford, Cambridge, or Dublin, in which case three years will suffice. He must also have gone nine times through a certain ceremony, which is called performing an exercise. Exercises are performed thus:-The student is furnished, by the steward of the society, with a piece of paper, on which is supposed to be written an argument on some point of law, but, owing to the negligence of successive copyists, the writing now consists of a piece of legal jargon, wholly unintelligible. When, after dimer, grace has been said, the student advances to the barrister's table, and commences reading from this paper; upon which one of the senior barristers present makes him a slight bow, takes the paper from him, and tells him that it is quite sufficient. Students intended for the Irish bar keep eight terms in England, and the remainder in Ireland. When the 12 terms have been kept, and the nine exercises performed, the student may petition the benchers to call him to the bar. Except under very peculiar circumstances, the petition is granted, as a matter of course. After dinner, on the day appointed for the call, the student is required to take certain oatlis. He then retires with the benchers to the council chamber, which adjoins the hall, to sign the register of his call. There are certain oaths to ha taken in the courts of Westminster hall. These should be taken within six months after the call. No attorney, solicitor, clerk in chancery or the exchequer, unless le has discontinued practice for two years in such branches of his profession, and no person who is in deacon's orders, or under 21 years of age, can be called. The expense of being called is between $£ 90$ and £100. The three years, during which a student is keeping terms, are spent by him in the chambers of a conveyancer, an equity draftsman, or a special pleader.

Inaspruck, Inspreck, Inasbruck, or Insbrugg ; the capital of Tyrol, on the Inn, over which there is a bridge; lat. $47^{\circ} 16^{\prime}$ $18^{\prime \prime} \mathrm{N}$. ; lon. $11^{\circ} 23^{\prime} 53^{\prime \prime} \mathrm{E}$. The city, 1754 fcct above the level of the sea, has cousiderable suburbs, some fine churches, 10,200 inhabitants, and 574 louses. It contains a university, and a general seminary for Tyrol connected with it, and manufactories of several kinds. The works of art in one of the churches, particularly the statues in bronze of the members of the house of Hapsburg, are celebrated. Not far from Innspruck is the castle of Ambras. (q. v.) Innspruck is the seat of the Austrian provincial gorermment for Tyrol, and of the assembly of the estates established in 1816. (Sec Austria.)

Insuexdo. In an action for a written libel, or for verbal slander, if the offensive words are not in themselves sufficiently intelligible, or if, without cxplanation, their slanderous tendency does not appear, it is usual for the plaintiff, in his declaration, which is the written statement of his complaint, to insert parenthetically into the body of the libel the necessary cxplanation; as, for instance-He (meaung the plaintiff) is forsworn (meaning that he liad perjured himself in prosecuting the said defendant). These comments have the Latin name innuendo,signifying meaning, becausc innuen$d o$, in foriner tines, was always used instead of the word meaning, in these explanations. The general rule with regard to innuendoesis, that they must be merely cxplanatory, introducing no uew matter, but only referring to something previously mentioned.

Ivo, daughter of Cadmus and Harmonia, second wife of Athamas, king of Thebes, drew upon herself the anger of Juno by nursing the young Bacchus, the son of her sister, Semele. In order to favor her own children, she projected the murder of her step-children, Phryxus and Helle. Being warncd by their mother, Nephele, who appeared to them in a drean, they saved themselves by flight. Juno was still more highly incensed against Ino ly this attempt; she made Athamas, the husband of Ino, mad, and, in his fienzy, he dashed his eldest son by Ino, Learchus, against a rock. Ino ficd with her youngest son, Mclicerta, and threw herselt' with him into the sea. The body of the boy was carried by a dolphin to the shore, where king Sisyplus caused it to be buried, and instituted in honor of him the well-known Isthmian games ( $\varphi$. v.), as Ino and Melicerta werc made sea-deities, att the prayer of Venus. Ino was worshipped under the name of Leu.
cothea. According to another account, the body of Mclicerta was at first left unburied, and caused a drcadful pestilence, whereupon the oracle, being consulted, ordered that the body should be buried with the usual rites, and that ganes should be instituted in honor of Melicerta.
Inoculation. (Sec Small Pox, and Vaccination.)
In Palco (Ital.) ; an expression alluding to a stage performance. Oratorios were originally performed in Italy on a stage erected in the church; that is, in palco.
In Pontificalibus (Latin, in the full dress of a priest); frequently applied, in sport, to a person in full dress on any occasion.
Inquisition. The imincdiate cause of the erection of the tribunals of faith, was the sect of the Albigenses, the persecution of whom, in the 12th and 13th centuries, made the south of Francc a scene of blood. (See Albigenses.) The project of cxtirpating the rebellions members of the church, and of extending the papal powe: at the expense of the bishops, by means of the inquisition, was conceived by pope Innocent III (who ascended the papal chair in 1198), and was completed by his immediate successors. This tribunal, called the holy inquisition or the holy office (sanctum officium), was under the immediatc direction of the papal chair; it was to seck out heretics and adherents of fals: doctrines, and to pronounce its dreadful scntence against their fortune, thcir honor and their lives, without appeal. The process of this tribunal differed entirely from that of the civil courts. The iuformer was not only concealed, but rewarded by the inquisition. The accused was obliged to be his own accuser; suspected persons were secretly seized and thrown into prison. No bettcr instruments could be found for inquisitors, than the mendicant orders of monks, particularly the Franciscans and Dominicans, whom the pope employed to destroy the heretics, and inquirc into the conduct of bishops. Pope Gregory IX, in 1233, completed the design of his predecessors,and, as they had succceded in giving these inquisitorial monks, who were wholly dependent on the pope, an unlimited power, and in rendering the interfcrence of the temporal magistrates only nominal, the inquisition was successively introduced into several parts of Italy, and into some provinces of France; its power in the latter country being more limited than in the former. The tribunals of faith were admitted into Spain in the middlc of the 13th century, but a firm opposition was made to them, particularly in Cas-
tile and Lcon, and the bishops there maintained their exclusive jurisdiction in spiritual matters. But a change afterwards took place; and while, in other countries of Europe, the inquisition could never obtain a firm footing, but in some fell entirely into disuse, as in France, and in others, as in Vcnice, was closely watched by the civil power, an institution grew up in Spain, towards the end of the 15th century, which was the most renarkable of all the inquisitorial courts of the middle agcs, and differed much from the rest in its objects and organization. Ferdinand of Arragon, and Isabella of Castile, having united their power, made many efforts to break the strength of the nobles, and to render the royal authority absolute. The inquisition was used as a means of effecting their plans. There were three religious parties in Spain, Christians, Jews and Mohammedans. The Moors still maintained possession of the last remnant of their empire, the kingdom of Grenada, which was, however, already threatened by the arms of Ferdinand and Isabella. The Jews had their synagogues, and formed a distinct class in the principal cities of Spain. Commerce was principally in their liands; they were the lessees of the king and the noblcs, and suffered no oppression, being subject only to a moderate capitation tax, which they had been obliged to pay to the clergy since the year 1302. The riches which they had amassed by their industry, exposed them to great envy and hatred, which was nourished by the ignorant priests. The sermons of a fanatical monk, Fernando Martinez Nuícz, who preacled the persecution of the Jews as a good work, was the principal causc of the popular tumults in many cities, in 1391 and 1392 , in which this unhappy people was plundered, robbed and murdered. Many Jcws submitted to baptism, to save their lives, and the descendants of these unfortunate men were, for about 100 years, the first victims of inquisitorial zeal. In 1477, when several turbulent nobles had been reduced in the southern part of Spain, queen Isabella went to Seville with the cardinal Pedro Gonzalez de Mendoza: there this prelate, as archbishop of Seville, made the first attempt to introduce the inquisition. At his command, punishments were publicly and privately inflicted, and it was discovered, among other things, that many citizens of Scville, of Jewish origin, followed, in private, the manners and customs of their fathers. The cardinal charged some of the clergy privately to enlighten
the faith of these pcople, and to make the hypocrites true sons of the church. These teachers brought back many to the faith; but many, who persevered in their opposition to the doctrines of the church, were condemned and punished. After this prelude, the design was disclosed of extending the inquisition over the whole country ; and Mendoza laid the project before the sovereigns Ferdinand and Isabella. They approved of an institution, which, at the same time, suited the persecuting spirit of the age, and could be used as a powerful engine of state. The design was, by means of this institution, which was to be entirely dependent on the court, to oppress those who were, either secretly or openly, Jews or Mohammedans (and many Christian nobles belonged to the party of the Mohammedans, the standing allies of malcontents), to enrich the royal treasury, to which the property of the condemned was confiscated, and to limit the power of the nobles, and even of the clergy. In the assembly of the estates, held at Toledo, 1480, the ereetion of the new tribunal was urged by the cardinal. After the superior branches of ad-ministration-the supreme council of Castilc, the council of state, the board of finance, and the council of Arragon-had been confirmed by the cstates, the cardinal declared that it was necessary to cstablish a permanent tribunal, to take cognizance of matters of faith, and administer the ceclesiastical police. In spite of all opposition, it was determined to establish a tribunal, under the name of the general inquisition (general inquisicion supre$m a$ ), and the new court was soon opened in Seville (1481). Thomas de Torquemada, prior of the Dominican convent at Se govia, and father-confessor to the cardinal Mendoza, lad already been appointed by Ferdinand and Isabella, the first grand inquisitor, in 1478. He had 200 familiars and a guard of 50 horsemen, but he lived in continual fear of poison. The Dominican monastery at Seville soon became insufficient to contain the numerous prisoncis, and the king removed the court to the castle in the suburb of Triana. At the first auto da fe (act of faith), seven apostate Christians were burnt, and the number of penitents was much greater. Spanish writers relate, that above 17,000 gave themselves up to the inquisition, more than 2000 were condemned to the flames the first year, and great numbers fled to the neighboring countries. Many Jews escaped into Portugal, Africa and other places. The pope, however, had
opposed the establishment of the Spanish inquisition, as the conversion of an ecclesiastical into a secular tribunal. Soon after the appointment of the new inquisitor, he liad directed the arclibishop of Toledo, a warmenemy of Mendoza, to hold a solemm court over a teacher in Salamanca, who vyas charged with heretical opinions, and the inquisitor-general was repeatedly suminoned to Rome. Torquemada, however, did not obey the summons, but sent a friend to defend his cause. The contest between the pope and the Spanish court, was carried on with heat, until 1483, when Sixtus IV was obliged to yield, and acknowledge Torquemada as inquisitorgeneral of Castile and Leon. He was also authorized, by the papal bull, to establish inferior courts at pleasure, to remove those judges who had been appointed by the pope, and to regulate the manner of proreeding in inquiries respecting matters of faith according to the new plan. A later bull subjected Arragon, Valencia and Sicily, the hereditary dominions of Ferdinand, to the inquisitor-general of Castile; and thus the inquisition was the first tribunal whose jurisdiction extended over the two Spanish kingdoms of Castile and Arragon ; the Arragonese estates, at their session at Tarragona, in 1434, being obliged to swear to protect the inquisition. The introduction of the new tribunal was attended with risings and opposition in many places, excited by the cruelty of the inquisitors, and encouraged, perhaps, by the jealousy of the bishops; several places, particularly Saragossa, refused admission to the inquisitors, many of whom lost their lives; but the people were obliged to yield in the contest, and the kings locame the absolute judges in matters of faitl; the honor, the property and the life of every subject was in their hands. They named the grand inquisitor, and by them, or under their inmediate influence, were his assessors appointed, even the secular ones, two of whom were of the suprerne council of Castile, laymen being permitted to hold the office. This tribunal was thus wholly dependent on the court, and became a powerful instrument for establishing the arbitrary power of the king on the ruins of the national freedom; for putting down the clergy, who had previously acknowledged only the jurisdiction of the Roman see ; for oppressing the bold nobles, and taking away the privileges of the estates. The property of those who were condemned, fell to the king; and, although it had been granted to the inquisition, it was still at his dispo-
sition. Ferdinand and Isabella, indead, devoted a part of this property to found convents and hospitals ; but the church, notwithstanding, lost many possessions by means of the inquisition; and an ordinance, drawn by Torquemada (1487), proves that it was a source of revenue to the king, supplying the treasury, which was exhausted by the war: the inquisitorial chest was, indeed, at that time, drained by so many royal drafts, that the officers conld not obtain their salaries. The first ordinance, by Torquemada, dedicating the tribunal to the service of God and their majesties, bears date 1484. Among other articles are the following, showing the political importance of the institution. In every community, the grand inquisitor shall fix a period, from 30 to 40 days, within which time, heretics, and those who have relapsed from the faith, shall deliver themselves up to the inquisition. Pcnitent heretics and apostates, although pardoned, could hold no public office ; they could not become lessees, lawyers, physicians, apothecaries or grocers; they could not wear gold, silver or precious stones, or ride, or carry arms, during their whole life, under penalty of being declared guilty of a relapse into heresy; and they were obliged to give up a part of their property for the support of the war against the Moors. Those who did not surrender themselves within the time fixed, were deprived of their property irrevocably. The absent also, and those who had been long dead, could be condemned, provided there was sufficient evidence against them. The bones of those who were condemned after death, were dug up, and the property which they had left reverted to the king. Torquemada died in 1493 , and was buried in the Dominican convent at Avila, which had been built with the property taken from heretics, and was a monument of his cruel zeal. He had resigned his office two years before, being afflicted with the gout. According to another account, Torquemada did not retire so quietly from the stage. It is said that, suspecting that Ferdinand and Isabella, whom the wars with the Moors had involved in great pecuniary embarrassments, would be moved, by the great sums which were offered thein, to limit the privileges of the inquisition, and disturbed by this apprehension, he went to the royal palace, with a crucifix under his mantle. "I know your thoughts," said be boldly to the sovereigns; "behold the form of the crucified one, whom the godless Judas sold to his enemies for 30
pieces of silver. If you approve the act, yet sell him dearer. I here lay down my office, and ain free from all responsibility; but you shall give an account to God." He then laid down the cross, and left the palace. At first, the jurisdiction of the inquisition was not accurately defined; but it received a more regular organization by the ordinance of 1484, establishing brancles in the different provinces of Spain, under the dircetion of the inquisitor-general. In later times, the supreme tribunal was at Madrid. The inquisitor-general presided. Of the six or seven counsellors, whom he appointed on the nomination of the king, one, according to an ordinance of Philip III, must be a Dominican. He had a fiscal, two secretaries, a rcceiver, two relators, and several officials, as they were called, who were appointed by the grand inquisitor, in concurrence with the king. The inquisitorial council assembled cvery day, except on holydays, in the royal palace; on the last three days of the week, two members of the council of Castile were present at the meeting. It was the duty of some of the officers (calificadores) to explain whether any act or opinion was contrary to the doctrines of the church ; others were lawyers, who mercly had a deliberative voice. The sentence of the inquisition was definitive. It was the duty of the fiseal to examinc the witnesses, to give information of criminals, to demand their apprehension, and to aecuse them when seized. He was present at the examination of the witnesscs , at the torture, and at the meeting of the judges, where the votes were taken. It was the duty of the registers, besides the preparation of the necessary papers, to observe the accuser, the witnesses and the accused, during their legal cxamination, and to watch closely the slightest motion by which their feelings might betray themselves. The officials were persons sent by the court to arrest the aecused. A sccuestrador, who was obliged to give surcties to the office, kept an account of the confiseated property. The receiver took the money which came from the salc of sequestered property, and paid the salarics and drafts on the treasury. It is computed, that there were in Spain above 20,000 officers of the inquisition, called familiars, who served as spies und informers. These places were sought even by persons of rauk, on account of the great privileges connected with them. As soon as an aecuscr appeared, and the fiscal had called upon the eourt to excreise their authority, an order was issucd to seize the
accused. In an ordinanee of 1732 , it was made the duty of all believers, to inform the inquisition if they knew any one, living or dcad, present or absent, who had wandered from the faith, who did observe or had observed the law of Moses, or even spoken favorably of it; if they knew any onc, who followed or had followed the doctrines of Luther ; any one who had concluded an alliance with the devil, either expressly or virtually ; any one who possessed any heretical book, or the Koran, or the Bible in the Spanish tongue; or, int fine, if they knew any one who had harbored, received or favored heretics. If the accused did not appear at the third summons, he was excommunicated. From the moment that the prisoner was in the power of the court, he was cut off from the world. The prisons, called holy houses (casas santas), consisted of vaulted apartments, each divided into several square cells, which were about 10 feet high, and stood in two rows, one over the other. In the upper cells, a dim ray of light fell through a grate; the lower were smaller and darker. Eacli dungeon had two doors. The inner, which was bound with iron, had a grate through which food was introduced for the prisoner. The other door was opened, early in the morning, to air the cell. The prisoner was allowed no visits from his friends or relations; no book of devotion was given him; he was compelled to sit motionless and silent in his dark cell, and, if his feclings found vent in a tone of complaint, or even in a pious hymn, the ever-watchful keeper warned hiin to be silent. Only one captive was usually placed in each cell, unless for the purpose of making discoverics. At the first hearing, the aceused was called upon to confess his guilt. If he confessed the crime of which he was accused, he pronounced his own sentence, and his property was confiseated. If he declared himself innocent, contrary to the testimony of the witnesses, he was threatened with torture. The advocate who was appointed to defend him, could not speak to him, except in the presence of the inquisitors. The acensed was not confronted with the accuser nor the witncsses before the court, neither werc they made known to him ; and he was often subjected to the torture (q. v.), to extort a confession or to explain circunnstances which had not been fully explained by the witnesses. Those who escaped death by repentance and confessions, were obliged to abjure their errors, and to swear to submit to all the pains and penalties which the court
ordered. Imprisonment, often for life, scourging, and the loss of property, were the punishments to which the penitent was subjeeted. He was made infamous, as well as his children and grand-children. Wearing the san-benito (the blessed vest of penitenee, a sort of coarse, yellow tunie, with a cross on the breast and back, and painted over with devils) was a common method of punishment. An aecused person, who was fortunate enough to escape before the officers of the inquisition could seize him, was treated as an obstinate heretie. Summonses were posted up in all the public places, calling on him to appear. If he did not do this within a certain time, and if the evidence of the witnesses proved the eharges, lie was delivered over to the secular power, and burnt in effigy. Persons who had been dead more than 40 years, were eondemned, and, though their children retained possession of the property they had inlierited, yet they were dishonored, and rendered ineapable of holding any public office. When sentenec of death was pronounced against the aceused, the holy auto da fé was ordered. This usually took place on Sunday, between Trinity Sunday and Advent. At day-break, the solemn sound of the great bell of the eathedral called the faithful to the dreadful speetaele. Mcn of high rank pressed forward to offer their services in aecompanying the condemned, and grandees were often seen acting as familiars to the inquisition. The condemned appeared barefooted, clothed in the dreadful san-benito, with a conieal cap (caroza) on their heads. The Dominicans, with the banner of the inquisition, led the way. Then eame the penitents, who were to be punished by fines, \&c., and after the cross, whieh was borne behind the penitents, walked the unfortunate wretehes who were condemned to death. The effigies of those who had fled, and the bones of the dead who had been eondemned, appeared in black coffins, painted over with flaines and hellish forms; and the dreadful procession was elosed by monks and priests. It proceeded through the principal streets of the city to the chureh, where a sermon was preached, and the sentence was then pronounced. The convieted stood, during this act, before a crucifix, with an extinguished taper in their hands. As "the chureh never pollutes herself with blood," a servant of the inquisition, when this eeremony was finished, gave each of those who had been sentenced a blow with the hand, to signify that the inquisition had no longer any
power over them, and that the victims were abandoned (relaxados) to the secular arm. A civil offieer, " who was affectionately charged to treat them kindly and mereifully," now reecived the condenned, bound them with chains, and led them to the place of execution. They were then asked in what faith they would dic. Those who answered the Catholie, were first strangled; the rest were burnt alive. The autos da fe were spectaeles to which the people thronged as eagerly as to the celebration of a victory. Even the kings considered it a meritorious act to be present, with their courts, and to witness the agonies of the victims. In this manner did the inquisition proceed, in the times of its most dreadful activity. The Spaniards found their personal freedom so much restrained, even in the early period of the cxistence of this office, that one of the principal requests of the dizaffected, in the reign of Charles I, was, that the king should eompel the inquisition to act aceording to the principles of justice. But the important influence which this court had, in the course of the following century, both on the state and on the moral eharacter of the Spaniards, could not, at that time, have been antieipated. This noble and high-spirited people were mort debased by the dark power of the inquisition than by any other instrument of arbitrary government, and the stagnation of intelleetual aetion, which followed the discovery of America, concurred, with other fatal eauses, to diminish the industry of the people, to weaken the power of the state, and to prevent, for a long time, any progress to higher degrees of moral and intellectual improvement. In more modern times, when the spirit of persecution was restrained in almost all other countries of Europe, the original organization of the inquisition was but little changed; still the dread of this dark court gradually diminished. The horrible spectaele of an auto da fe was seldom witnessed during the last century, and the punishments of the inquisition were confined, in a considerable dcgree, to those men who had become obnoxious to justice. In 1762 , the grand inquisitor having, contrary to the express will of the king, published a bull, excommunicating a French book, was exiled to a monastery at a distance from Madrid. A royal decree forbade the inquisition to issue any commands without the consent of the king, and required the grand inquisitor, in the condemnation of books, to conform to the laws of the land, and to make known his prohibition only
by virtue of the power given him by his office, and not with the citation of bulls. The deeree also ordered that, before prohibiting any book, the author slould bc cited, that his defence might be hcard. In 1770, during the administration of Aranda, the power of the inquisition was limited to the punishment of obstinate heretics and apostates, and it was forbidden to imprison any of the king's subjects, without first fully proving their guilt. In 1784, it was determined that, if the inquisition instituted a process against a grandee, a minister, or, in short, against any officer of rank, its acts must be subjected to the royal inspection. If we consider the principal acts of the inquisition during the 18th century, we slall see that, notwithstanding the restraint excrcised over it, it still remained an instrument which, under favorable circumstances, might exert a terrible influence. There were 16 provincial inquisitions in Spain and the colonies, all subject to the supreme tribunal. As late as 1763 , we find that, at an cuto da fé at Llerena, somc obstinate hereties were committed to the flames, and, in 1777, the inquisition armed itself with all its terrors against a man who was guilty of nothing more than imprudence-the colebrated Olavides (q. v.); and, in 1780, a poor woman of Seville was declared guilty of witcheraft, and was burnt alive at the stake. With all the limits which had been set to its power, with all the mildness of the tribunal, whose principal officers, under the preceding reigns, had been mostly men of intelligence and moderation, still the odious spirit of the institution, and the unjust form of procedure, survived; and, until the moment when it was abolished by Napoleon (Dec. 4, 1808), the inquisition continued to be a powerful obstacle to the progress of the human intellect. The inquisition published annually a cataloguc of prohibited books, in which, anong some infidel and immoral works, many excellent or imnocent books were included. All the attempts of enlightencd men, towards effecting the destruction of this antiquated instrument of a dark policy, during the two last reigns, were without comnexion, and therefore without effect, and they sunk under the artifices which an all-powerful favorite, the clergy and the inquisition employed for their common advantage. The process, concluded as late as 1806 , against two learned and excellent canons-Autonio and Geronimo Cuesta, whose destruction their unworthy bishop, under the protection of the prince of peace, had striven to
effect-was the last sign of life in this terrible court, and plainly shows that intrigue, when united with the secret power of the inquisition, had great influence in Spain, even in recent times; and the decision of the king, which declared the accused innocent, and condemned the proccedings of the inquisition as contrary to law, was yet tender towards the inquisitors, and confirmed the general opinion, which punished those who had fallen into the power of the inquisition with the loss of public estcem. According to the estimate of Llorente, the number of victims of the Spanish inquisition, from 1481 to 1808 , anounted to 341,021 . Of these, 31,912 were burnt, 17,659 burnt in effigy, and 291,456 were subjected to severe penance. Ferdinand VII reëstablished (1814) the inquisition, which had been abolished during the French rule in Spain; but, on the adoption of the constitution of the cortes (1820), it was again abolished, and was not revived in 1823 , ly the advicc of the European powers.-In Portugal, the inquisition was established, after a long contest, in 155\%. The supreme tribunal was in Lisbon; inferior courts, established in the other cities, were subject to this. The grand inquisitor was nominated by the king, and confirmed by the pope. John of Braganza, after the delivery of the country from the Spanish yoke, wislı ed to destroy the inquisition. But he succeeded only in depriving it of the right of confiscating the property of the condemned. On this account, he was excommunicated after his death, and his wife was obliged to permit his body to receive absolution. As the Spaniards took the inquisition with them to Ainerica, so the Portuguese carried it to India, and established it at Goa. In the 18th century, the power of the inquisition in Portugal was restrained by the ordinance which commanded that the accuser of the court should furnish the accused with the heads of the accusation and the names of the witnesses, that the accused should be allowed to have the aid of counsel, and that no sentence of the inquisition should be executed until confirmed by the royal council. The late king abolished the inquisition, not only in Portugal, but also in Brazil and the East Indies, and caused all its records at Goa to be burnt.-The inquisition restorcd in Rome by Pius VII, has jurisdiction only over the clergy, and is not therefore dangerous to those who are not Catholics. In 1826, it condemned to death Caschiur, a pupil of the Propaganda, who was appointed patriarch of

Memphis, but not accepted by the viceroy of Egypt. The pope changed the punishment into imprisonment for life. His crime is unknown.--Among the late works on the inquisition, are Llorente's History of the Spanish Inquisition (Paris, 1815 ; in English, London, 1827), and Antonio Puigblanch's Inquisition Unmasked, from the Spanish (London, 1816). The Reeords of the Inquisition, from the original MSS., taken from the Inquisitorial Palace at Barcelona, when it was stormed by the Insurrectionists in 1819 (Boston, 1828), contain intercsting reports of some particular eases.

Inquisition, Proeess of. This phrase is used, on the continent of Europe, to designate that kind of criminal process in whieh the court takes upon itself the investigation of an offence, by appointing one of its members to eolleet the proofs of the crime, as, for instance, in the German courts. Thus the proecss of inquisition differs from what is called the process of accusation, where the court stands between the government and the accused, as it does in England and the U. States. In civil cases, the process of accusation prevails also in the German courts. (Sec Process ; also Accusation, and Act.)
I. N. R. I. ; abbreviation for Jesus $\mathcal{N} a z-$ arenus Rex Judrorum (Jcsus of Nazareth, King of the Jews); the inscription which Pilate put over the head of Christ when he was crucified.

Insanity. (See Menial Derangement.)
Inscription, in arehæology, is used to designate any monumental writing, intended to commenorate some remarkable event, to preserve the name of the builder of a monument, or of the person in wliose honor it was erected, \&c. Inscriptions are one of the most important sources of history, particularly for the earlier periods of nations, when other written documents are rare or entirely wanting, and tradition is the only medium of historieal knowledge. After the invention of the alphabet, the earliest application of the art of. writing is by engravings on wood, stone or metals ; and, after other and more convenient materials have come into common use, this method is still preferred for many purposes, on account of the greater durability of the material. We have inscriptions, therefore, from all nations who have arrived at a certain stage of civilization, on walls of temples, tombs, triumphal monuments, tablets, vases, \&c., containing laws, decrees, treaties, religious legends, moral, philosophical or scientific precepts, chronological tables, \&c., generally con-
temporary with the events they commemoratc. Indian, Persian, Egyptian, Phœnician, Etruscan, Grecian, Roman, \&c., inscriptions, have been diligently studied, and have madc important revelations in the hands of leamed and ingenious men. The Egyptian monuments are numerous, and covered with inscriptions, which the learned have only recently boen able to decipher. They are in the hicroglyphic, hieratic and demotic characters, in the Coptic or old Egyptian language, and have already served to throw much light on the imperfect accounts of historians, and to supply many deficiencies in our knowledge of Egyptian history. (See Hieroglyphics.) The Phonician monuments, bearing inscriptions, are fcw. The language was employed on the medals of the Phoenician cities till the time of Alexander, and was carried to Carthage, Cadiz, \&c., by this commercial people. Barthélemy (Mém. de l'Acad. des Belles Lettres, tom. Xxxii), Swinton, Chishull, have written on this subject, but it is still involved in olsscurity. The inscriptions on the ruins of Pasargadæ, Babylon and Persepolis (q. v.), are in the arrow-headed character, of which there are two kinds, the Persian and the Babylonian: the former consists of three sorts of characters, all of which are commonly used in the same inscription. The Persian inscriptions, so far as they have been deciphered, appear to contain merely names of the kings, with wishes for their welfare. The Babylonian characters are of two sorts, and are sometimes called nail-headed, in distinction from the Persian. The little that is known relating to the arrowheaded characters may be found in Heeren's Ideen, i, 1; Hager's Diss. on the Babylonian Inscript. (London, 1801); Von Hammer's Fundgruben des Orients, iv, 4; Alexander's Travels from India to Engrland (London, 1827). The ancient Arabic inscriptions are in the Cufic character (see Cufic Writing), and the old Hebrew are in the Samaritan character. Greek art was carried from its native soil into all the countries around the Mediterranean, by commerce and colonies, and, by the arms of Alexander and his successors, cven into the remote East. The Greek language appears on a great number of monuments in this extensive region, written in different characters, according to the age of the inscription, and in different dialects in different countries. The Doric dialect is perceptible in the monuments of Dorian colonies, and so with the others. In this manner, where there are two cities
or anists of the same name, it may be determined to which the work of art should be attributed by the dialect of the inscription. The forms of the Greek letters underwent some changes, which must be attended to in the study of inscriptions: the absence or admission of certain letters ( as $H$ and $\Omega$ ), the different forms of the sigma ( $\Sigma, \mathrm{C}$, or S ), of the epsilon (as E or $(\mathrm{E})$, of the 0 (as round or square, $\square$ ), of the lambda (as $\Lambda$ or L), \& c., may aid in determining the age of a monument. The early inscriptions are often from right to left, sometimes in the boustrophedon (q. v.), which was abandoned about the middle of the fifth century before Clirist. (See the 8 th vol. of the Thesaur. Antiq. Graec. of Gronovius; the works of Pococke, Chandler, and other travellers; Montfaucon's Paloographia Graca; Mém. de l'Académie des Inscriptions.) The Etruscan inscriptions, on vases and nonuments, have occasioned much dispute among the learned. Niebuhr, in his Roman History, says, that the assertion of Dionysius, that the Etruscans spoke a peculiar language, deserves full credit, since it was, in his time, a living language; and it is fully confirmed by the inscriptions extant, in the words of which no analogy with the Greek or Latin can be detected; and he adds in a note, that, among all the Etruscan words of which explanations have been pretended, only two have been really explained. See, however, Lanzi's Saggi di Lingua Etrusca (Rome, 1789, 3 vols.); Gori's Museum Etruscum ; and Inghirami's Monument. Eruschi (1826). From the Eugubian Tables, discovered in 1444, Buonarotti, Gori and others endeavored to form an alphabet : the former thought he had discovered 24, the latter 16 letters. The Latin inscriptions are the most frequently met with. They are found on monuments of all descriptions; some very ancient ones are yet preserved. (Sce Grævius's Thesaur. Antiq. Rom., vol.4, and Fabricius's Bibliotheca Iatina, lib. iv, c. 3.) Inscriptions are called bilingual, when the claracters are taken from two different languages, as was sometimes done by the vanquished people, in compliment to their conquerors. Inscriptions are sometimes repeated in different languages, or in different characters, on the same monument; as, for instance, in the language of the province and in the Greek or Lativ, in the times of the Greek and Roman empires. Some of the general collections of inscriptions are, Gruter's Inscriptiones antique. Cura Greevii (Amsterdam, 1707,

2 vols., folio) ; Muratori's Thesaurus Vtt. Inscrip. (Milan, 1739, 4 vols.) Consult, also, the works of Selden, Prideaux, Chandler, and Mattaire on the Parian (Arundelian) marbles (q.v.) ; the Archaologia Britannica 1779 to 1822, 21 vols., 4to.; the Mémoires de l'Académie des Inscriptions; and the numerous works on particular countries, cities or collections. (Sce Medal, Vasp, Obelisks, Pyramids, \&c.)

Inscriptions, Academy of. (Sec Academy.)

Insectivora; animals which live, or are thought to live, on insects. Divisions of this sort cannot be very exact. Some insectivora drink blood with delight, or eat grass occasionally, and some of the beasts of prey, whose principal food is larger game, are fond of flies. Among birds, the insectivora form a very numerous class.

Insects, in natural history. Under the head Entomology, an account is given of Latreille's system of this department of natural history. The following description of the characteristics of insects applies to the crustacea and arachnides, as well as to insects, strictly so called. Insects are not furnished with red blood, but their vessels contain a transparent lymph. This may serve to distinguish them from the superior animals, but it is common to them with many of the inferior; though Cuvier has demonstrated the existence of a kind of red blood in some of the vermes. They are destitute of internal bones, but, in place of them, are fumished with a hard external covering, to which the muscles are attached, which serves them both for skin and bones; they are likewise without a spine formed of vertebre, which is found in all the superior classes of animals. They are furnished with articulated legs, six or more ; this circumstance distinguishes them from all other animals destitute of a spine formed of vertebre. A very great number of insects undergo a metamorphosis: this takes place in all the winged insects. They frequently change their skin in the progress of their growth. A very great number of insects are furnished with jaws placed transversely. The wings with which a very great number of insects are furnished, distinguish them from all other animals, which are not furnished with a spine composed of vertebre. Insects are generally oviparous; scorpions and aphides, during the summer months, are viviparous. Insects have no nostrils; are destitute of voice; they are not furnished with a distinct heart, composed of ventri-
cle and auricle. Incubation is not nccessary for hatching their eggs. Insects, like all other organized bodics, which form the animal and vegetable kingdoms, are composed of fluids and solids. In the four superior classes of animals, viz., mammalia, birds, reptiles and fishes, the bones form the most solid part, and occupy the interior part both of the trunk and limbs; they are surrounded with muscles, ligaments, cellular membrane, and skin. The matter is reversed in the class of insects; the exterior part is most solid, serving at the same time both for skin and hones; it encloses the muscles and internal organs, gives firmness to the whole body, and, by means of its articulations, the limbs, and different parts of the body, perform their various motions. In many insects, such as the crab, lobster, \&cc., the external covering is very hard, and destitute of organization; it is composed of a calcareous earth, mixed with a small quantity of gelatine, formed by an exudation from the surface of the body. As its great harduess would check the growth of the animal, nature has provided a remedy; all of thesc crustaceous insects cast their shell annually. The skin of most of the other insects is softer, and organized, being formed of a number of thin membranes, adhering closely to onc another, and putting on the appearance of horn. It owes its greater sofness to a larger proportion of gelatine. The museles of insects consist of fibres formed of fasciculi; therc are commonly but two muscles to produce rnotion in any of their limbs, the one an extensor, the other a flexor. These muscles are commonly attached to a tendon, composed of a horny substance, connected to the part which they are destincd to put in motion. In most insects, the brain is situated a little above the cesophagus; it divides into two large branches, which surround the œesophagus,and unite again under it, from which junction a whitish nervous cord proceeds, corresponding to the spinal marrow of the superior animals, which extends the whole length of the body, forming in its course 12 or 13 knots or ganglions, from each of which small nerves procced to different parts of the body. Whether insects be endowed with any senses different from those of the superior animals, cannot easily be ascertained. It appears pretty evident, that they possess vision, hearing, smell and touch; as to the sense of taste, we are left to conjecture; for we are acquainted with no facts by which we can prove that insects do or do not enjoy the sense of
taste. The eyes of insects are of two kinds; the one compound, composed of lenses, large, and only two in number; the other are sinall, smooth, and vary in number from two to eight. The small lenses, which form the compound eyes, are very numerous; 8000 have been counted in a common house fly, and 1700 in a buttcrfly. The far greater number of insects have only two eyes; but some have three, as the scolopendra; some four, as the gyrinus; some six, as scorpions; some eight, as spiders. The eyes of insects are commonly immovable ; crabs, however, have the power of moving their eyes. That insects are endowed with the sense of hearing, can no longer be disputed, since frog-hoppers, crickets, \&c., furnish us with undeniable proofs of the fact. Nuturc has provided the males of these insects with the means of calling their femalcs, by an instrument fitted to produce a sound which is heard by the latter. The male and female death-watch give notice of each other's presence, ly repeatedly striking with their inandibles against old wood, \&c., their favorite haunts. Their ears havc been discovered to be placed at the root of their antennæ, and can be distinctly seen in some of the larger kinds, as the lobster. The antcnnæ or feelers seem to be merely instruments of feeling, though some naturalists have thought them to be organs of tasting and smelling; and others, of a sense unknown to us. The amazing variety in the mouths of insccts, is evident from the fact, that their wholc classification, in the Fabrician system, is founded on it. That insects enjoy the faculty of smelling is very evident; it is the most perfect of all thcir senses. Beetles of various sorts, the different species of dermestes, flies, \&c., perceive at a considerable distance the smell of ordure and dead bodies, and resort in swanns to the situations in which they occur, either for the purpose of procuring food, or laying their cggs. Insects feed on a great variety of substances; there are few things, either in the vegetable or animal kingdom, which are not consumed by some of them. The leaves, flowers, fruit, and even the ligneous parts of vegetables, afford nourish. ment to a very numerous class; animal bodies, both dead and alive, even man himself, is preyed on by many of them: several species of the louse, of the acarus, of the gnat, and the common flea, draw their nourishment from the surface of his body; the pulex ulcerans penetrates the cuticle, and even enters his flesh. A species of gadfly (œestrus hominis) deposits its
eggs under his skin, where the larve feed. Other caterpillars insinuate themselves into different cavitics of his body. All the inferior animals have their peculiar parasitical insects, which feed on them during their lifc. There are some insects which can feed only on one specics. Many caterpillars, both of moths and butterflies, fecd on the leaves of some particular vegetable, and would die, could they not ohtain this. There are others which can make use of two or three kinds of vegetables, but which never attain full perfection, except when they are fed on one particular kind; for example, the common silk-worm eats readily all the species of mulberry, and even common lettuce, but attains its greatest size, and produces most silk, when fed on the white mulberry. There are a great many which feed indiscriminately on a variety of vegetables. Almost all herbivorous insects eat a great deal, and very frequently ; and most of them perish, if deprived of food but for a short time. Carnivorous insects can live a long while without food, as the carabus, ditiscus, \&c. As many insects cannot transport themsclves easily, in quest of food, to places at a distance from one another, nature has furnislied the perfect insects of many species with an instinct, which leads them to deposit their eggs in situations where the larve, as soon as hatched, may find that kind of food which is best adapted to their nature. Most of the butterflies, though they flutter about, and collect the nectareous juice of a variety of flowers, as food for themselves, always deposit their eggs on or near to those vegetables which are destined, by nature, to beconne the food of their larvæ. The various species of ichneumon deposit their eggs in the bodies of those insects on which their larvæ feed. (See Ichneumon.) The sirex and sphex are likewise careful to deposit their eggs in situations where their larva, when liatched, may find subsistence. The sphex figulus deposits its eggs on the bodies of spiders which it las killed, and enclosed in a cell composed of clay. Some insects, at different periods of their existence, make use of aliment of very different properties; the larve of some are carnivorous, while the perfect insect feeds on the nectareous juice of flowers, e. g. sirex, ichneumon, \&c. The larva of most of the lepidopterous insects feed on the leaves and young shoots of vegetables, while the perfect insects either take no food at all, or subsist on the sweet juice which they extract from flowers: indeed, the construction of their mouths

[^1]prevents them from taking any other than fluid food. We shall now refer to the functions of insects, beginning with respiration, which is the act of inhaling and exhaling the air into and out of the lungs. Mammalia, birds, and most of the amplibia, breathe through the mouth and nostrils. The air, when received into the lungs, is mixed with the blood, and imparts to it something necessary, and carries ofi something noxious. Some authors have asserted that insects have no lungs; but latcr experiments and observations show that no species is without them, or, at least, something similar to them; and, in many insects, they are larger in proportion to their bodies than in other animals. In most of them, they lic at or near the surface of the body, and send out lateral pores or tracheæ. The respiration of insects has attracted the attention of many naturalists; and it is found that insects do not breatlie through the mouth or nostrils; that there are a number of vessels, for the reception of air, placed along on each side of the borly, commonly called spiracula, which are subdivided into a number of smaller vessels, or bronchiæ; that the vessels, or tracher, which proceed from the pores on the sides, are not composed of a simple membrane, but are tubes formed of circular rugæ; that the spiracula are distinguishable, and are covered with a small scaly plate, witl an opening in the middle like a button-hole, which is furnished with membrancs, or threads, to prevent the admission of extraneous bodics. Inscets are the only animals without vertebre, in which the sexes are distinguished. Copulation is performed in them by the introduction of the parts of generation of the male into those of the female. All insects are either male or female, except in a fcw of the genera of the order hymenoptera, such as the bee, ant, \&uc., where individuals are to be found, which arc neither male nor feinale, and, on that account, called neuters. Among the bces, the neuters form the fur greater part of the community, and perform the office of laborers. Among the ants, the neuters are very numerous, and constitute the only active members of the society. It has been alleged, that these neuters are nothing but females, whose parts have not bcen developed for want of proper nourishment. Oliver, however, after strict examination, is disposed to think them really different, though he does not adduce facts sufficient to establisl his opinion. The parts which distinguish the male from the female may be
divided into two classes, viz., 1. those which are not directly comnected with generation; 2. those which are absolutely necessary for the purposes of generation. The circumstances which have no direct communication with generation, which serve to point out the distinction between the sexes, are the difference of size observable in the male and female; the brightness of the color in each; the form and number of articulations of the antennæ; the size and form of their wings; the presence or absence of a sting. The male is always sinaller than the female; the female ant is nearly six times larger than the male: the female cochineal is from 12 to 15 times the size of the male; the female termes is 200 or 300 times the size of the male; the colors of the male are commonly much more brilliant than those of the female ; this is particularly the case in lepidopterous insects; in some insects, the color of the male is totally different from that of the female: the antcunæ of the male are commonly of a different form, and larger than those of the feinale: frequently the males are furnished with wings, while the females have none ; the lampyris, coccus and blatta, and several inoths, afford an example of this: the female bee is furnished with a sting, while the male is destitute of one: the males of some insects are furnished with`sharp, prominent points, rescubling borns, situated either on the head or breast, which are either not perceptible, or very faintly marked, in the female. The parts essential to generation afford the best distinguisling mark; in most insecta, they are situated near the extremity of the rectum; by pressing the abdomen near to the anus, they may frequently be nade to protrude; but the parts of generation are not always situated near the anus; in the spiders, they are situated in the feelers; in the libellula, the male organ is situated in the breast, while that of the female is placed at the anus. The eggs of insects are of two sorts; the first membranaceous, like the eggs of the tortoise and the other reptiles; the other covered with a shell, like those of the birds. Their figure varies exceedingly; some are round, some elliptical, some lenticular, some cylindrical, some pyramidal, some flat, some square; but the round and oval are the inost common. The eggs of insects seldom increase in size, from the time they liave been deposited by the parent till they are hatched: those of the tenthredo, however, and of some others, are observed to increase in bulk.

At first, there is nothing to be perceived in the eggs of insects but a watery fluid ; after some little time, an obscure point is observable in the centre, which, according to Swammerdam, is not the insect itself, but only its lead, which first acquires consistence and color; and the same author alleges, that insects do not increase in bulk in the egg, but that their parts only acquire shape and consistence. Under the shell of the egg, there is a thin and very delicate pellicle, in which the insect is enveloped, which may be compared to the chorion and amnios, which surround the foetus in quadrupeds. The little insect remains in the egg till the fluids are dissipated, and till its limbs have acquired strength to break the egg and make its escape; the different species of inscets remain enclosed in the egg for very different periods; some continue enclosed ouly a few days, others remain for several months. The eggs of many insects remain without being hatched during the whole winter, and the young insects do not come forth from them till the scason at which the leaves of the vegetables, on which they feed, begin to expand. When the insects are ready to break their prison, they commonly attempt to pierce the shell with their teeth, and form a circular hole, through which they put forth first one leg, and then another, till they extricate themselves entirely. Insects afford nourishment to a great number of the superior animals; many of the fishes, reptiles and birds, draw the principal part of their sustenance from that source. The immense swarms of different species of crab, which abound in every sea, dircctly or indirectly form the principal part of the food of the cod, haddock, herring, and a great variety of fishes. The snake, lizard, frog, and many other reptiles, feed both on land and aquatic insects. Gallinaceous fowls, and many of the small birds, \&c., feed on insects. Swallows, indeed, feed entirely on winged insects. They afford food, likewise, to many of the mammalia, viz., to many species of the bat, to the ant-eater, \&c., and even to man himself. Many species of crab, viz., lolister, common cral), shrimp, prawn, land-crab, \&cc., are reckoned delicacies. The larvæ of some coleopterous insects and locusts form part of the food of man. Insects, likewise, by consuming decayed animal and vegetable matter, whicl, if left to undergo the putrefactive process on the surface of the ground, might taint the atmosphere with pestilential vapors, preserve the air pure for the respiration of man and other ani-
mals. On the other hand, the injuries which they inflict upon us arc extensive and complicated; and the remedies which we attempt, are often aggravations of the evil, because they are directed by an ignorance of the economy of nature. The little knowledge which we have of the modes by which insects may be impeded in their destruction of much that is valuable to us, has probably proceeded from our contempt of their individual insignificance. The security of property has ceased to be endangered by quadrupeds of prey, and yet our gardens are ravaged by aphides and caterpillars. It is somewhat startling, to affirm that the condition of the human race is seriously injured by these petty annoyances; but it is perfectly true, that the art and industry of man have not yet been able to overcome the collective force, the individual perseverance, and the complicated machinery of destruction which insects employ. A small ant, according to a most careful and philosophical observer (Humboldt), opposes almost invincible obstacles to the progress of civilization in many parts of the equinoctial zone. These animals devour paper and parchment; they destroy every book and manuscript. Many provinces of Spanish America cannot, in consequence, show a written document of a hundred years' existence. "What developement," he adds, "can the civilization of a people assume, if there be nothing to connect the present with the past ; if the depositories of human knowledge must be constantly renewed; if the monuments of genius and wisdom cannot be transmitted to posterity?" Again, there are beetles which deposit their larve in trees, in such formidable numbers, that whole forests perish beyond the power of remedy. The pines of the Hartz have thus been destroyed to an enormous extent; and at one place in South Carolina, at least 90 trees in every 100 , upon a tract of 2000 acres, were swept away by a small, black, winged bug. Wilson, the listorian of American birds, speaking of the labors of the ivory-billed wood-pecker, says, "Would it be believed that the larvie of an insect, or fly, no larger than a grain of rice, should silently, and in onc season, destroy some thousand acres of pine trees, many of them from two to three fect in diameter, and 150 feet high? In some places, the whole woods, as far as you can see around you, are dead, stripped of the bark, their wintry-looking arms and bare trunks bleaching in the sun, and tumbling in ruins before every blast." The
subterraneous larvæ of a species of beetle has often caused a complete failure of the seed-corn, as in the district of Halle in 1812. The corn-weevil, which extracts the flour from grain, leaving the husk behind, will destroy the contents of the largest storehouses in a very short period. The wire-worm and the turnip-fly are dreaded by every farmer. The ravages of the locust are too well known not to be at once recollected, as an example of the formidable collective power of the insect race. The white ants of tropical countries sweep away whole villages, with as much certainty as a fire or an inundation; ships even have been destroyed by these indefatigable republics, and the docks and embankments of Europe have been threatened by such minute ravagers.

## Insolvency. (See Bankrupt.)

Instance. On the European continent, a court is said to be of the first instance, when it has original jurisdiction of a case; of the second instance, when it has appellate jurisdiction from a lower court; of the third instance, when it has appellate jurisdiction fron courts of the second instance. In some cases, generally criminal, a court may be of the first or second instance, according to the place where the process was begun; for instance, if a man is tried in Prussia for a high crime, and found guilty, he appeals, and the case is sent to another criminal court, chosen by the government, which, in this case, is of the second instance; while, in the next case, perhaps, the situation of the two courts may be reversed. To absolve ab instantia means to absolve a person from an accusation, without carrying through the process.

Instinct (from the Latin instinctus); that impulse, produced by the peculiar nature of an animal, which prompts it to do certain things, without being directed, in acting thus, by reflection, and which is immediately connected with its own individual preservation, or with that of its kind. Thus the new-born duck hastens to the water, the infant sucks, without being taught to do so; all animals eat when they feel hunger, drink when they are thirsty, by instinct. All the instincts of animals are directed to the preservation either of the individual or of the genus. They appear in the selection of food, avoiding of injurious substances, taking care of their young, and providing for them before they are born; as the bird, for instance, builds its nest to receive its future progeny. The instinct of motion, and the opposite instinct, which compels
the bird, for instance, to remain on her eggs, at the period of incubation, are equally strong. The building of dwellings is, in the case of many animals, a highly curious exercise of instinct; as, for instance, in the case of the beaver and the bee. They are evidently actuated by instinct, as they always succeed the first time they attempt it. Certain instincts lead to certain changes; for instance, to migrating, or to coupling at certain times, to building nests, and expelling the young when they are fledged, and able to take care of themselves. Instinct sometimes misleads; as, for instance, the fly lays its eggs in the flower of the stapelia hirsuta, deceived by the smell of this plant, which resembles that of meat in a state of putrefaction. . The young, in this case, perish from want of food. Two things are wortly to be remarked. Men often act from instinct, when least aware of it, and often explain actions in other animals, by instinct, in which they cannot be actuated by it, but in which memory, and the prower of combination, must necessarily be supposed. Numberless anecdotes of doys prove this. The intelligence of animals is an extremely interesting subject, and though there are several highly valuable works on it, yct it is far from having been thoroughly investigated.

Institute, the National. Thislcarne:l body, which was organized after the tirst storm of the revolution, during which all the academies of leaming and arts in France lad perished, was formed hy the decree of the 3d Brumaire of the vear 4 , from the Académie Française, the - Icadémie des Sciences, and the Académie des Belles Lettres et Inscriptions. Its object was the advanceunent of the arts and sciences by continual researclies, by the rublication of new discoveries, and by a correspondence with the most distinguished scholars of all countries, and especially ly promoting such scientific and literary undertakings as would tend to the national welfare and glory. The institute was composed of a number of members residing at Paris, and an equal number of associates (associes) in the different parts of the republic. Each class could also choose eight learned foreigners as associates. It was at first divided into three classes, each of which was subdivided into several sections. The first class embraced the physical and mathematical sciences, the second the moral and historical, and the third literature and the fine arts. The number of active members, exclusive of the associés, was limited to 144 . The
national institute received, however, its final organization by a decree of the $3 d$ Pluviose of the year 11 (January 23, 1803). It was then divided into 4 classes -1 . the class of the physical and mathematical sciences, consisting of 65 members; 2. the class of the French language and literature, consisting of 40 members; 3. the class of history and ancient literature, of 40 menlbers; and 4 . the class of the fine arts, with 28 members. In the last years of the imperial govermment, the title of the national institute was cx chauged for that of the imperial institutc. The restoration of the Bourbons gave rise to new changes in this learned body, which restored it, in some degree, to its original condition. A royal ordinance of March 21, 1816, first restored the former names of the classes, so that the name of institute was applied only to the whol: body collectively. The same ordinancs assigned the first rank to the Academie Française, as being the oldest; the next rank to the . Academie des Inscriptions et. Belles Lettres; the third to the $\operatorname{Académie~des~}$ Sciences; and the last to the Acadénie des Bcaux Arts. These united academies were under the personal direction of the king, and each liad an independent organization, and a free exercise of the powers committed to them. To each academy were attached 10 honorary members, who lad merely the right of being prescut at the meetings. Such of the former honorary members and academicians as had returned with the court, became, as a matter of right, honorary members of their respective academies. A list of names, appended to the royal decree, determined the nembers. The Academie Française is well known to be charged with the composition of a French dictionary. Villenain, the successor of Fontanes, and Cavier, are the most eloquent members. As every one who has brought a vauderille on the stage with success, thinks himself entitled to a place among the 40 inembers of this class, these places afford the most fruitful suljeets for squibs and satire. The Académie des Inscriptions ct Belles Lettres has lately limited its members to 30 . It has always beeu considered a great mark of distinction to be an associé étranger of this class. The number of corresponding members is unlimited. The most distinguished scholars, both in and out of Europe, are thus connected with the society. Committees of this academy superintend the erection of public monuments, and the preservation and description of those already
in existence. Sacy, Daunou, Caussin, Letronne, Boissonade, wcre chosen from this academy to continue the Notices et Extraits des Manuscripts, de la Bibl. du Roy. The editing of the Journal des $S a-$ vans, to which the members of all the academies contribute, devolves principally on this academy. They lave the distribution of prizes of considerable value. The Académie des Sciences is divided, as formerly, into the two principal departments of the physical and mathematical sciences, and retains most of its earlier regulations, made in the time of the republic. The number of its associés etrangers is limited to 10. Cuvier is perpetual secretary of the physical branch, Fourier of the mathematical. The two secretaries are not confined to a particular section; they belong to all. The Académie des Beaux Arts has five sections. A committee of this acadeny is charged with the publication of a dictionary of the fine arts. The annual clianges which take place in the academies may be learned from the calendar called Institut Royal de France, published by Firmin Didot, printer to the institute.

Institutiones. (See Corpus Juris, and Civil Law.)

Instrument, in music ; any sonorons body, artificially constructed for the production of musical sound. Musical instruments are divided into three kindswind instruments, stringed instruments, and instruments of percussion. Of the stringed instruments among the ancients, the nost known are the lyre, psalterium, trigonium, simmicium, epandoron, \&c. The principal wind iustruments were the tibia, fistula, tuba, cornu, and lituns; those of percussion, the tympanum, cymbalum, crepitaculum, tintinabulum, and crotalum.

Ivstrumental Music; music produced by instruments, as contradistinguished from vocal music. The tern instrument$a l$ is particularly applied to the greater compositions, in which the human voice las uo part. The first instrument invented was probably the pipe or flute. An idle shepherd might very naturally, from accident, or in imitation of the effects of the wind, blow through a simple reed, and thus invent the pipe, from which the flute would readily originate. The pipe is, in fact, found among many savages. The invention of stringed instruments, as they are more artificial, is of later origin. The instrumental music of the Greeks was confined to a few instruments, among which the flute, the cithara, the sackbut, though not precisely like those instruments
among the moderns, were the most important. The violin was invented in the middle ages, and soon became the principal instrument, taking place above the flute, though the latter is of much more ancient origin, because the playing on a stringed instrument is less fatiguing, and the tone of the violin is more distinct from the human voice, and, therefore, better fitted to be used with it ; besides, the instrument permits much more perfect execution. Until the middle of the last century, the Italian composers used no other instruments in their great pieces, than violins and bass-viols; at that time, however, they began to use the hautboy and the horn ; but the flite has never been much esteemed in Italy, particularly in music exclusively instrumental. These were the only wind instruments in Italy, used in instrumental music, until the end of the last century; and even to this day, the Italians use wind instruments much less than the Germans, and particularly the French. Since Mozart, every instrument has been used, which appeared adapted to answer a particular purpose. This is the cause of the fewness of the notes in the Italian, and of their great number in German, and their excess in the modern French scores. In general, symphonies and overtures, solos, duets, terzettos, quartettos, quintettos, \&c., sonatas, fantasias, concerts for single instruments,dances, marches, \&c., belong to instrumental music.
Insurance is a contract, whereby, for a stipulated consideration, called a premium, one party undertakes to indennify another against certain risks. The party undertaking to make the indemnity is called the insurer or underwriter, and the one to be indennified, the assured or insured. The instrument, by which the contract is made, is denominated a policy; the events or causes of loss insured against, risks or perils; and the thing insured, the subject or insurable interest. Marine insurance relates to property and risks at sea ; insurance of propcrty on shore against fire, is called fire insurance; and the written contracts, in such cases, are often denominated fire policies. Policies on lives are another description of this contract, whereby a party, for a certain prenium, agrces to pay a certain sum, if a person, to whose life it relates, shall die within a time specified. These policies, however, nsually make an exception of death by suicide. There was a kind of insurance in use, among the Greeks and Romans, called bottomry or respondentia,
which is, where the owner of a vessel or goods, borrows money npon bottomry (q. v.) upon the vessel, or upon respondentia on the goods, for a certain voyage, agreeing, that if the ship or goods arrive at a certain port, the money slaall be repaid, and also interest, exccerling the legal rate; but if lost by the risks specified in the bond, before arriving at the port named, the lender is to lose the money loaned. This risk of losing the whole capital, is the cause of the excess of interest allowed in case of the arrival of the ship or goods ; and it is called marine interest, which ought to be equal to the common rate of intercst, added to the rate of premium, for insuring the slip or goods for the same voyage against the same risks. This sort of contract was anciently in use, and, as the laws then gave less security, or, at lcast, as credit and confidence were not so widely diffused, and correspondence was less extensive among merchants, it was usual for the lender to send some person with the property, to receive repayment of the money loaned and the marine interest, at the port where the risk terminated. In modern times, it is not usual to send any person with the property, who would be of no service during the voyage; and, at its termination, some agent of the lender, at the port of arrival, if he is not there himself, looks after his interest. The wide extension of corrcspondence, among mercliants of all parts of the world, in modern times, gives a facility for this purpose, and renders the execution of this, as well as other comincricial contracts, more economical, and, at the same time, more secure. But contracts of insurance, strictly so called, are of modern invention ; and their importance, in relation to commerce, is scarcely inferior to that of bills of exchange. Every merchant is liable to losses and reverses, by the change of the markets. The risks of this description may, however, be calculated upon with some degree of probability; but those of fire, the perils of the seas, or capture, cannot be so well estimated; and, when they come, they would, in many cases, bring ruin upon the merchant, if it were not for the system of insurance, the object of which is, to apportion the losses from these disasters among all those whose property is exposed to the same hazards. If, for instance, all persons engaged in trading were to enter into a general agreement to contribute for the losses of each other, occasioned by those casualties, in the proportions of the amounts that they should respectively
have at risk, every individual would then only run the risk of the proportion of losses occurring upon the gencral aggregate of property at risk. But as such a general combination would be complicated, and practically inconvenient, a very simple system is deviscd, hy means of insurance, for effecting the same object; for onc person-the inderwriter-agrees to take npon himself those risks, for a liundred inerchants, more or less, for a certain premium on cach risk, calculating that the premiums on the forturiate adventures will compensate him for the losses he may incur on those which arc unfortunate, and leave him some surplus, as a compensation for his time and trouble; and a little experience will enable him to calculate the chances with very considerable accuracy. The result accordingly is, that all the persons who procure their property to be insured by him, in effect, mutually contribute for each other's losses, by the bargain of each with the common receiver of the contributions of all. This contract was subjected to a system of definite rules, much carlicr in Italy and France than in England; and as the contract is the same in principle, and very similar in form in different countries, the rules of construction adapted to it in one country, are equally applicable in another. The system of rules collected in the French ordinance of the marine in the year 1681, and which lind already, in general, become established in France, Italy and the Netlerlands, is still in force, and daily applied throughout the commercial world, not only in Europe, but also in America Jut it was late before these principles of insurance were intimately incorporated into the law of Englaud. Until the time of lord Mansfield's becoming chiefjustice of the court of king's bench io England, about the middle of the 18 th century, the law of insurance was in a very rude state in that country. It was, before that time, the inore gencral practice to make what were called wagering policies, in which one party agreed, for a certain premium, to pay the other a certain sum, in case a particular vessel shonid not arrive at a certain port of destination, on account of certain perils; without any question being made whether the party insured had any interest in the ship or eargo ; so that, in addition to the contracts of insurance against real loss, many contracts of the above sort were made by persons who had no interest whatever in the property to which the contract related. These contracts of insurance, in the case
of persons rcally interested in the property, were a very imperfect indemnity, since they only cxtended to the case of a defeat of the voyage; whercas, great damage is often sustained by the ship or cargo, notwithstanding they may both arrive at the port of destination. But, at about the period already mentioned, Magens, a merchant, who had removed froin Hamburg to London, published lis very elaborate work on insurance, in the latter place, containing all the laws and regulations of the different cominercial countries of the continent, on this subject, and presenting its leading doctrines, in relation to partial losses and general averages, and giving a great number of examples of adjustments of losses, of hoth descriptions. Lord Mansfield, at about the same time, expelled from the administration of this branch of law the narrow, quibbling and technical doctrines with which it had been previously too much infested. The foundation was then laid for that magnificent and truly scientific superstructure of legal principles and practical rules, which has been the work of the joint labors of the English and American jurists, from that period down to the present day. The courts of the U. States have contributed their full share towards the formation of the admirable system by which the commerce of the world is now protected and promoted ; and instances might readily be referred to, of discussions and opinions on this subject in the American couts, which, in learned research, liberality of views, scientific principles, and logical precision, will not suffer by a comparison with those of any other country. This contract, considered as onc of in-demmity,-and as such only it ought always to be regarded, and by no ineans confonnded with gambling,-requires, in the first place, a subject ; something must be at risk, and the thing so at risk must be described in the contract; and no party can be injured, unless he has an interest in the subject which he is liable to lose, or in respect to which he is liable to suffer by the perils insured against; and the contract must specify against what perils or risks the underwriter undertakes to make indemnity ; and the party insured must, at the time of making the contract, state, fairly and honestly, all the material circumstances within his own private knowledge, which may cnable the underwriter to form an cstimate of the risk. This is peculiarly a contract, in which the assured is bound to fairness and good faith in effecting it, and the un-
derwriter to liberal promptness in complying with his stipulation to make indemnity.

Insurrection. (See Revolution.)
Intaglios; engraved gems. (See Gem Sculpture.)

Integral. (See C'alculus.)
Intemperance. (For some facts on this subject, see the article Temperance.)

Intenseness is the state of being raised or concentrated to a great degree. A verbum intensivum, in graminar, is a verb which expresses increased force ; as, $f \alpha$ cesso, I do earnestly, from facio, I do ; petisso, I seek earnestly, from peto, I seek. The German betteln, to beg alms, may, perhaps, be considered as the intensive form of litten, to ask, unless it be considcred to denote properly a repetition of the act of asking, in which case it will belong to the class of verba frequentativa, such as factito, I do repeatedly; lectito, I read often.

Interdict; an ecelesiastical censure in the Catholic church, the effect of which, taken in its most extended sense, is, that no kind of divine service is celebrated in the place or country under the sentence; the sacraments are not administcred, the dead not buried with the rites of the church. This interdict is called real or local, whilst the personal interdict regards only one or more persons. We shall here spcak of the former. Even Catholic writers admit that the interdict has been often abused for interested purposes, and has produced licentiousness in the countries and provinces subjected to it, ly depriving them of religious service for a length of time. (See the (Catholic) Dictionnaire de Theologie, Toulouse, 1817, article Interdict.) And no onc, acquainted with history, can deny that interdicts have been productive of rebellion and all kinds of disorder; they served, however, in the barbarous age of modern Europe, as a check against the power of the monarchs. It is a mistake to suppose that Gregory VII (q.v.) was the inventor of this mighty engine of ecclesiastical power. It can be proved to have cxisted before his time; but it is true that he used it oftener and more powerfully than any of his predecessors. The 11th century was preëminently the century of interdicts. Adrian IV laid Rome itself under an interdict, for the purpose of compelling the senators to expel Arnold of Brescia and his followers. Innocent III laid France under an interdict in 1200, and England in 1208. (See Philip Augustis, John, and Innocent.) Popes or
bishops sometimes mitigated the rigor of the interdict. Thus we read in the Chronicle of Tours, that the viaticum and baptism were allowed to be administered during the interdict, under which France was laid, as above-mentioned, and which lasted nine months. Innocent III finally permitted preaching and confirmation to take place during this period, and even the administering of the eucharist to crusaders and foreigners. And Gregory IX, about 1230, on account of the "great scandal" caused by the interdicts, permitted mass to be said once a week, without ringing the bells, and with the doors closed. Boniface VIII (1300) ordercd the mass to be said without singing, every day, with closed doors, except on Christmas, Easter, Pentecost and Assumption, when ringing the bclls, singing and open doors were allowed. Magdeburg was four years under an interdict, because the archbishop of the city had been murdered. John XXII took off the interdict by a bull. Interdicts were gradually recognised to be inconsistent with the spirit of the time ; and, when Paul V laid Vcnice under an interdict in 1606 , the clurches ware not closed, nor divine service interrupted, and only a minority of the bishops acknowledged it. In the beginning of the same century, some interdicts, pronounced by hislops, cxcited much attention. It was not unfrequent, in the iniddle agcs, for princes to request bishops to lay the territorics of their vassals under an interdict. The interdict inust be announced, like the excommunication, in writing, with the causes, and is not to be imposed until after three admonitions. The penalty of disobedience to an interdict is excommunication. Writers of the Gallican church say that the pope has no right to lay France under an interdict, and the parliaments refused to register them. Interdicts are not to be confounded with the simple cessatio a divinis, or the disuse of religious ceremonies, which takes place when a church has been polluted, e. g., by a murder committed in it.

Isterest is the allowance made for the loan or forbearance of a sum of money, which is lent for, or becomes due at, a certain time; this allowance being gencrally estimated at so much per cent. per annum, that is, so much for the use of $\$ 100$ for a year. Interest is either simple or compound. Simple interest is that which is allowed upon the principal only, for the whole time of the loan or forbearance. The money lent, or forborne, is called the principal ; the sum paid for the use of it,
the interest. The interest of $\$ 100$ for one year, is callcd the rate per cent., and the sum of any principal and its interest, together, the amount.-Compound interest is that whiclı arises from any sumo or principal in a given time, by increasing the principal, at fixed periods, by the intercst then duc, and hcnce obtaining intcrest upon both intcrest and principal. The accumulation of money, when placed at compound interest, after a certain number of years, is exceedingly rapid, and in some instances appears truly astonishing. One penuy, put out at 5 per cent. compound interest, at the birth of Christ, would, in 1810, have announted to a sum exceeding in valuc $357,000,000$ of solid globes of standard gold, each in magnitude as large as this earth! (the exact number of globes, according to this computation, is $357,474,600$ ); while, at simple interest, it would have amounted only to $7 \mathrm{~s} .7_{3}^{3} d$.

Interim (of Augsburg). After the overthrow of the Smalcaldic league, the despotic ernperor Cliarles $V$, in order to place Germany in its former condition, in regard to religion as well as politics, issued a decree, to be observed until a general council should be assembled. This decrec was therefore called the interim, and scttled, pro tem., the constitution, the doctrines and discipline of the church in Gcrmany. At the diet of Augsburg (1548) it received the force of a law of the empire. Nothing was conceded to the Protestants but the cup in the Lord's supper, and the inarriage of priests; in every other respect, the doctrines and ceremonies of Catholicism, from which they liad bcen frec for more than 20 years, were to be restored. The Protestants, however, coutrived to gain time by negotiations and compliances, until the treaty of Passau (1552) and the peace of Augsburg (1555) secured to them complete religious freedom. (Sec Peace, Religious.)
Interlude; a piece of music, a dance, or a short dramatic scene, generally between two performers of different sexes, cxhibited between the acts of a serious opera, to vary the entertainment. The interlude is not an invention of the modcrns; the ancients were acquainted with certain short pieces, loosely connected, which served to make an easy transition, from one play to another, and to occupy the interval between the two. At present, the term interlude, or intermezzo, is applied principally to small comic operas, written for one, or at most for two persons, but not connected, in any way, either with the play which precedes, or that which fol-
lows. On account of the very limited number of persons in the interlude, little more is required of such pieces than humor and comic power. According to Arteaga, modern interludes were at first madrigals, which were sung between the acts by several voices, and were connected with the play. One of the oldest and nost beautiful is $1 l$ combattinento d' Apolline col Serpente, by Bardi. But these madrigals soon lost their primitive form, and represented some action.

Interment. (See Funeral Rites.)
Internuntios; the messenger or representative of the pope, sent to small foreign courts and to republics. The papal ambassador to emperors and kings is called nuntius. (See Nuncio.) The ordinary Austrian ambassador at Constantinople is also called internuntius.

Interpolation, in algebra, signifies the finding of an intermediate tern in a series, its place in the series being given. There are analytic formulas for the execution of interpolations.-In philological criticism, interpolation signifies the insertion of spurious passages in a work. In printed texts, suspected passages are often enclosed in brackets.

Interpretation (from the Latin); the explanation of the true meaning of an author or instrument. (For the interpretation of the Scripture, see Exegesis; for interpretation in politics, see Construction.) On the continent of Europe, if a law is interpreted by the legislative power, it is called interpretatio authentica; if by the unwritten usage, interpr. usualis; if in a scientific way, interpr. doctrinalis, which may be interpr. grammatica, if the meaning is found out from the words according to grammatical rules, or interpr. logica, if the meaning is found by internal reasons, or interpr. critica, if obtained by correcting the text. The interpr. logica is called extensiva, if it extends the law beyond the literal meaning of the words, or restrictiva, if it restricts the application of the law to fewer cases than the words would imply, and declarativa, if it settles vague expressions. In the interpretation of laws, it is of the first importance to ascertain the meaning of the lawgivers; the intention of the person who drew up an instrument in the nature of a contraet, is not so decisive, because there the intention of the party with whons the contract was made, is equally important. Furthermore, the meaning which words bore at certain periods, is important in the explanation of old laws, and a knowledge of local usages is often essential for interpretation. In
former times, laws and instruments were drawn up with a profusion of words, to avoid, as far as possible, leaving any thing to construction ; but experience has proved this view to be erroneous, for nothing is clearer than the simplest language; and, though there will always be room left for interpretation, except in mathematics, yet this increases with the profusion of words and the endeavor to embrace every detail.

Interregnum. (See Germany.)
Interval ; the difference in point of gravity or acuteness between any two sounds. Taking the word in its more general sense, we must allow that the possible intervals of sound are infinite; but we now speak only of those intervals which exist between the different tones of any established system. The ancients divided the intervals into simple or uncomposite, which they call diastems, and composite intervals, which they call systems. The least of all the intervals in the Greek music was, according to Bacchius, the enharmonic diesis, or fourth of a tone; but our scale does not notice so small a division, since all our tones concur in consonances, to which order only one of the three ancient genera, viz. the diatonic, was accommodated. Modern musicians consider the semitone as a simple interval, and only call those composite which consist of two or more semitones: thus from $\mathbf{B}$ to $\mathbf{C}$ is a semitone, or simple interval, but from $\mathbf{C}$ to $\mathbf{D}$ is two half tones, or a compound interval.

Intervention, in politics; a word which has been used, particularly since the congresses of Troppau, Laybach and Verona (see Congress, and Holy Alliance), to express the armed interposition (intervention armée) of one state in the domestic affairs of another. The right of armed intervention has never been so distinctly pronounced, and acted upon, as in modern times, since the congress of Vienna. It was a natural consequence of the holy alliance, and the congresses of rulers, or their representatives, assembled to prop the pillars of despotism. (See Italy, France, since 1819, Naples, and Spain.) Such armed interventions as have lately taken place in Europe arise from the fel-low-feeling of sovereigns, who claim the right of assisting each other against their subjects, and directly contravene the right of independent developement which belongs to the character of a nation. Yet to deny the right of forcible intervention in toto, would be to condemn the interference of the powers of Europe to save the

Greeks from extirpation; and we might inquire, who, if the mad tyranny of don Miguel were to continue for years, and the Portuguese nation to be cruelly oppressed by a military forcc, would blame a foreign power for interfering ? Or if the French, instead of actually conquering Algiers, had merely destroyed the government of the piratical soldiery, for the sake of liberating the natives, whom they oppressed, who could blame such an intervention? The works of Fiévée (De l'Espagne et des Conséquences de l'Intervention Armée, 3d edit., Paris, 1823), of Bignon (Du Congrìs de Troppau, Paris, 1821, and Les Cabinets et les Peuples depuis 1815, jusqu'à la Fin de 1822, 31 edit., Paris, 1823), of De Pradt, \&c., as well as the important debates on the subject of the French war of intervention in Spain, in both the French chambers, and in the British parliament, 1823, have exhausted the subject. The first statesmen of France and England then cxerted themselves to throw light on the doctrine of armed intervention, which had already been applied to the Poles, treating it both in its general principles and in its application to particular cases. Among the statc papers relating to the right of intcrvention according to the latest principles, the following are particularly important:-the dcclaration of the English minister, lord Castlereagh, of the 19th January, 1821, and the circular of Vcrona, 14th December, 1822. With regard to the application of this doctrine, by the European powers, to the Spanish American colonies, the U. States and England declared themselves so categorically, in 1824, that no congress of the sovereigns was held on that subject. The U. States are the power which acts most implicitly upon the principle of non-intervention. (See Independence.) Recently, the interest of most of the European monarchs, which induced them to pronounce at Laybach the right of armed intervention, has prompted them to deny it in the protocol of the five great powers, issued at London, in 1831, denouncing foreign intervention in the affairs of Belgium; and a similar declaration is expected in regard to Poland ; the reason of which is, that the absolute monarchs at present see clearly how much the security of their thrones would be jeopardized by a war.

Intestine (intestinum, from intus, within). The convoluted membraneous tube, that extends from the stomach to the anus, receives the ingested food, retains it a certain time, mixes with it the bile and pan-
crcatic juice, propels the chyle into the lacteals, and covers the fieces with mucus, is so called. The intestines are situated in the cavity of the abdomen, and are divided into the small and large, which have, besides their size, other circumstances of distinction. The small intestines are supplied internally with folds, called valvulce conniventes, and have no bands on their external surface. The large intestines have no folds internally; are supplied externally with three strong muscular bands, which run parallel upon the surface, and give the intestines a saccated appearance ; they have also small fatty appendages, called appendicula epiploice. The first portion of the intestinal tube, for about the extent of twelve fingers' breadth, is called the duodenum; it lics in the epigastric region, makes three turnings, and, between the first and second flexure, reccives, by a common opening, the pancreatic duct, and the ductus communis choledochus. It is in this portion of the intestines that chylification is chiefly performed. The remaining portion of the small intestines is distinguished by an imaginary division into the jejunum and ileum. The jejunum, which commences where the $d u$ odenum ends, is situated in the umbilical region, and is mostly found empty; hence its name: it is every where covered with red vessels, and, about an hour and a half after a meal, with distended lacteals.The ileum occupies the hypogastric region and the pelvis, is of a more pallid color than the former, and terminates by a transverse opening into the large intestines, which is called the valve of the ileum, valve of the cecum, or the valve of Tulpius. The beginning of the large intestines is firmly tied down in the right iliac region, and, for the extent of about four fingers' hreadth, is called the crocum, having adhering to it a worm-like process, called the processus ceci vermiformis, or appendicula caci vermiformis. The great intestine then takes the name of colon, ascends towards the liver, passes across the abdomen, under the stomach, to the left side, where it is contorted like the letter $S$, and descends to the pelvis; hence it is divided, in this course, into the ascending. portion, the transverse arch, and the sigmoid flexure. When it has reached the pelvis, it is called the rectum, from whence it proceeds in a straight line to the anus. The intestinal canal is composed of three membranes, or coats; a common one from the peritoneum, a muscular coat, and a villous coat, the villi being formed of the fine terminations of arteries and nerves, and the origins of lac-
teals and lymphatics. The intestines are connected to the body by the mesentery ; the dwodenum has also a peculiar connecting cellular substance, as have likewise the colon and rectum, by whose means the former is firmly accreted to the back, the colon to the kidneys, and the latter to the os coccygis, and, in women, to the vagina. The remaining portion of the tube is loose in the cavity of the abdomen. The arteries of this canal are brauches of the superior and inferior mesentcric, and the duodenal. The veins evacuate their blood into the vena porta. The nerves are branclies of the eighth pair and intercostals. The lacteal vessels, which originate principally from the jejunum, proceed to the glands in the mesentery.

Intonation, in music, relates both to the consonance and to the strength or weakness of sounds. Intonation not only includes the act of tuning, but the giving to the tones of the voice or instrument that occasional impulse, swell and decrease, on which, in a great measure, all expression depends. A goodintonation is one of the first qualifications in the ligher walks of execution.-In church music, those antiphonies are called intonations, which are first sung by the priest, and then responded by the choir or the congregation ; also the short sentence, mostly taken from the Bible, which the minister sings before the collect, and which is responded by the choir or comnumity. Such are the Gloria (q.v.), "The Lord be with you," \&c.

Intoxication ; the state produced by the excessive use of alcoholic liquids. It comes on gradually, and several stages may be noticed in its progress. The first is the condition expressed by the plirase quarmed with wine. In this stage, the circulation of the blood becomes somewhat more rapid, und all the functions of the body are exercised with more freedom. The excitement, however, is not so great as to produce a surcharge of blood in the head or lungs. In this state, some of the powers of the soul seem to act more freely; the consciousness is not yet attacked; the fancy is more lively; the feeling of strength and courage is increased. In the second stage, the effect on the brain is more decided. The peculiarities of character, the faults of temperament which, in his sober moments, the individual could control and conceal, manifest themselves without reserve ; the sccret thoughts are disclosed, and the sense of propriety is lost. In the next degree, consciousness is still more weakened; the balance of the
body cannot be kept, and dizziness attarks the brain. In the next degree, the soul is overwhelmed in the tumult of animal excitement; consciousness is extinguished; the lips utter nothing but an incoherent babble; the face becomes of a glowing red; the eyes are protruded; sweat streams from the pores; and the victim of intoxication falls into a sleep resembling the stupor of apoplexy. (For some further remarks on this subject, see the article Temperance.)

Intrenchment ; any work that fortifies a post against the attack of an enemy. The word is generally used to denote a ditch or trench with a parapet. Intrenclıments are sometimes made of fascincs with earth throwi over them, of gabions, hogsheads, or bags filled with earth, to cover the men fiom the enemy's fire. (See Retrenchment.)

Intrigue; an assemblage of events or circumstances, occurring in an affair, and perplexing the persons concerned in it. In this sense, it is used to signify the nodus or plot of a play or romance, or that point wherein the principal characters are most embarrassed through artifice and opposition, or unfortunate accidents and circumstances.

Introibo; a passage of the fifth verse of the 42 d Psalm, with which the Catholic priest, at the foot of the altar, after having made the sign of the cross, bcgins the mass; whereupon the servitor answers with the rest of the verse; after which the whole Psalm is recited alternately by the priest and the servitor. In masses for the dead, and during Passion week, the Psaln is not pronounced.

Intuition (fiom the Latin intucor, I look steadfastly at, gaze upon; in German philosophy, Anschauung,), would mean, according to its etymology, in its narrowest sense, an image in the mind, acquired directly by the sense of sight. In the English use of the word, it is confined to mental perception, and signifies the act whereby the mind perceivcs the agreement or disagreement of two ideas, immediately by themselves, without the intervention of any other; in whicl case, the mind perceives the truth, as the eye does the light, merely by being directed towards it. Thus the mind perceives that white is not black, that three are more than two, and equal to one and two. This part of knowlcdge, says Locke, is irrcsistible, and, like the sunshine, forces itself immediately to be perceived, as soon as ever the mind turns its view that way. It is on this intuition that all the certainty and evidence of our other knowledge de-
pend; this certainty every one finds to be so great, that he cannot imagine, and therefore camnot require, a greater. The German Anschauung, which literally signifies the same as intuition, is used to signity any notion directly presented by an object of sense. The transcendental philosophy acknowledges also intuitions which live in us (distinct from ideas obtained by reasoning), in consequence of the direct perception of the internal sense, as the intuition of the Divine. Kant distinguishes empiric intuitions (those conveyed by the senses from external objects), and pure intuitions (reine Anschaumgen), or intuitions a priori, which are the basis of the former; for instance, space and time: as nothing can be perceived by our senses except either in space or time, our notions of these must precede the empiric intuitions.

Invalids; soldiers and officers, who are disabled for foreign service by wounds, disease or age, and who are generally maintained for life in public establisliments (hospitals), at the public expense. The Athenians had a law, providing for the public inaintenance of persons disabled in war. The Romans also made some, though small, provision for invalids. At a later period, they were taken care of in the monasteries. Philip Augustus of France first formed the plan of an hospital for invalids. But, as pope Imocent III would not perinit this institution to be placed under the direction of the bishop, the king relinquished the plan. Louis XIV was the first who canied this design into execution. Between 1671 and 1679 , he erected a splendid hospital at Paris, in the suburb of St. Germain. A church, a department for the sick, a governor, and other officers, are attached to it. Guards are stationerd, and all other forms observed which are customary in fortified posts. A soldier must have served ten years, to be received into this hospital on account of poverty or infirmity. The invalids who mount guard are the only ones who bear arms. This institution suffered very much at the coinmencement of the revolution; but, during the imperial govermment, it was put in a better condition than ever. The architect of the hospital was Bruant. It is composed of five courts surrounded by buildings. A vast esplanade, bordered by rows of trees, and decorated with a fountain, gives the principal façade, towards the Seine, a noble perspective. The hôtel has a library of 20,000 volumes; it is capable of containing 7000 men, and is governed by a marshal of France. The church is considered a chef-d'œuvre of French architec-
ture; its dome supports a lanteru, which is surmounted by a cross 308 feet higl. From the dome were formerly suspended 3000 colors, taken from different nations; but they were taken down and burnt by the invalids, at the time when the allies entered Paris, that they might not be retaken. Works in statuary and painting, by Lafosse, Boullongne, Coypel, Colnstou, Coysevox, \&c., adonn the ceilings, niches, and other parts of the buildings. Frederic the Great, in 1748 , built the hospital at Berlin, with the inscription Laso et invicto militi. The British marine hospital, at Greenwich, is the first institution of this kind.

Invention, in science, is distinguished from discovery, as implying more creative combining power, and generally signifies the application of a discovery to a certain purpose. But the distinction is often very nice, and it is difficult, in many cases, to say which word is most suitable. Every invention includes a discovery. When Archimedes exultingly exclaimed, Eüрทка (I have found it), after he had discovered, in the bath, that his body, in the fluid, displaced an amount equal to its own bulk, he discovercd; but he invonted when he applied the hydrostatic law, thus discovered, to determining the specific gravity of different substances. Inventions owe their origin, as discoveries do, either to chance, to some happy idea suddenly striking the mind, or to patient reflection and experinent. Many inventions belong to the two former heads. Of the third class of inventions, late years afford many instances, owing to the great attention which has been paid to the natural sciences. As man, in modern times, is always inclined to consider that which is nearest him the most important, he gencrally considers the inventions of his age as far surpassing those of other times; but the study of history teaches us inore modesty. The invention of the screw, of the wheel, of the rudder, of the double pulley, may be compared with any modern inventions in mechanical science, and could not, moreover, have been struck out at once by chance. The history of inventions is one of the most interesting branches of historical sciences, exhibiting, in a striking light, the stages of progress and decline in human activity, and the great variety of motives which have actuated different ages. Gr. Ch. A. Busch has published a Manual of Inventions, 12 vols., (Eisenach, 1802 to 1822, in German). Beckmann's History of Inventions (Leipsic, $1780-1805$ ) has been translated into English, 3 vols.

Invevilor of the Cross. The Roman Catholic church celebrates a feast, May 3, in honor of the finding of the cross on which Clurist was executed. The search was inade by the order of St. Helena, mother of the emperor Constantine, A. D. 326 , and the cross was said to have heen found under the ruins of Calvary. The story is told by St. Cyril.

Inversion (from the Latin), literally, lurning in, is a word variously used. In granmar, it is contradistinguished from construction, and means the arrangement of words according to the order in which the ideas follow in the writer's mind, and not according to the usual grammatical construction. The inversion is regulated by the object of the writer or speaker. The French language is the most confined in this respect, and has made the natural construction its first law of arrangement. The Greek and Latin, on the contrary, are extremely free in the use of inversion, and, under certain circumstances, can use almost any order of words. The German is not so free as the Greek, but much freer than the French. Inversion seems necessary for the perfection of a language, though it leads to many aberrations from good sense. As a figure in rhetoric, inversion is used to direet the attention to a particular point, without changing the meaning, as, for instance, 'My peace I give to you,' or 'The paln of victory he soon hath gained, the faithful warrior.' -Two numbers, powers or quantities are said to be in an inverse proportion, if one diminishes as the other increases; for instance, the fleetness and the power of a horse are in an inverted pro-portion.-The tern is also used, in tactics, to denote the disordered arrangement of a battalion, when the platoons connposing it stand in a reversed order. When the platoon which usually stands on the extreme right becomes, by a manœurre, the extreme left, the second platoon from the right becoming the second from the left, and so on, then the man who before stood at the right extremity of the platoon should propcrly stand at the left; but if, instead of so doing, he still stands at the right, the position of the battalion is inverted. In the〔ollowing series,
$8 \quad 7 \quad 6 \quad 5 \quad 4 \quad 3 \quad 2 \quad 1$
$q \ldots p|o \ldots n| m \ldots l|h \ldots . i| h \ldots . . g|f \ldots e| d \ldots . c \mid b \ldots . a$,
let $a, c, e, g, i, l, n, p$, be the men on the
right of their respective platoons, when
the battalion stands regularly drawn up:
then the following order would represent
the battalion inverted, thus:
vol. vir.

## $\begin{array}{llllllll}1 & 2 & 3 & 4 & 5 & 6 & 7 & 8\end{array}$

$b \ldots . a|d \ldots . . c| f \ldots . . e|h \ldots . g| k \ldots . . i\left|m \ldots . .\left|\rho_{0} \ldots . n\right| q \ldots . p\right.$.
IIere platoon 1 stands on the left wing, yet a stands on the right of his platoon. In both cases, the line is supposed to face the same way.

Investiture, in the feudal law, was the open delivery of a feud by a lord to his vassal, thus, by external proof, affording evidence of property. To use the words of Blackstone, "Investitures, in thcir original rise, were probably intended to demonstrate, in conquered countries, the actual possession of the lord, and that he did not grant a bare litigious right, but a peaceable and firm possession. At a time when writing was seldom practised, is mere oral gift, at a distance from the spot that was given, was not likely to be long or accurately retained in the memory of bystanders who were very little interested in the grant." For this reason, investiture was performed by the presentation of some symbol to the person invested, as a branch of a tree, \&cc. In the primitive church, after the election of a bishop, and lis consecration, the early Christian emperors clained a right of confirmation. The Gothic and Lombard kings exercised the same privilege. In the French monarchy, the Merovingians affected the still greater power of direct nomination, and their control was supported by means against which the church was wholly inadequate to contend. The estates and honors which composed the ecclesiastical temporalities, were considered to partake of the nature of fiefs, and therefore to require similar investiture from the lord. Charlemagne is said to have introduced this practice, and to have invested the newly consecrated bishop by placing a ring and crosier in lis hands. Gratian, indeed (distinct. (33, cap). Adrianus), directly affirms that pope Adrian positively conceded to the emperor the power of electing, even to the papacy, in 774 ; but neither Eginhard nor any other contemporary writer mentions this fact. The custom, however, existed, nor does it appear to have been objected to or opposed during the lapse of two centuries from his reign. The disorderly state of Italy, which succeeded the death of Charlemagne, frequently interrupted the exercise of this right by the Carlovingians; but even so late as 1047 , when the empire had passed to another hine, Henry III received an explicit admission of his prerogative, and repeatedly used it. The investiture in the lesser sees followed as a matter of course.

Alexander II issued a deeree against lay investiture in general, which was revived by Gregory VII (Hildebrand), who, having succeeded in annulling the prerogative of the emperors to nominate or confirm popes, sought to disjoin entirely the ecclesiastical from the civil rule. He complained loudly of the humiliation to which the chureh was subjected by dependence upon the patronage of laymen, and condemned with far more reason the mercenary and simoniaeal exactions, which ecclesiastics suffered from temporal princes as the price of the benefices which they conferred. In the council of the Lateran in 1080, he declared that no bishop or abbot, submitting to lay investiture, should be considered a prelate. The convulsions which followed engendered the Guelf and Ghibeline factions (see Guelf), and deluged Italy with blood for a long series of years ; for the struggle commenced by Gregory with Henry IV was zealously continued by his successors, among whom Urban II and Paschal II espeeially distinguished themselves. It was not, however, until the papacy of Calixtus II, in 1122, that the question wasterminated, as it appears, materially to the advantage of the holy see. By a concorlat then arranged at Worms, Henry V resigned for ever all pretence to invest bislops by the ring and crosier, and recognised the freedom of elections: the new bishop, however, was to receive his temporalities by the sceptre. In France, even under the papacy of Hildebrand, the right of investiture does not appear to luave been inade a subject of open quarrel. In spite of the protests of the holy see, the kings exereised the power, but at length relinquished the presentation of the ring and crosier, and contented themselves with conferring investiture by a written instrument, or orally, upon which they were left in peaceable possession of the power. But in England, Paschal II was engaged in a contest little less fierce than that which he maintained with the emperor. Auselm, the primate, refused to do homage to Henry I for his see. The king seems to have asserted an unqualified right of investiture, which the pope, who was appealed to, as unqualifiedly denied. After a protraeted struggle, and continued threats of excommunication, the controversy ended in England, as it did afterwards in Germany, by compromise. Paschal offered to concede the objections against homage, provided Henry would forego the ceremony of investiture. To this he agreed.
Invocavit ; the first Sunday in Lent, so
called because the primitive church began their worship, on that day, with the words of the 91st l'salin, 15 th verse, Invocavit me et exaudiam eum. It is also called Quadragesima, or the 40 th day, because it is 40 days before Good Friday, the day when Lent ends.
Invoice; an account, in writing, of the particulars of merchandise, with their value, custom, charges, \&c., transmitted by one merchant to another in a distant country.
Involetion, in mathematics; the raising of a quantity from its root to any power assigned. Thus $2 \times 2 \times 2=8$. Here 8 , the third power of 2 , is found by involution. By continuing the process, we can obtain any power of 2 , and so with other numbers.
Io ; daughter of Inaehus (aecording to some, of Argus Panoptes) and Peitho; according to others, of lasus and Leucane. Jupiter fell in love with her. At first, she would not listen to his wishes; but, being enveloped by him with a thick eloud, she yielded herself to his enbraces. Juno, notwithstanding, perceived the infidelity of her husband, and resolved to be revenged on both. Jupiter, to protect Io from the jealousy of Juno, changed her into a beautiful white heifer. Juno was not deceived, and begged the heifer of her husband. Apprehending no evil, he granted her request ; but she immediately placed it under the eustody of the hundred-cyed Argus. Jupiter now regretted that he had complied with her request, but it was too late ; he therefore sent Mercury to kill Argus, and set Io at liberty. This commission Mereury successfully exceuted, having lulled the watchful Argus to sleep by playing on the flute; but at the moment when Io thought herself again at liberty, the jealous Juno afflicted her with madness, and persecuted her, without a moment's rest, through the world. She sprang into the Ionian sea, reaehed Illyria, passed the Hæmus, went through Thraee, swam over the Thracian Bosphorus to Asia, passed through Scythia, over Caueasus, and came at length to Egypt. She found Prometheus in the Caucasian mountains, who eoinforted her, and slowed her the way she must take. This way is described at length in the "Proinetheus" of Eisehylus. Her sufferings ended in Egypt. Here she regained her original form, and bore Epaphus, the son of Jupiter. At the instigation of Juno, the Curetes concealed the child, and were, in consequence, struck with lightning by Jupiter. After a long search, Io found her
son in Syria, and returned with him to Egypt, where she married the king, Telegonus. She was deified, and, according to some authorities, was the goddess whom the Egyptians worshipped under the name of Isis.
Iodine (from iwins, vioalaceus, in allusion to the beautiful violet color of its vapor) is the name of an undecompounded principle or elenent in chemistry. It had escaped the observation of chemists until 1812, when a inanufacturer of salt-petre, at Paris, detected it in the ashes of sea-weeds, in the following manner. In evaporating the ley from these ashes, to procure the carbonate of soda which they contain, he noticed that the metallic vessels, with which he operated, were powerfully corroded, and that the corrosion was increased as the liquor became more concentrated. Having at hand, one day, a bottle of sulphuric acid, he added some of it to a portion of the mother-water, and was surprised to see a rich violet vapor disengaged; this vapor was the iodine. He at once communicated the observation to M. Clémout Desormes, who set about collecting sorre of the vapor, and, after examining its leading properties, amounced it to the royal institute of France as a new body. Its real nature was soon after unfolded through the accurate researches of GayLussac and sir II. Davy. Its listory proved singularly interesting in modifying the then prevailing theory of chemistry. Sir H. Davy had, a few years previously, promulgated the new theory of chlorine, which was still received with suspicion among chemists. The strong analogies, however, between this substance and chlorinc, in their relations to combustibles, -both bodies forming compounds by uniting with them, similar to acids containing oxygen, or oxides,-were conceived to give great weight to the views of sir II. Davy, and opcrated completely to overthrow the orroneous hypotlicsis of oxygenation, invented by Lavoisier. Its investigation, thercfore, may be said to have formed a new era in chemistry. The physical properties of iodine are as follow: It is a soft, friable, opaque solid, of a bluish-black color, with a metallic lustre, usually in scales, but sometimes in distinct crystals of the form of rhomboids or riomboidal tables, referable to an octahedron, with a rhombic base as their primary form ; its specific gravity is 4.946 . It possesses an odor somewhat analogous to that of chlorine. It is a non-conductor of electricity, and possesses in an eminent degree the electrical propertics of oxygen and chlorine.

Iodine enters into fusion at $225^{\circ}$ Fahr., and boils at $347^{\circ}$; but when moisture is present, it sublimes rapidly at a temperature considerably below $212^{\circ}$, and gives rise to a dense vapor of the usual violet hue. It is scarcely at all soluble in water, but is readily taken up by alcohol and ether, to which it imparts a reddish-brown color. It extinguishes vegetable colors, but with less energy than cllorine. It is not inflammable. Its range of affinity for other bodies is very extensive ; the most important compounds it forms with these we shall describe after alluding to its natural state and preparation. It exists most abundantly in the various species of fucus, which form the greatest part of the sea-weeds of our coast ; it also occurs in the sponge, and in the coverings of many molluscous animals, and has been found in a great number of nineral waters, as those of Salz in Piedmont, Saratoga in New York, \&c., and nore recently has been detected in some silver ores from Mexico, and in an orc of zinc from Upper Silesia. But it is from the incinerated ser.weed or kelp, that the iodine, in large quantities, is obtained. As the soap-manufacturers are in the habit of obtaining their soda from kelp, iodine may be procured, very cconomically, from the residuuns of their operation, according to the process invented by doctor Tre, which is as follows : The brown iodic liquor of the soap-boiler, or the solution of kelp from which all the crystallizable ingredients have been separated by concentration, is heated to about $230^{\circ}$ Fahr., poured into a large stone-ware basin, and saturated with diluted sulphuric acid. When cold, the liquor is filtered through woollen cloth; and to every 12 oz . (apothecaries' measure) of it, is added 1000 grains of black oxide of manganese in powder. The mixture is put into a glass globe, or large matrass with a wide neek, over which a glass globe is inverted, and heat is applied, which causes the iodine to sublime copiously, and to condense in the upper vessel. As soon as the balloon becomes warm, another is substituted for it; and when the second becomes lieated, the first is again applied. The iodine is withdrawn from the globes by a little warm water, which dissolves it very sparingly; and it is purified by undergoing a second sublimation. The test made use of for the detection of iodine in any solution, when it is suspected to be present, is starch, with which iodine has the property of uniting, and of forming with it a compound, insoluble in cold water, which is recognised with certainty
by its deep blue color. The solution should be cold at the time of adding the starch; and, if the color does not become apparent simply on the addition of the starcl, a few drops of sulphuric acid should be cautiously added, when, if any iodine is present, the blue color will make its appearance. This test is so exceedingly delicate, that a liquid, containing $\bar{\mp} \overline{\bar{\sigma}}, \bar{\sigma} \bar{\sigma} \bar{\sigma}$ of its weight of iodine, receires a blue tinge from a solution of starch.lodine has a powerful atfinity for hydroyen, which it takes from animal and vegetable substances, in the same manuer as chlorine, and, unitiug with it, forms hydriodic acid. The following are the methods for obtaining this acid in the gaseons and in the liquid state: Into a flask, to which a recurved tube is fitted, dippiug under a jar of mercury, are introduced eight parts of iorline and one of phosphorus, and to the mixture a few drops of water are added ; the water is immediately decomposed; the phosphorus, seizing its oxygen, forms phosphoric acid, while the hydrogen combines with the iodiue. As there is not water present in sufficient quantity to dissolve the hydriodic acid, it passes over in the gaseous state, and is collecter over the inercury. In contaet with air, it smokes, or fimes, like the muriatic acid, and, like it, reddeus vegetable blucs. It is distinguished, however, from that acid, by the superior affinity possessed by chlorine for hydrogen, in consequence of which, if chlorine and hydriodic acid gases are mingled together, the yellow color of the former disappears, and the violet vapor of iodine makes its appearance, which proves the decomposition of the liydriodic aeid by the chlorine. If the decomposition is complete, the vessel will be wholly occupied by muriatic acid gas. To obtain the hydriodic acid in a liquid state, we have oily to conduct the gas through water, until it is fully charged with it ; or it may be obtained by transmitting a curreut of sulphureted hydrogen gas through water in which iodine, in fine powder, is suspended. The iodine, from a greater uffinity for hydrogen than the sulphur possesses, decomposes the sulphureted hydrogen; and hence sulphur is set free, and hydriodic acid produced. The constitution of hydriodic acid is,

The solution of hydriodic acid is easily decomposed. Thus, on exposure for a
few hours to the air, the oxygen of the atnosphere forms water with the hydrogen of the acid, and liberates the iodine. Nitric and sulphuric acids likewise decompose it by yielding oxygen, the former being converted into nitrous and the latter into sulphnrous acid. The free iodine becomes obvious on the application of the above-mentioned test. The compounds of hydriodic acid with the salifiable bases may be easily formed, either by direet combination, or by acting on the basis in water with iodine. Sulphurous and inuriatic acids, as well as sulphureteri hydrogen, produce no change on the lyydriodates, at the usual temperature of the air; but chlorine, nitric and concentrated sulphuric acid, instantly decompose them, and separate the iodine. The liydriodates of potash and soda are the most interesting of their number, because they are the clief sources of iodine in nature. The latter salt is probably the one which affords the iodine obtained from kelp; while it is believed, that it is the hydriodate of potash, which is most gencrally found in mineral springs. (Hence the necessity of adding sulphuric acid to the residual liquor of the soap-boiler, in order to procure the iodine, which requires to be separated from its combination with the alkali to which it is united, in the condition of hydriorlic acid; and peroxide of manganese is also added, in order to facilitate the decomposition of the hydriodic acid.)-Iodine forins acids also by uniting with oxygen and with chlorine. When it is brought into contact with protoxide of chlorine, immediate action ensues ; the chlorine of the protoxide unites with one portion of iodine, and its oxygen with another, forming two compounds,-a volatile orange-colored matter, the chloriodic acill, and a white solid substance, which is iodic acid. Iodic acid acts powerfully on inflammable substances. With charcoal, sulphur, sugar, and similar combustibles, it forms mixtures which detonate when heated. It enters into combination with metallic oxides, giving rise to salts called iodates. These compounds, like the chlorates, yield pure oxygen by heat, and deflagrate when thrown on burning charcoal. Iodic acid is decomposed by sulphurous, phosphorous and hydriodic acids, and by sulphureted hydrogen. Iodine, in each case, is set at liberty, and may be detected, as usual, by stareh. Chloriodic acid, which is also formed by simply immersing dry iodine in chlorine gas, deliquesces in the open air, and dissolves very freely in water. Its solution is very
pour to the taste ; and it reddens vegetable blues, but afterwards destroys thein. It does not unite with alkaline bases; in which respect it wants one of the characteristics of an acid, and has hence been calted by Gay-Lussac a chloride of iodine. Iodine unites with nitrogen, forming a dark powder, which is characterized, like chloride of nitrogen, by its explosive property. In order to form it, iodine is put into a solution of ammonia ; the alkali is decomposed; its elements unite with different portions of iodine, and thus cause the formation of hydriodic acid and iodide of nitrogen. Iodine forms, with sulphur, a fecble compound, of a grayishblack color. With phosphorus, also, it combines with great rapidity at common temperatures, attended with the emergence of heat. It manifests littlc disposition to combine with metallic oxides; but it has a strong attraction for the pure metals, producing compounds which are called iodurcts, or iodides. The iodides of lead, copper, lismuth, silver and mercury, are insoluble in water, while the iodides of the very oxidizable metals are soluble in that liquid. If we mix a hydriodate with the metallic solutions, all the metals which do riot decompose water will give precipitates, while those which decompose that liquid will give none. Iodine, besides being employed for philosophical illustration, is used in the arts, for pigments, dyes and medicine. The proto-ioduret of mercury is used in England as a substitute for vermilion, in the preparation of paper-hangings ; and a compound of lyydriodate of potassa 65 , iodate of potassa 2, and ioduret of mercury 33, is employed in priuting calico. The tincture of iodine, 48 grs. to 1 oz . of alcohol, is a powerful remedy in the goitre and other glandular diseases; but it is so violent in its action on the system as to require great caution in its administration. The hydriodate of potash, or of soda, is also applied to medical uses; and it is inferred, that the efficacy of many mineral springs, in certain diseases, is owing to the presence of one or the other of these salts.
lolaus. (See Protesilaus.)
Iole. (Sce Hercules.)
Iolite, Cordierite, or Dichroite, is an earthy mincral, cominonly massive, though sometimes crystallized in six or twelve-sided prisms, with indistinct cleavages, parallel to the sides of a six-sided prism, which is considered as its primary form; lustre, vitreous; color, various shades of bluc, generally inclining to 5*
black; streak, white ; transparent or translucent; blue, if viewed in the direction of the axis; yellowish gray, perpendicular to it; hardness, the same as that of quartz; specific gravity, 2.583. It consists, according to Stromeyer, of

$$
\begin{aligned}
& \text { Silica, . . . . . . . . . . . . . . . } 48.538 \\
& \text { Alumine, . . . . . . . . . . . . . } 31.730 \\
& \text { Magnesia, . . . . . . . . . . . . . . 11,305 } \\
& \text { Oxide of iron, . . . . . . . . . . . } 5.686 \\
& \text { Oxide of manganese,. . . . . . . } 0.702 \\
& \text { Water, or loss, . . . . . . . . . . . } 1.648
\end{aligned}
$$

Before the blowpipe, it melts in a good heat, but with difficulty, and only on its edges, into a glass not inferior to the mineral, either in color or transparency. It occurs in aggregated crystals, with garnet, quartz, \&cc., at Cabo dc Gata in Spain. A variety found in Bavaria, at Bodenmais, which is generally massive, resembling quartz, and imbedded in iron pyrites, has been called peliom. Handsome blue crystals of this species, found at Orijerfvi in Finland, have been called steinheilite, in honor of count Steinheil. The sapphive d'eau of jewellers is a transparent variety of the present species from Ccylon.

Iox ; a son of Xuthus and Creusa, daughter of Erechtheus, who married Helice, the daughter of Selinus, king of Egiale. He succeeded to the throne of his father-in-law, and built a city, which he called Helice, on account of his wife. His subjects, from him, received the nane of lonians, and the country that of Ionia. (See Ionians.)-A tragic poet of Chios, who flourished about the 82d Olympiad. His tragedies were represented at Athens, where they met with universal applause. He is mentioned and greatly commended by Aristophanes and Athenæus, \&c.-A native of Eplesus, introduced in Plato's dialogucs as reasoning with Socrates.
Iovs. (See Icolmkill.)
lonia ; the ancient name of Achaia (hence the Ionian sea and Ionian islands). By Ionia is generally understood that district of Asia Minor, where the Ionians from Attica settled, about 1050 B. C. This beautiful and fertile country extended from the river Hermus to the Mæander, along the shore of the Ægean sea, opposite the islands of Samos and Chios, and was bounded by Caria, Eolia and Lydia. Commerce, navigation and agriculture early rendered it wealthy and flourishing, as is proved by the great number of populous cities it contained, annong which the most important were Ephesus (the clief place), Smyrna, Clazomenæ, Erythra, Colophon and Mikctus. These
fiee eities formed the Ionian league, but Croesus, and afterwards Cyrns, made them tributaries. They remained sulject to the Persians until they recovered their independenec by the assistance of the Athenians and Lacedremonians, after haring previously made an unsiccessful attempt, during the reign of Darius Hystuspes. They were again suljected, and again delivered by Alexander the Great. Ionia, at a later period, became a Roman province, and was totally devastated by the Saracens, so that few vestiges of its ancient civilization remain. The Ionians were considered effeminate and voluptuous, but, at the same time, highly amiable. Their dialect partook of their character. (See Ionian Dialcet.) The arts and sciences flomrished in this happy eountry, particularly those which contribute to cmbellish life. The Asiatic Greeks became the teachers and examples of the European Greeks. Ifomer the poet, Apelles and Parrhasius the painters, were Ionians. The Ionie eolumn proves the delieaey of their taste. (See Architecture, Ionian Philosophy, and Ionians.)
Ionian Dlalect; one of the Greck dialeets, the softest of all, on aecount of the large proportion of the vowels to the consonants (see the article Consonant), whieh was particularly spoken in the Greek colonics in Asia Minor and on the islands of the Archipelago. It is divided into the old and new. In the former, Homer and Hesiod wrote. It originally differed little, or not at all, from the old Attie. The new Iomian originated after the Ionians lad more intercourse with the other tribes, and planted colonies. Anacreon, Herodotus and Hippocrates wrote in this dialect. (See Greek Language, under the head of Greece, and Dialect.)
Ionian Islands; a republic in the South of Europe, under the protection of Grcat Britain, situated in the Ionian sea, along the western eoast of Greece and Alhania. The state is often called the Republic of the Seven Islands, on aecount of the seven chief islands of whieh it is composed, viz., Corfu, Paxos, Santa Maura, Thiaki or Ithaea, and Cephalonia, 1 y ing west of the gulf of Lepanto; Zante, near the western shorc of the Morea; and Ccrigo, to the south-east of the same peninsula. The other islands and islets of this little state are Merlera, Fano, Sanotraki, Anti-Paxos, Calamos, Meganesi and Cerigotto, which is the most southern and inost eastern point of the republic, in $35^{\circ} 50$ liat. N., and $23^{\circ} 17^{\prime}$ lon. E. Merlcra, in $39^{\circ}$ $57^{\prime}$ lat. N., is the most northern, and Fano,
in $19^{\circ}$ lon. E., the most weetern point. Most of the inlabitants of the lonian islands ure of Greek origin. A census, in 1814, gave a population of 218,000 : at present, it aunounts to about 227,000 , of whom about 8000 are Italians, and 7000 Jews. There are also some English there. The inhabitants are in general superstitions, and their morals are lax. Until of late, the language spoken here was a corrupt Italian, but modern Greek now prevails. The English and Greek inhabitants have little intercourse, notwithstanding the cfforts of the English government. In 1828, there were 29 sehools of mutual instruction, a college, and a miversity, founded in 1823.-The coasts of the islands are rugged, the surfaee uneven, containing a number of barren rocks and some high hills, interspersed with fertile plains and valleys. The climate is very mild, but subject to sudden changes. The productions are com, vines, olives, currants, cotton, honey, wax, \&e. Vincs and olives form the chicf source of ineome to the inhabitants. In 1825 , the exports amounted to about $\$ 660,600$. The cnrrants and small dried grapes are exported in large quantities. Sinee 1815, this state las formed an aristocratic goremment, under the name of the United Ionicia Islands, under the protection of Great Britain, and entirely dependent on her. A constitution Ivas granted by Great Britain, in 1817. There is a British high-eommnissioner at Corfu, the eapital of the state, and Great Britain has a right to oecupy the fortresses, and keep garrisons. The high-commissioner convokes the legislative assembly, appoints the governors of the different islands, and commands the forces. The legislative assembly eonsists of 40 members, and holds its sessions at Corfu. Five senators, chosen by the legislative assembly from their own number, and a president, appointed by the eommissioner, for five years, form the senate. The civil law is the law of the land. Recenne, about $£ 150,000$; expenditure for the foree, Inaintained by Great Britain ( 6400 men, among whom are four regiments of natives), $£ 100,000$.-These islands werc inhabited at an early period, and formed small states in the most flourishing period of Greeec. They were redueed by Alcxander the Great, at a later period by the Romans, and they afterwards for:ncd part of the Byzantine empire. The kings of Naples obtained possession, in the 13th eentury, of Corfin and other islands, but, in the 14th century, the Venetians, thicn the masters of the Adriatie sena, occupied
all the Seven Islands. Corfu placed lierself under the protcction of Venice, in 1386, and the other islands followed her example. Venice left the government in its former state, merely sending out provveditori as heads of the administration. The claims of Naples were extinguished by purchase, and Vcuice remained in possession of the islands, in spite of the repeated attacks of the Turks, until the republic of Venice was itself dissolved, in 1797. In 1799, the Russians and Turks conquered them; and the emperor Paul, by a ukase of March 21, 1800, declared them a state, uncer the name of the Republic of the Seven United Islands, forming an aristocracy under the protection of Turkey. In 1803, Russia granted a new constitution. In 1807, they were incorporated with the grcat empire of France; but the Frenclı were able to maintain only Corfu. Nov. 5,1815 , it was agreed between Russia and Great Britain (later also Austria), that the islands should form a republic, under the name of the United State of the Ionian Islands, and under the exclusive protection of Great Britain. In April, 1819, Great Britain agreed to cede to the Porte the city of Parga, on the continent, which had so long maintained itself against Ali Pacha. (q. r.) The greater part of the Pargiots, in despair, emigrated to the Ionian islands. (See Parga.) The commercial flag of the Ionian Islands is acknowledged as the flag of an independent nation. (See the works of Gell, Dodwell, Hughes, Mustoxodi, and Kendrik; also, Essay on the Islands of Corfu, Leucadia, Cephalonia, ©cc., by W. Goodisson (London, 1829); Antiquities of Ionia, published by the society of Dilettanti, London.)

Ionan Order. (See Architecture.)
Ionian Philosophy. As Grecian civilization was first developed among the Ionians (see Ionians and Ionia), Grecian philosophy also originated among them. The Ionian philosophy started with the question respecting the primitive elements of the world. To the Ionian school (oi фuecixot) belong Thales, Anaximander, Pherecydes, and, in some points, Anaxiinenes. (See Philosophy, and consult Bouterwek, De primis Phil. Grac. Decretis Physicis, in the second volume of the Comm. Soc. Goett., 1811; Ritter, Geschichte der Ionischen Philosophie, Berlin, 1821, and Gicschichte der Philosophie, volume 1st, by the same, Hamburg, 1829). In modern times, the Ionian philosophy has been revived, in connexion with the atomic system, by Berigard, Magnenus, Sennert and Gassendi. (q. v.)

Iomian Sea; ancient name of that part of the Mediterranean which lies between the south part of Italy and Greece.
lonians; a tribe of Greeks, deriving its name from Ion. (q. v.) They first lived in the Peloponnesus, on the borders of the gulf of Corinth, where they built 12 cities, celebrated for their manufactures and commerce. The Achæans, being pressed by the Heraclides and Dorians, united themselves with them, and the country became insufficient for both people; the Ionians therefore emigrated to Attica, whence Neleus led a colony to Asia. (See Ionia.) Those who had remained in Attica were mingled with other tribes, and the Asiatic Ionians alone retained the name.
Ionic Foot consists of four syllables, two short and two long. If the two short syllables are in the beginning ( $\smile \cup--$ ), it is called ionicus minor: if the two short syllables follow (-ーレ ), it is called ionicus major. Horace used the former.
Iota; the Greek name for $i$. (See I.)
Ipecacuanha, according to the latest authorities, is the product of two different plants, both natives of South America. The gray is the root of a species of richardia; the other, that of the cepholis ipecacuanhu. The two roots, however, do not differ in their medicinal properties, and they are much employed indiscriminately. It was first brought to Europe towards the middle of the 17 th century; but was not generally used till about the year 1686, when it was introduced, under the patronage of Louis XIV. Its taste is bitter and acrid, covering the tongue with a kind of mucilage. It is one of the safest and nildest emetics with which we are acquainted, and is administered as a powder, in the tincture, or infused in wine. It is also less injurious, if it does not operate as an emetic, than antimony, from its not disturbing the bowels as that does.
Iphicrates; a famous Athenian military commander, in the fourth century before the Christian era. He was born in obscurity, but raised himself to eminence in his profession, by his courage and talents, early in life. In the war of Corinth, 305 B. C., he opposed, with success, Agesilaus, the warlike king of Sparta. He afterwards commanded a body of auxiliary troops, in the service of Artaxerxes, king of Pcrsia, in an expedition to Esypt; and, in 368 B. C., he relieved Sparta, when invaded by the Theban general Epaminondas. In the social war, he was one of the commanders of the fleet fitted out by the Athenians, for the recovery of Byzantium. when, being accused of
treaehery by one of his collcagues, he defended himself with such spirit, that lie was acquitted by his volatile countryinen; but, though he lived to a great age, he did not again engage in active servicc. In the early part of his carecr, he restored to his dominions Seuthes, king of Thrace, whose daughter he married. Iphicrates was a strict observer of discipline, and was the author of some important improvements in the arms and accoutrements of the Athenian soldiery. He was accustomed always to fortify his camp in the field, even in a friendly country; and, when once asked why he took so much trouble, he answered, "Becausc, if, contrary to probability, I should be attacked, I may not be obligel to make the disgraceful excuse, that I did not expeet it."
Iphigenis, daughter of Aganemnon and Clytemnestra (according to some, an illegitimate daughter of Theseus and Helen, adopted by Clytemnestra in childhood), was to have been sacrificcd to Diana, at the advice of the prophet Calchas, when the goddess, cnraged with Agamemnon, beeause he had slain, in hunting, her consccrated hind, detained the Greek fleet in Aulis by a calm. Under the pretence that she was to be married to Achilles, Iphigenia was taken from her mother, and led to the altar. But, in the moment when the priest was about to give the death blow, Iphigenia disappeared, and, in her stead, a beautiful hind was substituted, whose blood gushed out on the altar. Diana had relented, and conveycd her in a cloud to Tauris, where she beeame the priestess of the goddess. Conformably with the cruel law of the country, she was olliged to sacrifice every Greek that landed there. Her brother Orestes, coming thither on his wanderings, in despair at the murder of his mother, and wishing to takc away the statues of Diana, was likewise condemned to be saerificed to the goddess. A recognition took place in the temple, and, after deliberating on the mcans of escape, Orcstes succceded in removing Iphigenia and the statues of Diana. Some nations maintained, that they derived the worship of Diana of Tauris from Iphigenia. She herself is said to have arrived at the island of Lenca, and, after being endowed with immortal youth, and the name of Orilochia, to have marricd the shade of Achillcs. Pausanias says that her grave was shown at Megara. In two famous operas by Gluck, and Göthe's masterpiece, Iphigenia auf Tauris (Iphigenia at Tauris), Iphigenia is the lcading eharacter.

Iphites; king of Elis, in Greece, the son of Praxonidas, and grandson of Oxylus, momorable as the institutor of the famous Olympie ganes. They are said to have been originally celebrated by Pe lops, or, according to some, by Hercules, in honor of Jupiter; and, after being negleeted for several ages, they werc restored or reëstablished by Iphitus. Controversies have arisen as to the age in which this prince lived. Some chronologers place him 884 B. C.; but sir Isaac Newton has slown that he probably lived a century later, and that the first games of his institution were held 776 B. C.; from which period they were continued, without interruption, for several centuries. (See Olympic Games.)

Ipsara. (See Psara.)
Ipsilanti. (Sce Ypsilanti.)
Irak Adjemı. (See Persia.)
Irak Arabi ; the ancient Babylonia and Chaldæa.

Iran. (Sce Persia.)
Ireland ; a large and fertile island of Europe, in the Atlantic occan, lying to the west of Great Britain, from which it is separated by the Irish sea, or St. George's channel ; in some parts 120 miles broad, in others not above 12 milcs. This conntry is situated between lon. $5^{\circ} 19$ and $10^{\circ}$ $28^{\prime} \mathrm{W}$., and lat. $51^{\circ} 15^{\prime}$ and $55^{\circ} 23^{\prime} \mathrm{N}$.; its superficial extent is not aecurately known. Pinkciton assigns it an area of 27,451 squarc miles; Wakefield, of 32,201 . Ireland is divided into four great provinecs, viz. Ulster, Lcinster, Connaught, and Munstcr, which arc again divided into 32 counties, containing 2436 parishes. Ulster, which occupics the northern part of the kingdom, contains nine counties, viz. Antrin, Armagh, Cavan, Donegal, Down, Fermanagh, Londonderry, Monaghan, and Tyrone. Leinster, situated to the east, contains 12 eounties, viz. Carlow, Dublin, Kildare, Kilkeuny, King's county, Longford, Louth, Meath, Queen's county, Westmeath, Wexford, and Wieklow. Connauglit, towards the west, contains five counties, viz. Galway, Leitrim, Mayo, Roscommon, and Sligo. Munster, which occupies the southern part of the kingdom, contains six counties, viz. Clare Cork, Kerry, Limerick, Tipperary, and Waterford. The faee of the country affords a pleasing variety of surfaee. In some parts therc are rich and fertile plains, watered by large and beautiful streams, while in other parts hills are found in frequent suecession, which give an agreeable diversity to the scencry. The mountainous chains of Ireland are neither numer-
ous nor important; for, though the country contains many liils of considerable elevation, yet they are not of such height, nor are they collected into suclı masses, as to give to Ireland the character of a mountinous country. The hilly parts of Ireland are, in general, of easy ascent, and adrnit of culture a considerable way up their sides; some of them, however, are precipitous, and terminate in cones, or spires. The principal rivers are the Shannon, the Bandon, the Lee, the Blackwater, or Broadwater, the Liffey, the Boyne, the Suire, the Barrow, the Slaney, and the Bann; the principal lakes, or loughs, lough Neagh, lough Erne, and lough Corrib. Lough Lane, or the lake of Killarney, is the most distinguished for its beauties. The harhors of Ireland are excellent and very numerons ; these are Waterford and Cork larbors on the south, Bantry and Dingle bays on the south-west, the estuary of the Shamon and the vast hay of Galway on the west, that great opening on the northwest, of which the bay of Sligo is a part. Lough Swilly and lough Foyle, on the north, are the most considerable. On the east side are the harbors of Belfast and Newry, and the barred havens of Dublin, Drogheda and Wexford. The principal cominercial towns are Dublin, Cork, Belfast, Limerick and Waterford. The numerous lakes and rivers render the inland navigation extensive, and are connected ly several canals. (See Canals.) The climate of Ireland is, in general, more temperate than the climate of other countries in the same latitude; the heat of smmmer is less oppressive, and the cold of winter less severe. It is also much more inclined to moisture, falls of rain being more frequent, and the atmosphere, even when there is no rain, being impregnated with a moisture which affects the walls of houses, as well as furniture and other articles. The soil of Ircland is, generally speaking, a fertile loam, with a rocky substratum. The bogs of Ireland form a very remarkable feature of the country ; these are of different kinds, and in some places are very extcnsive. In the reports of the commissioners appointer, in 1809, to inquirc into the nature and extent of Irish bogs, their extent is stated at $2,830,000$ English acres. The greater part werc considered by the cominissioners to form one connected whole; and a portion of Ireland, of little more than one fourth of its entire superficial contents, ard included hetween a line drawn from Wicklow-head to Galway, and another drawn from Iowth-head to Sligo, was supposed by the commission-
ers to comprise within it six sevenths of the bogs in the island, exclusive of some mountain bogs and bays of less extent than 500 acres. They were perfectly convinced of the practicability of draining these marshcs. Ireland is said to rest on a bed of granite, and granite is accordingly abundant, also limestone. The hasaltic region is in the north-eastern part of the island. (Sce Giant's Causeway.) A great varicty of marbles is found, also gypsum, fuller's earth and coal. Precious stones have been discovered in Ireland, namely, beryls, amethysts and jaspers, and also various species of crystals, which are hard, large, and very brilliant. Pieces of native gold have also been found. There are mines of lead, copper and cobalt, some of which have bcen wrought to great advantage, and some are at present worked by the Irish mining company. Two copper mines are now worked in the county of Cork. Iron ore is abundant, and in the middle of the 17th century, iron-works were very common. Mineral springe, chiefly chalybeates, are found in almost every county. There is a remarkable deficiency of wood in Ireland, though old historians speak of the country as a continuous forest. The woods were destroyed with so unsparing a hand, that wellgrown timber is rarely to be seen. In the 17th century, they were infested with wolves. Notwithstanding the great fertility of the soil, the average produce is much less than in Eugland, owing to the backward state of agriculture. In 1809, it was calculated that two millions of acres were employed in the culture of grain, about 800,000 in that of potatoes, and 150,000 in that of flax. The amount of land at present under tillage is probably five millions. The average amount of grain exported, in the four years preceding 1728 , was 26,638 quarters ; in 1825, it amounted to 12,774,442 quarters, although the population had trebled in the mean time. The same remarkable results appear in the number of cattle reared. The bullocks, cows and horses exported, on an average of seven years prcceding 1770, amomited to 2127; in 1826, they amounted to 66,649 . In the same year were exported 72,101 sheep, and 65,919 swinc. The cattle are of a very excellent description. The butter trade is considered, at present, as the staple trade, and a much greater extent of country is covered by dairy than by grazing farms. In 1824, 521,465 cwts. of butter were exported, and the quantity has since increased. The cultivation of flax, on a large scalc, dates from the beginning of
the last ceutury, and has now probably reached its maximum. Since 1827, a good deal of tobacco, of inferior quality, has been raised with profit. The linen manufacture has been of great importance to Ireland, not only in a commercial, but in a moral point of view. It is a domestic industry, the spinners and weavers being, in general, rural peasantry, who add the manufucturing business to the care of a few acres of ground. The linen exported from Ireland in

| 1710, was $1,688,574$ | yards |
| :--- | :--- |
| $1730, \ldots 4,436,203$ | " |
| $1750, \ldots .11,200,000$ | "" |
| $1770, \ldots 20,560,751$ | " |
| $1790, \ldots 37,446,133$ | " |
| $1810, \ldots 37,165,039$ | " |
| $1818, \ldots 55,770,636$ | " |
| $1822, \ldots 49,414,775$ | " |
| $1823, \ldots 43,464,363$ | " |

The commercial intercourse between Great Britain and Ireland having been put on the footing of the coasting trade, in 1824, there are no official records later than the above ; but it is well known that the linen manufacture has continued to decline, and has yielded no profits for the last six years, partly on account of the comparative cheapuess of cotton stuffs, and partly on account of the manufacture of an article composed of linen and cotton, which deceives the most practised eye, and is sold at lialf the price. The cotton manufacture has, however, increased. The cotton stuffs manufactured in Ireland, and exported to Great Britain, amounted, in

$$
\begin{aligned}
& 1822, \text { to } 406,687 \text { yards; } \\
& 1824, \ldots .3,840,699 \\
& 1825, \ldots 6,418,640
\end{aligned}
$$

The consumption of cotton goods in the country is more than double what it was 20 years ago. The country possesses many natural advantages for the woollen manufacture, but it has been crippled by the English legislation. The silk manufacture has much declined. The distilleries of Ireland are very extensive, and a considerable quantity of whiskey is exported. In $1826,9,895,567$ gallons of spirits were produced from the licensed distilleries, and the quantity from unlicensed stills was estimated at six millions. The industry and resources of the country have been wonderfully developed during the latter part of the last century, and still more since the beginning of the present century, as appears from the following table of the total exports and imports:-

|  | $\begin{aligned} & \text { Imports. } \\ & 759945 \end{aligned}$ | $\begin{gathered} \text { E.rports } \\ £ 1,287,988 \end{gathered}$ |
| :---: | :---: | :---: |
| 1720 | £ 740,660 | 2,519,569 |
| 1760 , | 79 | 4,651,755 |
| 1890, | 3,155,013 | 3,452,137 |
| 1810, | -6,059,612 | 5,030,157 |
| 1820, | . 5,190,888 | . 7,169,128 |

The official values here given fall considerably short of the real values. The total of imports from 1781 to 1800 was $£ 49,763,506$; from 1802 to 1820, . $191,450,593$; of exports for the former period, $69,692,764$; for the latter, 103,672,510 (official value in Irish curreney). An act, passed in 1819, for the encouragement of the Irish fisheries, has had a remarkable effect. The number of men registered was, in

$$
\begin{aligned}
& 1821, \ldots . .36,000 ; \\
& 1823, \ldots .49,448^{1825,} \\
& 1827, \ldots . .5 .89,809
\end{aligned}
$$

The net produce of the ordinary revenue of the kingdom amounts to nearly five millions annually (exclusive of loans and duties appropriated to national objects), which is ten times the sum that was raised with difficulty in the first half of the last century, and about four times the anount raised at the beginning of this cent:1ry. The debt of Ireland in 1817 was £134,602,769; but it was then considered expedient to unite the exchequer of Ireland with that of Great Britain, and thus consolidate the public debts of the two kingdoms. The population of the country has also increased rapidly and steadily. In 1695, it was estimated at $1,034,000$; in 1754 , at $2,372,634$; in 1785 , at $2,845,932$. In 1821, the census gave $6,846,999$ as the total population ; and, according to estimates formed by M. Moreau, in 1827, it amounted to 7,672,000. A calculation, founded chiefly on returns from schools, gives $1,970,000$ Protestants (of whom 700,000 are Presbyterians) 4,780,000 Catholics, and the remainder uncertain. The established church of Ireland resembles that of England. The dignitaries are four archbishops,-of Armagh (primate of all Ireland), of Dublin (primate of Ireland), of Cashel, and of Tuam, -and 18 bishops. The average revenue of these sees is about $\mathfrak{£ 9 , 0 0 0}$ per annum; the income of two of the primates is $£ 14,000$; of the bishop of Derry, 15,000 ; of the bishop of Elphin, 12,000. The number of parishes is stated at 2167 , the beneficed clergy at 1300, and the curates at 400 . The clergy not of the established church are estimated at about 2378 , viz. 1994 Roman Catholic, 239 Presbyterian, and 145 of other sects.

Their whole income is about $£ 2(64,000$. "In Ireland," says the Eclectic Review (1823), "the church of England has the tithes, the elinrch of Rome the people. Of nearly seven millions of people, $5 \frac{1}{2}$ millions are Roman Catholice, above one million dissentens, and less than lialf a million $(400,000)$ adtrerents of the estabfishment. To minister to these 400,000 hearers, there are 1700 clergy (of whom 587 are dignitaries), with an income of $£ 1,300,000$." The income of the clergy of the other $6 \frac{1}{2}$ millions we have above mentioned is $£ 264,000$. (Consult Moreau's Statistical State of Ireland (London, 1827), Wakefield's Account of Ireland (1812), Young's, Beaufort's, Reid's (1823) Travels in Ireland.) Until 1800, Ireland had a separate parliament ; but, the union with England having been effected in that year, the country is now represented in the imperial parliament. The government is administered by a viceroy appointed by the king, with the title of lord lieutenant of Ireland. An Irish chancellor, commander of the forees, chief secretary, vicetreasurer, and attorney and solicitor general, \&c., compose the Irish ministry. In 1827, the Irish peers were 213-1 duke, 14 marquises, 76 earls, 48 viscounts, 70 barons, and 4 peeresses. They are represented in the British house of lords by 28 representative peers; the clurch is also represented by four representative bishops. The Irish commons are represented by 64 knights and 36 citizens and burgesses. By 10 George IV, c. 8 (13 April, 1829), a freehold of $£ 10$ clear yearly value is made a qualification for voters, in the election of knights of the shires, and the 40 shilling frecholders, of whom the number was 184,492 , are disfranchised.

The hegimning of the history of Ireland is enveloped in fable. The historians of the comntry (O'Flaherty, Keating, O'Halloran, Vallaneey, Plowden) speak of Greek and Phonieian colonies, give lists of kings, \&c., for whieh there is no historical foundation. The vernacular language of the Irish proves that they are a part of the great Celtic race, whieh was once spread all over Western Europe. (See Gaul.) No Irish mannscript has been found more ancient than the 10th century. The oldest and most authentic Irish recorls were written between the 10 th and 12 th centuries; some of them go back, with some consistency, as fur as the Christian era; but there is no evidence that the Irish lad the nise of letters before the middle of the fifth century, when Cluristianity and Cluristian literature were introduced by St. Patrick.

The new faith did not flourish till a century later, when St. Columba erected monasteries. In the eighth and ninth centuries, the scholars of Ireland were among the most distinguished at the courts of the Saxon kings, and of Charlemagne. But when the Northmen commenced their descents on the coasts, the ecclesiastics took to flight ; and it is evident, from the colidition of the people at a later period, that the learning of the Irish clergy never extended beyond the walls of the monasteries. Divided among a number of barbarous and hostile chiefs, Ireland had been for a long time tom by internal wars, and, for nearly two centuries, ravaged by the Danes, when, in the beginning of the 11th century, Brian Borrhoimi, or Boroilmh (the Conqueror), united the greater part of the island under his sceptre, restored public tranquillity, and expelled the northern invaders. In 1155, Henry II, king of England, obtained a bull from Adrian IV, granting him the possession of Irelaud. In 1169, English troops under the earl of Pembroke (Strongbow) landed in the country, whieh was soon partially reduced by the invaders, aided by the mutual hostilities and jealousies of the native chiefs. The country over which the English aetually ruled included the four countics of Dublin, Meath, Louth and Kildare, and was called the pale. In the rest of the island, the native chiefs still maintained their independence. In 1310, Edward Bruce, brother of the king of Scotland, landed in Ireland, at the head of a Scotch force, and caused himself to be crowned king of the island; but, not heing vizorously supported by the Irish, who had invited his assistance, he was defeated by the English, and the Scotch were obliged to return without accomplishing any thing. There still remained one independent prince, in the provinee of Ulster, whose daughter and heir having been married to the duke of Clarence, son of Edward III, that provinee came into the hands of the English in 1361. A parliament, held at Kilkenny in 1367, forbade intermarriages with the Irish, the use of their language, \&c., under severe penalties, and thus contributed to widen the distinetion between the two nations, which it should lave been the policy of the English government to amalgamate. In the reign of Henry VI, Richard, duke of York, was appointed chief governor; and an attachment to his descendants continued to influence the Anglo-Irish during the reign of Henry VII, as appears in the affair of Lambert Simnel. In his reign (1495) was passed

Poyning's act (so called from sir Edward Poyning, lord-deputy of Ireland), which provided that all former laws passed in England should be in force in Ircland, and that no Irish parlianent should be held without previously stating the reasons on aceount of which it was to be summoned, and the laws which it was intended to enact. When Henry VIII, in the 1 Gh century, embraced the reformation, the Irish continued to adhere to the Catholic religion. But, in 1541, Henry received from the Irish parliament the title of king of Ireland, instead of lord, which he had before borne, as a vassal of the pope. The monasteries were suppressed, the tribute to the papal see abolished, and, to reward the chieftains for their submission, O'Neil, O'Brien and De Burgo were created earls; they were the oldest peers of Irish deseent. Under Edward VI, the deputy proposed to the Irish parliancint the adoption of the reformation. Three arehbishops and 17 bishops left the assembly; most of the clergy fied the country, and those of the lower clergy who remained, being deprived of their ineomes, lived on the charity of their parishioners. Clizabeth, in 1560, eaused the measures adopted in the reign of Mary to be abrograted, and replaced every thing on its forsner footing. She endeavored to improve the eondition of Ireland, and employed able men to effeet her purposes, yet her reigu was marked by a series of risings, whieh finally terminated in a general war against England, usually called the rebelion. O'Neil, earl of 'Tyrone, instigated by the pope, and supported by the Spaniards, was the leader in this war, which, though successfully begun, ended with the reduetion of the whole island (1603). In 1613 , the first national parliament was held in Ireland; but of 226 members of the house of commons, 125 were Protestants, and the upper house consisted of 25 Protestant bishops and 25 temporal lords, of whom but few were Catholics. The reign of James ( 1603 -25) was, on the whole, favorable to Ireland; the arbitrary power of some of the chieftains was restrained, the administration of justice improved, \&c.; but religious troubles were occasioned by the disabilities to whiel the Catholics were subjected. On the accession of Charles I, Wentworth, afterwards earl Strafford, was appointed lord-lieutenant; and his administration was beneficial to the country. But the republican inclinations of the English residents, the liate which existed between them and the Irish Catholics, the influence of the Irish clergy, who were
educated in foreign countries, with other circumstances, led to an attempt to shake off the English yoke. Dr. Lingard says of this insurrection, that it has been usual for writers to paint the atrocitics of the natives and to omit those of their opponents, but that revolting barbarities are equally recorded of both, and that if among the one there were monsters who thirsted for blood, there were among the others those who had long been accustomed to deem the life of a mere Irishman beneath their notice. After the death of Charles, Cronwwell was appointed lientenant of Ircland, and, with his usual energy and promptitude, but with great cruely, soon reduced the whole country. All the possessions of the Catholies were confiseated, about 20,000 Irish were sold as slaves in America, and 40,000 entered into fureign serviee, to escape the severity of the conqueror. Charles II restored the fourth part of the confiscated estates to the Irish, and James II appointed Tyrconnel, a Catholic, lord-lieutenant of Ireland, and filled the parliament with Catholies. But the battle of the Boyne (1689) restored the Protestant ascendency. William proseribed the adherents of James, and confiscated their estates. Greatnumbers of the Irish entered the French army, and it lias been computed that 450,000 fell in the Freneh service, from 1691 to 1745. The dependence of the Irish parliament on the English next became a subject of controversy, and in 1719 was passed an aet declaring that the British parliament liad full power to make laws binding the people of Ireland. The Irish trade and industry were also subject to every kind of restriction and discouragement ; and it was not until the Ameriean war broke out, that a change beeame perceptible in the conduct and language of the British government towards Ireland. The Irish parliament demanded free trade, but the nation went much further; and, in 1782, the parliament of Ireland was placed on the same footing with that of Eugland. The French revolution was another occasion which encouraged the Irislı to attempt to obtain new concessions. An association was accordingly formed, under the naine of the United Irishmen, the secret object of which has been asserted to be the establishment of an independent republic. The Catholies also held a convention, in 1792, and obtained the removal of some grievances of which they complained. As the troubles continued, the habeas corpus act was suspended in 1796. The leaders of the Irish union
were arrested in 1798, and the plan of an insurrection was discovered ; yet quiet was not restored without mucli bloodshed. In order to prevent further troubles, it was thought advisable to effect a union of Ireland with England, which was donc in 1800. The future listory of Ireland belongs to Great Britain (q. v.; see, also, the article Catholic Emancipation).
Ireland, William Henry, is the son of the late Samucl Ireland, well known as the author of several tours, and as illustrator of Hogarth. The son was born in London, educated at the academy in Soho square, and articled to a conveyancer of New Inn, where, having much leisure, he began to exercise his ingenuity in imitating ancient writings. His progress in this encouraged him to endeavor to pass off some initations of Shakspeare as the real remains of the bard. Having executed some of them on the blanks of old books, he communicated thenı to his father as recently discovered MSS. of Shakspeare. The father made the discovery public. The public were greatly interested by these papers, and a few, who ought to have known better, admitted their authenticity, and in private companics, with much warmth, supported it. A subscription was set on foot to enable the Irelands to print them. A splendid volume appeared in 1798, and, at Drurylane theatre, a play was performed, called Vortigern and Rowena, as a specimen. On the appearance of the volume and the play, both the readers and the audience detected the cheat, which had, however, already been properly exposcd by Mr. Malone. Young Ireland now found it necessary, for his father's character, to acknowledge the fraud, and published an authentie Account of the Shakspeare Manuscripts, in which lie solemnly declares that his father was deccived by him; that he alone was the althor and writer, and that no one else had any part in the affair; and, lastly, that he should not liave gone so far, had not the public praised the papers so mucl, and flattered his vanity. Since then, Mr. Ireland has written several novels, some poetry, a work called France during the last seven Years of the Bourbons, Anecdotes of Napoleon, a Life of Napoleon, \&c.

Ireneus, St. ; presbyter, and, at a later period, bishop of Lyons, towards the end of the second century, a pupil of Polycarp and Papias; a nuan of considerable learning, and animated with an ardent zeal for Christianity. He was violent in his opposition to the herctical Chiliasts.

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His works are all lost, except his Libri $Y$ adversus Hareses, and these arc extant only in a translation. He suffered nartyrdom (after 202), and is honored as a saint. His day is April 6. His works have becn edited by Fenerurdent (Paris, 1596, folio), Grabe (Oxford, 1702, folio), Massuet (Paris, 1710). His fraginents have also been collected by C. M. Pfaff (Hague, 1715).-There are several other martyrs of this name, and three men of the same name are mentioned in the Grcek Anthology.

Irene ; 1. in mythology, one of the Hours (see Hours), denoting peace.-2. An empress of Constantinoplc, alike famous for talent and beauty, and for her crimes; was born at Athens, and, in 769 , married Leo IV, after whose death, by poison administcred by her, she raised herself (780), and her son, Constantine VI, who was then but nine years old, to the imperial throne, with the aid of the nobles. She believed it necessary to strengthen herself in this dignity by new acts of violence, and caused the two brothers of her murdered husband, who had formed a conspiracy against her, to be executed. Charlenagne at that time menaced the Eastern empire. Irene at first delayed lim by promises. She at last went so far as to oppose him, arms in hand; but le totally defeated her army in Calabria, in the year 788. Two years before, she had convened two general councils at Nice, in whicl the Iconoclasts were particularly attacked. (See Iconoclasts.) When Constantine had grown up, he refused to permit her to participate longer in the government, and actually rcigned alonc sereu years, when he was arrested at the order of his mother, his eyes plicked out, and himself finally murdered. Irenc was the first female who reigned over the Eastem empire. Her entrance into Constantinople on a triumphal car of gold and precious stones, her liberality to the people, the freedom which she bestowcd on all prisoners, and other artifices employed by her, were not sufficient to secure her from the consequences of her criminal accession. She had ordered many nobles into banishment, and, to secure yet more firmly the possession of the thronc, had just resolved to marry Charlemagne, when Nicephorus, who was placed on the imperial. throne, exiled her, in 802 , to the isle of Lesbos, where she died, in 803.

Ireton, Henry ; an eminent commander and statesinan, of the parliamentary party, in the civil wars of Charles I. He was descended from a good famils, amd
was brought up to the law; but, when the civil contests commenced, he joined the parliamentary arnny, and, by the interest of Cromwell, whose daughter Bridget he married, he became commissary-genteral. He enmmanded the left wing at the battle of Naseby, which was defeated by the furious onset of prince Rupert, and lie himself wounded and made prisoner. He soon recovered his liberty, and took a great share in all the transactions which threw the parliament into the power of the army. It was from his suggestion that Cromwell called together a secret council of officers, to deliberate upon the disposal of the king's person, and the settlement of the government. He had also a principal hand in fruming the ordinance for the king's trial, and sat himself as one of the judges. Ireton accompanied Cromwell to Ireland, in 1649, and was left by him in that island as lord deputy. He reduced the natives to obedience with great vigor, but not without cruelty. He died in Limerick, in 1651. Hume calls him a memorable person, celebrated for vigilance, eapacity, and a rigid exereise of justice, during lis unlimited command in Ireland. After the restoration, his body was taken up and suspended from the gallows, with that of Cromwell, and was buried in the same pit.
Ira; a Basque word,signifying town,city.
Iriarte, or Yriarte, Thomas d'; a Spanish poet, born in 1752, and died in 1803. As a poet, he is known by his Literary Fables (1782), which have been translated into English, his poem La Musica (1784, 4to.), dramas, \&c. His works were published in 8 vols., at Madrid, in 1805.
Iridium; the name of a metal discovcred in 1803, by Mr. Tennant, in the black residuum from the solution of the ore of platinum. Its name was bestowed in allusion to the rainbow (iris), in consequence of the changeable color it presents while dissolving in muriatic acid. Its color is white ; it is brittle, and very difficult of fusion; speeific gravity, 18.68. It is aeted upon with difficulty even by the nitro-muriatic acid; but, when oxidized by digestion with it, it unites with otheracids, and with the earths, particularly with alumine. It combines with sulphur, by heating a mixture of ammonia, muriate of iridium, and sulphur: the compound is a black powder, consisting of 100 iridium and 33.3 sulphur. Lead unites with this metal casily, but is separated by cupellation, leaving the iridium on the cupel, as a coarse black powder. Copper forms with it a very malleable alloy, which, after cupellation,
with the addition of lead, leaves a small proportion of the iridium, but muel less than in the preceding instance. Silver forms with it a perfeetly malleable compound, the surfaee of which is merely tarnished by cupellation; yet the iridiunn appears to be diffused throngh it in fine powder only. Gold remains malleable, and little altered in color, thouglı alloyed with a considerable proportion; nor is it separable either by cupellation or quartation. Dr. Wollaston has observed, that, annong the grains of crude platinum, there are some scarecly distinguishable from the rest, but by their insolubility in nitro-muriatic acid. They are harder, however, when tried by the file, not in the least mallcable, and of the specific gravity of 19.5. These he concluded to be an ore consisting entirely of iridium and osnium.

Iris; daughter of Thaumas and Electra (daughter of Occanus), the sister of the Harpies, and the fleet, grolden-winged messenger and servant of the gods, especially of Jupiter and Juno, who, in reward of her serviecs, as tradition runs, transported her to heaven, in the form of a rainbow. She is represented as a beautiful virgin, with wings and a variegated dress, with a rainbow ahove her, or a eloud on her head exhibiting all the colors of the rainbow. The physical appearance of the rainbow is the foundation of this fable, conformably with the custom of the Greeks. The rainhow was believed to draw vapors up to the clouds from the sea and land, and to drink up the rivers with the liead of an ox.The ring of the eye, or the colored circle around the pupil of the eye, is also called $i r i s$; and $i$ ris-stones are specimens of erystal or quartz, which exhibit the colors of the rainbow.

Iris, Flag, or Flower-de-Luce; a genus of plants comprising upwards of 80 species, remarkable for their pointed, sword-shaped leaves, and their large and beautiful flowers. They constitute one of the chief ormaments of the northern regions of the globe, and usually grow in wet places, bearing flowers of various colors, but the prevailing tint of which is blue. Nine species are natives of the U. States, some of which possess active cathartic properties.

Irkutsk; a Russian govermment in Asia, formerly containing two and a half million square miles, with a population of from 5 to 600,000 inhahitants. The present govermment, formed in 1823, is the castern part of the former govermment; it contains 400,000 inhabitants, and reaches from $95^{\circ}$ $40^{\prime}$ E. longitude to the Northern Frozen
ocean and the Pacific ocean, forming the Russian frontier towards China. The soil is chiefly sterile, the climate cold. The inountain claains Sayanskie and Stanovoi render the face of the country uneven. The seas of Kamtschatka and Okotsk, into which many promontories project, wash its coasts. In the warnest summer months only is navigation possible, and the communication with other countries is very much interrupted. The rivers are the Lena, Olonek, Anabara, Kolyma, Indigerka, which empty into the Icy sea; the Anadyr, Kamtschatka, Argoun, Schilka, which empty into the Pacific ocean. The climate is various, but the winter is every where long. In the southern part, grain is raised, and some vegetables are produced in cvery district. The woods abound in bears; few cattle are raised; the reindeer are numcrous, as are also sables, foxes and sea-otters. Swarms of mosquitoes molest man and beast. The waters contain many salmon, which inake part of the food of the bears and wolves. The mineral kingdom is not destitute of precious metals, but they are little worked. The inhabitants are Russians, Tartars, Mongols, \&c., in a low state of civilization. A circle of the government is also called Irkutsk, and the capital of both bears the same name. It was built in 1669, is situated on the Angara, and contains 33 churches, a theatre, scveral schools (a Japanese gymnasium, a garrison school, a seminary for priests, a printingoffice, a library with 3000 volumes, \&c.), soap boileries, manufactories of cloth, salt works, and has considerable commerce, as the entrepot for the fur trade with China. Population, 20,000 . It is connected by its position with three commercial routesthat of Kiakta, that of eastern Siberia and Kamtschatka, and that of westeri Siberia and Russia. The commerce carricd on here is valued at $\$ 800,000$ aunually. The furniture, ornaments, \&c., from Clina, give this city a Chinese air. Lat. N. $52^{\circ}$ $16^{\prime} 41^{\prime \prime}$; lon. E. $104^{\circ} 11^{\prime} 41^{\prime \prime}$.
Irminsul(German, Irmensäule); a statue worshipped by the ancient Saxons, which represented a inan completely armed in the fashion of the ancient Gcrmans, with a banner in his right hand and a lance in his left. This statue was their most sacred idol, and is said to have stood in a holy grove at Eresburg, a principal fortress of the Saxons (near the present Padcrboru). Charlemague demolished this fortress in 772 , and with it that monument of antiquity. The listory and meaning of the Irininsul is very obscure: according to com-
mon opinion, it was erected in honor of Hermann, the deliverer of Germany (see Arminius); but it was probably the image of some distinguished divinity, perhaps of Woden himself, and the name of Irmin or Hermann, which signifies man of war, was attached to it, because Woden was the god of war.

Iron is the most valuable of all the metals. Though mentioned in the Pentateuch, we have reason to believe, from the facts that the fabrication of steel was unknown to the ancients, and that they were wholly destitute of metallurgical skill, that its uses wcre little known in the earlier pcriods of society. The Romans employed, as a substitute for it in their armor, an alloy of copper and tin. Its use has followed the progress of civilization in the world; and the amount of it consumed by any nation, at the present day, indicates very truly the degree of its advancement in the arts and sciences. The alchemistical name of iron was Mars. In treating of this metal, we shall adopt the following order: its ores; their reduction to the metallic state ; the chemical history of iron.

Ores of Iron. Iron exists in nature under four different states-the native state; that of an oxide; in combination with combustible bodics, particularly sulphur; and, finally, in the state of salts, as thc sulphate, phosphate, and carbonate, of iron.-1. Native Iron. Natural malleable iron is a rare production of this globe, nearly all that has ever been fouind upon it having come to us from the atmosphcre. It occurs in the form of a ramose stalactite, covered by brown, fibrous oxide of iron, ningled with quartz and clay, in a vein traversing a mountain of gneiss, near Grenoble, in France; also with spathic iron and heavy-spar, at Kamsdorf, in Saxony. More recently, it has been found in threc places in the U. States-at Canaan, in Connecticut, in a small vein attached to a mass of gneiss upon a high mountain of the same rock ; and in Pennsylvania and North Carolina: at the latter place, it was found loose in the soil, in a mass weighing more than 20 pounds. In neither of these cases was the iron perfectly pure. That from Saxony, besides 92.50 of iron, contained 6.0 of lead and 1.5 of copper ; that of Canaan was slightly intermingled with carbon, so as occasionally to lose its malleability, approximating it to the character of steel ; and that of Penusylvania was alloyed with 1.56 per cent. of arsenic. A piece, weighing 7 oz ., fron the large mass of North Carolina, was crystal-
lized in the forn of the regular octahedron, the surfaces of which exhibited a plaited structure: it was examined for other metals without success, though its imperfect malleability left no doubt of its containing a small proportion of arsenic. The meteoric iron differs very considerably from the terrestrial, native iron. Its color is a light steel-gray, resembling platina; it is easily cut with the knife, and it is flexible and perfectly malleable when cold. Specific gravity, 7.768. It occurs in large masses, sometimes of many tons weight, marked externally by impressions, like those produced by the hands and feet upon a soft, plastic mass; also in small globular and filiforn masses, disseminated through meteoric stones. Occasionally, it presents imperfectly-formed octahedral crystals. A crystalline texture becomes visible, however, in cutting the large masses, and exposing the surfaces produced to the action of nitric acid, or allowing them to tarnish by heat. It invariably contains from 3 to 12 per cent. of nickel, and often traces of cobalt, neither of which netals have ever been found alloying terrestrial native iron. Meteoric iron is contained in all meteoric stones; in some, it exists in a very feeble proportion; in others, it forms one quarter of their weight; and again in others, it constitutes nearly the entire mass; while the largest masses of it ever found consist of it wholly, without the smallest mixture of foreign matters. In the two first-mentioned conditions, it lias often been seen to fall from the heavens, while in the solid state, it never has been observed, by credible witnesses, to fall, but on one occasion, at $A$ gram in Croatia. Some of the largest masses of meteoric iron known, are the following: that found by Pallas, in Siberia, weighing 1680 Russian pounds; that discovered by Rubin de Celis, in the district of Chaco-Gualamba in South America, and which weighs 15 tons; and that found near Red river, in Louisiana, weighing 3000 pounds, and which is now deposited in the collection of the lyceum of natural history in New York. Besides these, other very considerable pieces have been noticed in Africa, Mexico and Bohemia. (For additional particulars concerning meteoric iron, and its origin, see Meteoric Stones.) Meteoric iron has been worked, as an object of curiosity, into knives, swords, and other instruments.-2. Magnetic Iron Ore, or Oxydulated Iron, is of an iron-black color, more intense than belongs to metallic iron; its powder is of a pure black. It occurs crystallized, in the iorm of the regular octaledron, which is
its fumdamental form ; it usually, lowever, presents itself in large lamelliform inasses, with distinct octahedral cleavages, in granular concretions, or compact. It is brittle, has the liardness of feldspar, and a specific gravity of 5.094 . It exerts a decided action on the magnetic needle ; and certain specimens, especially of a compact variety, attract and repel, alternately, the poles of a needle, according as we present the same point of a fragment of the ore to one or the other of the extremities of a needle. This variety, which is found in Warwick, Orange county, New York, and at several places in New Jersey, as well as in other countries, is called the native loadstone. Its magnetic virtue strengthens by exposure to the air. The magnetic iron consists of 28.14 protoxide of iron, and 71.86 of peroxide of iron. It is infusible before the blow-pipe, but assumes a brown color, and loses its attractory power, after having been exposed to a great heat. It is soluble in nitric acid, and may be obtained crystallized by fusing it, as often happens in the roasting of it, in furnaces, to effect its reduction. It occurs in primitive rocks, chiefly in gneiss, mica-slate, homblende-slate, and chlorite-slate, and rarely in limestone, when it forms veins, beds, or even entire mountains. It also composes the chief ingredient of certain sands, which lave been washed and deposited by the same currents which separated it from its original beds. The different varieties of this ore are exceedingly rich in metal, often yielding 80 per cent. of iron, and are every where explored, when found in sufficient quantities, and connected with abundance of fuel and facility of transportation. In Sweden, it forms the ohject of numerous important explorations, anong which may be cited that of the mountain of Taberg, near Jonkoping, in Smoland, where it is so abundant as to be worked under the open sky; that of the island of Utoe, where excavations extend to a great distance under the contiguous sea; that of Dannemora, in Upland, which is at present under the control of the English; that of Gallivara, beyond the polar circle, where the ore forms an entire mountain; and, finally, those immense deposits of ferruginous sand which are so extensively wrought in Dalecarlia, in Smoland and in Wermoland. The oxydulated iron is also explored at several places in Siberia, Piedmont, and the kingdom of Naples. In the U. States, it exists in the greatest abundance, and is wrought at numerous localities. The primitive range of moun-
tains upon the western side of lake Champlain, affords numerous veins and beds of it, sometimes more than 20 feet in thickness, and little intermingled with foreign substances. The principal works for its reduction are at Peru, and near Crown Point. A valuable deposit of the compact magnetic iron, precisely similar to that worked at Dannemora in Sweden, occurs at Franconia in New Hampslire, upon a small mountain of gneiss, belonging to the White mountain range. In the Highlands of New York, it forms numerous beds, as also in their continuation through the northern part of New Jersey to the Delaware river, and is worked extensively at Munroc, Hamburg, and many other places. The present ore forms the best iron which is made for the manufacture of stecl; and hence the employment of Swedish iron by the English for this purpose. 3 . Chromated Oride of Iron (Chromate of Iron) is found erystallized in regular octahedra, and massive. Lustre, imperfectly metallic; color, between iron-black and brownish-blaek; streak, brown; opaque ; brittle; hardness, the same with the preceding species ; specific gravity, 4.498. Vauquelin and Klaproth make it consist of

Oxide of chrome, . . . 43.00 . 55.50
Protoxide of iron, . . . 34.70 . . 33.00
Alumina, . . . . . . . . 20.30 . . 6.00
Silica, . . . . . . . . . 2.00 . . 2.00
Alone, before the blow-pipe, it is infusible, but acts upon the magnetic needle, after having been exposed to the reducing flame. It is dissolved when heated with borax, to which it imparts a beautiful green color. It was first found in the department Du Var, in France, in the form of nodules and kidncy-shaped masses. It was afterwards diseovered in Stiria and Seotland; at the former place, imbedded in serpentine, at the latter, in limestone. In the U. States, it exists abundantly in Maryland, near Baltimore; also, in small quantities, in Comnectient, near New IIaven, in limestone, with serpentine. It is a highly valuable mineral, when it occurs in quantity, for extracting the oxide of chrome, which is employed either alone or in various combinations with the oxides of other metals, as cobalt, lead, mereury, \&c., both for painting on porcelain, and for painting in oil. 'The quantity of chromate of lead, or chrome yellow, manufuetured in Baltimore annually, is estimated at 50,000 pounds. (See Chrome.)-4. Specular Iron Orc, and Red Iron Ore. This species, scarcely less interesting than the last in economical importance, presents many difficulties to the mineralogist, in conse-
quence of the eomplicated forms of its crystals, and the diversified appearance of its compound varieties. It is crystallized in a great nuinber of forms, whose fundamental figure is a slightly-acute rhomboid of $86^{\circ} 10^{\prime}$ and $93^{\circ} 50^{\prime \prime}$, which may be derived from its crystals by cleavage. The general tendeney of its secondary forms is to hexagonal prisms and irregular octahedra. Lustre, metallic ; color, dark steel-gray, iron-black ; streak, cherry-red, or reddish brown; surface of the crystals frequently tarnished; opaque, except in very thin laminæ, which are faintly translucent, and show a deep blood-red color; brittle; hardness, the same with the preceding species; specific gravity, 5.251 . Its action upon the magnet is feeble; it never attracts iron-filings, or offers magnetic polarity. Besides occurring in distinct crystals, and in lamelliform and compact masses, with a inetallic lustre, it also presents itself in reniform, botryoidal and stalactitic shapes, and earthy-looking masses, where, from the smallness of the individvals, no signs of the metallic appearance are discernible. These varieties have received distinet names, and have often been treated of, in mineralogical systems, as belonging to a distinct species, which, on account of their color, has been designated red iron ore. But this distinction is now given up, as an uninterrupted transition has been noticed between all the varieties of the red iron ore and the crystalline specular iron. The following are some of the varieties of the present species, according as they lave aequired distinet appellations in mineralogical books, and among mankind in general: that in distinet crystals is called specular iron; that in thin, lanellar coneretions, with a metallic lustre, is called micaceous iron; the rest, with a metallic lustre, is denominated comnon specular iron. Those varieties which have lost their metallic appearance, are included within, 1. the red iron ore, divided into fibrous red iron ore, or red hematite; compact and ochrey red iron ore, which are massive, and consist of impalpable granular individuals, more or less firmly connected; and scaly red iron ore, or red iron froth, consisting of very small, scaly, lanellar particles, which, in most eases, are but slightly coherent: 2. clay iron ore, divided into reddle, whieh possesses an carthy, coarse, slaty fracture, and is used as a drawing material; jaspery clay iron ore, which has a large, flat, conchoidal fracture, and considerable hardness when compared with the other varieties of red iron ore; and columnar and
lenticular clay iron ore, whielh are distinguished, the first by the columnar forn, the latter by the flatish, granular form of its particles. The micaccous iron, analyzed by Bucholtz, and the red hematite, analyzed by D'Aubuisson, have been found to consist of
$\begin{array}{ccr}\text { Peroxide of iron, } 100.00 & 90.00 & 94.00 \\ \text { Oxide of manganese, } 0.00 & \text { a trace a trace } \\ \text { Silica, } \ldots \ldots .0 .00 & 2.00 & 2.00 \\ \text { Lime, } \ldots \ldots .0 .00 & \text { a trace } & 1.00 \\ \text { Water, } \ldots . .0 .00 & 2.00 & 3.00\end{array}$
The proportion of inetal to that of oxygen, in the species, is as $69.34: 30.66$. The clay iron ores, being more or less mixed with earthy substances, vary in their contents, and several of their properties are dependent upon the nature of these admixtures. The speeular iron is infusible before the blow-pipe, but melts with borax, and forms a green or yellow glass, like pure oxide of iron. It is likewise soluble in heated muriatic acid. The specular iron (in the crystalline, lamelliform and compact varieties, with a metallie lustre) forms very powerful beds, and even entire mountains, which are traversed by a mullitude of fissures, and cavities lined with small, but exceedingly brilliaut erystals of this substance. It yields, in the ordinary operations of reduetion, 60 per cent. of metal. Its nost eelebrated loeality is the island of Elba, which has afforded iron for 16 ceuturies. Its mines are still believed to be inexhanstible. They annually yield $32,000,000$ of Freuch quintals of ore, which are transported for reduction into Tuscany, the Roman states, Liguria, and the kingdom of Naples. It is also found at Framnont in the Vosges (where its exploration occupies 200 miners), in Suxony, Bohemia, Sweden, Siberia, and in the U. States, at Hawley in Mass. Wherever it existe, it is explored with profit. It deserves to be mentioned, also, that specular iron, in exceedingly brilliant erystals and scales, occurs very frequently among the ejected matter of volcanoes, as in the lavas of Vesuvius and Auvergne, where it is, undoubtedly, a product of sublimation. The red hematite is found in beds and veins, in primitive and secondary countries. It oecurs abundantly in Saxony, the Hartz, Silesia, and in England. In the U. States, it is found very sparingly, and is nowhere reduced for the metal. It oecurs at Ticonderoga, N. Y., where it is ground to powder, and employed as a polishing substance. It affords excellent iron, and often in the large proportion of 60 per cent. Most of the plate iron and iron wire of England are made of it. In

Seotland, it is used, along with the ore of that country, at the Carron and Glasgow works. The ochrey red iron ore usinally accompanies the other varieties of this speeies, and is treated conjointly with them. In places where it is found in considerable quantities, it is sometimes collected, washed, aud employed as a polishing substance. The compact red iron ore is found in France and some other European countrics, where it is reduced, and affords a good soft iron, yielding 50 per cent. of metal. But its most important use is as a polisher. It forms, when perfeetly compact, the burnisher of the buttonmaker, by means of which he imparts to gilded buttons the highest polish of which they are capable. The best specimens for button-polishers command a very high price, and usually come from little pebbles and rolled masses of this ore, found in secondary countries. Those most esteenned have hitherto been brought from Spain. There are strong indications, however, that it exists dispersed through the soil near Marietta, in Ohio. The lenticular or scaly red iron ore abounds in the secondary region of New York, forming a thin stratum near the surface of the ground. It is wrought at Utica, as well as at many other places.-5. Hydrous Oxide of Iron, and Brown Iron Ore. The present is a species nearly parallel to the foregoing, in the quantity of iron it affords to society. It is rery rarely observed in distiuct crystals, more usually occurring in botryoidal and stalactical inasses, consisting of closely aggregated fibres, in which respect it resembles the most common varieties of the speeular iron. The crystals are very small, externally black and brilliant, and in the shape of right rectangular prisme The general charaeter of the species is as follows: lustre, adamantine; color, various shades of brown, of which yellow-ish-brown, hair-brown, clove-brown and blackish-brown are the most common; streak, yellowish brown; brittle ; no action on the magnet; seratched by feldspar; specific gravity, 3.922 . Besides occurring in crystals, and in globnlar stalactitic and fruticose shapes, it is found in masses whose composition is impalpable ; sometimes, also, the partieles are so slightly coherent, that the mass appears carthy and dull. It differs, chemically, from the speeular iron, in containing a quantity of water, not increly interspersed through its substance by simple absorption, but intimately combined with it by chemical affinity. According to D'Aubuisson, it consists of (in two analyses)

the proportion of peroxide of iron and water being as 85.30 to 14.70 . Before the blow-pipe, it becomes black and magnetic. It melts, with borax, into a green or yellow glass, and is soluble in heated nitro-muriatic acid. The division introduced annong the varieties of the present species, is somewhat similar to that which has been given to red iron ore. Crystallized hydrous oxide of iron embraces the small black crystals, which sometimes occur in fibrous and radiating bundles. Crystallized brown iron ore is that variety which presents itself in the form of the cube, rhomboid, or some modification of these forms, and does not properly belong to this species, being decomposed varieties of iron pyrites and spathic iron, to which they are more correctly referred. The fibrous brown iron ore, or brown hematite, contains the fibrous varieties, in stalactitic, reniform, and other imitative shapes. Compact brown iron ore comprehends those imitative shapes and massive varieties, in which the composition or fibrous structure is no longer observable; while ochrey brown iron ore, or bog iron ore, is applied to those which have an earthy texture and are friable. As impure varieties of the species, we must consider some of the clay iron ores, such as the gramular, the common, the pisiform, and the reniform clay iron ore. The granular variety is composed of compact, roundish, or globular masses; the reniform one, of alternating coats, of different color and consistency, disposed in a reniform surface. In the pisiform variety, we mcet with a similar composition, only in small globules, parallel to the surface of which the lamelle are disposed. The compact pisiform clay iron ore, however, does not belong to the present species, but it is decomposed iron pyrites, as is demonstrated, not only by the crystalline forms which it affects, but likewise from the nucleus of the undecomposed pyrites, which the largest specimens of it often embrace. The crystallized hydrous oxide of iron is found, in limited quantities, in England, France and Siberia; it either occurs in quartzosc geodes, in the form of mamillary masses, or is enclosed in quartz crystals. The fibrous brown iron ore is the most abundant and widely dispersed of all the varieties of this species. It is conmonly found in large beds, in gneiss or mica-slate, and very frequently in imnediate comexion
with granular limestone. It is also found in Saxony and Thuringia, in beds and veins, embraced, in some instances, in newer rocks. It is uncommon in the northern countries of Europe; but in Gerinany, France, and the Austrian dominions, it is wrought in great abundance. Its most remarkable deposit in the U. States, is at Salisbury in Conn., where it has been wrought for nearly 100 years; the amount of pig iron yielded annually, at present, is about 2000 tons. Many other localities of brown hematite exist in Litchfield, Conn., as well as in the contiguous counties of Dutchess, N. Y., and Berkshire, Mass. The iron which this variety affords is superior in malleability to that yielded by the red ore of iron, and is much esteemed, also, on account of its toughness and hardness. The pig iron obtained from melting its purer varieties with charcoal, in particular, may be easily converted into steel. The compact variety of this species is usually found in the same localities with the fibrous hematite, and is equally employed with that variety for obtaining iron. The ochrey brown iron ore, or bog iron ore, is the most recent in its formation of all the ores of iron, its deposition being continually going on, cven now, in shallow lakes and in morasses. It is wrought in all countries, more or less extensively; but the iron it yields is chiefly used for castings. The pisiform clay iron stone occurs imbeded in secondary limestone, in large deposits, in France and Switzerland, where it supplies considerable iron works; but the iron, like that from the other earthy varieties of the present species, is generally too brittle to be wrought into bar-iron.-6. Arsenical Iron, or Mispickel, is found crystallized in right rhombic prisms of $111^{\circ} 12^{\prime}$ and $68^{\circ} 48^{\prime}$. These are often terminated by dihedral summits, and liable to a large number of modifications. It also occurs massive. Lustre, metallic; color, silver-white, inclining to steel-gray; streak, dark grayish-black; brittle; hardness, nearly that of feldspar; specific gravity, 6.127. Its chemical composition is, iron 33.5, arscnic 46.5, and sulphur 20. Before the blow-pipe, upon charcoal, it emits copious arsenical fumes, and melts into a globule, which is nearly pure sulphuret of iron. It is soluble in nitric acid, with the exception of a whitish residuc. It sometimes contains a small proportion of silver; when it is denominated argentiferous arsenical pyrites. Arsenical iron is a pretty abundant substance, and occurs both in beds and veins, often accompanied by ores of silver, lead aud
zinc. It is very plentiful in the mining districts of Saxony, in the silver mines of Joachimsthal and the tin mines of Schlaggenwald; also in the Hartz, Sweden and Cornwall; in the U. States, at Franconia in New Hampshire, with copper and iron pyrites, in gneiss; at Worcester, in Mass, with spathic iron ore and blende, in quartz; at Chatham in Conn., with arsenical cobalt, in gneiss; and in Edenville, in New York. The accidental admixture of silver renders some varicties of the present species useful as ores of that metal. The common arsenical pyrites, when occurring in large quantities, is enployed in the manufacture of white arsenic and of real-gar.-7. Axotomous Arsenical Pyrites; a species differing from the proceding in que inclination of the lateral faces, which, in the present case, mcet under angles of $122^{\circ} 26^{\prime}$ and $57^{\circ} 34^{\prime}$, and in specific gravity, which in this species is 7.228 . It has not yet been analyzed, but is believed to consist wholly of iron and arsenic. It has been found in beds, in primitive mountains, in Carinthia, Silesia and Stiria. -8. Iron Pyrites is the most universally distributed of all the ores of iron, and, from its yellow color and metallic aspect, is the substance which is so frequently mistaken, by ignorant people, for gold. It is not unconmon to find it regularly crystallized, though the dimensions of the crystals are rarely such as to render them very conspicıous. The prevailing figure among its crystals is the cube, parallel to whose faces they may be cleaved, as also parallel to the sides of the regular octahedron. The last is assumed as the primitive form of the species by most mineralogists, as leading to an explanation of the numerous secondary forms with the greatest simplicity. The most frequent of these secondaries are the cubo-octahedron, the pentago-nal-dodecahedron, and the icositetrahedron. The surfaces of the crystals are sometimes smooth, and sometimes alternately streaked. Fracture, conchoidal, uneven ; lustre, metallic ; color, passing through a few shades of a characteristic hronzc yellow; streak, brownish-black; brittle; hardness, such as to be impressed with the knifc, and scratched by feldspar; specific gravity, 4.98. The crystals are liable to be inuch grouped, often penetratiug each other so as to form globular maises. It occurs, also, in granular, columnar and impalpable masses; and often cellular, in conscquence of forming upon crystals of galena, which have subsequently become decomposed. Iron pyrites consists of iron 45.74, and sulphur
54.26. In the exterior flame of the blowpipe, it becomes red upon charcoal, the sulplur is driven off, and oxide of iron remains. In heated nitric acid, it is partly soluble, and leaves a whitish residre. Some varietics are subject to decomposition, when exposed to the action of the atmosplierc. With regard to its geological relations, much diversity obtains; it co:sstitutes beds by itself of considerable magnitude, in gneiss, mica-slate, and primitive argillite, and is often an importaut ingredient of those beds which contain ores of lead, iron, copper, \&c. It is frequently mixed with coal seams and the beds of clay which accompany them. It is also met with, in considcrablc quantities, in veins, associated with blende, arsenical iron, galena and copper pyrites. It is found, likewise, with ores of silver, and is contained in many organic remains, both of vegetable and animal origin. Its localities are too numerous to admit of being noticed with particularity. Some of the most beautiful crystallizations which adorn mineralogical cabinets, are brought from the island of Elba, Picdmont, Saxony, Hartz, Norway and Cornwall. Vast deposits of iron pyritcs, intermingled, in some instances, with magnetic iron pyrites, are found in the U. States, among which nay be mentioned those in Vermont, at Strafford and Shrewsbury; in Massachusetts, at IIubbardston ; in Maryland, near Baltimore ; in Ohio, near Zanesville ; and the state of Tennessee. It also abounds in the gold region of the Southern States, and is wrought extensively in many places for the sakc of the gold mechanically mixed with it, from the presence of which it receives a golden-y ellow tinge. The uses of this species are as follows: it is roasted for extracting sulphur; after having been exposed to the oxidating influence of the atmosphere, it yields sulphate of iron, or copperas, and sulphuric acid; the remaining oxide of iron is used as a coarse pig. ment ; it is an important agent in several metallurgical operations, and was formerly considerably employed instead of flints in gun-locks, from whence the name pyrites was derived.-9. White Iron Pyrites differs from the preceding species in its crystalline characters, as well as in some other respects, though, in chemical constitution, the two appear to be perfectly identical. Its crystals are in the form of modified rhombic prisms, and of very flat crystals, having the appearance, at first sight, of dodecahedrons with triangular planes, but which, however, are macles, consisting of similar portions of five crystals. The pri-
mary form is a right rhombic prism, of about $106^{\circ}$ and $73^{\circ}$, parallel to the planes of which it yields to mechanical division. The faces of the crystals are deeply streaked, in a vertical direction. Lustre, metallic; color, pale bronze-yellow, inclining to gray; streak, grayish-black ; hardness, equal to that of feldspar ; specific gravity, 4.67. It occurs massive, and in various imitative shapes, in consequence of which, and the composition of its crystals, it has been distinguished into several varieties, as radiated pyrites, spear pyrites, cock's-comb pyrites, hepatic pyrites, and cellular pyrites. Before the blow-pipe, it behaves like common iron pyrites. Some of its varieties are peculiarly subject to decomposition. It is less frequently met with in nature than the preceding species, though very often found accompanying it. It occurs more frequently in rocks of the coal formation, and in strata of clay. It is not abundant in the U. States ; its principal localities are in France, Bohemia, and Hessia. It is useful for the manufacture of sulphur, sulphuric acid and copperas.-10. Magnetic Iron Pyrites is farely seen in well formed crystals. Count Bournon describes it as occurring in irregular six-sided prisms. In general, it is massive and foliated, or fine granular. Lustre, metallic; color, intermediate between bronze-yellow and copper-red; streak, dark grayish-black; subject to tarnish; slight action on the magnet; brittle; hardness, considerably inferior to that of common iron pyrites, or that of white iron pyrites ; specific gravity, 4.63. It consists of iron 62.77, and sulphur 37.23. It occurs in beds, along with other minerals, usually in primitive rocks. It exists plentifully at Bodenmais, in Bavaria, and several districts of Stiria. In the U. States, it occurs at Munroe in Conn., at Lane's mine, in quartz, along with blende, galena, tungsten, \&c. ; and in Vernont, at Strafford and Shrewsbury, along with iron pyrites. Its uses are the same as have been mentioned in connexion with the other species of iron pyrites. -11. Phosphate of Iron, or Vivianite, occurs crystallized, in the form of a right obliqueangled prism of $125^{\circ} 18^{\prime}$ and $54^{\circ} 42^{\prime}$, which is that of the primary crystal. The crystals are long and slender for the most part, though generally very small. They are attached to their gangue by one of their broad lateral planes, or occur in aggregated groups. Lustre, pearly, approaching to metallic on certain faces ; on others, vitreous ; color, pale blackish-green, sometimes approaching indigo-blue ; streak,
bluish-white; the powder produced by crushing the mineral in a dry state, is liver-brown ; translucent, and rarely transparent; sectile; thin laminæ are flexible; specific gravity, 2.66. It also occurs massive, in small, reniform and globular shapes, and imbedded nodules; also in superficial coatings of dusty particles. The earthy varieties are dull, opaque, meagre to the touch, and light. Their color, on first exposure to the light, is grayish, yellowish, or greenish-white, or some pale tinge of blue; but it soon passes to a dark indigo-blue. In two varieties of vivianite (a friable one analyzed by Klaproth, and a crystallized one from Bodenmais in Bavaria, by Vogel), the following chemical composition was discovered :

Protoxide of iron, . . 47.50 . . 41.00
Phosphoric acid, . . . . 32.00 . . 26.40
Water, . . . . . . . . . . 20.00 . . 31.00 It decrepitates before the blow-pipe, but melts, if first reduced to powder, into a dark-brown or black scoria, which moves the magnetic needle. It is soluble in dilute sulphuric and nitric acids. It occurs in a variety of geological situations. The crystals are found in copper and tin veins, and sometimes in greywacke accompanying native gold; also in basalt and trap rocks. The earthy and massive varieties are imbedded in clay, and often accompany bog iron ore. The crystalline varieties come from Cornwall and Bavaria; the foliated and earthy varieties abound (especially the former) in the U. States, in Monmouth county, New Jersey. It is confined to argillaceous and ferruginous deposits, and is sometimes found in connexion with bones, and very usually filling up the casts of belemnites and other fossils. The earthy vivianite is sometimes employed as a pigment.-12. Arseniate of iron occurs in small cubic crystals, which are either unmodified, or have their alternate angles or their edges truncated. Lustre, adamantine, not very distinct ; color, olive-green, passing into yellowishbrown, bordering sometimes upon hya-cintll-red and blackish-brown, also into grass-green and emerald-green ; streak, similar to the colors; translucent on the edges; rather sectile; scratched by fluor; specific gravity, 3.00. According to two analyses, it consists of

Oxide of iron, . . . . 45.50 . . 48.00
Arsenic, . . . . . . . . . 31.00 . . 18.00
Oxide of copper, . . . . 9.00 . . 0.00
Silica, . . . . . . . . . . 4.00 . . 0.00
Carbonate of lime, . . . 0.00 . . 2.00
Water, . . . . . . . . . 10.50 . . 32.00
Exposed to a gentle heat, its color is
changed into red. In a higher degree of temperature, it intumesces, gives little or no arsenic, and leaves a red powdcr. Upon charcoal, it enits copious funes of arsenic, and melts, in the inner flame, into a metallic scoria, which acts upon the magnetic needle. It principally occurs in veins of copper ores, traversing the older rocks, and its clief localities are Cornwall and Saxouy.-13. Carbonate of Iron, or Spathic Iron Ore, occurs crystalline and massive. Its crystals are acute rhomboids, sometimes perfect, or only having the terminal angles replaced, six-sided prisms, and lenticular crystals. They are very easily cleavable, yieldiing obtuse rhomboids of $107^{\circ}$ and $73^{\circ}$. Lustre, vitreous, inclining to pearly; color, various shades of yellowish-gray, passing into ash and greenish-gray, also into several kinds of yellow, white and red; streak, white; translucent in different degrees; brittle; hardness, nearly identical with that of fluor ; spccific gravity, 3.829. It occurs massive, in broad, foliated and gramular masses; also in fibrous botryoidal sliapes, whence it has received the name of spherosiderite. Two varieties of this species, 1. the spherosiderite, and 2. a cleavable variety from Newdorf in the Hartz, have yielded to Klaproth, (1.) (2.)

Protoxide of iron, . . . 63.75 . . 57.50
Carbonic acid, . . . . . 34.00 . . 36.00
Oxide of manganese, . . 0.75 . . 3.30
Lime, . . . . . . . . . . 0.00 . . 1.25
M̄agnesia, . . . . . . . 0.52 . . 0.00
Before the blow-pipe, it becomes black, and acts upon the magnetic needle, but does not melt. It colors glass of borax green. It is soluble with difficulty in nitric acid, particularly if not reduced to powder. On being exposed to the air, it is gradually decomposed : first the color of the surface becomes brown or black; afterwards, also, the streak is changed into red or brown; hardness and specific gravity are diminished; and even the chemical constitution is altered, the whole being converted into hydrate of iron. It frequently occurs, along with carbonate of lime, in veins and beds, in primitive rocks; also in metalliferous veins, accompanied by galena, gray copper ore, and iron and copper pyrites. Immense beds of it exist in Stiria and Carinthia, as well as in France, Switzerland, and Siberia. In the U. States, we have a powerful vein of it at New Milford in Conn., crossing, with the breadth of six feet, an entire mountain; and in Vermont, at Plymouth, an apparently rich deposit of this ore has, within a few years, been opened. In France,

Stiria and Carinthia, large quantities of cast and wrought iron are obtained from the sparry iron ore, but particularly steel, for the production of whicl it is highly valuable.-14. Oxalate of Iron, or Humboldtine is an ore of iron found near Berlin, in Bohemia, in a moor-coal, or friable lignite. It consists of protoxide of iron 53.56 , and oxalic acid 46.14. It is supposed to owe its origin to the decomposition of succulent plants. It occurs in small flattish masses, of a light yellow color; is soft, yiclding to the nail, and of the specific gravity of 1.3. By rubbing, it acquires resinous electricity. It decomposes easily on live coals, giving out a vegetable odor. It is insoluble in boiling water and alcohol.-15. Sulphate of Iron, or Copperas. This salt is not frequently found in nature, in distinct crystals, but usually occurs in stalactitic, hotryoidal and reniform masses, and occasionally pulverulent. The crystals are in the form of right oblique-angled prisms, considerably modificd by replacements ; fracture, conchoidal; lustre, vitreous; color, several shades of green passing into white; streak, white; semitransparent and translucent ; brittle ; hardness, that of gypsum ; specific gravity, 1.83 ; taste, sweetish-astringent and metallic. It consists of
Oxide of iron, . . . . . . . . . . . . 25.7
Sulphuric acid, . . . . . . . . . . . 28.9
Water, . . . . . . . . . . . . . . . . 45.4 It is easily soluble in water, and the solution becomes black on being mixed with tincture of galls。 If exposed to the open air, it soon becomes covered with a yellow powder, which is persulphate of iron. Before the blow-pipe, it becomes magnetic, and colors glass of borax green. In most instances, it is produced by the decomposition of other minerals, particularly of iron pyrites and magnetic iron pyrites; and the crystallized varieties are rarely found, except in those places where artificial heaps of these substances have been formed. It is also found incrusting slate rocks, and dissolved in the waters of certain mines. In the U. States, it is often observed, especially in New England, upon the surface of mica-slate rocks, in thin coatings, and is sometimes made use of for dyeing, without being redissolved and crystallized.

Treatment of the Ores.-Of the 15 species of iron ore just described, but four are employed for obtaining metallic iron and steel, viz., magnetic iron ore, specular iron ore, brown iron ore, and carbonate of iron. The metallurgical details belonging to the treatment of these ores,
cannot be described within the limits of the present work. We slaall therefore mercly give some general notions of the processes to which they are subjected for obtaining the metal in question. After raising, the ores are pieked, to separatc, as far as possible, the considerable pieces of earthy or otherwise refractory matters with which they may be associated. They are next submitted to a roasting, in large heaps, in the open air, to expel the sulphur and arsenic which they may contain, as well as to render them more friable and easy of further reduction to powder. The roasting is performed, in England, generally by bituminous coal, which is, at the same time, converted into coke; but the ores of the continent of Europe and of the U. States are roasted by charcoal and wood fires. Large trunks of trees are laid at the bottom, upon which brushwood and charcoal are thrown and ignited, over which the ore is heaped to the height of several feet, occasionally with alternating layers of charcoal. The result of the operation is, that the ore becomes full of fissures, friable, and loses altogether its vitreous lustre. It is now transferred to the crushing-mill, where it undergoes a further pulverization, after which it is transported to the smelting furnace, to be converted into iron. Here it passes through two distinct operations1. the reduction of the oxide to the metallic state ; 2. the separation of the carthy matters in the form of scoria. These processes consist in exposing the ore, ordinarily mixed with certain fluxes, to the action of carbon, at an clevated temperature, in furnaces urged by bellows, hence called blast-furnaces, or sometines high furnaces. These furnaces vary in height from 12 to 60 feet, and have, externally, the shape of a four-sided pyramid, truncated at top, and terminating in a cylindrical chimney, whose internal diameter is from four to six feet. The interior body of these furnaces is usually in the circular form, except the laboratory at its bottom, where the hiquid metal gathers. 'This, called sometimes the crucible, or hearth, is a right-reetangular prism, oblong in the direction perpendicular to the blast orificcs, or tuycres of the bellows. The sides of the crucible are commonly made of a fine gritstone, composed of quartzose grains, whieh, in the U. States, is a micaslate, or gnciss rock, in which quartz is the chief ingredient. Above the crucible the boslies are placed, in the form of an inverted quadrangular pyramid, approaching to the prismatie slape; and above
these stone boshes rises the conical belly of the furnace, lined with fire-bricks, contracting as it ascends, like the narrow end of an egg, until it terminates in the chimney. The eutire furuace is built in a very solid manner, and strengthened by bands and cross bars of iron. The bellows are usually cylindrical, and their pistons worked either by water or a steamengine. The blast-loles, which are situated in the upper part of the crucible, are two in number, and frequently placed on oppositc sides, but so angled that the currents of air do not impinge on each other. At the lower part of the crucible are openings for the discharge of the metal and scoria. These openings are kept stopped by accumulations of clay and sand upon the exterior when the furnace is in operation. The process of reduction commences by first gradually heating up the furnace, until it will bear to be fillcd entirely with fuel, after which, as the contents of the furnace begin to sink, alternate charges of ore mingled with flux, and of charcoat or coke, are addled; the blast is let on, and the metal in the ore, parting with its oxygen, flows by degrees, and subsides to the bottom of the crucible covered with a melted slag. The slag is occasionally allowed to flow off by removing the clay from some oue of the apertures in the crucible; and when the bottom of the furnace becomes filled with the metal, which it ordinarily does, after a space of 9 or 12 hours, the iron itsclf is discharged, by one of these openings, into a fosse of sand mingled with clay. As soon as the iron has flowed out the aperture is closed again; and thus the furnace is kept in incessant activity during the first six montlis in the ycar, the other six months being usually employed in repairing the furnaces, making charcoal, and collecting the requisite provision of wood and ore. The flux employed to assist the fusion of the ore, by vitrifying the earths associated in it with the oxide of iron, is limestone of the best quality. The iron whiclı has run out from the blast furnace is in the condition of cast iron, or iron with a considerable portion of carbonaceous matter intermingled with its particles, and a small proportion of oxygen, from which causes it has a coarse grain, and is brittle. In converting it into bar iron, it undergoes one or the otler of the following processes, ordinarily according as charcoal or coke is employed. In the former case, a firnace is madc usc of resembling a smith's hearth, with a sloping cavity sunk from 10 to 12 inches below
the blast-pipe. This cavity is filled with charcoal and scoria, and on the side opposite to the blast-pipe is laid a pig of cast iron, well covered with hot fuel. The blast is then let in, and the pig of iron, being placed in the very focus of the heat, soon begins to melt, and, as it liquefies, runs down into the eavity below. Here, being out of the direct influence of the blast, it becomes solid, and is then taken out and replaced in its former position, the cavity heing again filled with eharcoal. It is thus fused a second time, and after that a third time, the whole of these three processes being usually effected in between three and four hours. As soon as the irou has become solid, it is takeu out and very slightly haminered, to free it from the adhering scoria. It is then returned to the furnace, and is placed in a corner, out of the way of the blast, and well covered with charcoal, where it remains till, by further gradual cooling, it becomes sufficiently compact to bear the tilt, or trip-hammer, whose weight varies from 600 to 1200 pounds, and which is moved by water. Here it is well beaten till the seoria are forced out, and is then divided into several pieces, whieh, by a repetition of heating and hammering, are drawn into bars, and in this state it is ready for sale. The proportion of pig iron or east iron from a given quantity of ore is subject to considerable variation from a difference in the metallic contents of different parcels of ore, and other circumstances ; but the amount of bar iron that a given weight of pig iron is expeeted to yield, is regulated very strietly, the workmen being expected to furnish four parts of the former for five of the latter, so that the loss does not exceed 20 per cent. The other process for the manufaeture of bar iron, and which is the one ehiefly employed in England, is executed in part in reverberatory furnaces, known by the name of puddling furnaces. The operation commences with melting down the east iron in refinery furnaces, like the one above described. When the cast iron is fully melted, a tap-hole is opened in the crucible, and the fine metal flows out, along with the slag, into a fosse bedewed with water mixed with clay, which forms a coating, to prevent the metal from sticking to the ground. The finer metal forms a plate 10 feet long by 3 feet broad, and from two inches to two and a half thick. A great quantity of cold water is sprinkled on it, in order to make it brittle, and also to oxidize it slightly. The loss of
weight, in the iron, by this operation, is from 12 to 17 per cent. It is broken to pieces, and laid on the hearth of a reverberatory furnace, in suceessive portions, being heaped up towards its sides in piles which mount near to the roof. The middle space is left open, to give room for pudding the metal as it flows down in suecessive streams. When the whole is reduced, by the heat of the furnace, to a pasty state, the temperature is lowered, and a little water is sometimes thrown on the melted mass. The workman stirs about the semi-liquid metal with his puddle, during which it swells up, emits a considerable quautity of oxide of carbon, which burns with a blue flame, so that the mass appears to be on fire. The metal, as it refines, beeomes less fusible, or, in the language of the workmen, it begins to dry. The puddling is continued till the whole charge is reduced to the state of an ineoherent sand; then the temperature is gradually increased, so as to impart a red-white lieat, when the particles begin to agglutinate, and the charge works heavy. The refining is now firiished, and nothing remains, but to form the metal into balls, and condense it under the rolling cylinders, an operation formerly, and still sometimes performed under trip-hammers, but with much less expedition. When the lump of iron has passed five or six times through the grooved rollers, it assumes an elliptic figure, and is called a bloom. Loose fragments of the ball, with the slag, fall down about the cylinder. The metal thus roughed down is called mill bar iron. It is subjected to a second operation, which consists in welding several pieces together , whence it derives the valuable properties of duetility, uniformity and cohesion. After welding laterally four pieces together, the mass is run through between a series of cylinders, as at first, and becounes English bar iron. Iron, for laminating into sheets, is treated in the refinery furnace with a chareoal, instead of a coke fire. The objects of these operations, as respects the treatinent of cast iron, to convert it into tough iron, it is obvious, are to get rid of the slag, the oxygen, and the carbon, it contains. The first of these is separated, in part, by the long-continued fusion and the repose of the inelted inetal, in consequence of which the slag, being lighter than the bath, floats on its surface; but its more effectual removal is produced by the compression, in whiel1 process the earthy glasses are forced through the pores of the bloom. or lump, as water
exudes from a sponge. Among the diffierent varieties of east iron, there are some which contain exactly the proportion of oxygen and carbon proper to form a gaseons combination. For the refinery of these, an elevated temperature, without acecss of air, is all that is necessary. These elements, reäcting upon one another, are dissipated in the aërial state ; but there are likewise other varieties of cast iron, in which the carbon is in excess. In this case, the free access of atmospherical air is requisite. In order to understand how the carbon is abstracted from the interior of a mass of the liquefied metal by the oxygen of the atmosphere, which can ouly be in contact with the surface of the iron, we have nerely to reflect upon the reverse process in the manufucture of steel, which consists in the propagation of carbon into iron. At first, an outer coat of iron, by being surrounded with chareoal powder; gets partially saturated with carbon. If, by pushing the cementing process, we wish to arrive at the complete saturation of that coat, we can succeed only by making a previous partition. The layer immediately bes:eath the first carries off from it a portion of its carbon ; and it is not till itself is partly saturated, that it suffers the outer coat to absorb its maximum dose of carbon, when it remains stationary; but an effect quite similar takes place with the second coat in reference to the third; that is, the one immediately within or bencath it. To apply these ideas to the refinery processes, the decarburation of the cast iron is merely a restoration of the carbon to the surface, in tracing inversely the same progressive steps as had carried it into the interior during the smelting of the ore. Thus the oxygen of the air, fixing itself at first at the surface of the cast metal on the carbon which it finds there, burns it. Fresh chareoal, issning from the interior, comes then to occupy the place of what hail been dissipated, till, finally, the whole carbon is transferred from the centre to the surface, and is then converted into either carbonic acid gas, or oxide of car-hon-an alternative which may fairly be allowed, since no direct experiment has hitherto proved what is the precise product of this combustion. Malleable iron is frequsently obtained directly from the ores by one fusion, when the metallic oxicle is not too much contaminated with foreign substances. This mode of working, which is allowed to be vastly more nconomical than the one just deseribed, Woth oul account of the saving of time
voi.. vir.
and combustioles, has, for a long period, been employed in Catalonia, in the Pyrenecs, from which circumstance it is called the miethod of the Catalan forge. Those ores best adapted to its treatment, are the pure black oxide, red and brown oxide, and carbonate of iron, to extract the metal from whiel, it is sufficient to exposic them to a high temperature in contact with charcoal, or carbonaceous gases. The furnace employed is similar to the refiner's forge above described. The crucible is a kind of semicircular or oblong basin, 18 inches in diameter, and 8 or 10 in depth, excavated in an area, or suall elevation of masomy, 8 or 10 feet long, by 5 or 6 broad, and covered in with a chimney. The tuyere stands five or six inches above the basiu, and has a little inelination downwards, and the blast is given by a water-blowing machine. The first step consists in expelling the water combined with the oxide, as well as the sulphur and arsenic, when these contaminations are present. This is done, as usual, by roasting in the open air. The roasted ore is erushed to a tolerably fine powder, and thrown by the shovel-full, at intervals, upon the clazcoal fire of the forge hearth, the sides and bottom of the basin being previously lined with two or three brasques (eoats of pounded charcoal). It gradually softens and mites into lumps inore or less colterent, which finally melt and aceumulate in the bottom of the erncible or basin. $\Lambda$ thin slag is oceasionally let off from the upper surface of the inclted iron in the basin, by means of holes which are opened and closed according to the discretion of the worknen. The melted iron preserves a pasty condition, owing to the heat communicated from above; and when a mass of sufficient dimensions las accumulated, it is removed, put mider the hammer, and forged at once. A lump or bloom of malleable iron is thus produced in the space of three or four hours. The iron is generally soft, very malleable, and little stecly. Four workmen are euployed at one forge ; and, by being relieved every six homrs, they are enabled to make 86 cwt. of iron per week. In the Catalonian forges, 100 pounds of iron are obtained from 300 pounds of ore (a mixture of sparry iron, or carbonate, and hematite) and 31C poninds of charcoal, being a produce of 33 per cent. The foregoing methorl of obtaining har iron is in general use in all the southern countries of Enrope, and is beginning to be practised extensively in the U. States, for the ores
of which, especially the magnetic iron, and hematite and spathic iron ore, it is remarkably well suited. As yet, however, our spathic iron ore has bcen wholly neglected. (For an account of the production of that modification of iron called steel, see the artiele under that head.)-Respecting the statisties of iron, we have but few general details which are worthy of confidcuce. In 1827, the furnaces of England and Scotland produced 690,000 tons. These furnaces amounted to 284 , of which 9.5 were in Staffordshire, and 90 in South Wales. In 1828, the total production of France in this metal was estimated at 176,000 tons; and in the same yeur, the exports of Sweden amounted to 35,212 tons, of which 9409 tons were importcd into the U. Statcs. Russia, including Siberia and Norway, may be supposed to yield a quantity equal to France; while the annual product of all the other countrics of Europe together, probably but little exceeds that of Britain. The whole amount yielded by the U. States cannot be estimated beyond 50,000 tons.
Pure Iron. Its specific gravity is 7.7, but it may be made 7.8 by hammering. The specific gravity of cast iron is 7.281 ; that of steel, 7.795. Under the article Cohesion, the tenacity of iron, conipared with that of some of the other metals, is given. In malleability, it is much inferior to gold, *ilver and copper; but in ductility, it approaches thesc inctals, iron wires of $\frac{1}{5} \sigma$ of an inch being frequently drawn. It melts in the extreme heat of ehemical furnaces, which equals $158^{\circ}$ Wedgewood. We have noticed, under the hicad of Native Iron, the crystalline texturc of this metal, as found in nature. A mass of bar iron, which has undergone all the operations of puddling and rolling, after being left in liquid muriatic acid till saturation, presents the appcarance of a bundle of fasces, whose fibres run parallel through its whole length. At the two ends of the mass, the points appear porfectly detached from each other, and the fibres are so distinct as to seem to the eye to be but looscly compracted. Iron by friction acquires a peculiar smell, and it possesses thic color distinctively called iron-gray. Bars of it, kcpt in a vertical position, or at an anglc of $70^{\circ}$ to the horizon, become magnetic spontaneously. They may also be magnetized by pcrcussion, or an elcctric shock, eitlier from a common machine or a thunder cloud. The magnetic effect is rendered most powerful, in a bar of iron, by allowing galvanic electricity to circu-
late in circles round it, after being bent into the sllape of a horse slioe. A bar, weighing 21 pounds, has, in this manuer, been made to support a weight of 750 pounds; and the galvanic battery employed consisted mercly of two conecutric copper cylinders, with a third, of zine, between them, whiels were immersed in half a pint of dilute acid. The magnetism of soft iron, however, is not permanent, like that of stccl. Iron burns with the greatest facility, as may bc seen in the shops of the smiths, where, on withdrawing a bar of iron from the fire, at a white heat, it emits brilliant sparks in every direetion. It is also visible by projecting iron filings upon a lighted candlo or a common fire. Its combustion in these cases is the result of its combination with the oxygen of the atmospherc. When it is heated and introduecd into a vessel of pure oxygen gas, its combustion is vastly more rapid, and the scintillation which it oceasions is extremely brilliaut. There arc only two non-metallie conibustibles, hydrogen and nitrogen, which have not hitherto been combined with iron. Carbon, boron, phosphorus, sulphur and selcnium, form with it compounds more or less intimate. The same thing holds of' most of the metals. When cold, it is without action on pure water, but decomposes it rapidly when heated to the degrec of incandescence. The rusting of iron in a damp atmosphere has been ascribed to the joint agency of carbonic acid and water.
Compounds of Iron. Iron unites with oxygen to form three, and, possibly, four oxides. The first oxide is obtaincd cither by digesting an excess of iron filings in water, by the combustion of iron wirc in oxygen, or by adding pure ammonia to a solution of green copperas, and drying the precipitate out of contaet of air. It is of a black color, becoming white by its union with water in the hydrate, attractable by the magnct, but more feebly than iron. Its composition is,

$$
\begin{aligned}
& \text { Iron, .... } 100.0 \ldots .{ }^{7} 77.82 \ldots . .3 .5 \\
& \text { Oxygen,. } 28.5 \ldots .^{22.18} \ldots . .1 .0
\end{aligned}
$$

The second or deutoxide of iron is formed by exposing a coil of finc iron wire, in an ignited porcelain tule, to a current of steam, as loug as any hydrogen comes over. Its composition is,

Iron, . . . . . . 100. . . . . . . 72.72
Oxygen, . . . . 37.5 . . . . . . . $27.28^{\circ}$
The forrth oxide is obtaiued by igniting the nitrate, or carbonate of iron, ly calcining iron in open vessels, or simply ly treating the metal with strong nitric acid,
then washing and drying the residuum. Coleothar of vitriol, or thoroughly calcined copperas may be considered as peroxide of iron. This oxide exists abundantly in nature, as may be seen by referring to the preceding account of the Ores of Iron. It is a compound of iron, 100 , and oxygen, 43. The third oxide has not been satisfactorily established. If the experiments upon its nature are corrcet, its relation to the others may be perceived in the following statement of M. Berthier, in which the quantities of oxygen combined with the same quantity of metal, in the four oxides, are to cach other as the numhers $6,7,8,9$. There are two chlorides of iron ; the first consisting of iron 46.57, and chlorine 53.43 ; the second of iron 35.1, and chloride 64.9. The proto-chloride is a fixed, the deutochloride, a volatile substauce. Iodine forms with iron a compound of a light green color, soluble in watcr. There are two sulphurets of iron. The proto-sulphuret is formed by heating equal weights of iron filings and sulphur in a crucible or iron vessel, to incandescence. It is of a dark gray color, brittle, fecbly magnetic. Its composition is iron 28, sulphur 16. It abounds in nature. (See Magnctic Iron Pyrites, among the Ores of Iron.) The artificial sulphuret varies in composition from the execss of one or the other of its ingredients. It is employed in cudiometry, and is used for the production of sulphureted hydrogen gas, which it cvolves copiously on the addition of diluted muriatic or sulphuric acid. The persulphuret of iron is the common iron pyrites found so abundantly in naturc. It is composed of irou 28, and sulphur 32. There is also a phosphuret of iron, formed by calcining four parts of phosphate of iron, and one of lampblack, in a covered crucible. It does not act on the magnetie ncedle; remains unehanged in the air ; is not affeeted by nitric acid, except it be strong and hot; and is decomposable by charcoal.

Carburets of Iron. Carbon unites with iron to form steel, cast iron, and graphite, or plumbago. The proportions of carbon corrcsponding to different carburets of iron, aecording to Mr. Musket, are as follow:

[^2]Graphite contains about 10 per cent. of iron. It was remarked above, that the magnetism of pure iron is transient. When it is combined with oxygen, carbon, or sulphur, however, it acquires thr magnet's coërcive virtue, which attains a maximum of force with certain proportions of the constituents, hitherto unrlitermined. Of the alloys which iron unites with other metals to form, tin plate is the most useful. The surface of the iron plates is cleaned, first by stecping in a crude bran-vinegar, and then in dilute sulphuric acid, after which they are scoured bright with hemp and sand, and deposited in pure water to prevent oxidation. Into a pot, containing equal parts of grain and block-tin, in a state of fusion, covered with tallow, the iron plates are immersed in a vertical position, having been previously kept for about an hour in melted tallow. From 300 to 400 plates are tinned at a time. Each parcel requires an hour and a half for the mutual incorporation of the metals. After lifting out the tinned plates, the strix are removed from their surfaces and under edges by subscquent immersion in melted tin, and then in melted tallow, wiping the surfaces at the same time with a hempen brush. Alloys of steel with platinum, rhodium, gold and nickel, may be obtained when the heat is sufficiently high. The alloy with platinum fuses when in contact with steel, at a heat at which the steel itself is not affected. But the most curious circumstances attend the alloy of silver. If steel and silver be kept in fusion together for a length of time, an alloy is obtained which appears to be very perfect, while the metals are in the fluid state, but, on solidifying and cooling, globules of pure silver are expressed from the mass, and appear on the surface of the button. If an alloy of this kind be forged into a bar, and then dissected by the action of dilute sulphuric acid, the silver appears, not in combination with the steel, but in threads throughout the mass, so that the whole has the appearance of a bundle of fibres of silver and stcel, as if they had been united by welding. The appearance of these silver fibres is very beautiful. They are sometimes one eighth of an inch in length, and suggested the idea of giving mechanical toughness to stecl, where a very perfect edge may not be required. When 1 of silver and 500 steel are properly fused together, a very perfect alloy is produced, which, when forged, and dissected by an acid, exhibits no fibres, cren when view-
ed with a ligh magnifying power, though, by dissolving any portion of the mass in acid, and applying a delicate test, the silver is recognised as being every where present. This alloy proves decidedly superior to the very best stecl, and its excellence is unquestionably due to the presence of the silver. Various cutting instrumeuts, as razors, penkuives, surgical instruments, \&c., are now manufactured from it. It is known under the name of silvered steel. Equal parts, by weight, of platinum and steel, form a beautiful alloy, which takes a fine polish, and does not tarnish. The color is the finest imaginable for a mirror. The specific gravity of the compound is 9.862 . The proportions of platinum that appeur to improve steel for edge instruments are from one to three per cent. The alloys of steel with rhodium would prove highly valuable, were it not for the searcity of the latter metal.

Salts of Iron. These are possessed of the following general properties: Most ot them are soluble in water; those with the protoxide for the base are generally crystallizable; those with peroxide, for the most part, are not so : the former are insoluble, the latter soluble in alcoliol. From solutions of these salts ferroprussiate of potash throws down a blue precipitate, or one becoming blue in the air; intusion of galls gives a dark bluc precipitate, or one becoming so in the air ; hydrosulphuret of potasis or ammonia gives a black precipitate; but sulphureted hydrogen merely deprives the solutions of iron of their yellow-brown color; succinate of ammonia gives a flesh-colored precipitate with salts of the peroxide. We shall notice these salts individually, in an alphabetical order. Protorcetate of iron forms small prismatic crystals, of a green color and a sweetish taste. Peracetate of iron forms a reddish brown uncrystallizable solution, much used by the calico printers, and is prepared by keeping iron tumings, or pieces of old iron, for six months, immersed in redistilled pyroligneous acid. Protarseniate of iron exists native in crystals (see Iron Ores), and may be formed in a pulverulent state, by pouring arseniate of ammonia into sulphate of iron. It is insoluble. Perarseniate of iron may be formed by pouriug arseniate of ammonia into peracetate of iron, or by boiling nitric acid on the protarseniate. It is insoluble. Intinoniate of iron is white, becoming yellow, iusoluble; borate, pale, yellow, zud insoluble ; benzoute, yellow and insoluble; protocarbonate, grecusth and soluble; percarbo-
nate, brown and insoluble; chromate, blackish and insoluble; protocitrate, lrown, crystals soluble ; protoferroprussiate, white, insolnble. The perferroprussiate is the beautiful pigment called Prussian blue. Wheu exposed to a heat of $400^{\circ}$ Fahr., it takes fire in the open air; but in close vessels, it is decomplosed, apparently, into carbureted lyydrogen, water, and lyydrocyanate of aimınonia, which come over, while a mixture of charcoal and oxide of iron remains in the state of a pulverulent pyrophorus, ready to become inflaned on contact with the air. Prussian blue is of an extremely deep blue color, insipid, inodorous, and considerably denser thail water. Ncither water nor alcohol have any action ou it. It is usually made by mixing together one part of the ferrocyanate of potish, one part of copperas, and four parts of alum, each previously dissolved in water. Prussian blue, mingled with more or less alumina, precipitates. It is afterwards drion on chalk stones in a stove. When sulphuric acid is added to Prussian blue, it inakes it perfectly white, apparently by abstracting its water; for the blue color returns on dilution of the acid; and if the strong acid be poured off, it yields no traces of either prissic acid or iron. Protogallate of iron is colorless and solnble; pergallate, purple and insoluble; protomuriate, green and crystallizable, very soluble; permuriate, brown, uncrystallizable, very soluble (see Chlorides of Iron, previously described); protonitrate, pale green, soluble ; pernitrate, brown, soluble ; protoxalate, in grcen prisms, soluble; peroxalate, yellow, scarcely soluble ; protophosphate, blue, insoluble; perphosphate, white, insoluble; protosuccinate, in brown crystals, soluble; persuccinate, brownish red, iusoluble. Protosulphate, or green vitriol, or copperas, is obtained by putting iron into an aqueous sulphurous acid, and letting them remain together for some time out of contact with the air. It is generally obtained, however, for the purposes of the arts, not perfectly free from the peroxide, by the following processes: Native iron pyrites is exposed to air and moisture, when the sulphur and iron both absorl oxygen, and form the salt; or metallic iron is added to sulphuric acid, when diluted, when the union takes place at once. Both methods are practised: the latter is more economical in point of time, and affords a purer salt, but the former is the one most generally adopted. The production of copperas from pyrites is conducted in the following manner: The ore
is broken down into pieces of a few inches in diametcr, and thrown into large beds, or heaps, of several feet in thickness, disposed on an inclined soil. Water is now let on to the heaps, in nioderate quantities, or they are left to dcrive moisture from rain. The vitriolization immediately commences, and is often attended with a considcrable degree of heat. Sometimes the whole mass kindles, which is a disadvantage, as it burns off the sulphur in sulphurcous acid vapor, instead of converting it gradually into sulphuric acid to form the sulphate desired. The process groes on well when the pyrites is seen cracking open and becoming covered with a whitish effloresccuce. This cfflorescence is continually dissolving, from time to time, by the effect of the rains, and the solution trickles down through the heaps, and flows off by gutters to a common reservoir, which is a leaden vessel, generally about 7 feet deep, 12 to 14 long, and 6 or 7 wide, where it is cvaporated for several clays. As an excess of sulphuric acid often exists in the liquor, a quantity of iron plates or tumings is frequently added for its saturation. From this reservoir it is run into a crystallizing vat, and there remaius for several wecks, at the end of which time the mother liquor is pumped back into the boiler, and the crystals, after draining, are removed from the frames of wood-work on which they have formed, and packed in hogsheads for sale. Instead of going directly from the boiler to the crystallizing pools, the liquor is sometimes allowed to stand 24 hours, in a vesscl intermediatc between these, for the deposition of a sediment of ochre which it contains. Copperas forms bcautiful green crystals, whose formis and other natural listorical characters, as well as composition, have been given under the Fron Ores in the commencement of this article. It is used in dycing and making ink, in the formation of Prussian blue, \&c. The persulphate of iron is formed by the simple exposure of copperas to the air, cspecially if in the state of solution, or by boiling the green sulphate with nitric acid. Its color is yellowish red; uncrystallizable; taste sharp and styptic. 'The tartrate and pertartrate of iron may also be formed; and, by digesting cream of tartar with water on iron filings, a triple salt is obtained, formerly called tartarized tincture of Mars.

Iron is one of the most valuable articles of the materia medica. The protoxide acts as a genial stimulant and tonic in all eases of chronic dcbility not connected.
with organic congestion or inflammation. It is peculiarly efficacious in chlorosis. The peroxide and its combinations are almost uniformly irritating, causing heartburn, febrilc heat and quickness of pulse. Many chalybeate waters contain an exceedingly ininute quantity of protocarbonate of iron, and yet exercise an astonishingly recruiting power over the exhausted frame. Their qualities may be imitated by dissolving 3 grains of sulphate of iron, and 61 of bicarbonate of potash, in a quart of cool water, with agitation, in a close vessel.

Iron Crown. A golden crown, set with precious stones, preserved at Monza, in Milan, with which anciently the kings of Italy, and afterwards the Roman emperors, were crowned, when they assumed the character of kings of Lombardy, has reccived the above name, from an iron circle, forged from a nail of the cross of Christ, and introduced into the interior of it. Napoleon, after his coronation (1805), established the order of the iron crown. When the emperor of Austria (1815) took possession of the estates in Italy, which fell to him under the name of the Lom-bardo-Venetian kingdom, he admitted the order of the iron crown among the orders of the house of Austria.

Iron Mask. (Sce Mask.)
Iron-Wood. This name is given, in some parts of the U. States, to the ostrya virginica-a small trec, having the foliage of a bireh, and the fruit somewhat resembling that of the hop. It is found scattered over the whole of the U. States, cven as far westward as the base of the Rocky mountains, and is remarkable for the hardness and heavincss of the wood, which, however, has not hithorto been applicd to any very important uses, partly on account of its small size. The trunk usually does not cxceed six inches in diameter; but the excellent qualities of the wood may, at some future day, be better appreciated. The term hop-hornbcam, derived from the form of the fruit, is frequently applied to the species of ostrya.

Irony; a term invented by the re-
 By irony, we mnderstand, in common lifc, that morc refined species of ridicule, which, under the mask of honest simplicity, or of ignorance, cxposes the faults and crrors of assuming folly, by seeming to adopt or defend them. It neither presupposes a bad heart nor a malicious purpose, and is consistent with so much kindness and truc urbanity, that even the object of ridicule may bc forced to join in
the laugh, or be disposed to profit by the lcsson. One mode of irony is, when a person pretends to hold the false opinion or maxim as true, while, by stronger and stronger illustration, he so contrasts it with the true, that it must inevitally appear absurd. Another mode is, when he assumes the mask of innocent naiveté, and excites ridicule by the unreserveduess of his professions. But humor, concealed under seriousness of appearance, is the foundation of both. On the use and treatment of irony, in comic and satirieal poetry, Jean Paul has given the best directions, in his Vorschule der . Desthetik. (For the Socratic irony, see Socrates.) There is a certain sort of malieious irony (persiflaeg), the object of which is merely to ridicule, without the desire of corrcction.
Iroquors; the name given by the French to the confederacy of North American Indians, called, by the Englisl, the Five, and, afterwards, the Six Nations. The Mohawks, Oneidas, Onondagas, Cayngas, Senceas and Tuscaroras were the members of this confederacy. They formerly resided on the Mohawk river and the lakes which still bear their names, and extended their conquests to the Mississippi, and beyond the St. Lawrence. Their valor and snccesses have procured them the name of the Romans of America. Their territory abounded with lakes well stored with fish; their forests were filled with qume, and they had the advantage of a fertile soil. The saehems owed their authority to publie opinion : the general affairs of the confederacy were managed by a great council, composed of the chief, which assembled annually at Onondaga. They exterminated the Eries, drove out the Hurons and Ottawas, subdued the llinois, Miamies, Algonquins, Lenni Lennapes, Shawanese, and the terror of their arms extended over a great part of Canada and the northern and north-eastern parts of the U. States. In the long wars between the English and French, which continued with some interruptions, for nearly a century, until 1763, they were generally in the English intercst ; and, in the revolutionary war, they were also mostly in favor of the British. Their numbers have much diminished. Some of the tribes are extinct; some have made considerable advances in civilization, while others lave fillen into a state of squalid misery. Some of the nations remained in New York; others removed to Canada. The number in New York, in 1818, was 4575 , including the Moheakuanuk or Ncw Stockbridge,
the Molicans and Narragansetts, who had been adopted into the confederacy. They owned $20 \overline{5}, 315$ acres of land. (See Colden's History of the Five Nations ; Morse's Report on Indian Affairs, New Haven, 1822; Indians, and Indian Languages.)
Rrational Quantities are those whieh caunot be measured by unity or parts of unity; for examplc, the square root of $2,1,4124 \ldots$ whicl, by continued approximation, can be obtained more and more exactly, without end, in parts of unity, but can never be exactly determined. The rclation of two quantities is also called irrational, when one cannot be exaetly measured by the whole and parts of the other. The circumference and diameter of a eircle stand in suelı an irrational relation to each other, because we can only find by approximation, how many times the latter is contained in the former.

Irrawaddy, or Irawaddy; a large river of Asia, in the Chincse and Birman einpires. Crawfurd (Embassy to Ava, London, 1829) thinks it has its source in the provinces of Lao and Yunan. According to Wilcox, it is 80 yards broad in lat. $27^{\circ} 30^{\prime}$, where he visited it, and he was informed by the natives that he was 50 miles from its source. It falls, by 14 mouths, into the bay of Bengal, after having divided into two principal branches, in Pegu, lat. $17^{\circ} 45^{\prime}$. The inost easterly branch passes by Rangoon ; the most westerly, by Bassien or Persaim. According to Crawfurd, it is navigable for boats to Bhamo, about 300 miles above Ava. The interinediate space between the eastern and western branches forms a Delta, covered with trees and long grass, and imhabited chiefly by buffaloes, deer and tigers. In lat. $21^{\circ} 45^{\prime}$, it receives the Keeu-Dwem, a considerable river, from the nortl1-west.
Irritability (irritabilitas; from irrito, to provoke;-vis insita of Haller; vis vitalis of Gorter; oscillation of Boerhaave; tonic power of Stahl; muscular power of Bell; inherent power of Cullen); the contractility of muscular fibres, or a property peculiar to muscles, by which they contract, upon the application of certain stimuli, without a conscionsness of action. This power may be seen in the tremulons contraction of muscles when lacerated, or when entirely separated from the borly in operations. Even when the borly is dead, to all appearance, and the nervous power is gone, this contractilc power remains till the organization yields, and begins to be dissolved. It is by this inlierent power
that a cut musele coutracts, and leaves a gap, that a cut artery shrinks, and grows stiff after death. This irritability of muscles is so far independent of nerves, and so little connected with feeling, which is the province of the nerves, that, upon stimulating any muscle by touching it with caustic, or inritating it with a sharp point, or driving the electric spark through it, or exciting with the metallic conductors, as those of silver or zinc, the muscle instantly contracts, although the nerve of that muscle be tied; although the nerve be eut so as to separate the muscle entirely from all connexion with the system; although the muscle be separated from the body; although the creature, upon whiel the experiment is performed, may have lost all sense of feeling and liave been long apparently dead. 'Thus a muscle, cut from the limb, trembles and palpitates a long time after; the heart, separated from the body, contracts when irritated; the bowels, when tom from the body, continue their peristaltic motion, so as to roll upon the table, ceasing to answer to stimuli only when they become stiff and cold. Even in vegetables, as in the sensitive plant, this contractile power lives. Thence comes the distinction between the irritability of muscles and the sensibility of nerves; for the irritability of muscles survives the animals, as when it is active after death; survives the life of the part, or the feelings of the whole system, as in universal palsy, where the vital motions continue entire and perfect, and where the muscles, though not obedient to the will, are subject to irregular and violent actions; and it survives the connexion with the rest of the system, as when animals very tenacious of life, are cut into parts; but sensibility, the property of the nerves, gives the various modifications of sense, is vision, hearing, and the rest ; gives also the general sense of pleasure or pain, and makes the system, according to its various conditions, feel vigorous and licalthy, or weary and low. The eye feels and the wkin feels; but their appointed stimuli produce no motions in these parts: they are sensible, but not iritablc. The heart, the intestines, the urinary bladder, and all the muscles of voluntary motion, answer to stimuli with a quick and forcible contraction; and yet they hardly feel the stimuli by which these contractions are produced, or, at least, they do not convey that feeling to the brain. There is no consciousuess of present stimulus in those parts which are called into action by the impulse of the nerves, and at the cominand of the will; so
that muscular parts have all the irritability of the system, with but little feeling, and that little owing to the nerves which enter into their substance; while norves liave all tho scusibility of the system, but no motion. After every action in an irritable part, a state of rest, or cessation from notion, must take place before the irritable part can be again incited to action. If, by an act of volition, we throw any of our muscles into action, that action can only be continued for a certain space of time. The muscle becomes relaxed, notwithstanding all our endeavors to the contrary, and remains a certain time in that relaxed state, before it can be again thrown into action. Each irritable part has stimuli which are peculiar to it, and which are intended to support its natural action: thus blood is the stimulus proper to tho heart and arteries; but if, by any accident, it gets into the stomach, it produces sickness or vomiting. The urine does not irritate the tender fabric of the kidneys, ureters or bladder, except in such a degree as to preserve their healthy action; but if it be effused into the cellular membrane, it brings on such a violent action of the vessels of these parts, as to produce gangrene. Such stimuli are called habitual stimuli of parts. Each irritable part differs from the rest in regard to the quantity of irritability which it possesses. This law explains to us the reason of the great diversity which we observe in the action of various irritable parts: thus the muscles of voluntary motion can remain a long time in a state of action, and, if it be continued as long as possible, another considerable portion of time is required before they regain the irritability they lost; but the heart and arteries have a more slort and sudden action, and their state of rest is equally so. The circular muscles of the intestines have also a quick action and short rest. The action of every stimulus is in an inverse ratio to the frequency of its application. A small quantity of spirits, taken into the stomacli, increases the action of its muscular coat, and also of its various vessels, so that digestion is thereby facilitated. If the samc quantity, however, be taken frequently, it loses its effect. In order to produce the same effect as at first, a larger quantity is necessary ; and hence the origin of dram-drinking. The more the irritability of a part is aecumulated, the more that part is disposed to be acted upon. It is on this account that the activity of all animals, white in perfect health, is much livelier in the morning than at any other part of the
day; for during the night, the irritability of the whole frame, and especially that of the museles destined for labor, viz. the museles for voluntary action, is reaccumulated. The same law explains why digestion goes on more rapidly the first hour after food is swallowed thau at any other time; and it also accounts for the great danger that acerues to a famished person upon first taking in food.-In German plilosoply, irritability, sensibility and reproductivity constitute the whole of organic life. Since the time of Schelling, irritability is much considered in the mental philosophy of that country. The French, treating the subject merely with reference to physiology, generally use, at present, the word conitractility instead of irritability.
Irus; a mendicant of Ithaea, employed hy the suitors of Penelope in subordinate offices. On Ulysses' return, when he approached his mansion in the habit of a beggar, in order to surprise those uninvited guests, Irus attempted to prevent his entering, and challenged Ulysses to a contest, in which Irus was beaten.
Irvise, William, an officer in the revolutionary war, was born in Ireland, and edueated for the profession of medicine. During the war between France and England, which commenced in 1754, and ended in 1763 , he served for a time as a surgeon on board of a British ship of war, and, soon after the conclusion of peace, removed to Anieriea, and continued the practice of his profession in Carlisle, Pennsylyania. He was a member of the convention which met at Philadelphia, July 15, 1774, and recommended the meeting of a general congress. In January, 1776, he was authorized to raise and command a regiment of the Pennsylvauia line, which, in a few months afterwards, was fully equipped. In the following June, he was taken prisoner iu the unsuccessful attempt made by general Thompson, to surprise the vanguard of the British army, then stationed at the village of Trois Rivieres, in Canada, and was carried to Quebee, where he remained in durance until April, 1778, when he was exchanged. Imincdiately after his release, he was promoted to the command of the second Pennsylvania brigade, and, in 1781, he was intrusted with the defence of the north-western frontier, which was threatened by the British and Indians. The charge was one that required not only courage and firmness, but great prudence and judgment, and was executed by general Irvine in a manner which fully justified the choice of him
made by general Washington. After the war, he was cleeted a member of congress under the confederation, and he was also a member of the convention which framed the constitution of Pemnaylvania. When the whiskey insurrection broke out in that state, in 1094 , two sets of commissioners, the one representing the $U$. States, and the other the commonwealth, were first despateled to the insurgents, in order to induce them to return to their duty, and amongst the latter was general Irvine. This measure, however, proving ineffectual, force was resorted to, and general Irvine was placed at the head of the Pemnsylvania militia, and contributed greatly to the suceessful result of the affair. About this time, he removed, with his family, from Carlisle to Philadelphia, where he became intendant of military stores, and president of the Pennsylvania society of Cineinnati. He continued to reside in that city, universally respected for his publie and private virtues, until the summer of 1804 , when a period was put to his life by au inflammatory disorder, in the 63 d year of his age.

Is; the Turkish corruption of the Greek sis, prefixed to many geograplical names; as Ismyr, from sis ¿ $\mu$ uppav (Smyrna), Isnik (Nice), Ismid (Nicomedia).

Isaac ; the son of Abraham, remarkahle for his birth, which was long promisal to his parents, and took place when they were far advanced in age, and for his having early been destined to perish as a victim on the altar. (See Abraharn.) He escaped death by a miracle, and resembled his father in faith and steadfastness in the worship of the true God in the midst of heathens, but not in activity and magnanimity. In him the patriarehal charaeter shone milder and softer than in Abraham, but purer and nobler than in his son Jacob. Aceustomed to a tranquil life, by the practice of agrieulture, which he earried farther than Abraham, and leading a more settled life than his predecessors, yielding and patient in difficulties, he appeared in his family a tender father, but prematurely aged, weak, and easy to he imposed upon, who preferred the quiet, crafty Jaeob to the ruder but more lionest Esau.

Isabelia of Castile, the celebrated queen of Spain, daughter of John II, was boin in 1451, and married, in 1469, Ferdinand V, king of Arragon. After the death of her brother, Henry IV, in 1474, she ascended the throne of Castile, to the exclusion of her elder sister, Joanna, who had the rightful elaim to the erown. Dur-
ing the lifetime of her brother, Isabella had gained the favor of the estates of the kingdom to such a degree that the majority, on his death, declared for her. Fron the others, the victorious arms of her hushand extorted acquiescence, in the battle of 'Toro, in 1476. After the kingdoms of Arragon and Castile were thus united, Ferdinand and Isabella assumed the royal vitle of Spain. With the graces and charms of her sex, Isabella united the courage of a hero, and the sagacity of a statesman and legislator. She was always present at the transaction of state affairs, and her name was placed beside that of her liusband in publie ordinances. The conquest of Grenada, after which the Moors were entirely expelled from Spain, and the discovery of America, were, in a great degree, her work. In alt her undertakings, the wise cardinal Ximenes was her assistant. She leas been accused of severity, pride and unbounded ambition; but these faults sonnctimes promoted the welfare of the kingdom, as well as her virtues and talents. A spirit like hers was necessary to humble the haughtiness of the nobles without exciting their hostility, to conquer Grenada without letting loose the hordes of Africa on Europe, and to restrain the vices of her subjects, who had become corrupt by rcason of the bad allministration of the laws. By the introduction of a strict ccremonial, which subsists till the present day at the Spanish court, she succeeded in checking the haughtiness of the numerous nobles about the person of the king, and in depriving them of theirpernicious influence over him. I'rivate warfare, which had formerly prevailed to the destruction of public tramquillity, she checked, and introduced a vigorous administration of justice. In 1492, pope Alcxander VI confirmed to the royal pair the titlc of Catholic king, already conferred on them by Innocent VIIİ. The zcal for the Roman Catholic religiou, which procurcd then this title, gave rise to the inquisition (see Inquisition), which was iutroduced into Spain in 1480, at the suggestion of their confessor, Torquemada. Isabella died in 1504, having extorted fiom lier husband (of whom she was very jealous) an oath that he would never marry again. (See Ferdinand V, Ximenes, and Columbus.)

Isabella; wife of Edward II of England. (See Edward II.)

Isabey, Jean Baptiste ; miniature puinter; a pupil of David, distinguished for the delicacy and grace of his pencil. Isabey invented the very handsoinc style of elalk
and crayou drawings à l'estampe, in which he is unequalled. He frequently draws, with Indian ink, compositions of several figures, which are all portraits. His most famons pieccs of this kind are, the Visit of Napoleon at Oherkamp, Napoleon on the Terrace at Malmaison, and many parades and prescntations. He afterwards sketched all the princes and statesmen asscmbled at the congress of Vienna. One of his most beautiful pieces is his Skiff (la nacelle), where he is himself delineated with his family. The style à l'estampe, which strongly resembles stippling, was for some time the prevalent fashion, but Isabey's master liand was required to give it character. His miniature paintings arc extraordinarily fiuc. He is the only artist in Paris who can compare with Augustin ; and if the latter possesses more strength and warmth of color, Isabey has greater delicacy and sofmess.

Is.eus, all Athenian orator, born at Chatcis in Euboea, lived in the first half of the fourth century before Christ, till after 357. Lysias and Isocrates were lis teaehers. Wholly unconnceted with publie affairs, he devoted hinself to instruction in cloquenec, and wrote speeches for others. Of his 50 orations, 11 are extant, which are rccommended by thcir simple and often foreible style, and are generally on eauses respecting inheritance. They are to be found in the 7th vol. of Reiske's Oratores Graci. Sir W. Jones translated 10 orations of Isxus, with a commentary (London, 1779). The 11th, now known, has been discovered since.

Isaiaif, the first of the four great prophets, prophesied during the reigus of the kings of Judah, from Uzziah to Hezekiali, at least 47 years. Of the circumstances of his life nothing is known, but that he had an important influence over the kings and people. Of the sacred compositions which pass under his name in the Old Testament, that part which is unquestionably his gives him a ligh rank among the greatest poets. His style is peculiarly appropriate to the subjects of which he treats; it unites simplicity and clearncss with the highest dignity and majesty; and in fulncss and power, his poetry far surpasses that of all the other propliets. His writings are chiefly denuneiations and complaints of the sins of the people, menaces of approaching ruin, and animating anticipations of a more glorious future. The whole bears the stamp of genius and true inspiration, and is marked throughout by nobleness of thought and feeling. (See Lowth's Neic Translation
of Isaiah, and his Lectures on the Sacred Poetry of the Hebreics; also, the article Prophets.)

Isauria, in ancient geography ; a coumtry in Asia Minor, forming a part of Pisidia, lying on the west of Cilicia, and on the south of Lycaonia. The inhabitants were shepherds and herdsmen, and formidable as robbers. Their capital, Isaura, was a mere haunt of bandits. The consul Publius Servilius destroyed it; but another Isaura was built not far from it. Hence Strabo mentions two.

Ischia (anciently Pithecusa, Enaria, Arime, and Inarime) ; an island in the Mediterranean, six miles from the coast of Naples, about ten miles in circuit. Lon. $13^{\circ} 56^{\prime}$ E. ; lat. $40^{\circ} 50^{\prime} \mathrm{N}$. ; population, 24,000 ; square miles, 25 . It contains several high hills, one of which is 2300 feet above the sea. It is fertile in fruits, and abounds in game. The white wine is much esteemed. The air is healthy, on which account it is much resorted to by invalids, as it is but a small distance from the continent, and hardly inore than four leagues from Naples. It is volcanic; and an earthquake in 1828 destroyed several villages on the island. The porcelain clay of Ischia was prized by the ancients, but the true terra d'Ischix is rase. Ischia, the capital town, is situated on the N. coast of the island, and is an episcopal see with 3101 inhabitants.

Isenburg, or Upper Isenburg; a principality in Gernany, situated in the Wetterau, about 30 miles long and 10 wide, on the borders of the county of Hanau; subject partly to Hesse-Cassel, and partly to Hesse-Darmstadt. Population, 47,457; square miles, 318.-Isenburg, a principality belonging to Hesse-Cassel, erected since 1816 , contains 16,200 inhabitants, and 137 square miles.

Isenberg, New; a town of HesseDarmstadt, in Isenburg, founded in 1700 by French refugees; three miles $S$. of Frankfort on the Maine; four S. W. of Offenbach; lon. $8^{\circ} 38^{\prime} \mathrm{E}$. ; lat. $50^{\circ} 3^{\prime} \mathrm{N}$.; population, 1170.

Isère (anciently Isara); a river which rises in the Alps, about 12 miles from mount Cenis, in a mountain called Iseran, in the duchy of Savoy. After entering France, it passes by Grenoble, St. Quentin, Romans, \&cc., and joins the Rhone about three miles above Valence.

Isere; a department of France, constituted of the former Dauphiny. It takes its name from the river Isere, which crosses it. It is divided into four arrondissements. Grenoble is the capital. Square
miles, 3140 ; population, 525,084. (Soe Department.)

Isfrlohn ; a town in the Prussian county of Mark, province of Westphalia, on the small river Baaren, with 5500 inhabitants, in 730 houses. The inhabitants are mostly Lutherans, but there are also some Catholics and Calvinists. There is a gymnasium here. It has manufactures of iron, brass, wire, and small wares, as needles, brass scales, \&c. More than 60 considerable commercial houses keep up an intercourse with Italy, France and Germany. There are also woollen and silk manufactories and bleacheries in the environs. Iserlohn is about 15 leagues S . of Münster.

Ishmaelites, in ancient geograply and history; the descendants of Ishmael, the son of Abraham by Hagar. (q. v.) Ishmael was born 1910 B. C. After the dismission of Hagar from the house of Abraham, she wandered with her son to the wilderness of Paran, which bordered on Arabia, and here Ishmael became an expert hunter and warrior. Ilis mother procured lim a wife from Egypt, by whom he had 12 sons, who became the heads of so many Arabian tribes.-The name of Ishmaelites, or Ismaelians, is also given to a Moliammedan sect which originally belonged to the Shiites, the adherents of Ali and the opponents of the Sunnites. In the first century of the I Iegira, the Iman Giaffir-el-Sadek, a descendant of Ali, on the death of his eldest son, Ishmael, having transferred the succession to his younger son, Mousa, to the prejudice of the children of Ishmael, a party refused to acknowledge Mousa, and considered Ishmael's posterity as the legitimate Imans. By the Oriental historians, they are reckoned with the Nassarians, among the Bathenins, or Batenites, that is, adherents of the mystical, allegorical doctrines of Islamism. From the 8 th to the 12 th century, they were powerful in the East. Under the name of Carmatians (as they were called, from Carmati, near Cufa, the birthplace of their chief Karfeh, in the 8th century), they devastated Irak and Syria. In Persia, which they likewise overran about this time, they were called Meladehs, that is, impious, or Talimites, because they professed Talim's doctrine, that man can learn truth only by instruction. One dynasty of the Ismaelians, founded by Mohammed Abu-Obkid-Allah, conquered Egypt about 910, and was overthrown by Saladin, the caliph of Bagdad, about 1177, when the dynasty became extinct with Adhed-Udin-Allah. The other (still ex-
isting) Ishmaelite braneh fuunded a kingdom in Syria in 1090, under the Iman Hassan Ben-S'abbah,which becanne formidable in the East, by its military power. Hassan, with his seven suceessors, is known in the East under the name of the Old .Man of the Mountain, because his residence was in the mountain fastness of Mesiade in Syria. Thence he despatched his war-riors-who were called Haschischim, from their immoderate use of the henbane (Arab. haschischeh), which produces an excitement amounting to fury-011 expeditions of robbery and murder. These Ismaclians, therefore, acquired in the West the name of Assassins (corruption of Ha schischim), whiel thence became, in the western languages of Europe, a common name for murderer. At the elose of the 12th century, the Mongols put an end to the dominion of the Old Man of the Mountain, who, according to Von Haminer's researehes, was not a prinee, but merely the head of a sect. From this time, only a feeble residue of the Ismaelians, from whom proceeded the Druses, about A. D. 1020, has survived in Persia and Syria. At Khekh in Persia, an Ismaelian Iman still has his residence, who is revered as a god by the Ismaelians, who extend as far as India, and is presented with the fruits of their robbery, from which he pays a considerable tribute to the shall of Persia. The Syrian Ismaelians dwell around Mesiade, west of Hamah, and in the mountain Semnaek on Lebanon; they are under Turkish dominion, with a sheik of their own, who, in consideration of a yearly tribute to the Porte of 16,500 piastres, enjoys the revenues of the country, rendered productive and flourishing by agriculture and commeree (in cotton, honey, silk and oil). These people are commended by modern travellers for their hospitality, frugality, gentleness and piety. But their prosperity was interrupted in a war with the Nassarians (q.v.), who took Mesiade in 1809, and desolated the country ; and, thouglt reinstated, in 1810, in the possession of their territory, they drag out a miserable existence. The Ismaelians, with other Shiites, adore the prophet Ali as the inearnate God, and Mohanmed as an ambassadlor of God and the author of the Koran. All Ismaelians term themselves Seid, that is, descendants of tho family of Mohanmed, and wear the green turban, in token of their pretended nobility. In accordance with their exposition of the Koran, they believe in supernatural conmunications of the Deity by the prophets (Imans), and in the transini-
gration of souls, deny a paradise and hell, do not observe the purifications and fazats of the orthodox Mohammedans, and perform their pilgrimages, not to Mceca, but to Mesehid, the place of Ali's interment, four days' journey from Bagdad. They have no public temples, and their simple rites display more of pure theisn than those of the Mohaminedans. (See the treatise of Rousseau, consul-general in Aleppo, respeeting the Ismaclians and Nassarians.)

Isiac 'Table, or Bembine Table(Mensa Isiaca and Tabula Bembina); an ancient Egyptian monument, on which is represented the worship of the goddess Isis, with her ceremonies and mysteries. It is a square table of copper, divided into five compartments, covered with silver Mosaic skilfully inlaid. The prineipal figure of the central group is Isis. After the capture of Rome (1525), this table came into the possession of eardinal Bembo, from whoin the duke of Mantua obtained it for his cabinet. After the saek of Mantua in 1630, eardinal Pava obtained it, and presented it to the duke of Savoy. It is at present in the royal gallery at Turin. Several engravings of it have been made ; the first by Æneas Vieus (Venice, 1559) in figures, the size of the original. Caylus has engraved and deseribed it in his Recueib des Antiquites, vii. p. 34. It is filled with all sorts of hieroglyphies; and this mixture, with other reasons, Spineto considers as a proof of its having been fabricated in Rome, at a late date, by some person who knew little about the science.
Isidore ; the name of several martyis, saints, monks and bishops; among others, of a monk of Pelusium in Egypt, died about the year 449, whose letters are valuable, as illustrative of the Bible. In the history of the papal law, a collection of decretals is worthy of note, which bears on its title page the name of Isidore, arehbishop of Seville (who died 636), bur which was corrupted in the 9th century by many spurious additions, and was widely eireulated from the east of Germany.

Isinglass. This substance is almost wholly gelatine, 100 grains of good dry isinglass containing rather more than 98 of matter soluble in water. It is brought prineipally from Russia. The belluga yields the greatest quantity, being the largest and most plentiful fish in the rivers of Museovy ; but the sounds of all fresh water fish yield nore or less fine isinglass, particularly the simaller sorts, found in prodigious quantities in the Caspian sea, and several hundred miles beyond Astra-
can, in the Wolga, Yaik, Don, and even as far as Siberia. It is the basis of the Russian glue, which is preferred to all other kinds for strength. Isinglass reccives its different shapes in the following manner. The parts of which it is composed, particularly the sounds, are taken from the fish while sweet and fresh, slit open, washed from their slimy sordes, divested of a very thin membrane which envelopes the sound, and then exposed to stiffen a little in the air. In this state, they are Cormed into rolls about the thickness of a finger, and in length according to the intended size of the staple ; a thin mennbrane is generally selected for the centre of the roll, round which the rest are folded alternately, and about lialf an iuch of each extremity of the roll is turned inwards. Isinglass is best made in the summer, as frost gives it a disagrecable color, deprives it of its weight, and impairs its gelatinous principles. Isinglass boiled in milk forms a mild, nutritious jelly, and is thus sometimes employed medicinally. This, when flavored by the art of the cook, is the blancmanger of our tables. A solution of isinglass in water, with a very sinall proportion of some balsam, spread on black silk, is the court plaster of the shops. Isinglass is also used in fining liquors of the fermented kind, and in making mock-pearls, stiffening linens, silks, gauzes, \&c. With brandy it forms a cement for broken porcelain and glass. It is also used to stick together the parts of inusical instruments.

Isıs ; the principal goddess of the Egyptians, the symbol of nature, the mother and nurse of all things. According to Diodorus, Osiris, Isis, Typhon, Apollo and Aphrodite (Venus) were the children of Jupiter and Juno. Osiris, the Dionysos (Bacchus) of the Greeks, married Isis (sun and moon), and they both made the improvement of society their especial care. Men were no longer butchered, after Isis had discovered the valuable qualities of wheat' and barley, which had till then grown wild, unknown to mankind, and Osiris taught how to prepare them. In gratitude for these benefits, the inhabitants always presented the first ears gathered as an offering to Isis. Whatever the Greek related of his Demeter (Ceres) the Egyptian attributed to Isis. As agriculture was improved, civilization advanced, axid a taste for art and letters was developed. At least, we first hear among the Egyptians, of the building of cities and temples, and the constitution of the priesthood, after the time of Isis, who was also rever-
el as the inventress of sails. According to Plutarch's learned treatise (on Isis nid Osiris), Osiris and Isis were the illegitimate offepring of Saturn and Rhca. When Helios (Sol), the husband of Rhea, discovered the intrigue, lie pronounced judgment upon her, that slie should not be delivered in any month nor in any year. Mercury, who was then in love with Rhea, and was loved by her, laving heard the curse, discovered a way in which she might be delivered, notwitlistanding. In playing at drauglits with the moon, lie won from her the seventieth part of her light, of which he nade five days, and, liaving added them to the 360 , of which the year lad previously consisted, gave the goddess time for delivery. These were the intercalary days of the Egyptians, which were celebrated by them as the birthdays of their deities. Osiris was born the first, and at his birth a voice cried, "The lord of the world is horn." On the sccond day, Rhea was delivered of Aroneris, or the chler IIorus (Apollo) on the third of Typlion, on the fourth of Isis, and ou the fiftll of Nephthys, who was called Teleute, the Consummation, though others give her the name of Aphrodite and Nike (Victory). Of these five children, there were three fathers-Helios, Satuin and Mercury. Typhon married Nephthys; Osiris and Isis loved each other even in their mother's womb. Osiris, the good spirit, was persecuted by Typhon, the bad spirit, who, by stratagem, shut him up in a chest, and threw him into the sca. When Isis learned this, she cut off one of lier locks, put on mourning garments, and wandered about disconsolate, in search of the chest. Meanwhile she learned that Osiris, on a certain occasion, deceived by Nephthys, who was enamored of him, had mistaken Neplithys for herself, and that the child which was the fruit of this union had been exposed by its mother. Isis therefore sought the child, and bred him up under the name of Anubis. The chest in which Osiris was shut up, was, meanwhile, driven ashore at Byblos, and thrown on a bush, which, having suddenly grown into a beautiful tree, had entirely enclosed it. This tree was afterwards cut down by the king of the country as a curiosity, and used as a pillar in his palace. Tlie cliest was finally obtained by an artifice of Isis, but the body, being afterwards discovered by Typhon, was torn by him into 14 pieces. On discovering this, Isis proceerled to collect the fragments; she found them all but one, an image of which she therefore formed; and thus the Phallus
-came to he held saered, and a festival was instituted in its honor by the Egyptians. Osiris having returned to life, Isis bore him, prematurely, Harpocrates, the god of silence, who was lame in his lower limbs. Horus, the son of Isis, afterwards vanquished Typhon in a war, and gave him to his mother for safe-keeping. She set him at liberty, on which account Horus tore the crown from her head, instead of which Mercury gave her an ox's head. As the goddess of fecundity, and the universal hencfactress, she superintended the cure of human maladies, and, even in Galen's time, several medicines hore her name. After her death, she was reverenced as the chief of the divinities. According to Herodotus, the Egyptians represented Isis under the form of a woinan, with the horns of a cow, as the cow was sacred to her. Another tradition also related, that Isis, in the shape of a young cow, hecame the mother of Apis, by a ray from heaven (Osiris); that is, the sun and moon sustain the earth. She is also known by the attributes of the lotus on her head, and the sistrum in her liand, a musical instrument, which the Egyptians used in the worship of the gods. The dress of Isis consists of a close under garment, and a mantle drawn together and fastened in a knot on her breast. Her head is covered with the Egyptian hood. Sometimes, like the Diana of Ephesus, the universal mother, she is represented with a great number of breasts. Among the Romans, Isis afterwards rcceived, in countenanee, figure and dress, somewhat of the character of Juno. A foreign character is to be recognised only in the mantle and fringed veil, and other attributes. She was particularly worshipped in Memplis, but, at a later period, throughout all Egypt. $\Lambda$ festival of cight days (the festival of 1sis) was annually solemnized in licr honor, consisting of a general purification. (See Mysteries.) It was introduced into Rome, but frequently prohibited on account of the abuses which it occasioned. Yuder Augustus, the temples of Isis wer? the theatres of the grossest lieentiousuess. From Egypt, the worship of this gordess passed over to Greece and Rome. (Sce Io, also Egyptian . Iythology in the article Bicroglyphics.)

IsLan, or, as it is pronounced in Syrin, Eslam, signifies an entire submission or devotion to the will of another, and esperially of God, and thence the attaining if security, peace and salvation. This act is perforned, and these blcssings are chtained, according to the doctrine of the vol. Vif.

Koran, by acknowledging the unity of God, and the apostleship of Mohammed. Every man who makes this profession (aslama) is a Moslem, i. e. has entirely given himself up to the will of God, and is, on that account, in a state of salvation (salam). But as Muslimáni, the dual of Muslim, is commonly substituted for the singular by the Persians and Turks, the word Musulmán, or Musselman, has in those, as well as in the European languages, now nearly superseded the shorter and more correct term.-As Islam comprehends the practical as well as the doctrinal tenets of the Mohammedan religionevery thing which Moslems must believe and practise-it embraces the whole of their civil and religious polity; for the system of Mohammed relates more to this world than the next, and was designed, like the law of Moses, for the secular as well as the spiritual direction of his followers. But, taken in its more common and dircet scnse, it signifies the profession of the five fundamental doctrines, on which, according to a traditional declaration of the prophet (Reland, Rel. Moh. I. 1. p. 5.) the whole edifice of the faith is built. Those five points are -1 . the aeknowledgment of the Divine Unity and of the prophetic mission of Mohammed; 2. observance of prayer; 3. giving of alms ; 4. keeping the fast of Ramadan; and 5. the performance, if possible, of the pilgrimage to Mecca. They are often, also, subdivided and enlarged, in order to arrange them inore couveniently into the two classes of helief (iman) and practice (din). The former relates to-1. God; 2. the angels; 3. the Saered Book; 4. the prophets; 5. the last day; and, 6. the divine decrees: the latter, to-1. purifieation; 2. prayer; 3. alms; 4. fasting; and 5 . the pilgrimage. To the first article of this creed, the Persians and other adherents of Ali add, "Ali is the viear of God ;" and that is the only essential point in which they differ from the Sumnites, or orthodox Musselmans, whu acknowledge the authority of the four first khalifs. The disputes concerning the sucecssion to the khalifate, or supremacy of the prophet, spiritual and eivil, which arose immediately after his death, split his followers, as is well known, into two distinet seets, the Sumites and the Shiites, who have never since censed to hate each other with a cordial animosity ; but they differ more in the degree of veneratiou paid to Ali, than in any other point ; and, professing the same erced, with the exception of one artiele, they derise their doetrines from the same sources. In their
respective rituals, and their interpretation of particular texts, there are many minor differences; but both agree in superadding a traditional to the written law of Mohammed, and both lave sanctioned that departure from the original simplicity of his doctrine, the reëstablishment of wlich was the professed object of the Wahabeés. (See Mohammed.)

Island ; a portion of land less than a continent, and which is entirely surrounded by water. Islands are of very different extent, surface, \&c. There are some so large, that authors liave doubted whether they should not be called continents, as New Holland ; this, however, is a mere matter of definition. Borneo, Java, Madagascar, Sumatra, Sicily, Great Britain, Ireland, Iceland, Hayti, Cuba, Newfoundland, are among the most considerable islands, and are capable of containing powerful states; while others, speaking only of those which are inhabited, are only of a few miles in diameter. They differ not less in form than in extent; some being indented with deep bays, and affording fine liarbors, and others presenting an almost unbroken line of coast. A cluster of several islands is called aus archipelago. (q. v.) The principal clusters in the Atlantic are the West Indies, the Azores, the Canaries, the Hebrides, Orkneys, Slietlands, \&c. But the great world of islands is in the Pacific, and modern writers have considered them as forming a fifth division of the world, including the Eastern Archipelago, Polynesia and Australia, to which they have given the name of Oceanica. (See Oceanica.) A large island is a continent in miniature, with its chains of mountains, its rivers, lakes, and is often surrounded by a train of islets. The rivers of islands are in general little more than streams or torrents, and the smaller islands are often uninhabitable from want of water; but they serve as haunts and breeding-places of innumerable sea-birds. There are islands in rivers and lakes, as well as in the sea. In rivers, they are often formed by the division of the stream into various branches, and often by accumulations of earth bronght down and deposited around a rocky base. Examples are not wanting of floating islands, which are formed by the roots of plants and trees interlacing with each other, and thus constiuting a support for delosits of successive layers of earth. Chains of islands in the neighborhood of continents seem to be often formed ly the action of the waters washing away the less solid parts, which once occupied the spaces botween
the moumtans and rocks which still appear above the surface of the waves. Single islands in the ocean, such as St. Helena, Ascension, \&ce, and some clusters, as the Camaries, the Azores, \&c., appcar to owe their origin to the action of sulburarine fire, which has raised them above the level of the sea. Consilerable islands have been known to be suddenly raised from the bed of waters, and soon after to have as suddenly disappeared in the ocean. The Pacific contains a great number of low islands formed of coral reefs, which are sometimes covered with sand, on which a few plants find nourishment. These reefs are formed by the labors of innnmerable zoophytes. Submarine islands, as they have been sometimes called, or immense banks of sand, above which there is no great deptl of water, are not unfrequent. It has been remarked that islanders have generally some peculiar traits of character, which distinguish them from the inlabitants of continents: it is true that they have often been distinguished by their commercial activity, and their naval skill; but this trait is common to other inhabitants of countries bordering on the sea. The great commercial powers of ancient times were the Phonicians, the Carthaginians and continental Greeks; of the iniddle ages, the Italian republics; and the Normans were the most distinguished naval wantiors of their time.-A portion of country nearly included between several rivers, is solnetimes called an island, as the ancient province of the Isle de France. The Greeks called such a district by the expressive name of Mesopotamia. The Greek word for island is pйซos, the Latin insula, Italian isola, Spanish isla, French ile, ilot, German insel and eiland, Danish oe, and ey, Swedish $๕$, Russian ostror.
Island or Iceland Spar. (See Lime.)
Islands of the Blessed, or Fortunate Islands (Insulce Beatorum, Fortunaia Insule, N of Homer; according to the Grecian mythology, the happy islands which were supposed to lie westward in the ocean, where the favorites of Jupiter, snatched from death, lived in the midst of happiness. According to Hesiod, they were the residence of the fourth race of heroes. In the earliest mythology, the Islands of the Blessed, the Elysian Fields, and the lower world, were in general confounded with each other.
Islay, Ilay, or Ila; one of the Hebrides, or Western Islands of Scotland, to the southwest of Jura, and belonging to the
county of Argyle. It is of an irregular form, about 31 miles in length, and 24 broad. It contains about 154,000 acres, of which one seventh may be stated to be in cultivation. The linen manufacture is carried on to a considerable extent. About 200 tons of kelp are manufactured annually. Population, in 1801, 6821; in 1811, 11,500; in 1821, 16,993. Its inhabitants are rapidly increasing.

Isle of France. (See France, Isle of.)

Islington, a village of England, in the county of Middlesex, and neighborhood of London, is chiefly composed of the dwellings of retired citizens, and other persons connected with the capital. The neighborhood abounds with pleasant walks, the fields being unenclosed, and intersected by the meanders of the New river, while the adjacent tea-gardens and taverns, all in fine open situations, and furnished with bowling-greens, are much visited from the mctropolis. Population of the parish, 22,417 .

Ismail, or Ismailow ; a town in Russia, in Bessarabia, on the north side of the Danube, about 33 miles from the Black sea; 144 S. W. Otchakov, 268 N. Constantinople ; lon. $28^{\circ} 50^{\prime}$ E.; lat. $45^{\circ} 21^{\prime}$ N. Population, 10,000 . The town of Ismail contains 17 mosques, and measures about a milc towards the land, and half a mile by the side of the Danube, and was fortified by eight bastions. The ramparts are, in general, 18 feet in height, in some parts 25. This place was taken by storm (December 22, 1790), by the Russians, under gencral Suwarrow. The Russians were several times repulsed, and lost, in the siege, 10,000 men. According to the account, as published at Petersburg, the Turkish garrison were put to death after the surrender, and 30,000 men massacred in cold blood. The booty found was im-mense-230 pieces of cannon, many magazincs, powder, bounbs and balls, 345 standards, an abundance of provisions, 10,000 horses, \&c., to the value, as calculated, of $10,000,000$ piastres.

Isnard, Maximin, was born at Draguignan, in Provence, and his father, a rich tradesman, gave him an cxcellent education. He was clected to the legislative asscinbly by the department of the Var (1791), and, as soon as he took his seat, he attacked the priests and emigrants with the utmost severity. He also supported the impeachment of the king's brothers, voted against the minister Delessart, accused the court of counter-revolutionary projects, and, in a varicty of other
instances, displayed his hostility to the government. He was returned as a deputy to the convention, and he voted for the death of the king. In that assembly, Isnard belonged to the Brissotine or Girondist (q.v.) party, and, in the struggle which took place with the Jacobins, he manifested an undaunted courage, and an impetuous and powerful eloquence. May 16,1793 , he was chosen president of the convention. He was not comprised in the proscription of his party on the 2 d of June ; but the revolutionary tribunal issued an order for arresting him, and, as he escaped, they outlawed him. Isnard, however, was concealed by a friend till after the fall of Robespicrre. He then quitted his asylum, and resumed his seat in the convention. Shortly after this, he was sent on a mission into the south of France; and he took a decisive part against the terrorists, who had committed such atrocious enormities in that quarter. He is even accused of having incited the oppressed to carry their vengeance beyond all reasonable bounds. Some young men haviug complained to him that they had no arns with which to oppose the terrorists, he exclaimed "You have no arms! Open the ground, draw forth the bones of your fathers, and rush on their assassins !" Isnard was elected a member of the council of five hundred, but quitted it in 1797, and was aftervards employed in the tribunals of the Var. He is the author of some political pamphlets, of an account of his own proscription, of a work On the Immortality of the Soul, and of a Dithyrambic on the Immortality of the Soul. Not having accepted any office during the hundred days, he was allowed to remain in France.
Isocrates; one of the most distinguished Greek orators, born at Athens, 436 B. C. His principal teachers were Gorgias, Prodicus and Protagoras. On account of his weak voice and natural timidity, he was reluctant to speak in public; but he applied himself with the grcatest ardor to instruction in the art of eloquence, and preparing orations for others. He derived a considerable profit from this occupation, as is evident from the fact, that he received a present of 20 talents (about 18,000 dollars) for a speech that he wrote for Nicocles, king of Cyprus. In his childhood, he was the companion of Plato, and they remained fiiends during thcir whole lives. He had a great vencration for Socrates. After the death of Socratcs, which filled his scholars with fear and horror, he alone had the courage
to appear in mourning. He gave another proof of his courage, by publicly defending Theramenes, who liad been proscribed by the thirty tyrants. This courage, however, seems to have deserted him; for lic never after ventured to appear publicly and take part in the popular asseniblies. This was the reason why he never attained to the offices, to whicl, in Athens, public eloquence afforded the only passport; but eloquence, nevertheless, owed much to his services. He was particularly distinguished for a polished style and a harmonious construction of his sentences. The composition, revision, and repeated polishing of lis speeches, occupied so much time, that he prblished little. His celebrated panegyric on Athens (Panathenaicus) cmployed him 10 years. The critics of his time objected to him, that his style was often prolix and overloaded with ornament ; that he aimed rather at pleasing the ear than moving the heart ; that he made the sense subservient to the sound, and often used unmeaning expressions and unappropriate figures to round off his periods. As all his specches were modelled after the same pattern, their sameness excited weariness. His subjects were the most important points of morals and politics. His admonitions to princes were so gentle, that they could not be offended by them, and even bestowed favors on the author. He knew how to flatter them in the most delicate manner. A proof of this is afforded by the letter which he wrote, when 90 years of age, to the Macedonian king Philip. Yet lis desire for the freedom of Greece was so intense, that he starved himsclf to death, in his 98th year, from grief at the unhappy battle of Cheronæa. In Plutarch's time, 60 orations went under his name, not half of which were, however, deemed genuine. Twenty-one now remain, of which the principal are the Panegyricus (an oration in which he exhorts the Greeks to concord, and to war against the Persians, edited by Morus and Spoln, Leipsic, 1817, Pinzger and Dindorf, 1825 and 1826), and the Panathenaicus. Ten letters are also extant. The latest editions of all his orations are those of Lange (Halle, 1803) and of Coray (Paris, 1806, two volumes). Of the older editions, those of H. Wolf, of Henry Stephens, Bekker, and Battie are the best.

Isography (from the Greek izos, equal, similar, and yoíqu, to write); the imitation of handwriting. As it is too expensive and difficult for many persons to collect autographs ( $\mathrm{q} \cdot \mathrm{v}$.) of famous persons,
it is agreeable to have at least fac-sinniles or isogruphs. An interesting work was completed in the year 1830, called Isographie des Honmes célebres (Paris), containing several hundred fac-simile copies of autograph letters and signatures. Some years ago, Mr. Thane published a work nuder the title British Autography, containing a collection of portraits of celebrated English characters, with the fac-simile of their antographs under cach; and Mr. Nichols is publishing another work of the kind. It has been often asserted, that some judgment could be formed of a man's claracter from his handwriting, and there exists a small French publication-LiArt de juger les Honmes par leur Ecriture-a new reason for authors to be thankful for the invention of printing.

Isouard, Nicolo. (See Nicolo.)
Ispalan, Isfahán, or Spahawn (anciently $A_{\text {spadona) ; a city of Persia, in }}$ Jrak, formerly the capital of the whole country ; 260 miles N. E. Bassora; lon. $51^{\circ} 50^{\circ}$ E. ; lat. $32^{\circ} 2 \bar{y}^{\prime} \mathrm{N}$. The population was formerly estimated by some travellers, probably with much exaggeration, at $1,100,000$. Chardin, in 1686, stated it at 600,000 . According to Olivier, it was reduced, in 1796, to 50,000 . In 1800 , it was stated at 100,000 . Morier stated it in 1508 , from Persian authorities, at 400,000 ; but, in his second journey, at 60,000 . Kimnier states it at 200,000 . According to Chardin, the walls were 24 miles in circuit, and contained 162 mosques, 48 colleges, 1802 caravansaries, and 273 public baths. A great part of the city is at present a mass of ruins, with here and there an inhabited house. It is sithated on the river Zenderout. Under the caliphs of Bagdad, it became the capital of the province of Irak. Being situated in the centre of the empire, and surrounded by the most fertile territories, it soon becane a place of great population, wealth and trade. In 1387, it was taken by Tinur Bcc, and the citizens were given up to indiscrininate massacre, and 70,000 are said to have perished. Shah Abbas made it the scat of his empire, and spared no cost in embellishing it with the most splendid edifices. In 1722 , it was taken by the Afghans; but, in 1727, it was retaken by Nadir Shah, since which it has not been a royal residence. The great palace built by Shah Abbas, is said to have been five miles in circuit, a great part of which space, however, was laid out in 10 gardens, adorned with summer houses and other elegant structures.

The walls and buildings of this palace remain nearly entire, but it has been stripped of nearly all its costly furniture, and every thiug valuable that could be remover. The square called Meyden was equally distinguished, one third of a mile in length, formerly encircled by a canal, bordered with plane trees; but all restiges of both are now obliterated. Another remarkable object is the Chaur Baug (four gardens), a name given to an avenue of more than a mile, reaching from the Meyden to the mountains east of Ispahan, coniposed of four rows of large and beautiful plane trees, with canals and basins to receive the waters of the Zenderout. There are several handsome bridges in the city, and the mosques display great magnificence. The private buildings have a mean appearance, built of bricks dried in the sun, but within they are handsome and couvenient. The streets are narrow, winding, irregular, unpaved, and very dusty. When Ispahan was in its prosperity, its suburbs were distinguished for their extent and beauty. The principal one, Julfa, is now reduced from 12,000 to 600 families-Armenians, Circassians and Georgians. The manufactures of the city are still extensive, and it is famous for its gold brocade. It is also the emporium of the inland commerce of Persia.

Israel and Israelites. (See Jacob, and Hebrews.)

Israelite Ciiristians; the Jews converted to Christianity in Russia. An imperial decree of March 25, 1817, imparted to them perfect freedom in the choice of their Christian confession, portions of the public lands for the establishment of colonies, freedom to exercise mechanical arts without restraint, full civil rights, independence of the local authorities, government by magistrates chosen by themselves, who were immediately subordinate to an imperial board of control, exemption from military and civil service, from furnishing quarters to soldiers, from supporting the posts, and from all taxes for 20 years, when they are to be placed on an equality with other subjects. According to the denomination of the Christian confessions selected by them, they must form distinct parishes, in which no foreign Christian or Jew may settle, though every foreign proselyte may be admitted after the payinent of his debts.
Issue. The plaintiff and defendant, in a suit at law, are said to be at issue, when something is affirmed by one of them,
which is denied by the other. The subject of this affirmation and denial may be either matter of fact or matter of law. If the defendant intends to dispute the truth of the statement whereon the plaintiff grounds his complaint, he denies either the whole of the statement, or some one material fact contained in it, which, in technical language, is called traversing. He then appeals to the decision of a jury, which is called putting himself upon the country. Although the plaintiff's statement be true, it does not necessarily follow that it discloses sufficient grounds for complaint against the defendant. If it does not so, the defendant admits the truth of the facts, but denies their sufficiency in law to support the action. In this case, le appeals to the decision of the judges ; for the jury merely decides questions which involve matters of fact. Questions of inere law fall beneath the cognizance of the judges. When either the plaintiff or the defendant admits the facts, but denies the law of the other, he is said to demur. Although the plaintiff's statement, so far as it goes, be both true in point of fact, and sufficient in point of law, the defendant may still have a good defence; for the plaintiff may lave stated the truth, but not the whole truth. Some facts may be suppressed, which, when explained by the defendant, may turn the scale in his favor. If this counter-statement of the defendant is insufficient in point of law as a defence, the plaintiff demurs; but if it is sufficient in point of law, he must either deny the facts, or allege some other facts to counterbalance them. By these means, the parties in the cause must ultimately arrive at some point, either of law or fact, at which they are at issue, and judgment will be given for that party in whose favor the issue is decided. The statements and counter-statements of the parties are called the pleadings, and each particular stage in the pleadings has a name appropriated to itself. These names are, 1. the declaration; 2. the plea; 3. the replication; 4. the rejoinder; 5. the surrejoinder ; 6. the rebutter; and 7. the surrebutter. The first, third, fifth and seventh names belong to the pleadings of the plaintiff; the second, fourth and sixth to the defendant. Issue is generally taken before the parties arrive at a surrebutter. In forner times, the pleadings were conducted, vivic voce, in open court, and the judges presided, like moderators, during the dispute, until the parties arrived at an issue; but they are now drawn up in writing out of court, and are then filed by
the attorneys in the proper offices attached to the court. The judges now hear nothing of them until the issue of fact comes on for trial, or the issue at law for argument. If the existence of a particular record is put in issue, it inust be produeed by the party who affirms its existence; and the eourt, at the time appointed for its production, decides the issue without the intervention of a jury. This is one of the very rare cases where the jury are not the sole judges on questions of fact. There is a rule of pleading, that only one material fact shall be put in issue in one plea. To this rulc the general issue forms a wide exception. When a special plea is pleaded, evidence is only admissible as to the truth or falseliood of the particular fact which is the subject of that plea; but the general issue is a species of plea which usually compels the plaintiff to prove his whole case to the satisfaction of a jury, and, at the same time, enables the defendant to prove any circumstances whatever which discharge his liability. Thus, if nu action be brought against a man for the price of goods which the plaintiff alleges that the defendant bought, if the defendant has beeome a bankrupt since the purchase, he may plead that fact specially, and then the evidence is confined to the single question-Has he or has he not become baukrupt? But if he pleads the gencral issue, then he may 'prove either that he never bought the goods, or that he paid for them, or that he returned thein to the plaintiff on finding them to be of an inferior quality, or, in short, any thing else which is a bar to the action. The form of the general issue, in this case, is simply" that the defendant did not promise or undertake in manner and form as the plaintiff has complained against him." Owing to this latitude allowed to the general issue, it sometimes happers that plaintiffs are taken by surprise at the trial, by the defendant setting up an unexpected defence, which the plaintiff, on thic spur of the moment, is unable to disprove. When this is proved to the satisfaction of the judges, they will, if the justice of the ease require it, grant a new trial.

Istakhaf. (See Persepolis.)
Istambol. (Sec Constantinople.)
Isthman Gaines; so called becauso they were celebrated on the isthmus of Corinth, which joins the Peloponnesus to the continent. On it was a famous temple consecrated to Neptune, ncar which the Isthmian games were celebrated. On one side of the temple were the statues of
the victors in these games, and on the other was a grove of pines. In the temple stood fuur horses, gilded all over, with the exception of their ivory hoofs: by the side of the horses were two Tritons, the upper parts of which were gilt, and the rest of ivory. Behind the horses was is car, with the statues of Neptume and Amphitrite, of gold and ivory. Not far from the temple were a considerable theatre, and the stadium, of white stone, in which the games were celebrated. The whole isthmus was sacred to Neptune, who was thence called Isthmius. According to the common opinion, the Isthmian games were founded in lionor of Palæmon or Melicerta. (See Ino.) Others relate that Theseus estallished them in honor of Neptunc. They were originally held in the night, and had perhaps fallen into disuse, when Theseus restored them, and ordered them to be eelebrated in the day. As Theseus was either the founder or the restorer of these ganics, the Athenians had the preecdence in them. All Grecce took part in them, excepting the Eleans, whose absence was thus explained:-As the sons of Actor were riding to these games, they were killed, near Elea, by Hercules. Their mother, Melione, discovered the murderer, who theu resided in the territory of Argos. She therefore demanded satisfaction of the Argives, and, on their refusal to grant it, requested the Corinthians not to admit them to the games, as disturbers of the publie tranquillity. As they would not yield to her solieitations, Melione pronounced direful curses on all the Eleaus, if they should ever participate in these games. They were celebrated, with the same splendor as the Olympian and other public games, twice in each Olympiad, probably in autumn : the athletic exercises were the same. The vietors werc at first adorned with wreaths of pine branches, but afterwards with wreaths of dry and faded ivy. The pinc wreaths were afterwards resumed.
Istria (anciently Histria); peninsula, Austrian empire, in Illyria; bounded on all sides by the sea, except towards the north, where it is joined to Carmiola. It was anciently a part of Myricum. Population, 140,749 ; square miles, 1570 ; of this, more than two thirds formerly belonged to the republie of Veniee. It is $\mu$ rich, fertile tract. The oecupation of the inhabitants consists in agriculture, the culture of wine and oil, the rearing of bees, the manufacturing of silk, leather, tallow, salt, and also in fishing. The chief towns are Rovigno, Capo d'Istria, and Fiume.

Istria was confirmed to Austria in 1814.

Italy, once the seat of universal einpire, but whicl, since the overthrow of the Roman power, has never formed an independent whole, the pride of its inhabitants and the admiration of foreigners, on account of its delicious climate and former renown, is a narrow peninsula, extending from the Alps ( $46^{\circ}$ to $38^{\circ} \mathrm{N}$. lat.) into the Mediterranean sea, which, on the cast side of Italy, is called the Adriatic, on the west, the Tuscan sea. The Apennines (q. v.), rising ncar the maritime Alps (q.v.), are the principal chain of mountains, and stretch through the country, dividing Lombarly from the Genoese territorics and Tuscany, and Tuscany from Romagua, intersecting the States of the Church, and running through the kingdom of Naples to the strait of Messina. Upper Italy (Lombardy) is remarkably well watered. The Po, which receives a great number of rivers from the large lakes at the foot of the Alps (lago Maggiore, di Lugano, di Como, d'Iseo and di Garda), and the Adige, are the principal rivers. They both rise in the Alps, and flow into the Adriatic sea. In Middle It-
aly (Tuscany and the States of the Church), are the Arno and the Tiber, which rise in the Apennines, and flow into the Tuscan sea. In Lower Italy (Naples) there are no large rivers, on account of the shortness of the course of the streams from the mountains to the sea: the Garigliano is the principal. The climate is warm, without excessive heat, and generally salubrious. The winter, even in Upper Italy, is very mild: in Naples, it hardly ever snows. The abundance and excellence of the productions of the soil correspond with the beauty of the climate. In many places, both of the north and south, there are two and even three crops a year. The volcanic character of the coasts of Lower Italy is particularly remarkable in a geological point of vicw, especially in the region of Puzzuoli and Vesuvius. The neighboring islands of the Mediterranean are distinguished by the same character. The present number of inhabitants is much inferior to the former population of this delightful country. The following table, copied from Mr. Balbi's different publications, is taken from the Revue Britannique:

| Political Divisions. | $\begin{gathered} \text { Surface in } \\ \text { sut Alics } \\ \text { sot ofthe } \\ \text { Degree. } \end{gathered}$ | Population at the Berinning of 1827. | Revenue in Donllars, about |  |
| :---: | :---: | :---: | :---: | :---: |
| Independent Italy, | 72,902 | 16,060,500 | 36,035,800 | 66,940 |
| Kingdom of the Two Sicilics, | 31,800 | 7,420,000 | 15,000,000 | 30,000 |
| Kingdonı of Sardinia,* . | 18,180 | 3,800,000 | 10,700,000 | 23,000 |
| States of the Church, | 13,000 | 2,590,000 | 5,350,000 | 6,000 |
| Graul-duchy of Tuscany | 6,324 | 1,275,000 | 3,030,000 | 4,000 |
| Duchy of Parma, | 1,660 | 440,000 | 820,000 | 1,320 |
| Duchy of Modena, with Massa and Carrara, | 1,571 | 379,000 | 713,000 | 1,780 |
| Duchy of Lucea, | 312 | 143,000 | 310,000 | 800 |
| Republic of St. Marino, | 17 | 7,000 | 11,500 | 40 |
| Principality of Monaco, | 38 | 6,500 | 71,300 |  |
| Italy subject to Foreign Powers,. | 22,030 | 5,337,000 | 22,623,000 | 52,120 |
| Austrian Italy (Lombardo-Venctian kingdom, Italian Tyrol, and part of the governinent of Trieste), | 17,800 | 4,930,000 | 21,800,000 | 50,000 |
| Freuch Italy (island of Corsiea), | 2,852 | 185,000 | 208,000 |  |
| Swiss Italy (canton of Tcssin, some parts of the Grisons, and of the Valais), . . | 1,250 | 126,000 | 98,000 | 2,120 |
| English Italy (the group of Malta), | 128 | 96,000 | 517,000 |  |
| Total, | 94,932 | 21,397,500 | 58,658,800 | 119,060 |

The national character of the Italians, naturally chcerful, but always marked by strong passions, has been rendered,

[^3]by continucd oppression, dissenibling and sclfish. The Italian, inoreover, possesses a certain acuteness and versatility, as well as a love of money, which stainp him for a merchant. In the middle agcs, Vcrice,
crowned king in 894, and emperor in 915, did not enjoy quiet till he had expelled the emperor Louis III (905), and vanquished another competitor, Rodolph of Upper Burgundy: he was cven then unable, on account of the feeble condition of the state, to defend the kingdom cffectively a gainst the invasions of the Saracens (from 890) and the Iungarians (from 899). After the assassination of Berengarius (924), Rodolph II relinquished his claims to Hugh, count of Provence, in exchange for that country. Hugh sought to strengthen the insecure throne of Italy by a bloody tyranny. His nephew, Berengarius, marquis of Ivrea, fled from his snares to Otho the Great of Germany ( 940 ), asscmbled an army of fugitives, returned, and overthrew Hugh (945), who was succeeded by his son Lothaire. Berengarius becane his first counsellor. But, after the death of Lothaire, in 950 (poisoned, it was said, by Berengarius), the latter wished to compel his widow-the beautiful Ade-laide-contrary to her inclination, to marry his son. Escaping from his cruelty and her prison, she took refuge in the castle of Canossa, where she was besieged by Berengarius II. She now applied for aid to Otho I, king of Germany, who passed the Alps, liberated her, conquered Pavia, became king of the Franks and Lombards (in 951), and married Adelaide. To a prompt submission, and the cession of Friuli, the key of Italy, which Otho gave to his brother Henry, Berengarius was indebted for permission to reign as the vassal of Otho. But, the nobles of Italy preferring new complaints against him, 10 years after, Otho returned ( 961 ), deposed him, and led him prisoner to Bamberg, and, after having been himself crowned king of Italy with the iron crown, in 961, united this kingdom with the Gcrman. Otho gave the great imperial fiefs to Germans, and granted to the Italian cities privileges that were the foundation of a free constitution, for which they soon became ripe. The growing wealth of the papal court, owing to the munificence of the French kings, which had promoted their influence on the government, so beneficial under Leo IV, and popes of a similar character, became, through the corruption of the Roman court, in the 10th century, the first cause of its decline. The clergy and the people elected the popes according to the will of the consuls and a few patricians. In the first half of the 10th century, two women disposed of the holy chair. Theodora elevated (914) her lover, John X, and Marozia, the
dauglter of Theodora, clevated her son, Johin XI, to the papal dignity. The brother of the latter, Alberic of Camerino, and his son Octavian, were absolute masters of Rome, and the last was pope, under the name of John XII, when 20 years of age (956). Otho the Great, whom he had crowned emperor in Rome, in 962 , deposed him, and chose Leo VIII in his stead; but the people, jealous of its right of election, chose Benedict V. From this time, the popes, instead of ruling the people of Rome, became dependent on them. In Lower Italy, the republics of Naples, Gaeta and Amalfi still defended their independence against the Lombard duchy of Benevento, with the more case, since the duchy had been divided ( 839 ) hetween Siconolphus of Salcrno and Radelghisius of Benevento, and subsequently among a greater number, and since with the dukes they had had a common enemy in the Saracens, who had been previously invited over from Sicily by both parties (about 830), as auxiliaries against each other, but who had settled and maintained thenselves in Apulia. The emperors Louis Il and Basilius Macedo had, with combined forces, broken the power of the Mussulmans (866); the former was, nevertheless, unable to maintain himself in Lower Italy, but the Greeks, on the contrary, gained a firmer footing, and formed, of the regions taken from the Saracens, a separate province, called the Thema of Lombardy, which continued under their dominion, though without prejudice to the liberty of the republics, upwards of a hundred years, being governcd by a catapan (gov-ernor-general) at Bari. Otho the Great himself did not succeed in driving them altogether from Italy. The marriage of his son, Otho II, with the Greek princess Theophania, put an end to his exertions for this purpose, as did the unfortunate battle at Basentello to the similar attempts renewed by Otho II (980).

Fourth Period.-From Otho the Great to Gregory VII (1073). The Dominion of the German Kings. In opposition to the designs of the count of Tusculum, who wished to supplant the absent emperor at Rome, a noble Roman, the consul Crescentius, attempted to govern Ronie under the semblance of her ancient liberty ( 980 ). Otho II, king since 973, occupied with his projects of conquest in Lower Italy, did not interfere with this administration, which became formidable to the vicious popes Boniface VII and John XV. But, when Otho III, who had reigned in Germany since 983 , raised his kinsman Greg-
bardy, which received its name from them, almost without a blow. Their government was less favorable to the arts and seiences than that of the Goths. .

Second Period.-From Alboin to Charlemagne ( 774 ), or Period of the Lombard Empire. The kingdom of the Lombards included Upper Italy, Tuscany and Umbria. Alboin also created the duchy of Benevento, in Lower Italy, with which he invested Zotto. The whole of Lombardian Italy was divided into 30 great fiefs, under dukes, counts, \&c., whieh soon beeame hcreditary. Together with the new kingdom, the coufederation of the fugitives in the lagoons still subsisted int undisturbed freedom. The islanders, by the election of their first doge, Anafesto, in 697, established a central government; and the republic of Verice was founded. (Sec Venice.) Ravenna, the seat of the exarch, with Romagna, the Pentapolis, or the five maritime cities (Rimini, Pesaro, Fano, Sinigaglia and Ancona), and almost all the coasts of Lower Italy, where Amalfi and Gaeta had dukes of their own, of the Greek nation, remained uneonquered, together with Sieily and the capital, Rome, which was governed by a patrieian in the name of the emperor. The slight dependence on the court of Byzautium disappcared almost entirely in the beginning of the eighth century, when Leo the Isaurian exasperated the orthodox Italians, by his attack on images. (See Isonoclasts.) The cities expelled his officers, and chose consuls and a senate, as in aacient times. Rome acknowledged, not indeed the power, but a certain paternal authority of its bishops, even in secular affiairs, in consequence of the respeet which their holiness procured them. The popes, in their efforts to defend the freedom of Rome against the Lombards, forsaken by the court of Byzantium, generally had recourse to the Frankish kings. In consideration of the aid expeeted against king Astolphus, pope Stephen III (753) not only anointed Pepin, who had been made king of the Franks, in 752, with the approbation of popeZaeharias, but, with the assent of the munieipality of Rome, appointed him patrician, as the imperial governor had hitherto been denominated. Charlemagne made war upon Desiderins, tho king of the Lombards, in defence of the Roman ehurch, took him prisoner in his capital, Pavia, united his empire with the Frankish inonarchy (774), and eventually gave Italy a king in his son Pcpin. But his attempts against the duchy of Benevento, the independence of
which was maintained by duke Arichis, and against the republies in Lower Italy, where Naples, Amalfi and Gaeta in particular, had beeome rieh by navigation and commerce, were unsuccessful. The exarchate, with the five cities, had already been presented to the pope by Pepin, in 756, and Charlemagne confirmed the gift, but the secular supremaey of the popes was first completed by Innoeent III, about 1200.

Third 'Period.-From Charlemagne to Otho the Great (961), or Period of the Carlovingians and Interregnum. Leo III bestowed on the king of the Franks, on Christmas day, A. D. 800, the imperial crown of the West, which needed a Charlemagne to raise it from nothing. But dislike to the Franks, whose conquest was looked upon as a new invasion of barbarians, united the free cities, Rone exeepted, more closely to the Eastern Empire. Even duriug the lifetime of Charlennagne, Frankish Italy was given to his grandson Bernard (810). But, Bernard having attempted to become independent of his unele, Louis the Debonnaire, he was deprived of the erown, and his eyes were torn out. Italy now remained a constituent part of the Frankish monarchy, till the partition of Verdun (843), when it was allotted, with the imperial dignity, and what was afterwards called Lorraine, to Lothaire I, eldest son of Louis. Lothaire left the government (850) to his son Louis II, the most estimable of the Italian prinees of the Carlovingian line. After his death (875), Italy became the apple of discord to the whole family. Charles the Bald of France first took possession of it, and, after lis death (877), Carloman, king of Bavaria, who was suceeeded, in 880, by lis brother Charles the Fat, king of Suabia, who united the whole Frankish nonarchy for the last time. His dethronement (887) was the epoch of anarchy and civil war in Italy. Berengarius, duke of Friuli, and Guido, duke of Spoleto (besides the marquis of Ivrea, the only ones remaining of the 30 great vassals), disputed the crown between them. Guido was crowned king and emperor, and, after his death (894), his son Lambert. Arnold, the Carlovingian king of the Germans, enforced his elains to the royal and imperial crown of Italy (896), but, like most of his suceessors, was able to maintain them only during his residence in the country. After the death of Lambert and Arnold (898 and 899),Louis, king of Lower Burgundy , beeame the competitor of Berengarius I; and this bold and noble prince, although
crowned king in 894, and emperor in 915 , did not enjoy quiet till he had expelled the emperor Louis III ( 905 ), and vanquished another competitor, Rodolph of Upper Burgundy: he was even then unable, on account of the feeble condition of the state, to defend the kingdom effectively against the invasions of the Saracens (from 890) and the Itungarians (from 899). After the assassination of Berengarius (924), Rodolph II relinquished his claims to Hugh, count of Provence, in exchange for that country. Hugh souglit to strengthen the insecure throne of Italy by a bloody tyranny. His nephew, Berengarius, marquis of Ivrea, fled from his snares to Otho the Great of Germany ( 940 ), assembled an army of fugitives, returned, and overthrew Hugh (945), who was succeeded by his son Lothaire. Berengarius becaune his first counsellor. But, after the death of Lothaire, in 950 (poisoned, it was said, by Berengarius), the latter wished to compel his widow-the beautiful Ade-laide-contrary to her inclination, to marry his son. Escaping from his cruelty and her prison, she took refuge in the castle of Canossa, where she was besieged by Berengarius II. She now applied for aid to Otho I, king of Germany, who passed the Alps, liberated her, conquered Pavia, became king of the Franks and Lombards (in 951), and married Adelaide. To a prompt submission, and the cession of Friuli, the key of Italy, which Otho gave to his brother Henry, Berengarius was indebted for permission to reign as the vassal of Otho. But, the nobles of Italy preferring new complaints against him, 10 years after, Otho returned ( 961 ), deposed him, and led him prisoner to Bamberg, and, after having been himself crowned king of Italy with the iron crown, in 961 , united this kingdom with the German. Otho gave the great imperial fiefs to Germans, and granted to the Italian cities privileges that were the foundation of a free constitution, for which they soon became ripe. The growing wealth of the papal court, owing to the munificence of the French kings, which had promoted their influence on the government, so beneficial under Leo IV, and popes of a similar character, became, through the corruption of the Roman court, in the 10th century, the first cause of its decline. The clergy and the people elected the popes according to the will of the consuls and a few patricians. In the first half of the 10 th century, two women disposed of the holy chair. Theodora elevated (914) her lover, John X, and Marozia, the
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Fourth Period.-From Otho the Great to Gregory VII (1073). The Dominion of the German Kings. In opposition to the designs of the count of Tusculum, who wished to supplant the absent emperor at Rome, a noble Roman, the consul Crescentius, attempted to govern Rome under the semblance of her ancient liberty (980). Otho II, king since 973, occupied with his projects of conquest in Lower Italy, did not interfere with this administration, which became formidable to the vicious popes Boniface VII and John XV. But, when Otho III, who had reigned in Germany since 983 , raised his kinsman Greg.
ory V to the popedom, Crescentius caused the latter to be expelled, and John XVI, a Greek, to be cleeted by the people. IIe also endeavored to place Rome again under the nominal supremaey of the Byzantine empire. Otho, however, reinstated Gregory, besieged Creseentius in the castle of St. Angelo, took him prisoner, and eaused him to be beheaded with 12 other noble Romans (998). But the Romans again threw off their allegiance to the emperor, and yielded only to foree. On the death of Otho III (1002), the Italians considered their connexion with the German empire as dissolved. Harduin, marquis of Ivrea, was elected king, and erowned at Pavia. This was a sufficient motive for Milan, the enemy of Pavia, to declare for Henry II (in Italy, I) of Germany. A civil war ensued, in which every city, relying on its walls, took a greater or less part. Henry was ehosen king of Italy, by the nobles assembled in Pavia ; but disturbances arose, in whieh a part of the eity was destroyed by fire (A. D. 1004). Not till after Harduin's death (1015) was Henry reeognised as king by all Lombardy; he was sueeeeded by Conrad II (in Italy, I). At a diet held at Roneaglia, near Piaeenza, in 1037, Conrad made the fiefs liereditary by a fundamental law of the empire, and endeavored to give stability and tranquillity to the state, but without suceess. The eities ( whieh were daily becoming more powerful) and the bishops were engaged in continual quarrels with the nobility, and the nobility with their vassals, which could not be repressed. Republican Rome, under the influenee of the family of Creseentius, eould be reduced to obedience neither by Henry II and Comrad II nor by the popes. When Henry III (in Italy, II), the son and suecessor of Conrad (1039), entered Italy (1046), Lhe found three popes in Rome, all of whom he deposed, appointed in their stead Clement II, and ever after filled the papal chair, by his own authority, with virtuous German ceclesiastics. This reform gave the popes new eonsequence, whieh afterwards became fatal to his suceessor. Henry died in 1056. During the long minority of his son Henry IV (in Italy, III), the poliey of the popes, directed by the mouk Hildebrand (afterwards Gregory VII), sueceeded in ereating an opposition, which soon became formidable to the secular power. (See Pope.) The Normans also contributed to this result. As early as 1016, warriors from Normandy had established themselves in Calabria and Apulia. Allies sometimes of the Lom-
bards, sometimes of the republics, sometimes of the Greeks against each other and against the Saraeens, they constantly beeame more powerful by petty wars. The great preparations of Leo IX for their expulsion terminated in his defeat and eapture (1053). On the other hand, Nieolas II united with the Norman prinees, and, in 1059, invested Robert Guiseard with all the territories conquered by him in Lower Italy. From that time, the pope, in his conflicts with the imperial power, relied on the support of his faithful vassal, the duke of Apulia and Calabria, to whieh Sicily was soon added. While the small states of the south were thus united into one large one, the kingdom in the north was dissolving into smaller states. The Lombard cities were laying the foundation of their future importance. Venice, Genoa and Pisa were already powerful. The Pisanese, who, in 980, had given to Otho II efficient aid against the Greeks in Lower Italy, and, in 1005 , boldly attaeked the Saracens there, veutured, in eonnexion with the Genoese (no less warlike and skilled in navigation), to assail the infidels in their own territory, and twiee eonquered Sardinia (1017 and 1050), which they divided into several large fiefs, and distributed them among their principal eitizens.

Fifth Period.-From Gregory VII to the Fall of the Hohenstaufen. Struggles of the Popes and Republics with the Emperors. Gregory VII humbled IIenry IV in $10 \%$. Urban II instigated the einperor's own sons against their father. Conrad, the eldest, was erowned king of Italy in 1093, after whose death (1101) Henry, the seeoud son, sueceeded in deposing lis father from the imperial throne. Heury $\mathbf{V}$, the creature of the pope, soon bccame his opponent; but, after a severe confliet, concluded with him the concordate of Worms (1122). 1 main point, whieh remained unsettled, gave rise to new difficulties in the 12 th and 13 th eenturies-the estate of Matilda, marchioness of Tuseany, who (died 1115), by a will, the validity of which was disputed by the emperor, bequeathed all her property to the papal see. Meanwhile, in the south, the Norman state (1130), under Roger I, was formed into a kingdom, from the ruins of republiean liberty and of the Greek and Lombard dominion. (See Sicilies, the Two.) In the small republics of the north of Italy, the government was, in most cases, divided between the consuls, the lesser couneil (credenza), the great council, and the popular assembly (parlamento). Petty feuds
developed their youthful energies. Such were those that terminated with the destruction of Lodi by Milan (1111), and the ten years' siege of Corno by the forces of all the Lombard cities (1118-1128). The subjugation of this city rendered Milan the first power in Lombardy, and most of the neighboring cities were her allies. Others formed a counter alliance with her antagonist, Pavia. Disputes between Milan and Cremona were the oecasion of the first war between the two unions (1129), to which the contest of Lothaire 1I and Conrad of Hohenstaufen for the crown, soon gave another direction. This was the origin of the Gibelines (favorers of the emperor) and the Guelfs (the adherents of the fanily of Guelfs (q.v.), and, in general, the party of the popes). In Rome, the love of liberty, restrained by Gregory VII, rose in proportion as his successors ruled with less energy. The schisms between Gelasius II and Gregory VIII, Innocent II and Anacletus II, reHewed the hopes of the Romans. Arnold of Brescia, formerly proscribed (1139) for his violent attacks against the luxury of the clergy in that country, was their leader (1146). After cight years, Adrian IV succeeded in effecting his execution. Frederic I of Hohenstaufen (called Barbarossa) crossed the Alps six times, in ordcr to defend his possessions in Italy against the republicanism of the Lombard cities. Embracing the cause of Pavia as the weaker, he devastated (1154) the territory of Milan, destroyed Tortona, and was crowned in Pavia and Rome. In 1158, he reduced Milan, demolished the fortifications of Piacenza, and held a diet at Roncaglia, where he extended the imperial prerogatives conformably with the Justinian code, gave the cities chief magistrates (podestü), and proclaimed a general peace. His rigor having excited a new rebellion, he reduced Crima to ashes (1160), compelled Milan to submission, and, having driven out all the inhabitants, demolished the fortifications (1162). Nothing, however, but the terror of his arms upheld his power. When the empcror entered Italy (1163) without an arny, the cities concluded a union for maintaining their frecdom, which, in 1167, was converted into the Lombard confederacy. The confederates restored Milan, and, to hold in check the Gibeline city of Pavia, built a new city, called, in honor of the pope, .Ilessundria. Neither Frederic's govern0:, Cluristian, archbishop of Mentz, nor he liinself, could effect any thing against the coufederacy; the former failed before

Ancona (1174), with all the power of Gibeline Tuscany; and the latter, with the Germans, hefore Alexandria (1175). He was also defeated by Milan, at Legnano, in 1176. He then concluded a concordate with Alexander III, and a truce with the cities (1176), at Yenice, and a peacc, which serured their independence, at Constance (1183). The republies retained the podestì (foreign noblemen, now elected by themselves) as judges and generals. As formerly, all were to take the oath of fealy and allegiance to the emperor. But, instead of strengthening their league into a permanent confederacy (the only safety for Italy), they were soon split into new factions, when the designs of the Hohenstaufen on the throne of Sicily drew Frederic and Henry VI (V) fronn Lombardy. The defeat of the united forces of almost all Lombardy, on the Oglio, by the inhabitants of Brescia, though inferior in numbers, is celebrated under the name of La mala morte (1197). Among the nobles, the Da Romano were the chiefs of the Gibelines, and the marquises of Este of the Guelfs. During the minority of Frederic II, and the disputes for the succession to the German throne, Innocont III (Fredcric's guardian) succeeded in reëstablishing the secular authority of the holy sce in Rome and the surrounding country, and in enforcing its claims to the donations of Charlemagne and Matilda. He also brought over almost all Tuseany, except Pisa, to the party of the Guelfs (1197). A blind hereditary hatred, rather than a zeal for the cause, inspired the partics ; for when a Guelf(Otho IV) aseended the imperial throne, the Guelfs became his party, and the Gibelines the pope's; but the reversion of the imperial crown to the house of Hohenstaufen, in the person of Frederic II, soon restored the ancient relations (1212). In Florence, this party spirit gave pretence and aliment (1215) to the disputes of the Buondelmonti and Donati with the Uberti and Amidei, originating in private causes; and most cities were thus internally divided into Guelfs and Gibelines. The Guelf cities of Lombardy renewed the Lombard confederary, in 1220. The Dominican, John of Vicenza, attacked these civil wars. The aisembly at Paquara (1233) seemed to crown his exertions with suecess ; but his attempt to obtain secular power in Vicen7a occasioicd his fall. After the emperor had returned from lis erusade (1230), he waged war, with varying success, against the cities and against Gregory IX, heedless of the excominunication, while Ezze-
lin da Romano, under the pretence of favoring the Gibelines, established, ly every kind of violenee, his own power in Padna, Verona, Vicenza and the neighlorhood. The papal court succeeded in seducing the Pisamese family of the Visconti of Gallura in Sardinia, from the republie, and rendering them its vassals, notwithstanding the resistanee of the repullie, and especially of the counts of Gherardesca. Thence Pisa, too, was diviled into Gibelines (Conti) and Guelfs (Visconti). Frederic, however, married lis natural son, Enzius, to a Visconti, and gave him the title of king of Sardinia. The plan of Gregory IX, to depose Frederic, was successfully executed by Innocent IV, in the eouneil of Lyons (1245). This completely weakened the Gibeline party, which was already nearly undermined by the intrigucs of the mendicant orders. The faithful Perma revolted; the triumph of the Gibelines in Florence (1248) lasted only two years ; and their second victory, after the battle of Monte Aperto (1260), gave them the ascendeney but six years. The Bolognese united all the cities of Italy in a Guelf leaguc, and, in the batte of the Panaro (1249), took Enzius prisoner, whom they never released. In the Trevisum Mark alone, the Gibelines posscssed the supremacy, by means of Ezzelin, till he fell before a erusade of all the Guelfs against him (1255). But these contests were fatal to liberty; the house Della Scala followed that of Romano in the doninion, and Milan isself, with a great part of Lombardy, found masters in the house Della Torre." Tyrants every where arose; the maritine repmblics and the republic of 'Tuscany alone remained free.

Sixth Period.-From the Fall of the Hohenstaufen to the Formation of the modern states. In this period, different princes attempted to usurp the sovereignty of Italy.-1. The Princes of Anjou. After Charles I of Anjou had become, by the favor of the pope, king of Naples, senator of Ronnc, papal vicar in 'Tuscany, and had directed lis unbition to the throne of Italy (a policy in whieh his suecessors persevered), the names of Guelfs and Gibctines aequired a new signification. The former denoted the friends, the latter the enemies, of the French. To these fiections were added, in the republics, the partics of the nobility and the people, the latter of whieh was almost univenally victorions. The honest excrtions of the noble Gregory X (who (lied 127i) to estubllish peace, were of no avail; those of Nicolas III, who feared the preponderance vol. Vil.
of Charles, were more efficient ; but Martin IV (1200), servilely revoted to Charles, destroyed every thing which had been effected, and persecuted the Gibclines with new animosity. A different interestthat of trade and navigation-impelled the maritime republics to mutual wars. The Genoesc assisted Michael Palæologus (1261) to recover Constantinople from the Venetians, and received in return Chios; at Mcloria, they annihilated (1284) the navy of the Pisans, and completed their dominion of the sea by a victory over the Venctians at Curzola (1298). Florence rendered its demoeracy complete by the banishment of all the nobles (1282), and strengthened the Guelf party by wise measures; but a new schism, caused by the insignificant Pistoia, soon divided the Guelfs in Florcnce and all Tuscany into two fuetionsthe Neri (Black) and Bianchi (White) (1300). The latter were almost all expelled by the intrigues of Boniface VIII, and joined the Gibelines (1302). In Lombardy, freelom seemed to have expired, when the people, weary of the everlasting fends of their tyrants, rose in most of the cities, and expelled them (1302-6), including the Visconti, who had supplanted the Della Torre (1277) in the government of Milan.-2. The Germans and the Della Scala. Heury VII, the first emperor who had appeared in Italy for 60 years (1310), restored the princes to their cities, and found general subnission to his requisitions, peaee among the parties, and homage to the empire. Florenec alone undertook the glorious part which she so nobly sustained for two centuries, as the guardian of Italian freedom, chose Robert of Naples, the enenny of Henry, her protector for five years, and remained fice while Italy swarmed with tyrants. The Gibelisie Pisa received a master after the death of Henry, in Ugnccione della Fagginola (1314). After his expulsion, Lacca, which he also ruled, reccived another lord in Castruccio Castracani (1316); Padua fell (1318) to the honse of Carrara ; Alexandria, Tortona (1315) and Crimona (1322) to the Viseonti of Milan; Mantua (gorenned, sinee 1275 , by the Bonaeossi), devolved, by inheritance, to the Gonzagas (1328); in Ferrara, the long-contested dominion of the Este was established (1317); and Ravenna was governed, from 1273, by the Polenta. In the other cities, the same tyramny existed, hut frequently changing from family to fanily, and therefore more oppressive. These petty princes, cspecially Della Seala, Matteo Visconti, and Ciastruccio, were a counter-
poise to the ambitious views of Robert of Naples, appointed by Clement V inperial vicar in Italy. Robert, however, acquired for his son, Charles of Calabrio, the government of Florence and Sienna, which he retained till his death (1328). Louis of Bavaria, who came to Italy (1327) to reduce the Anjous and the Guelfs, became himself at variance with the Gibelines, whom he alienated by lis eapriee and perfidy ; and the character of John XXII so cooled the zeal of the Guelfs, that both parties, recognising the conmon interest of liberty, beeame somewhat more friendly. The amiable adventurer John, king of Bohemia, suddenly entered Italy ( 1330 ). Invited by the inhabitants of Brescia, favored by the pope, elected lord of Lucca, every where acting the part of a mediator and peacemaker, he would have sueceeded in establishing the power at which he aimed, had he not been opposed by the Florentines. On his second expedition to Italy (1333), Azzo Viseonti, Mastino della Scala, and Robert of Naples, united against him and lis ally, the papal legate Bertrand of Poiet, who aspired to the dominion of Bologna. After the downfall of both (1334), when the Pepoli began to rule in Bologna, Mastino della Seala, master of half Lombardy and of Lueca, began to menace the freedom of Lombardy. Florence led the opposition against him, and exeited a war of the league, in which it gained nothing but the security of its liberty. After the baflied Mastino had sold Lucca to the Florentines, the Pisans arose, and eonquered it for themselves (1342). In Rome, torn by aristocrats, Cola Rienzi (1347) sought to restore order and tranquillity ; he was appointed tribune of the people, but was foreed, after seven months, to yield to the nobility. Having returned, after seven years of banishment, with the legate cardinal Albornoz (1354), he ruled again a short tine, when he was murdered in an insurrection. The Genoese, tired of the perpetual disputes of the Gibeline Spinolas and Dorias with the Guelf Grimaldi and Fiesehi, banished all these families in 1339, and made Simon Boceanegra their first doge. In Pisa, the Gibelines, the council of the captain-general, Rieciani della Gherardesea, separated into two new parties, Bergolini and Raspanti, of whom the former, under Andrea Gambaeorti, expelled the latter (1348). About this time, 1taly suffered by a terrible famine (1347) and a still more terrible pestilenee (1348), which swept away two thirds of the population. No less terrible was the scourge of the bande (banditti), or
large compauies of soldiers, who, after every peace, continued the war on their own aceount, ravaging the whole comntry with fire and sworl; such as the bands of the count Werner ( 1318 ) and of Montreal (1354).-3. The Viscont2. John Visconti, arehbishop and lord of Milan, and his successors, were elrecked in their dangerous projects for extending their power, not so mueh by Charles IV's expedition through Italy, and by the exertions of innumerable papal legates, as by the wisdom and intrepidity of the republies, especially of the Florentine. Charles appeared in 1355, overthrew in Pisa the Gambacorti, elevating the Raspanti, destroyed in Sienna the dominion of the Nine, to which succeeded that of the 'Twelve, subjected for the noment all Tuseany, and compelled Florence itself to purchase the title of an imperial city. In 1363, he effected but little against the Visconti, freed Lucea from the l'isanese power, and overthrew the Twelve in Sienna; but lis attacks on the liberty of Pisa and Sienna failed in consequence of the valor of the citizens. Pope Innocent VI succeeded in conquering the whole of the States of the Chureh by means of the cardinal legate Egidius Albornoz (135460 ) ; but, reduced to extremities by the oppressions of the legates, and eneouraged by Florence, the enemy of all tyranny, the conquered eities revolted in 1375. The cruelties of eardinal Robert of Geneva (afterwards Clement VII), and of his band of soldiers from Bretagne, produced only a partial subjugation; and in the great schism, the freedom of these cities, or rather the power of their petty tyrants, was fully confirmed. The Visconti, meanwhile, persisting in their sehemes of conquest, arrayed the whole strength of Italy in opposition to them, and caused the old factions of Guelfs and Gibelines to be forgotten in the impending danger. Genoa subinitted to John Visconti (1353), who had purchased Bologna from the Pepoli (1350); but his enterprise against Tuscany failed through the resistance of the confederated Tusean republics. Another league against him was concluded by the Venetians (1354) with the petty tyrauts of Lombardy. But the union of the Florentines with the Visconti against the papal legates (1375), eontinued but a short time. In Florence, the Guelfs were divided into the parties of the Ricei and the Albizzi. The sedition of the Ciompi (1378), to which this gave rise, was quelled by Miehael di Lando, who had been elected gonfaloniere by themselves, in a way no less manly than disinterested. The Venetians, irri-
tated with Carrara on account of the assistance he had given the Genoese in the war at Chiozza (1379), looked quietly on while John Galeazzo Visconti deprived the Della Scala and Carrara of all their possessions (1387 and 1388), and Florence alone assisted the unfortunate princes. Francis Carrara made himself again master of Padua (1390), and maintained his advantages, till he sunk under the cnmity of the Venetians (1406), who, changing their policy, became henceforth, instead of the opponents, the rivals of the ambitious views of the Visconti. Joln Galeazzo obtained from the emperor Wenceslaus the investiture of Milan as a duchy (1395), purchased Pisa (which his natural ron Gabriel bargained away to Florence, 1405) from the tyrant Gerard of Appiano (who reserved only the principality of Piombino), and subjugated Sienna (1393), Perugia (1400) and Bologna (1402), so that Florence, fearfully menaced, alone stood against him in the cause of liberty. On his death (1402), the prospect brightened, and, during the minority of his sons, a great portion of his states was lost. When Ladislaus of Naples, taking advantage of the schisur, made himself master of all the Ecclesiastical States, and threatened to conquer all Italy (1409), Florence again alone dared to resist hinn. But this danger was transitory; the Visconti soon rose up again in opposition. Duke Philip Maria reconquered all his states of Lombardy, ly means of the great Cammagnola (1416 -20). Genoa, also, which was sometimes given up, in nominal frecdorn, to stormy factions (of the Fregosi, Adorni, Montalto, Guarco), and at other times was subject to France (1396), or to the marquis of Montferrat (1411), submitted to him (1421). Florence subsequently entered into an alliance against him with the Venctians (1425); and by means of Carınagnola, who had now come over to them, they conquered the whole country as far as the Adda, and retained it in the peace of Ferrara (1428). In Perugia, the great condottiere Braccio da Montone, of the party of the Baglioni, succeeded in becoming master of this city and of all Umbria, and, for a period, even of Rome (1416). In Sienna, the Petrucci attained a permanent dominion (1430). -4. Balance of the Italian States. After Milan had been enfeebled by the Venetians and Florentines, and while Alphonso of Arragon was constantly disturbed in Naples (see $\mathcal{N a p l e s}$ ) by the Anjou party, no dangerous predominance of power existed in Italy, though mutual jealousy still excited frequent wars, in which two
parties among the Italian mercenary soldiers, the Bracheschi (from Braccio da Montone) and the Sforzeschi (so called from Sforza Attendolo), continued always hostile to each other, contrary to the custom of those mercenary bands. After the extinction of the Visconti (1447), Francis Sforza succeeded in gaining possession of the Milanese state (1450). (See .Milan.) The Venctians, who aimed at territorial aggrandizement, having formed a connexion with some princes against him, he found an ally in Florence, which, with a change of circurrstances, wisely altered her policy. About this time, the family of the Medici attained to power in that city by their wealth and talent. (Sce Medici.) Milan (where the Sforza had established themselves), Venice (which possessed half of Lombardy), Florence (wisely managed by Lorenzo Medici), the States of the Clurch (for the most part restored to the holy see), and Naples (which was incapable of employing its forces in direct attacks on other states), constituted, in the 15 th century, the political balance of Italy, which, during the manifold feuds of these states, permitted no one to become dangerous to the indcpendence of the rest, till 1494, when Charles VIII of France entered Italy to conquer Naples, and Louis Moro Sforza played the part first of lis ally, then of his enemy, while the pope, Alexander VI, eagerly sought the friendship of the French, to promote the exaltation of his son, Cæsar Borgia.-5. Contrst of foreign Powers for Provinces in Italy. Charles VIII was compelled to cvacuate Naples and all Italy; his successor, Louis XII, was also expelled, by Ferdinand the Catholic, from Naples (conquered in 1504). He was more successful against Milan, which, supported by hereditary claims, he subjected to himself in 1500 . Cæsar Borgia's attempts to acquire the sovereignty of Italy were frustrated by the death of his father (1505); when the warlike pope, Julius II, completed the subjugation of the States of the Church, not, indecd, for a son or nepliew, but in the name of the holy see. He concluded with Maximilian I, Ferdinand the Catholic, and Louis XII, the league of Cambray (1508) against the ambitious policy of the Venetians, who artfully succeeded in dissolving the leaguc, which threatened them with destruction. The pope then formed a league with the Venetians themselves, Spain, and the Swiss, for the purpose of driving the French from Italy. This holy league (1509) did not, however, then attain its object, although Julius was little affected by the

Fronch and German council held at Pisa to depose him. Max. Storza, who had reacquired Milan (1512), relinquished it without reserve to Francis I ( 1515 ) ; but the emperor Charles $V$ assumed it as a reverted fief of the empire, and conferred it onFrancesco Sforza, brother of Maximilian (1520). This was the cause of violent wars, in which the efforts of Francis were always unsuccessful. He was taken prisoner at Pavia (1525), and, with his other claims, was compelled to renonnce those on Milan, which remained to Sforza, and, after his death ( 1540 ), was granted by Charles V to his son Philip. The Medicean popes, Leo $\mathbf{X}(1513)$ and Clement VH (1523), were bent, for the most part, on the aggrandizement of their family. Charles V, to whom all Italy submitted after the battle of Pavia, finstrated, indeed, the attempts of Clement VII to weaken his power, and conquered and pillaged Rome (1527); but, being reconciled with the pope, he raised ( 1530 ) the Medici to princely authority. Florence, incensed at the foolish conduct of Pietro towards France, had banished the Medici, in 1494, but recalled them in 1512, and was now compelled to take a station among the principalities, under duke Alexander I de' Medici. Italian policy, of which Florence had hitherto been the soul, from this period, is destitute of a common spirit, and the hisiory of Italy is therefore destiture of a central point.

Seventh Period.- Mutations of the Italian States down to the French Revolution. After the extinction of the male branch of the marquises of Montferrat, Charles V gave this country to the Gonzaga of Mantua (1536). Maximilian II subsequently (1573) raised Montferrat to a duchy. The Florentines failed ( 1537 ) in a new attempt to cmancipate themselves after the murder of duke Alexander. Cosmo I succceded him in the government, by the influence of Charles V. Parma and Piacenza, which Julins II had conquered for the papal see, Paul IH erected into a duchy ( 1545 ), which he gave to his natural son, Peter Alois Farnese, whose son Ottavio obtained the imperial investiture in 1556 . Genoa (see Genoa), subject to the French since 1499, found a delivcrer in Andrew Doria (1523). He founded the aristocracy, and the conspiracy of Fiesco ( 1547 ) failed to subvert him. In 1553, besides Milan, Charles V conferred Naples also on his son Philip 1I. By the peace of Chateau-Cambresis (1559), Philip II and Henry II, of France, renounced all their clains to Piedmont, which was
restored to its rightful sovereign, duke Enannel Philibert of Savoy, the brave Spanislı general. The legitimate male lime of the house of Este became extinet in 1597, when the illegitimate Casaro of Fiste obtained Modena and Keggio from the empire, and Ferrara was coufiscated as a reverted fief by the holy see. In the second half of the 16 th century, the prosperity of Italy was increased by a long peace, as much as the loss of its commerce allowed,-Henry IV of France having, by the treaty of Lyons, ceded Sahuzzo, the last French possession in Italy, to Savoy. The tranquillity continued till the contest for the snccession of Mantua and Montferrat, after the extinction of the Gonzaga family (1627). Misfortunes in Germany compelled Ferdinand II to confer looth commtries (1631), as a fief on Charles of Nevers, the protegge of France, whose fanily remained in possession till the war of Spanish succession. In the peace of Chierasco (1631), Richelieu's diplomacy acquired also Pignerol and Casale-strong points of support, in case of new invasions of Italy, though he had to relinquish the latter (1637). By the extinction of the house Della Rovera, the duchy of Urbino, with which Julius II had invested it, devolved, in 1631, to the papal see. In the sccond half of the 17 th ecntury, the peace of Italy was not interrupted, excepting by the attempts of Louis XIV on Savoy and Piedmont, and appeared to le secured for a long time, by the treaty of neutrality at Turin (1696), when the war of Spanish succession broke out. Anstria conquererl Milan, Mantua and Montferrat (1706), retained the two first (Mantna was forfeited by the felony of the duke), and gave the latter to Savoy. In the peace of U'trecht (1714), Austria obtained, moreover, Sardinia and Naples ; Savoy obtained Sicily, which it exchanged with Austria for Sarrinia, from which it assumed the royal title. Mont Genievre was made the boundary between France and Italy. The housc of Farnese becoming extinct in 1731, the Spanish Infant Charles obtained Parma and Piacenza. In the war for the Polish throne, of 1733, Charles Emmanuel of Savoy, in alliance with France and Spain, conquered the Milanese territory, and reccived therefrom, in the peace of Vienna (1738), Novara and Tortona. Charles, Infant of Spain, became king of the Two Sicilies, and ceded Parma and Piacenza to Austria. The Medici of Florence, entitled, since 1575 , grand-rlukes of 'Tuscany, hecame extinct in 1737. Francis Stephan, duke of Lorraine, now re-
eeived Tuscany by the preliminaries of Vienna, and, becoming emperor in 1745 , made it the appanage of the younger line of the Austro-Lorraine house. In the war of Austrian succession, the Spaniards conquered Milan (1745), but were expelled thence by Charles Emmanuel, to whom Maria Theresa ceded, in reward, some Milanese districts, viz. all of Vigevanasco and Bobbio, and part of Anghiera and Pavese. Massa and Carrara fell to Modena, in 1743 , by right of inheritance. The Spanish Infant, don Philip, conquered Parma and Piacenza in his own name, lost them, and obtained them again as a hereditary duchy, by the peace of Aix-la-Chapelle (1748). Thus, in the 18 th century, the houses of Lorraine, Bourbon and Savoy possessed all Italy, with the exception of the ecclesiastical territories, Modena and the republies, which, like a superannuated man, beheld with apathy operations in which they had no share. A quiet of 40 years ushered in their downfall.

Eighth Period.-From the French RevoIution to the present Time. In September, 1792, the French troops first penetrated into Savoy, and planted the tree of hiberty. Though expelled for some time, in 1793 , by the Piedmontese and Austrians, they held it at the end of the year. The national convention had already declared war against Naples, in Fcbruary, 1793. In April, 1794, the French advanced into the Picdmontese and Gcnoese territories, but were expelled from Italy in July, 1795, by the Austrians, Sardinians and Neapolitans. In 1796, Napoleon Bonaparte reccived the chief command of the French army in Italy. He forced the king of' Sardinia to conclude a treaty of peace, by which the latter was obliged to cede Nizza (Nice) and Savoy to France ; conquered Austrian Lombardy, with the cxception of Mantua ; put the duke of Parma and the pope under contribution; and struck such consternation into the king of Naples, that he begged for peace. After Mantua had also fallen, in 1797 , Bonaparte formed of Milan, Mantua, the portion of Parma north of the Po, and Modena, the ©isalpine republic. (SeeCisalpine Republic.) Ir rance likewise made war on the pope, and amnexed Bologna, Fcrrara and Romagna to the Cisalpine republic (1797), by the peace of Tolentino. The French then advanced towards Rome, overthrew the ecclesiastical government, and erected a Roman republic (1798). In Genoa, Bonaparte occasioncd a revolution, by which a democratic republic was formed after
the model of the French, under the name of the Ligurian republic. The French had, meanwhile, penetrated into Austria, through the Venetian territory. The Venctians now made common cause with the brave Tyrolese, who gained advantages over the French in their Alps. Bonaparte, therefore, occupied Venice without striking a blow, and gave the republic a democratic constitution; but, by the peace of Campo-Formio (17th Oct., 1797), the Venetian territory, as far as the Adige, was relinquished to Austria, and the rest incorporated with the Cisalpine republic. The king of Sardinia concluded a treaty of alliance and subsidy with France, October 25 ; but, in 1798, the directory, assailed in Rome from Naples, deemed it expedient to compel him to resign his territories on the main land. Notwithstanding its treaty of amity with France, Naples concluded an alliance, in 1798, with England and Russia. 'The French, therefore, occupied Naples, and crected there the Parthenopean republic. The grand-duke of Tuscany had likewise formed an alliance with Naples and England, and his country was, in return, compelled by the French to rcceive, like Piedmont, a military administration. After the congress of Rastadt (q. v.) was broken off, Austria and the German empire, under Russian support, renewed the war against the Frencli, who again left Naples and Rome to the English, Russians and Turks. The king and the pope returned to their capitals in Lombardy ; the French were dcfeated by the Austrians, under Kray and Melas, and by the Russians, under Suwarroff, and lost all their fortresses, cxcept Genoa, where Massena sustained a vigorous siege, while his countrymen had to evacuate all Italy. But, in the meanwhike, Bonaparte was made first consul after his return from Egypt. (See Egypt, Campaign of the French in.) He marched with a new army to Italy, dcfeated the Austrians at the memorable battle of Marengo (1800), and compelled them to a capitulation, by which all the Italian fortresses were again evacuated. By the peace of Luneville (q. v.), Feb. 9, 1801, the possession of Venice was confirmed to Austria, which was to indemnify the duke of Modena, by the cession of Brisgan. The duke of Parma received Tuscany, and afterwards, from Bonaparte, the title of king of Etruria. Parna was united with France. The Cisalpine and Ligurian republics were guarantied by Austria and France, and with the Ligurian territories were united the imperial fiefs
included within their limits. The king of Naples, who had orcupied the States of the Church, was obliged to conclude peace at Florence (28th of March). By Russian mediation, he escaped with the cession of Pionnbino, the Stato derli Presidj, and his half of the island of Elba, together with the promise of closing his harbors against the English. The other lulf of Elba Tuscany had already relinquished to France. But the whole iskand was obstinately defended by the English and Corsicans, with the armed inhabitants, and not evacuated till autumn. The Stato degli Presidj France ceded to Etruria, September 19. Strong detachments of French troops remained both in Naples and Tuscany, and their support cost immense sums. To the republics of Genoa and Lucca the first consul gave new constitutions in 1801. But in January, 1802, the Cisalpine republic was transformed into the Italian republic, in imitation of the new Freuch constitution, and Bonaparte became president. He appointed the citizen Melzi d'Erile vice-president. Genoa also received a new constitution, and Girolamo Durazzo for doge. Piedmout, however, was united with France. After Bonaparte had become emperor, in 1804, he attached (March 17, 1805) the royal crown of Italy to the new inperial crown; he promised, however, never to unite the new monarchy with France, and even to give it a king of its own. The new constitution was similar to that of the French empire. Napoleon founded the order of the iron crown, and, having placed the crown on his own head, at Milan, May 26, and Genoa having been united with France, May 25, he appointed his step-son, Eugene Beauharnais, viceroy of Italy, who labored with great zeal for the improvement of all branches of the government, of industry and the arts. Circumstances, however, rendered this new government oppressive, as the public expenses, during peace, amounted to $100,000,000$ francs, which were all to be contributed by less than $4,000,000$ people. No European power recognised, expresslv, the Italian kingdom of Napoleon. The emperor continued to strengthen his power against the active enemies of the new order of things, and gave to his sister Eliza the principality of Piombino, and to her husband, Pasquale Bacciocchi, the republic of Lucca, as a principality, both as French fiefs. Parma, Piacenza and Guastalla were incorporated with the French empire, July 21st. The pope was obliged to sanction the imperial corona-
tion by his presence. Austria now acreded to the alliance of Russia and England against France. Naples, also, again suffered the Cinglish and Russians to laud. But the success of the Austrian amns was frustrated by the defeats at Ulim and Musterlitz, after which the peace of Presburg (December 26th, 1805) completed the French supremacy in Italy. Austrian Venice, with Istria and Dalmatia, was united to the kingdom of Italy ; and this, with all the French institutions, Italy recognised. The kingdom had now an ertent of 35,450 square miles, with $5,657,000$ inhabitants. Naples was evacuated by ita auxiliaries, and occupied by the French, notwithstanding the attempts of the queen to excite a universal insurrection. Mareh 31, Napoleon gave the crown of Naples to lis lirother Joseph. In vain did the priner of Hesse-Philippsthal defend the fortress Gaeta. In vain did an insurrection break out in Calabria, encomraged by the English, who, under general Strait, defeated the French at Meida, July 4, and conquered several fortified places on the coast ; but, after Gaeta had fallen (July 18), and Massena penetrated as far as Calabria, they reëmbarked. As the English, however, were masters of the sea, Sicily was secured to king Ferdinand. In 1808, the widow of the king of Etruria, who conducter the regency in behalf of her minor son, was deprived of her kingdom, which was united with France. Napoleon, moreover, appointed his brother-inlaw, the prince Borghese, governor-general of the departments beyond the Alps, who took up his residence at Turin. As Napoleon had, meanwhile, given his brother Joseph the crown of Spain (who reluctantly left Naples, where he was much esteemed, as he had, within this short time, laid the foundation of the most essential improvements), he filled the throne of Naples with his brother-inlaw Joachim Murat, until that period grand-duke of Berg, who entered Naples Sept. 6, 1808. In 1809, the emperor gave Tuscany to his sister Eliza, of Piombino, with the title of grand-duchess. In the same year, Austria made new exertions to break the excessive power of France ; but Napoleon again drove har troops from the field, and appeared once more victorions in Viemua, where lie proclaimed (May 17) the end of the secular authority of the popes (a measure of which his downfall has delayed the execution), and the union of the States of the Chureh with France. Roine becane the second city of the empire, and a pension
of $2,000,000$ of franes was assigned to the pope. After the peace of Vieuna, by which Napoleon acquired the Illyrian provinces, Istria and Dalmatia werc separated from the kingdom of Italy and attached to them. On the other hand, Bavaria ceded to Italy the circlc of the Adige, a part of Eisach, and the jurisdiction of Clausen. The power of the French emperor was now, to all appearance, firmly established in Italy as in all Europe. While the Italian poople werc supporting French armics, sacrificing their own troops in the ambitious wars of Napoleon in remote regions, and werc obligcd to pay heavy taxes in the nidst of the total ruin of their commerce, all the periodicals were full of praises of the institutions for the encouragement of science, arts and industry in Italy. After the fatal retreat from Russia, Murat, whom Napolcon had personally offended, deserted the cause of Fratace, and joined Austria, Jan. 11, 1814, whose army penetrated into Italy, under Bellegarde. The viceroy, Eugene, continued truc to Napoleon and his own character, and offered to the cnemies of his dynasty the boldest resistance, which was frustrated by the fall of Napoleon in France. After the truce of April 21, 1814, the French troops evacuated all Italy, and most of the provinces were restored to their legitimate sovereigns. The wife of Napoleon, however, the empress Maria Louisa, obtained the duchies of Parma, Piacenza and Guastalla, with reversion to her son ; and Napoleon himself berane sovercign of Ellb, of which he took possession May 4. But, beforc the congress of Vienna had organized the political relations of Europe, he effected his return to France, March 1, 1815. At the same time, the king of Naples, Murat (sec Murat), abandoned lis former ambiguous attitude, and took up arms, as he pretended, for the independence of Italy. But his appeal to the Italians, March 30, was answered by a declaration of war by Austria, April 12. Driven from Bologna by the Austrian forces, $A$ pril 15, and totally defeatel by Mianchi 'Tolentino, May 2 and 3, he lost the kingdom of Naples, into which the Austrian gencral Nugent had penctrated from Rome, and Bianclii from Aquila, seven weeks after the opening of the campaign. He embarked fron Naples, with a view of escaping to France, May 19. Fcrdinand IV returned from Palermo, and Murat's family found an asylum in Austria. Murat himself made a descent in Calabria, from Corsica, in order to re-
cover his lost kingdom. Hc was taken prisoner at Pizzo, brought before a courtmartial, and shot, Oct. 13, 1815.* Mcanwhile, the congress of Vienna, by the act of June 9,1815 , had arranged the affairs of Italy:-1. The king of Sardinia was reinstated in his territories, according to the boundaries of 1792 , with some alterations on the side of Geneva ; for the portion of Savoy, left in possession of France by the peace of Paris, of May 30, 1814, was restored by the treaty of Paris, of Nov. 20, 1815. To his states was united Genoa, as a duchy, according to the boundaries of that republic in 1792, and contrary to the promises made to Genoa.2. The emperor of Austria united with his hereditary statcs the new LombardoVenetian kingdom, consisting of the Venetian provinces formerly belonging to Austria, the Valteline, Bormio and Chiavenna, separated from the Grisons, besides Mantua and Milan. Istria, however, was united with the Germanic-Austrian kingdom of Illyria; Dalmatia, with

* If the downfall of Napoleon is regretted in any quarter of the world, it is in Italy. This country, which, to the misfortune of Germanythat of being split into petty divisions, and convulsed by civil dissensions, for centuries-adds the further misfortune of obeying foreign princes, had become destitute of every clement of national life. Its commerce was fettered by the numerous political divisions ; its administration poisoned and vitiated to a degree of which none can have an idea, except an cye-witncss ; the cultivators of the ground impoverished by the hcavy rents which they had to pay to the rich land-owners ; science enslaved by the sway of the clergy; the noblemen, distrusted by the foreign governments, wherc they existed, and not admitted to offices of great importance, had lost energy and activity ; in fact, hardly any thing could be said to flourish, with the exccption of music, and, to a certain degree, other finc arts. Under Napoleon, every thing was changed. Italian armies were created, which gave birth to a sense of military honor among the people; the organization of the judicial tribunals was inproved, and justice much better administered; industry was awakened and encouraged; schools reccived new attention, and the sciences were concentrated in large and cffective learned socictics ; in short, a ncw life was awakened, and no Italian or German, who wishes well to his country, can read without dcep interest the passage in Las Cases' Memorial, in which Napolcon's views on thesc two countries are given. His prophecy, that Italy will one day be united, we hope will be fulfilled. Union has been the ardent wish of reflecting Ital. ians for centuries, and the svant of it is the great cause of the suffering of this beautiful but unfortunate country. A very interesting work, respecting the improvement of civil spirit in Italy, during the time of Napoleon, is Lettres sur l'Italie, by Lullin de Chateauvieux. This work also contains minch information respecting the agriculture of Italy, and many other subjects, of which the descriptions of this country hardly ever speak.

Ragusa and Cattaro, constituting a distinct Austrian kingdom. 3 . The valley of the Po was adopted as the boundary between the States of the Church and Parma ; otherwise, the boundaries of Jan. 1, 1792, were retained. The Austrian house of Este again received Modena, Reggio, Mirandola, Massa and Carrara.-4. The empress Maria Louisa received the state of Parma, as a sovereign duchess, but, by the treaty of Paris, of June 10,1817 , only for life, it being agreed that the duchess of Lucca and her descendants should inlierit it. Lneca, in that case, falls to the Tuscan dynasty, which, in return, resigns its districts in Bohemia to the duke of Reiclistadt. - 5 . The archduke Ferdinand of Austria became again grand-duke of Tuscany, to which were joined the Stato degli Presidj, the former Neapolitan part of the island of Elba, the principality of Piombino, and some small included districts, formerly fiefs of the German empire. The prince Buoncompagni Ludovisi retained all his rights of property in Ella and Piombino. - 6 . The Infanta, Maria Louisa, received Lucca, of which the took possession as a sovereign duchy, 1817 , with an annuity of 500,000 francs, thll the reversion of Parma.- 7 . The territories of the church were all restored, with the exception of the strip of land on the left bank of the Po; and Austria retained the right of maintaining garrisons in Ferrara and Commacchio.-8. Ferdinand IV was again recognised as king of the Two Sicilies. England retained Malta, and was declared the protectress of the United Ionian Islands. (See Ionian Islands.) The kuights of Malta, who had recovered their possessions in the States of the Church and in the kingdom of the Two Sicilies (in Spain, 1815), for a time madc Catanea, and, after 1826, Ferrara, their residence. The republic of San Marino, and the prince of Monaco, whose mountain fortress the Sardinians, and, before them, the French, occupied, alone remained unharmed amid the 15 political revolutions wlich Italy had undergone in the course of 25 years. The Austrian predominance was thus more firmly established than ever in Italy. In its seas and on its coasts, the British trident rules. Meanwhile, the desire of union and indcpendence was not extinguislied among the people of Italy. Traces of a struggle for a united and liboral government were almost every where visible; and several of the governments, Naples, Rome and Turin, in particular, in vain endeavored to protect themsclves against secret political societies (Unitari-
ans, Carbonari) and freemasonry by inquisitory tribunals, Jesnits and secret police. The fate of this delightful country lias employed, during the last seven years, the calinets of the first powers of Europe, according to the system of modern policy founded by the holy alliance, and more precisely defined by the congress of Aix-la-Chapelle (1818). While the spirit of Carbonarism (see Carbonari), excited by the Spanish revolution of January 1, i820, and having for its object the union of Italy under one government, and its independence of foreign powers, particularly of Austria, threatened to subvert the political institutions of the peninsula in general, and of the single states in particular, and in some places, especially in Naples, Sicily and Piedmont, actually slook them, by rousing the troops to revolt, and by exciting popular commotions-the cabinets labored with equal zcal to maintain tho principle of stability by the suppression of every revolution, and by opposing to the popular spirit the power of the police. Thus was a question, fraught with the most momentous consequences for all Europe, practically decided in Italy, viz. whether onc state is cntitled to interfere in the internal affairs of another, and overthrow, by force of arms, any new constitution which militates against the alsolute monarchical principle. This principle, which was proclaimed unconditionally by the leading states of the continent, and by Great Britain under the supposition of particular circunstances threatening imminent danger to the neighboring state (see lord Castlereagh's declaration of the 19th January, 1821), resulted in Austria (as the nearest interested power, which had prevented the introduction of the representative system into Italy in 1815) restoring by force of arms the ancient prerogatives of the royal authority in Naples, Sicily and Piedmont, after obtaining the assent of the other four leading powers, which had been closely allied since 1818 , and also of the Italian sovereigns, who participaterl, at the congress of Laybach, in the discussions respecting the affairs of Italy. Thus this power not only secured its own Italian provinces from the operation of liberal principles, but established its position as the guardian of the principle of stability and absolutc monarchy in Italy. All this was effected by a war of four days with the revolutionary army of the Carbonari of Naples (7th-10th March, 1821), and by a war of threc days with the federal party of Piedmont ( 7 th- 9 th of April, 1821); so that Russia had no occa-
sion to permit its army of 100,000 men, already put in motion, to arlvauce against the Italian nations. (For the history of those military revolutions, see Vaples, and Piedmont. Respecting the congress of monarchs and ministers held at Troppau, froin October to Decenber, 1820 ; at Layhach; from January to the 13th May, 182i; and the congrese, as splendid as it was nnmerons, hełd at Verona, from Oetober to the 14th December, 1822, where the question of armed interference in the internal affairs of states, in reference to Italy and Spain, was discussed, and decided against the claims of the popular party, though, in Verona, withont the acquiesceuce of England, see Congress, Intervention, and Holy Alliunce.) In the congress of Verona the Porte lhad no share, becanse it did not recognise the right of interfering in its internal affiais (with reference to the Grecks). Even the deputies of the provisionary govermuent of Greece (see Greece, Revolution of ) were not adnitted at Verona; the pope, however, opened an asyluin to the Greeks in general in Aneona, and suffered the leter of count Metaxa to be published, in which he solicited the mediation of the looly father in behalf of the affairs of Greece at the congress of Vcrona. The affairs of Italy were discussed in the last sessions of the congress. The plenipotentiaries of the Italian states were as follows, and voted in the following orter:- Rome, the cardinal Spina, and Leardi, the numcio at the court of Viemua (who died 1823); Naples, the prince Alvaro Ruffo, minister of foreign affairs, and the marquis Ruffo, private secretary of king Ferdinand ; Sardinia, the eount Delli'Torre, minister of foreign affairs, and the comut l'ralorne, Sardinian ninister to the court of Vienna; Tuscany, the minister, prince Veri-Corsini ; Parma, the count Magarly, minister of state; Lucea, the minister Mausi, and count Guicciardini. The petitions of the Maltese order for their restoration as a sovereign power were submitted by the commander, Antonio Buseo; nothing, lowever, was decided on the subjeet, and the loan which the order subsequently attempted to negotiate in London, in 1823, had as little suceess as the negotiation with the Greek senate for the cession of an island. The political maxims which the monarchs followed at these congresses, with respect to Italy, were laid before the world, in the Circular Note of Verona of December 14, 1822. Afier the dissolution of the congress of Verona, the king of Naples followed the emperor of Austria to Vienna, where he remained till Ju-
ly, 1823, and then returned to his states,his various oaths taken to support a constitutional form of govermment having been all violated. The efforts of the most intelligent Italiaus, from the time of Maccliavelli and Cæsar Borgia, son of pope Alexander VI (sce Alexander $V I$ ), to restore the political unity of their native country, have given rise to the numerous sceret political societies in Italy, which in Bologna were called the Guelfi; in the Roman and Neapolitan states, the Patriotti Europei, and Carbonari; in Upper Italy, the Spilla nera; in Piedmont and Lomhardy, the Filadelfi and Federati. In Milan, the Adelfia, or the Società de' sublimi maestri perfetti, labored to produce a general outbreak of insurrections in Italy, in order to surromed the Austrian army on its advance against Naples. Even the advocates of the illiberal system, or the theocratic faction, as it was termed, whielt likewise pursued its objeets in secret socicties, took advantage of the national desire of greater unity in Italy. It was therefore natural that the idea of eonnecting the Italian states in a political system similar to the Germanic confederation should have been agitated by the statesmen of the congress; but it seens to have been entirely given up, and Italy was left in the hands of Austria. On the other liand, measures were adopted, by all the Italian states, to extirpate the liberal spirit which, propagating itself under a perpetual variety of now forms (for example, in the scet of the Ordoni di Napoli, of the Descamisados, of the Barabisti, in Naples and the rest of Italy), had not ceased in the year 1825, in the June of which year a conspiracy was detected at Rome, to pursue its ancient object of uniting all the Italian states into one conferleracy as a republic or constitutional monarchy, and freeing them from foreign influeuce. This display of revolutionary spirit is nothing new in the history of Italy. The middle ages, that golden period of absolute power, exhibit there an almost unintervupted series of such political conspiracies, republican schemes and destructive convulsions, because Italy has never yet been pernitted to be politically a nation, and to adopt a form required by its wants and its rights. One leading meusure was, to oceupy for some years the kingdom of the Two Sicilies and Piedmont (in which the old troops were disbanded), at the expense of these states, with Austrian armies, which had restored the former state of things. This was done conformably with the treaties between Austria and king Ferdinand, of October 18, 1821, and the king of

Sardinia, Charlcs Fclix, at Novara, July 24, 1821. But, in compliance with thic decrecs of Vcrona (Decrinber 14, 1822), the Austrian troops, 12,000 in number, were gradually removed from Piedhont in $182 \%$, and the fortress of Alexandria was surrendercd, September 30, 1823, to Sardinian troops. In the same year, after a new Neapolitan army had bcen organized in Naples, the Austrian garrison, of 42,000 men, was diminished about 17,000 , and, in Sicily, only the citadel of Palermo continued to be occupied by Austrian troops. The last detachment left the kingdom in 1827. The influence of Austria on the internal administration was likewise cvery where felt. The police of each state adopted the strictest measures for maintaining internal tranquillity. Secret societies were strictly prohibited (for cxample, in the Austrian Italian states, by a proclamation of August 29, 1820); tribunals werc erccted, and, in Naples, supported by movable colunms, to punish the authors of revolutions ; executions, proscription and banishınent ensued. Soine condeınned Neapolitans and Lombards were carried to the Austrian fortresses of Spielberg and Munkatsch. The Neapolitan government procceded with the utmost rigor against political criminals, as did also the Sardinian and Modenese. Botlı Naples and Sardinia, nevertheless, issued decrees of amnesty, from which only the authors and leaders of the insurrection were cxcluded. Notwithstanding this severity, political offences were so numerous, that, in Naples, in January, 1824, a nore summary form of judicial proceeding was prescribed to the criminal courts. This was the fourth time, since 1821, that the govcrument had been compelled, on account of the crowded state of the prisons, to have recourse to extraordinary expedients. The Lombardo-Venetian kingdom, Lucca, Parma, Tuscany and the church displayed the same anxiety in relation to secret associations. In Venice, the court of justice condemned 32, and in Milan 16 persons to death; but the emperor, in 1823, and January, 1824, transmuted the sentence into that of perpetual or temporary imprisonment. In September, 1821, the pope excommunicated the scct of the Carbonari and all similar associations, as branches of the long-prohibited freemasons; but in the Roman state, Tuscany, Parma and Lucca, no punishments werc inflicted for participation in former political societies. In general, the papal government, under the direction of the cardinal Gonsalvi, was distinguished from the
others for conciliatory measures, and for moderation in establishing internal tranquillity. The influence of the apostolic sec on the states convulsed by revolutions was thus, in some degree, increased. Thic press, universities and schools were, in particular, closely watched. In the kingdom of the Two Sicilies, and in Piedmont, strict measures were taken for the purifi cation and discipline of the literary institutions; the Jesuits were restored, and rendered influential in the education of youth, by having coonmitted to them, at Rome and other places, the schools, collcges and oratorics, which they had before conducted. On the other hand, numerous banditti disturbed the public security, especially in Naples and the States of the Clurch. One of them got in their power (January, 1822) an Austrian colonel, for whose liberation they had the audacity to dcinand 40,000 Roman dollars; but they released him on seeing themselves surrounded by Austrian troops. In January, 1824, according to the Diario di Roma, a numerous band of roving youtlis was discovered in Italy, who had rum away from their parents, organized themselves into companies, and subsisted by frauds and robbery. Among the single events, important for the listory of Italy in late times, we must mention the death of pope Pius VII, in consequence of fracturing his lcg, August 20, 1823. After a short conclave (from $3 d$ to 27 th September), he was succeeded by cardinal Annibal della Genga, born in 1760, at the family castle of the same name, near Spoleto, a prelate distinguished for his diplomatic services; he assumed the name of Leo XII, Sept. 27, 1823.* In the year 1825, Leo caused a jubilee to be celebrated in the States of the Church. (Scc Jubilee.) The fricnd and secretary of Pius VII, the statesman cardinal Gonsalvi, who effected great changes in the system of internal administration, died at Rome, Jan. 24, 1824. He had bestowed the presents received from the European sovereigns (upwards of 100,000 scudi in value), on the college de propaganda fude, of which he was the last prefect; and a great sum of money for rebuilding St. Paul's church, burned in Rome, in 1823. A somewhat milder spirit prevailed in the Two Sicilies, after the accession of Francis I (Jan. 4,

[^4]1825).-Italy depends almost solely on its agriculture for subsistencc; the sources from which it formerly drew its support, the arts, manufactures and commerce, being almost dried up. Commerce with forcign countries, which, in Naples especially, is altogether stagnant, is, for the most part, in the hands of foreigners, and, in a great measure, dependent on the British; thence the universal want of specie, the financial embarrassments of the governments, and the loans negotiated with Rothschild. Italy no longer lives, as formerly, on her cities, but on her soil. And even this source of prosperity inaintains but a feeble existence, whilc taxes and tariffs impede the exportation of the staple productions to foreign countries, or bands of banditti and the want of good roads obstruct internal intercourse, as in Sicily and Calabria. The natural advantages of Italy entitle her to the highest rank in agriculture, commerce and the arts; but all branclies of industry groan under political oppression. The government and people look on each other with jealousy and hate, and the ecclesiastical establishment poisons the springs of national activity. A political excitement is continually kept up by means of secret societies, which are found also in Spain and Switzerland, under different appella-tions-Consistoriales, Crocesignati, Crociferi, Societì della Santa Fede, Società del Ancllo, and of the Bruti. The noted count Le Maistre was, for a long time, in Picdmont, the head of these inalcontents, who sought to accomplish desperate, ambitious plans, while apparently zealous in the cause of religion or morality. Even the Culderari, in Naples, whose head was the ex-minister of the police of Naples, prince Canosa, have become one with the Sanfedists, who were connected with the gouvernement occulte (as it was denominated) of Francc. These ultras hate even Austria, because it seems to act with too great moderation. The grand-duke of Tuscany is a man of lenient principles, and, in that country, not a single Tuscan fias been brought to account for political transgressions. Like the rest of Europe, Italy is on the eve of momentous events; but the convulsions in that country will be more violent than in many others, in consequence of its having to struggle at once for unity and independence, against a lecply rooted and obroxious ecclesiastical establisliment, the ignorance of a vast number of the people, and powerful enemies.-For the general history of Italy, previous to the last period, see Mura-
tori's invaluable works: Annali d'Italies ( 12 vols. 4to.); Rerum Italicarum Scriptores, ( 28 vls. fol.); and Sismondi's Histoire des Républiques Italiennes (3d edit., 16 vols. 1825 ). A continuation of Guicciardini's Storis d'Italia, until 1789, by C. Botta, has lately been announced. Percival's History of Italy, ( 2 vols.), contains a shorter view of the modern history of that country. For further information on the inodern history and the statistics of Italy, see Carlo liotte's Sloria d'Italia dal 1789 al 1814 (Paris, 1824, 4 vols. 4to., and in French 5 vols.); the Annali d'Italia dal 1750 (continuation of Muratori), compilati dal Abbate A. Coppi (3 vols., Rome, 1825); Bossi's Storia d'Italia antica e moderna; the Mémoires sur la Cour du Prince Eugène, et sur le Royaıme d'Italie, pendant la Domination de Napoléon, \&c. (Paris, 1824); also, Leo's Geschichte der Italienischen Staater (4th vol., Hamburg, 1830), and the listorical works which are mentioned in the subsequent article on Italian Literature; also, the above-mentioned work of Lullin de Chateauvieux (Letters on Italy). This author investigates the causes of the decline of Italy, and describes regions which are not visited by most travellers. Ifis comparison of the Italian system of agriculture with the English is interesting.*

Italian Langruage. The boundaries of the Italian language cannot be given with precision. In the north, towards Switzerland, Tyrol and the other neighboring countries, the valleys in which German, Italian, and dialects of the ancient Roman language, are spoken, alternate with each other. Even the sea is not a definite limit. On account of the carly extension of the Italians over the islands of the Mcditerranean, including those of Greece and the coasts of the Grecian main land, it is not easy to determine where the last Italian sound is heard. It is spoken, more or less corrupted, in all the ports of the Mediterranean, Christian and Turkish. Of late, however, the Italian language has lost ground on inany islands, as, for in-

[^5]stance, on the Ionian islands. (q. v.) The origin of this beautiful and most harmonious tongue, is also lost in obscurity. The general opinion, that the Italian originated from a mixture of the classical Latin with the languages of the barbarians who ovcrran Italy, is erroncous. The Roman literary language, which the scholar learns from Horacc and Cicero, was not the dialect of the cominon people. That the former could not have been corrupted by the mixture of the barbarous languages, is proved by the fact, that Latin was written in the beginning of the middle ages, long before the revival of learning, with a surprising purity, considering the circumstances. After the language of common life had been entircly changed by the invasion of the northcin tribes, in its wholc spirit rather than ly the mere admixture of foreign words (a consequence of the change of the spirit of the people), then a new languagc of literature was formed, though the classical Roman still continued to be used. The new language was opposed to the variety of dialects which had grown out of common lifc ; the formation of it, however, was slow, because the learned and the poets, from whom it was necessarily to reccive its stamp and developement, despised it as an iutruder on the Latin, which was vencrable as well by its age, and the treasures handed down in it, as on account of the recollections of former greatness, with which the suffering Italians were fond of flattering themselves. Even down to the present day, that idiom, the melody of which carries us away in the most unimportant autlor, is not to be found as the common idiom of the people in any part of Italy.* It is a mistake to suppose that Boccaccio's language is to be heard from the lips of Tuscan peasant girls or Florentinc porters. Even the Tuscan and Florentine dialect differs from the pure language of literature, which, during the first centuries of Italian literature, is found purer in the poets of Sicily and Naples than in the contemporary writers of Tuscany. The circunstance, that the most distinguished Italian poets and prose writers were born in Florence, and the

[^6]anthority assumed by later Tuscan acadcmies, particularly the Crusca (q. v.), are the causes why the 'Tuscinn dialect, in spitc of its rongh gntturals, which arc intolerable to the other Itahians,* became predonimant in the language of litcrature. Dante, the creator, as it werc, of Italizu prose and poetry, and whose works are full of peculiarities of different dialects, distinctly maintains, in a treatise De culgari Eloquentia, that it is inadmissible to attempt to raise a dialect to a literary languagc. Dante, indecd, distinguishes in the lingur volyare (so the langnage was called, which originated after the invasion. of the barbarians) a volgare illustre, car-dinale, aulicum, curiale ; but this sufficiently proves that he held the opinion above stated. Fcrnow (in lis Rom. Studies, Book viii., No. 11) mentions 15 chief dialects, of which the Tuscan has six subdivisions. Those dialects, in which no literary productions exist, are not cnumerated. The Italian, as we find it at present, in literature and with the well educated, is cssentially a Latin dialcet. Its stock is Latin, changel, to be sure, in its grammar and construction, by the infision of the modcrn spirit into the antique, as the character of the people minderwent the same change. A number of Latin forms of words, which, even in the time of the Romans, existed in common language (as, for instance, o instcad of um, at the end of a word), have been, by the course of time and revolutions in literature, clevated to a graminatical rank; and the same is very probably true of forms of plirascology. In many instances, the Italian exhibits changes in the Latin forms, which have evidently taken place in the same way, in which common people, in our days, corrupt the corrcct inodes of speech by a rapid, or slurred, or mistaken pronunciation. This is partly the reason why the Italian has changed so considerably the proportion of the consonants to the vowels in Latin (from $1,2: 1$, the Latin proportion, to $1,1: 1$, the Italian proportiont); and this is one of the chief reasons of the great and uniform harmony in the Italian language. A carefin investigation will show that, in fact, little admixture of Tcutonic words took place, but that it is much morc the Teutonic, or modern spirit, which changed the language so considerably. $\ddagger$ The study of

* The beau-ideal of Italian is set forth in the saying, Lingua Toscana in bocca Romana (the Tuscan dialect in a Roinan mouth).
$\dagger$ See the article Consonant.
$\ddagger$ This ehange is also manifest in the difference between authors who urote before the great revival of letters, and still later, before the French

Italian has been carried on, in modem times, with great zeal, and a recurrence to the old writers has much diminished the influence of the French models, so general after the time of Algarotti. The prineiples, according to which purity is now judged, lave been clearly laid down by count Julius Perticari, son-in-law to Monti, in the work Amor Patrio di Dante (Milan, 1820), which powerfully opposes the presumption of the Tuscans in claiming to be in possession of the only good Italian. This work was considered, for a long time, the production of Monti, who, by his Proposta di alcune Correzioni ed Aggiunte al Vocabulario della Crusca, gave sufficient reason for such conjecture. To render the nobler language also the coinmon property of the provinces to which it had liitherto remained foreign, was the aim of Gherardini's Introduzione (Milan, 1815). More was promised by the Vocabolario della Lingua Italiana, publishing at Bologna, the authors of which are arbitrary in the explanation and application of words. Bonavilla's Vocabolario Etimolugico (Milan, 5 vols., 1825) hardly excited the attention of the Milanesc, under whose eyes it originated. Romani's Teoria e Dizionario gen. de Simoni (Milan, 1825) seems to be more useful. Respecting the history of the Italian language, we may expect much from the profound researches of Benci. The philological treasures of a nation, in which the ancient writers are studied with so much zeal, and which is so extensively connected with foreign countries, must be continually augmenting. Wherever a line of Tasso has been found unprinted, wherever the pen of Guarini lias been traced, the fragment has been published with a pious devotion, most probably not desired by the authors. Nevertheless, many interesting additions to the literature of Italy lave been made in this way: thus, for instance, a work of Peter Perugino (Di uno Scritto Autografo del Pittore P. Perugino nell' Archivio dell' Acad. di B. Arti di Perugia, \&c., Perugia, 1820), poems of Bojardo (Poesie di Matteo Maria Bojardo, Conte di Scandiano ecc. scelte ed illustrate del Caval. Venturi, Modena, 1820), poems of Lorenzo the Magnificent (Pocsie del magnifico Lorenzo de' Medici, Florence, 1820), poems of Luigi Alemanni (Florence, 1819), a work of Montecuculi, unknown till it
influence laad taken place. This may, perhaps, account for the difficulty which an Italian reader finds in understauding many passages of Danle, whieh do not strike a German as particularly obscure.
vol. vil.
was published by Grassi (Turin, 1820), and letters of Galilci, published by Venturi (Modena, 1821, 16ino. 2 vols.). Still greater has been the demand for editions of the acknowledged classics. Dante has been published in all shapes and sizes. Among these editions, that of De Romuni (Rome, 1820, 4to.), the edition of Biagioli (Milan, 1820), and one published at Roveta, in the Rhætian Alps, by an adınirer of the poet, Aloisio Fantoni (1820), of which a manuscript in the hand-writing of Boccaccio was made the basis, deserve mention. The edition printed from the Bartolinian manuscript (Vienna, 1823) has acquired some distinction among the most recent, as have likewise Scolari's explanations (Della piena e giusta Intelligeniza di Dante, Padua, 1822). Ugo Foscolo had prepared an edition, accompanied with notes and commentaries, which is now (1831) in course of publication at London. Similar attention has been paid to Petrarca, in the famous edition of Marsand (Padua, 1819, 4to.), and several editions for common use. Ariosto's Orlando Furioso lias met with equal homage; the edition at Florence, by Molini (1821 and 1822, 5 vols.), unites every thing which is required for the understanding of the poet. No less care was bestowed on Torquato Tasso in the edition made by the typographical society (Milan, 1823 et seq.), and liardly an Italian author of note can be inentioned whose works have not been carefully edited. The Società Tipografica de' Classici Italiani even undertook the reprint of Muratori's Annali d'Italia (Milan, 1820 et seq., 20 large volumes), trusting to the zeal for collecting among travelling foreigners, and in so doing were more fortmate than the editor of the Fa miglie celcbri Italiane, which, with all its undisputed merit, has had but a heavy sale. Since the death of Morelli, the spirit of criticism, as regards the classics, scems to have died. The best Italian and English dictionary is that of Petronj, (Italian, French and English, 3 vols., London): Alberti (Italian and French) is very valuable. The best modern grammars are the Grammaire des Grammaires Italiennes, Biagioli's Grammaire Italienne.

Italian Literature and Learning (excluding poetry). One consequence of the irruption of the barbarians into Italy was a period of darkness and ignorance, as well as of disorder and distraction, from whose claotic confusion the germs of a new civilization could only be developed slowly and laboriously.

First Period.-From Charlemagne to the

Death of Otho III, 1002. -The influence of Charlemagne as the friend of letters and the restorer of peace was favorable. We find an Italian, Petrus, deacon of Pisa, mentioned as his teacher in grammar. No less deserving of mention is Lothaire, who was king of Italy in 823, and founded the first public schools in many cities. Of the instructers in these schools, we know only Dungalus of Pisa, of whom, while he was still a monk at Bobbio, Charlemagne requested an explanation of two solar eclipses, and under whose name several works arc still extant. Lothaire's example was imitated by pope Eugenc II, in the Statcs of the Church. The consequences, however, of these institutions, although valuable in themselves, were unimportant; for competent teachers were wanting, and the later Carlovingians and popes suffered the new institutions of learning to fall to decay. In addition to this, the incursions of the Saracens and Hungarians into Italy, and the civil wars, had a very injurious influence. There were few individuals, in this dark period, celebrated for learning. In theology were distinguished the popes Adrian $I$, the abovc-mentioned Eugcne II, Leo V, Nicolas I, and Sylvester II ; Paulinus, patriarch of Aquileia (his works werc published, Venice, 1737), Theodolphus, bishop of Orlcans (his works, Paris, 1646), both contemporarics of Charlcmagne; the two archlishops of Milan, Petrus and Albertus; Maxentius, patriarch of Aquileia ; and, finally, the two abbots of Monte Casino, Autpertus and Bertarius. Among the historians of this time, whose writings contain valuable information, though in a rude and barbarous style, the principal are Paulus Warnefried, surnamed Diaconus, author of several works, espccially of a history of the Lombards, and Erchempertus, with two unknown persons of Salcruo and Benevento, who continucd the above work ; a priest of Ravenna, by name Agnellus (also Andreas), who wrote a history of the bishops of Ravenna; Andrew of Bergamo, author of a clironicle of Italy from 868 to 875 ; Anastasius, librariau of the Roman church, known by his lives of the Roman bishops, and Luitprandrus of Pavia, author of a history of his own times.

Second Period.-From the Death of Otho III, 1002, to the Peace of Constance, 1183. In this period, also, the condition of Italy was unfavorable to the interests of learning. The Italian citics were contending for their freedom with the emperors, and the conflict between the spiritual and
secular power was no lcss injurious. The crusades, which began at the close of the 11th century, salutary as they were in their ultimate influence, contributcd, in their iminediate results, to auginent the general confusion. Of the popes, the ambitious Gregory VII and Alexander III took measures for improving the schools. The copies of ancient classic works were multiplied, and individuals took pains to collect books. Among the learned theologians of this period, we nust incntion Fulbert, bishop of Chartres, a native Roman; the two fanous archbishops of Canterbury, Lanfranc and his scholar Anselm; Petrus Lombardus, teacher of theology at Paris, most fampus for his four books Sententiarum; Petrus Damianus; the cardinal Albericus; Bruno, bishop of Segni ; Anselmus, bishop of Lucca; Petrus Grossolanus, or Chrysolaus, archbishop of Milan, and Bonizone, bishop of Sutri, afterwards of Piacenza. All have left works, on which we shall not dwell. In philosophy, or rather dialcctics, besides Lanfranc and Anseln, were distinguished Gerardus of Cremona, who taught at Tolcdo, and, among other things, translated, from the Arabic into Latin, the works of Avicenna and the Almagest of Ptolemy, and Johannes, the Italian, who expounded Plato and Aristotle at Constantinople, and gave instruction in logic. Music underwent an ontire transformation through Guido of Arezzo. The medical art flourished in the school at Salerno, at the end of the 10th century. The plysicians there seem to have first studied the works of the Arabians. The oldest monument of the Salernian school consists of certain dietetical rules, composed in Leonine verses, entitled Medicina Salernitana, or De Conservanda Bona Valetudine. Several plysicians, both of Salerno and the neighborhood, were distinguished in these times for their works, viz. Matthæus Platearius, Saladinus of Ascoli (the last for his compendium of aromatic medicines), and several monks, whom wc pass over. Jurisprudence revived with the freedom of the cities, and became a subject of general study. Throughout Italy there were schools in which it was taught ; namely, at Modena, Mantua, Padua, Pisa; Piacenza, Milan, and above all at Bologua, where Imerius, who acquired for this city the appellation of learned, tauglit and explained the Roman law, and brought to light the concealed treasures of thic Pandects. We might mention many distinguished lawyers of this period, but content ourselves with cit-
ing the famous Gratian, who first digested the canon law (in his Decretum sive Concordia Canonum Discordantium), for the use of the tribunals, and is to be regarded as the founder of the canon law. Although the grossest barbarism prevailed in every thing that related to taste, there were, nevertheless, individuals who paved the way to a knowledge of the ancients, by the study of the Greek and Latin languages, and sought to imitate their style. Among them was Papias, one of the first who compiled a Latin dictionary. The 11th and 12th centuries exhibit many scholars, whose works are destitute of elegance, but written in a clear and intelligible style. Such are Arnolphus, the two Landolphuses, Sire Raul, Otho Morena and his son Acerbus, Godofredus Malaterra, and several writers of clironicles, and authors of monastic histories, respecting whose names and works we refer the inquirer to Muratori's invaluable collection.

Third Period.-From the Peace of Constance, 1183 , to the End of the 13 th Century. In this period, the literature of Italy assumes a more pleasing aspect. Hitherto all works had been written in barbarous Latin, but attempts now began to be made in the language (rude, indeed, as yet) of the people (lingua volgare). Poetry, as usual, preceded prose. Dialectics and philosophy were improved, and as the sciences gained in solidity and extent, their mutual connexion became more apparent. The crusades had led to new sources of knowledge, and gave, in general, a new impulse to the mind. Notwithstanding the internal wars of Italy, letters flourished; for princes and republics vied with each other in encouraging scholars, and in founding new schools and institutions of education. The emperors Frederic I and II effected great improvements. The former promoted the study of jurisprudence in particular, and founded schools ; the latter was himself a scholar, possessed an extensive knowledge of the languages, and established public schools throughout the sonth of Italy. His court, and that of his son Manfred, in Palermo, were thronged with the learned. Besides some poems in Italian, he also wrote a work on the natural history of birds. His learned chancellor, Pietro delle Vigne (Petrus de Vineis), was animated by the same spirit, and not less familiar with the science of law than with the conduct of political affairs. Besides six books of letters, his collection of Sicilian laws is still extant. Several of the popes were pro-
found scholars, and distinguished as authors, particularly Innocent III and IV, and Urban IV. The university of Bo$\operatorname{logna}$, at the beginning of the 13th century, contained 13,000 students from all countries of Europe; and Padua, Arezzo, Vicenza, Naples, \&c., competed with it. The chief theologians of this period were Thomas Aquinas, the Franciscan Bonaventura, and Egidio Colonna, all three authors of numerous works. In philosophy, a new epoch began in Italy in this period, when the writings of Aristotle became known to the Italians, though in a somewhat corrupt state. Thomas Aquinas wrote a commentary on them by the command of the pope, and translated them, partly from the Greek, partly from the Arabic. Brunetto Latini produced an epitome of the Ethics of Aristotle, in his Tesoro, which was originally written in French, and is remarkable as an encyclopædia of the knowledge of the age. Mathematics and astronomy, in connexion with astrology, were cultivated. Campano, the most learned geometer and astronomer of his time, wrote a commentary on Euclid. After him we may name Lanfranco, Leonardo of Pistoia, and Guido Bonatti, the chief astrologer of the time. From this period dates the invention of spectacles and of the magnetic needle. The school of Salerno was the central point of medical study. It had able teachers in Pietro Musandino, Matteo Plateario, Mauro, \&c.; but there were also distinguished physicians out of Sa lerno, such as Ugo of Lucca, the Florentine Taddeo (who wrote commentaries on the Aphorisms of Hippocrates, and on some works of Galen), Simon of Genoa (author of the Clavis Sanitatis, which may be regarded as the first medical and botanical dictionary), and others. Surgery made still greater progress under such men as Ruggieri of Parma (who wrote a Practica Medicina), and his countryman and contemporary Rolando (author of a Surgery, on which four of the principal physicians of Salerno wrote commentaries), Bruno, Teodorico, Guglielmo of Saliceto, and Lanfranco, of whom we have likewise treatises on surgery; but no science was more zealously or successfully pursued in the 13th century than jurisprudence. In Ferrara, Modena, Milan, Verona, and other Lombard cities, codes were compiled, on which a Dominican, who passed for a perforner of miracles, John of Vicenza, bestowed a sort of consecration. The first lawyers of this time were Azzo of Bologna (whose Summec on the institu-
tions and Apparatus ad Codicem have been printed), Ugolino del Prete, also a Bolognese (who incorporated with the corpus juris the feudal laws, compiled by Anselinus of Orto, and the decrees of the modern emperors), Accorso, a Florentine (who obtained the surnaine of Glossator, from his having collceted the best glosses of his predecessors, and annexed others of his own), Odofredo (author of a commentary on the Codex and the digests), \&c. In the canon law, Gratiau's collection had been hitherto held as authority. To this were now added the four collections of Bernardo of Pavia, of P'ietro Collivaccino, \&c., which were regarded as works of authority till they were supplanted by the collection made under the supervision of Gregory IX, which even yet constitutes the greater part of the canonical law. To this Boniface VIII added, in 1298 , the sixth book of decretals. Without dwelling on the most distinguished canonists, we pass to the principal historians, nost of whom wrote with simplicity and integrity:-Goffredo of Viterbo (a Gerinan, who wrote a chronicle, from the creation of the world to 1168 , under the title of Pantheon), Sicardus (author of a similar chronicle), Giovanni Colonna (author of a universal history-Mare Historiarum), Riccobaldi (author of a similar work, entitled Pomarium), the Sicilian Riccardo of San Germano (who relates, with much fidelity, events from 1189 to 1243), Matteo Spinello (whose history reaches from 1217 to 1268 , and is the first learned work in Italian prose), Niccolò di Iamsilla, Saba Malaspina and Bartolommeo da Neocastro (whose works have been published by Muratori). Florence had its first historian in Ricordano Malaspini. The history of Milan was written hy Filippo of Castelseprio, and the Doininican Stefanardo of Vimercate, and thus each province and city had its chronicler, whose names we have not room to enumerate. Grammar, which then comprehended the belles-lettres, had been hitherto neglected; but in the 13th century, it found students and teachers, as Buoncampaguo Bertoluccio, Galeotto (who wrote in Italian, and translated Cicero's rhetorical books into that language), and, above all, Brunetto Latini, Dante's instructer, who has already been mentioned, and of whom, besides his above-mentioned Tesoro, we have several other works in prose, such as La Rettorica di Tullo, De' Vizje celle Virtù, \&c. At the close of this period, we must mention the famous Marco Polo, his father, Mat-
teo, and his uncle, Niccolo. They were among the first who made distant journeys through Asia, and rendered that part of the world better known to their countrymen.

Fourth Period.-From 1300 to 1400. Amid civil disturbances, the sciences continued to make great advances. While the emperors were attempting, in vain, to restore peace to Italy, and subject it to their authority, separate sovereignties and principalities were formed, the rulers of which emulated each other in their patronage of literature. Robert, king of Naples, was the most distinguished in this respect. After him ranked the Della Scala at Verona, the house of Este at Ferrara, the Gonzaga at Mantua, \&c. The number of universities increased, and many of them, such as those of Padua, Naples, Pisa and Pavia, were very flourishing, though Bo$\operatorname{logna}$, formerly the first, fell into decay. The libraries were enriched with the works of the ancients, which were rescued from oblivion. Men like Petrarch and Boccaccio, by their researches and studies, rendered lasting services, as the restorers of learning. Both collceted books, and the first collected also Roman coins. By the invention of paper, the multiplication of copies of the classics was facilitated. Their corruption by ic. norant transcribers soon became evideni Criticism was required to restore them, and Coluccio Salutato, by the collation of several manuscripts, made a beginning in this art, and recommended it to others. Divinity was treated of by numberless scholastic theologians, but by most of them was obscured rather than illustrated. The following deserve honorable mention: Albert of Padua, Gregory of Rimini, Mich. Aiguani of Bologna, Bartol. Carusio of Urlino, Alessandro Fassitelli, who all tanght at Paris, besides Porchetto de' Salvatici of Genoa, Raniero of Pisa or of Ripalta, Jac. Passavanti, Simon of Cascia, Peter of Aquila, Bonaventura da Peraga, Marsiglio Raimondini of Padua, and Lodovico Marsigli. Philosophy was highly complicated and obscure, as it was built on the mutiated and disfigured works of Aristotle, assisted by his Arabian commentator, Averroes, whose mistaken explanations were first made known, and were, in turn, expounded and illustrated by the monk Urban of Bologna. The only plilosophical writer, who does honor to the age, is the famous Petrarca, who wrote several Latin works on moral sub-jects-De Remediïs utriusque Fortunc; De Vita solitaria; De Contemptu Mundi;

De Ignorantia sui ipsius et Aliorum, \&e. The rest that was written in the department of morality deserves mention only for the purity of the Italian, such as $A m$ maestramenti degli Antichi volgarizzati, by Bartolommeo of Pisa. Of the mathematieal sciences, astronomy and, in connexion with it, astrology, were most cultivated. The most noted scholars, who devoted themselves to these branches, were Pietro of Albano, and Ceceo of Aseoli,-the forner distinguished for his Conciliator, in which the various opinions of famous physicians and philosophers are reconciled; the latter for an astrological work, for a treatise on the sphere, and his poem Acerba, for which he was burned as a heretic. Besides these, there were Andalone del Nero, who travelled much for the sake of enlarging his astronomical knowledge, and was esteemed by Boceaceio as the first astronomer of his age, and Paolo, surnamed Geometra, of whom Villani narrates, that he discovered all the motions of the stars, by means of instruments of lis invention, and who is quoted by Boceaecio, as having prepared maehines representing all the celestial motions. Jacopo Dondi and his son, Giovanni, gained reputation and the surname Dall' Orologio, by an ingenious clock, showing not only the hours, but also the course of the sun, moon and planets, as well as the months, days and festivals. Pietro de' Crescenzi, a Bolognese, wrote in Latin his even yet interesting work on agriculture; but, in the same century, there appeared an Italian translation of it, distinguished for its language and style. Medicine was zealously studied by a number of scholars, bit was still, however, in a very imperfect state, and deserved at least in a measure, the ridicule with which Petrarca treated it. The eelebrated school of Salerno was on the decline. The Arabians were every where esteemed as models and teachers. Among the most famous physicians of the times were the Florentine Dino dal Garbo, who wrote commentaries upon some writings of Avicenna and Hippocrates, and on the love songs of Guido Cavalcanti, also a treatise on surgery, \&c. ; his son Tommaso, Petrarea's friend, who wrote a Summa Medicinalis, and directions how to treat the plague, and explained Galen's works on the difference of fevers and on generation; Torrigiano Rustichelli, who wrote on Galen's Ars parva; Gentile of Foligno; Jacopo of Forli ; Marsiglio of Santa Sofia, and others whose works are forgotten; finally, Mundino of Bologna,
who was the first that wrote a complete work on anatomy, which was esteemed for two eenturies. In jurisprudence, several persons were eminent as writers on civil law: Rolando Placiola; Albert of Gandino (De Maleficius) ; Oldrado da Ponte (Consilia and Quastiones) ; Jacopo Belviso (who wrote, among other things, on fiefs); Francesco Ramponi (who explained some books of the Codex) ; Cino (q. v.) of Pistoia ; and the two most celebrated lawyers of this age-Bartolo and Baldo. In the canon law, which was extended by the Clementine decretals and Extravagants, the most illustrions was the Florentine Giovanni d'Andrea, who commented upon the six books of the decretals, and edueated several distinguished scholars. In history, the increasing intimacy with the works of the ancients had the most favorable influence; it was freed from a great many errors and fables. Petrarca and Boceaccio distinguished themselves by several historieal works, written in Latin ;the former by four books, Rerum. Memorandarum, and biographies of famous men;the latter by De Genealogia Deorum; De Casibus Virorum et Feminarum illustrium; Declaris.Mulieribus; De.Montium,Silvarum, Lacuum, Fluminum, Slagnorum ct Marium Nominibus. In addition to these, there is a long train of authors of general history and of chronicles ; espeeially Benvenuto of Imola (who wrote a history of emperors, from Julius Cessar down to Wenceslaus, and commented on Dante); Francesco Pipino of Bologna (who wrote a chroniele, from the time of the first Frankish kings down to 1314); and Guglielmo of Pastrengo (author of the first universal library of the writers of all nations, which displays a wonderful extent of reading for those times); the Florentine Paolino di Pietro, Dino Compagni, and the Villanis (see Villani), who contributed much to the improvement of their native language; the Venetian Andrea Dandolo (who wrote a valuable Latin chronicle of his native city, from the birth of Christ to 1342); zud Rafaello Caresini (who continued it till 1388); the Paduan Alberto Minsato (who wrote several historical works in good Latin, partly in prose, partly in verse); and others. (See Muratori's Scriptores.) The want of proper teaehers was a great obstacle, in this period, to the study of foreign languages. Clement $V$ gave orders, indeed, for the erection of professors' chairs for the Oriental languages, not only in the papal cities of residence, but also in severa! univerities at home and abroad, but with little effect. More was done for Greek
literature, especially through the instrumentality of Petrarca and Boccaccio: the two Calabrians Barlaano and Leonzio Pilato were the inost zealous cultivators of it. At Florence, the first professorship, of the Greek language was founded and conferred on Leonzio Pilato, by the influence of Boccaccio. In this period occur the first Italian tales and romances. The oldest collection of tales extant is the Cento Novelle antiche,-short and very simple stories by unknown authors. These were followed by Boccaccio (q. v.) with his Decameron and his Fianmetta, by which he became the real creator of the Italian prose, in all its fullness, luxuriance and flexibility : his imitators were Francesco Sacchetti, author of a collection of tales, and Ser Gioranni, author of Pecorone, both, however, far inferior to Boccaccio. Dante (q. v.), too, must be mentioned, both on account of lis Italian works, the Vita Nuova and the Convito, and also on account of his De Monarchia, and De Vulgari Eloquentia. Connected with this is the De Rhythmis Vulgaribus of Ant. di Tempo, which treats, though imperfectly, of Italian verse, as the former had treated of Italian prosc, and the various kinds of style. In general, grammar and elegance of style were much cultivated by reason of the study of the ancients. Not only were the models of antiquity translated and explained, but a professorship was founded at Florence for illustrating Dante. Yet the specimens of elegant prose are few. Among the writers of travels of this century, Petrarca and the Minorite Odorico of Pordenone hold the first rank. The former made a journey to Germany, and gives an interesting account of it in his letters; he also wrote for a friend an Itinerarium Syriacum, without having ever bcen in Syria himself. Odorico travelled through a great part of Isia as a missionary, and, after his return, published a description of his travels, which may be found in Ramusio's work, but unfortunately so altered, that we can hardly venture to give credence to the accounts.

Fijth Period.-From 1400 to 1500. During this century, notwithstanding the continuance of internal troubles, Italian literature was in a highly flourishing condition. Two events, in particular, had a favorable influence: first, the conquest of Constantinople by the Turks, in consequence of which many learned Greeks fled to Italy, and diffused knowledge there; secondly, the flourishing state of the house of the Medici in Tuscany, the inembers of which
were distinguished for their patronage of the arts and sciences, and were enulated by the Visconti, Sforza, Este, the kings of Naples, the marquises of Mantua and Montferrat, the dukes of Urbino, and other princes, popes, magistrates and private persons. Without dwelling on the miversities, we merely saly, that two new oncs were added at Parma and Turin. In the preceding century, an academy of poctry had bcen established, and scientific academies were now instituted. The first of this kind was foumded by the great Cosmo, at Florence, for the revival of the Platonic philosophy. Similar societins were formed at Rome, at Naples, and, mimder the patronage of the learned Ahdus Manutius, at Venice. Men like Guarino of Vcrona, Giovanni Aurispa, and Francesco Filelfo, brought the works of the Grceks from obscurity; others were not less zealous in the cause of Roman literature. Public and private libraries were established in several places. This progress was promoted ly the invention of printing, which was quickly spread aund brought to perfection in Italy. As ancient literature became more generally studied, antiquities likewise attracted greater attention. Ciriaco of Ancona, in particular, thus gained a high reputation. No one of the many learned thicologians of these times is much distinguished. We shall mercly incution Nic. Malermi, or Malerbi, who first translated the Bible into Italian; Bonino Mombrizio, who collected the lives of the martyrs; and Platina, who, with great erudition, and not without critical acuteness, wrote the history of the popes, in an clegant and forcible style. After the arrival of the Greeks in Italy, a new impulse was communicated to the study of philosophy. Among several others, Paolo Vencto had already acquired fame as a philosopher by his logic or dialectics, and his SummulæRerum naturalium, in which he illustrated the physics and metaphysics of Aristotle. Among the Greeks who fled to Italy in the first half of this century, one of the principal was Johannes Argy ropulus, of whom Lorenzo de' Medici, Donato Acciaiuoli and Politian were scholars. Without entering into controversies, he explained Aristotlc, and translated several of his works. But after him, Georgius Gemistus (also called Pletho) gave rise to an obstinate contest respecting the relative supcriority of Aristotle and Plato. He himsclf, as the advocate of Plato, ridiculed Aristotle and his admirers. Geordius Scolarins (afterwards patriarch of Coustantinople) answered with vehe-
mence, and provoked Pletho to a still more violent reply. The famous Theodore Gaza, the cardinal Bessarion, and George of Trebisond, took part in the controversy. On the other hand, the admirers of Plato, at Florence, remained quiet spectators. The Platonic academy, founded there by Cosmo, was in a flourishing state. Marsilius Ficinus, and Johannes Picus of Mirandola, were its chief ornanents. The former translated the works of Plato into Latin, and wrote on the philosophy of Plato and of the Platonists. Their most eminent successors were A. Politian and Cristoforo Landino. Astronomy was still mixed with astrology. Some of the most learned astronomers were Giovanni Bianchino, whose astronomical tables of the orbits of the planets were several times printed; Domenico Maria Novara, instructer of the great Copernicus; and, above all, Paolo Toscanello, celebrated for the sun-dial made by him, in the cathedral at Florence. Mathematics and music now revived in Italy. One of the restorers of arithmetic and geometry was Luca Paceioli of Borgo San Sepolcro. Leone Battista Alberti, the author of numerous works on architecture, wrote in a manner no less elegant than profound; lie was also the author of valuable treatises on other subjects. The first writer on the art of war, was Robert Valturio da Rimini. For music, Ludovico Sforza first founded a public school at Milan, and made Franehino Gafurio its teacher, from whose pen we have several works, such as a Theory of Music ; also, a work on the practice of music, and a treatise on the harmony of musieal instruments. Medical science was but little promoted, considering the number of physicians ; they were satisfied with collecting the observations of their predecessors. Bartol. Montagna (Consilia Medica, and observations on the baths of Pad(12), Giov. di Concorreggio (Praxis nova totius fere Medecince, \&E.), Giov. Marliano, likewise an able mathematician and philosopher (a commentary on Avicenna), Gabriel Zerbi, Alessandro Achillini and Nic. Leonieeno (who exposed the errors of the ancients in a particular work, and was perhaps the first who wrote De Gallico Morbo), were distinguished in anatomy. Civil jurisprudence still stood in high estimation. In it were distinguished Cristoforo di Castiglione and his scholars, Rafaello de' Raimondi and Rafaello de' Fulgosi, who wrote Consilia, and explanations of the digests ; Giovanni of Imola, who wrote a commentary on the first part
of the Digestum novum ; Paolo of Castro, who wrote explanations of the code and digests; Pietro Filipuo Corneo, who left legal Consilia; Antony of Pratovecchio, who improved the feudal law, and wrote a Lexicon Juridicum ; Angelo Gambiglione, who wrote De Maleficiis, \&e. ; the great Accolti of Arezzo, Alessandro of Imola, sumamed Tartagni, who left many law treatises on the digests, the code, the decretals and Clementines, many Consilia, \&c. ; Bartol. Cipolla, who wrote De Servitutibus ; Pietro da Ravenna, who, besides several legal works, wrote rules for the art of memory, under the title Pheenix ; Bartol. Soccino and his opponent, Giasone dal Maino, and many others. In canonical law, the most famous authors were Nie. Tedeschi, Giov. of Anagni, Ant. Roselli, Felino Sandeo and the cardiual Giannantonio da San Giorgio. History made the greatest progress ; it ainned not only at truth, but also at beauty of diction. Among the many historians of this period, some may be regarded as models of historical deseription. Roman antiquities and ancient history were treated of by Biondo Flavio, whose principal works are Roma instaurata, Roma triumphans, Italia illustrata, Historia Romana, De Origine et Gestis Venctorum; Bernardo Ruceelai (De Urbe Roma) ; Pomponio Leto (De Antiquitatibus Urbis Romre, De Magistratibus Romanorum, Compendium Historice Romanc), \&c. ; and Annio of Viterbo, whose Antiquitatum variarum Volumina XVII contain the works of ancient authors, now aeknowledged to be spurious. Histories from the begiming of the workd to their own times, were written by the archbishop Antonio of Florence, Pietro Ranzano, Jac. Filippo Foresti, Matteo and Matthia Palmieri, and Sozomeno, all of which are valuable only as far as they treat of their own times. As historians of their times, and of their country in general, the following are deserving of notice: Æneas Sylvius, afterwards pope Pius II, who left a great number of historieal works, and whose history of his own times has been continned by cardinal Jacopo Ammanato; Giov. Mich. Alberto of Carrara, Leonardo Bruni of Arezzo, the Florentines Poggio and Bartolommeo Scala; the Venctians Marco Antonio Sabellico, Bernardo Giustiniano; the Paduans Pietro Paolo Vergerio and Michael Savonarola (the physieian); the Vicentine Giambattista Pagliarini ; the Brescian Jacopo Malvezzi and Cristoforo da Soldo ; the Milanese Andrea Biglia, Pictro Candido Decembrio, Lodrisio

Crivelli, Giovanni Simonetta, Giorgio Merula, Donato Bosso, Bernardino Corio and Tristano Calehi ; the Neapolitans Lorenzo Valla, Bartolonmeo Fazio, Antonio Panormita, Gioviano Pontano, Miehele Rieei, Giovanni Albino, Tristano Caraccioli, Antonio Ferrario and others, to whoin is to be added Pandolfo Collennueeio of Pesaro, the only one who wrote a general history of Naples. Giorgio and Giovanni Stella, and Bartolommeo Senerega and Jaeopo Bracello wrote the history of Genoa. Savoy had, in this period, two historians,-Antonio of Asti (who wrote a ehroniele of his paternal city in verse), and Benvenuto da San Giorgio (a history of Montferrat, accompanied with documents). As a historian of Mantua, Platina deserves mention. As geographers were distinguished Cristoforo Buondelmonte, who travelled in Asia; Francesco Berlinghieri, who wrote a geographieal work in verse; Caterino Zeno, who deseribed his travels through Persia ; the famous navigators Cada Mosto, Amerigo Vespueci and Cabotto (Cabot) and others. In the Oriental languages, Giannozzo Manetti was distinguished. The study of the Greek language was spread by Mauuel Chrysoloras, Lasearis, and many other Greeks, who fled to Italy, on whom and on their selolars, some of them men of great learning, we cannot here dwell. With no less zeal was Roman literature cultivated. The names of Guarini, Aurispa, Filelfo, Lorenzo Valla and Angelo Poliziano are distinguislied.
Sixth Period.-From 1500 to 1650.In this period, Italy attained the summit of its greatness. Its rieh materials for satisfying both the physical and intelleetual wants of man; the power of its republies and prineely houses; their zeal and munifieenee in favor of all that could restore the splendor of ancient times, made Italy a inodel for the rest of Europe. The wars which Ferdinand the Catholie, Maximilian I, Charles V and Franeis I proseeuted on her soil, did not, therefore, produce permanent injury. The former universities continued, and new ones were added, among which that of Padua was eminently conspicuous. The number of aeademies and libraries increased to suclı a degree, that liardly a city of importance in Italy was without them. Among the popes, there were many patrons and promoters of the arts and seiences, partieularly Julius II, the magnificent Leo X, Clement VII (whom unfavorable cireumstances did not allow to aecomplish his designs, but whose place
was supplied, in many respeets, by the cardiual Hippolitus of Este), Paul II1, Gregory XIII (who, as Ugo Buoneanpagno, had edited an improved and enlarged edition of the Corpus Juris canonici, and, as pope, correeted the ealendar), Sixtus V (who removed the library of the Lateran to the splendid palace of the Vatiean, and enlarged it, completed the publieation of the works of Ambrosius and of the Septuagint, eaused a new edition of the Vulgate to be published, \&r.), and Urban VIII (who united the Heidelberg hibrary with the Vatiean, and founded the Barberini). We must next mention, as seholars and patrons of seholars, the eardinals Bembo, Carlo and Federigo Borromeo (the last was the founder of the Ambrosian library at Milan), and Agostina Valerio. The princes were not behind the popes and eardinals. The most distinguished for activity and liberality were the Gonzaga of Mantua, the Este at Ferrara, the Mediei at Florenee, and the duke Charles Emmanuel I of Savoy. Notwithstanding favorable eireumstanees, theology made but slight advanees ; for after the storm of reformation had broken out in Germany, established doetrines were more obstinately maintained, and farther investigation diseouraged, with the exeeption of the editions of the Septuagint and Vulgate already mentioned. The study of the Holy Seriptures gained but little by the literary treasures that Italy possessed. Cajetan, the most celebrated commentator on the Bible, effeeted nothing worthy of note; and Diodati's translation, as it was not modelled servilely on the Vulgate, found no favor. Among the defenders of the established creed, eardinal Bellarmnin surpasses all the others in intrinsic merit. Cesare Baronio, the historical defender of the disputed papal prerogatives, brought to light the inost important doeuments and monuments ; and Paolo Sarpi, the assailant of them, united modesty, and an ineorruptible love of truth, with the deepest insight into the Catholie religion. But, notwithstanding all exertions to uphold the established doctrines of the chureh, the active spirit of philosophy eould no longer be restrained, not even in Italy. Besides the scholasties in the monasteries, and the Peripateties among the Hunanists, who revived and explained the aneient systems of philosophy, there appeared a philosophical sect of free-thinkers, who, together with the superstitions, rejeeted religion also. Pietro Pomponazzi, who taught annililation after death, left belind a numerous
school of sceptics, to which belonged scholars like cardinal Gonzaga, Contarenus, Paul Jovius and Julius Ceesar Scaliger. By their side stood Bernardino Telesio, also a preacher of infidelity, like Pomponazzi and his school, honored by the great, while Cesare Vanini and Giordano Bruno atoned for a smaller measure of impiety at the stake; and Campanella, who, as the opponent of Aristotle, and an independent thinker, prepared the revolution that took place in the 17th century, languished in prison. This spirit of iilquiry gave an inpulse to mathematics and physics. B. Telesio, Giordano Bruno and Th. Campanella endeavored to deduce the phenomena of nature from general principles. Hiero. Cardanus united these speculations with mathematics. The great Galileo brought mathematics and natural philosophy into the closest connexion by new cxperiments, and became a model to all, especially to the naturalists of his native country. In mathematics, Tartaglia, Cardanus and Bombelli were distinguished for their labors in algebra; Buonaventura Cavalieri prepared the way for the infinitesimal calculus; Commandino became celebrated for his labors on Euclid's Elements, and Marino Gheraldi explained Archimedes' theory of hydraulics. Luca Valerio enlarged the limits of mechanics by his discoveries ; Castelli produced a revolution in hydraulics; Maurolico opened the way in optics; Della Porta invented the camera obscura, and made the first experiments in aërometry ; Grimaldi discovered refraction ; Magini perfected the burning glass; Torricelli invented the barometer, and Riccioli made important celestial observations. Natural knowledge was amplified in all its branches. As students of the human frame and anatomists, Fracastori, Fallopio, Piccolomini, Aggiunti and Malpighi were celebrated. Ulyss. Aldrovandi travelled through Europe, to investigate the natural history of quadrupeds, birds and insects, and established a botanical garden at Bologna. Similar gardens were laid out by the university of Padua, by Cosmo duke of Florence, and various private persons. As botauists, Mattioli, Fabio Colonna, and the above-mentioned Malpighi, were distinguished. The acadenny of the Lincei labored in the cause of natural history from 1625 to 1640 . The first professorship of chemistry was founded at Pisa, in 1615. In physics and medicine, the men of most note are Fallopio and his great scholar Fabricius ab Acquapendente (who led Harvey to the discovery
of the circulation of the blood), Borelli, Torricelli, Bellini, Malpighi and Alpini. Among the jurists of this period, we find no great names after the age of the scholastics. History was cultivated with greater success. Historians and historical inquirers treated particularly of native history; Carlo Sigonio wrote a general history in Latin, Girolamo Briani in Italian, and, finally, Guicciardini in a classic style, in which his continuator, Adriaui, is inferior to him. In local history, Macchiavelli's History of Florence was the earliest masterpiece of inodern time. Davila, Bentivoglio, Bembo (both for his History of Venice-a continuation of the work of Andrea Navagiero-and for his Asolani and Letters), Angelo di Costanzo, Varchi, Paolo Sarpi, the cardinal Bentivoglio and others, are likewise celebrated. Numberless are the historical, geographical and topographical descriptions of single states, districts, cities, and even of monasteries, libraries and cabinets. Men like Paolo Giovio, Giambattista Adriani and Vittorio Siri were assiduous in preserving the memory of the literary services of their contemporaries and predecessors. Since the end of the 15 th century, Venice had been the centre of diplomacy and politics. Much was written there on political subjects, as Sansovino's work on Governinent, and Botero's State Policy. The study of the Oriental languages was promoted by religious notives. The Maronites on mount Lebanon wcre received into the Catholic communion. In order to render the union indissoluble, Gregory XIII erected a Maronite college in Romc, and established for its use an Arabic press. Sixtus V added salaries. This institution transplanted Oriental literature to Rome, and carried thither a great number of manuscripts. George Amira (who wrote the first Syriac grammar of consequence), Ferrari (who compiled the first Syriac dictionary), Gabriel Sionita and Abraham Ecchellensis were distinguished. From Roman presses issued the Arabic works of Ebn Sina, the geography of Sherif Edrisi, the Arabic commentary on Euclid. At Genoa an Arabic, and at Rome an Ethiopian Psalter had been previously printed. Giggeus published at Milan the first complete Arabic dictionary, and Maraccius, at Padua, the first edition of the Koran, illustrated by a commentary. Thus Italy was the seat of the study, not only of the Hebrew, but also of the other Shemitish languages. The study of the ancients must have been increased to a
great degree, after the art of printing had multiplied the copies of their works. Francesco Robertelli, Julius Cæsar Scaliger, Pietro Vittorio and Fulvio Ursino deserve the name of philologists. Others paid more attention to the information afforded by the ancients, and this study was facilitated by translations. Monuments of antiquity were collected, examined and explained with zeal. Mazzochio, and still more Andrea Fulvio, beginners, indeed, in the science, published ancient Roman inscriptions and coins. Giacomo and Ottavio di Strada made similar researches with greater success, and at length Fulvio Ursino illustrated this department with treasures of erudition. After him, Francesco Angeloni and Giovanni Pietro Bellori, Filippo Buonarotti, Filippo Paruta and Leonardo Agostino acquired reputation. But, in consequence of the study of the ancients, classical perfection of style became the aim of literature. The historians distinguished in this respect have already been named. Of a similar character, in point of style, are Sperone Speroni (Dialoghi and Discorsi), Annib. Caro (Lettere Famigliari, \&c.), Castiglione (Il Cortegiano), Della Casa (ll Galateo and Lettere), Giovanbattista Gelli (Dialoghi), Franc. Berni (Discorsi and Capricci), Pietro Aretino (Ragionamenti, \&c.), Nicolo Franco (Dialoghi Piacevolissimi), the two poets Bernardo and Torquato Tasso (the former for his Letters, the latter for his Philosophical Essays and Dialogues); finally, Pietro Badoaro (Orazioni), Alberto Lollio (Lettere and Orazioni), Claudio Tolommei and others. The Cicalate, as they were termed (academic prate), pieces in ridicule of the academies, published after the foundation of the Crusca, in the last half of the 16th century, are valuable principally in point of style. The early novelists found several imitators in this period; Bandello (q. v.), Firenzuola, Parabosco, Massuccio, Sabadino degli Arienti, Luigi da Porto, Molza, Giovanni Brevio, Marco Cadamosto, Grazzini, Ant. Mariconda, Ortensio Lando, Giov. Franoesco Straparola, Giambattista Giraldi, called Cinthio, to which are added the romance writer Franc. Loredano and the original Ferrante Pallavicino. Criticism began at last to erect its tribunals; but the principles on which it judged were vague and indefinite. This is proved by the contests respecting Tasso's Jerusalcm Delivered, Guarin's Pastor Fido, by Tassoni's attack on Petrarca, \&c. There was no want, however, of theoretical works. By his excellent essay Della Volgar Lin-
gua, Bembo became the father of Italian criticism. Trissino (Poetics) and Castellano are not without merit. Claudio Toloinmei wrote rules for modern poetry ; Sperone Speroni, Dialogucs on Rhetoric (Sansovino, Cavalcanti and othens had already preceded him); Bencdetto Varchi, a Dialogue on the Tuscan and Florentine Language (on occasion of the contest between Caro and Castclvetro), and Foglietta, On the Manner of writing History.
Seventh Period.-From 1650 to 1820. Hitherto, Italy had been the instructress of Europe, but, in the middle of the 17th century, it began to sink from its literary eminence. The principal causes of this change were the restrictions on the freedom of thought and of the press, which had been constantly increasing, ever since the reformation, and the decrease of wealth since Italy had lost the commerce of the world. The moral corruption, which became more and more prevalent, had enervated the physical strength of the people, and deprived the mind of its vigor and energy. The long subjection to foreign powers had created a servile feeling. The nation was afflicted, from 1630 to 1749, by numcrous wars, and at length sunk into a lethargy and a stupid indifference to its own greatness. Somc popes, princes, and even private persons, were, nevertheless, the active patrons of letters. At Florence, Sienna, Bologna, Turin, Pisa, institutions were established, some at great expense, by Leopold de' Medici, the count Marsigli Pazzi, \&cc., which promoted the cultivation of inathematics and natural science. Clement XI, Benedict XIII and XIV, Clement XIV, men of great learning and enlightened views, together with the cardinalsTolommei, Passionei, Albani (Knnibale and Alessandro) and Quirini, and, in later times, the cardinal Borgia, the learned Venetian Nani, and the noble prince of Torremuzza, rendered the greatest services. The rcign of Maria Theresa and Leopold was favorable to Lombardy and Florence. But none of the sciences, except the mathematical and physical, nade much progress. After Machiavclli, politics had no general writer of importance : only single departments of the subject, far removed from danger of collision with the doctrines of the church, were treated with spirit by Beccaria and Filangieri. Plilosophy continued scholastic: Italy neither invented any new system, nor gave admission to the systems of foreign countries. Theology gained not a single thinker. Though highly esteemed in his native country, the dog-
matic system of Berti was of little value. The works of Ughelli and Luccutins, entitled Italia Sacra, evinec the industry of the compilers; as do Galland's Library of the Fathers of the Chureh, and Mansi's Collection of Councils. Bianchini's fragments of old Latill translations, and De' Rossi's varions readings of the Hebrew text of the Old Testament, are valuable; but seriptural criticism and exegesis have produced nothing in Italy important for foreign countries. The authority of the Vulgate is still unimpaired, and the translation of the Florentine Antonio Martini, celebrated for its pure style, was made from it. But for the study of the Asiatic languages and literature, the missionary zeal has had the most beneficial results. The learned J. S. Assemanni published rich extracts from Oriental manuscripts. The Propaganda formed excellent Oricntal scholars, and published several Asiatic alphabets and grammars. As regards the critical study and illustration of the ancient classics, the Italians have remained behind other countries. The most eminent scholars in the department of Latin literature are Volpi, Targa, Faeciolato, and, as a lexicographer, Foreellini; in that of the Greek, Mazocchi and Morelli. Much more was done for investigating, copying, deseribing and illustrating antiquities, especially after Winckelmann had taught the Italians to examine them, not only in a historical and antiquarian point of view, but also as works of art. This study led likewise to the investigation of the primitive languages of Italy, especially the Etruscan. Gori, Maffei, Lami, Passeri, opencd the way for Lanzi. Polite literature, particularly elegant prose, of which alone we here speak, continued to decline till an cffort was made, after the time of Voltaire, to imitatc the Frencli. Thus Algarotti wrote Dialogucs on Optics clegautly and perspicuously, but superficially; Bettiuelli, On Inspiration in the Finc Arts, with much spirit; Beccaria, On Crimes and Punishments ; Filangieri, On Legislation, with dignity and simplicity; Gasparo Gozzi, Dialogucs, in a pure and agrecable style. In history and its auxiliary sciences, little was done in this period. Giannone was eminent in local, Denina in general history. As an investigator and colleetor of historical inaterials, Muratori acquired a lasting reputation : Maffici also should be honorably mentioned. Manni labored for the illustration of scals, and of gencalogy. Still less was donc for geograpliy. The most celebrated gcographer of Italy is the Minorite Vinceutio Coro-
nelli, who cstablished a cosmographical academy at Venice, and whose loss (1718) has never been supplied. Even among travellers, there are but few prominent. Something was done by Martini, who travelled through Cyprus, Syria and Palestine; by Sestini, who travelled through Sicily and Turkey; Griselini, who travelled through Inner Austria and Hungary; and Acerbi, who travelled in the North. No jurist, except Becearia and Filangicri, effected any thing of importance. But the works which appeared in the mathematical, physical and medical sciences still form the boast of Italian literaturc. Frisi and Girolamo Mazzucchelli were great masters in mechanies, hydrostatics and hydraulics; Boscovich and Mascheroni in the higher analysis and geometry. In mensuration, Lorgna, Fontana, Cagnoli, Ruffini and Casclla are respected names even in our day. Manfredo Settala made a celebrated burning-glass; Cassino enlarged the bounds of astronomy by great discoveries; Campani was distinguished for preparing optieal glasses; Torelli explained the elements of perspective with geometrical strictuess; Zanotti presented the world with valuable celestial observations; and Piazzi acquired renown as the discoverer of Ccres. Pliysics, for the promotion of which screral institutions were active in various places, made the greatest progress. Marsiglio Landriani, Felice Fontano, Toaldo, Tiberio Cavallo, Giovanni and others enricled it by important discoveries. Botany was advanced by Malpighi, Giovanni Seb. Franchi, Micheli, Giuseppe Ginanni, Vitaliano Donati, \&c. The Italians were successful in the use of the microscope. With its assistance, Redi (who wrote classical works on natural history), Valisneri, Felice Foutana, Lazzaro Spallanzani, made a great number of observations. With all the lovers of natural science and of chemistry, Volta is an honored name. In the study of the natural history of man and of anatomy, Gagliardi, Malpighi, Paolo Manfredi, and̆, after them, Valsalva, Santorini, Fantoni and Morgagni were distinguished. Practical medicine likewise was not neglecter. Franc. Torti taught the use of Peruvian bark ; Rammazini trod in Sydenham's footsteps in pathology and therapeutics; Borelli, Baglivi (who followed Hippocrates, however, in practice), Guglielmini, Bcllini and Michelotti made Italy the birthplace of the Iatromathematical selool in medicine. In literary history, the labors of Crcscimbeni, Quadrio Fontanini, A. Zeno, Mazzucchelli Fabroni, Tiraboschi, Corni-
ani and others (of Arteaga, for example, for the history of the opera), are highly valuable.
Eighth Period.-Italian Literature of the present Day, since 1820. Of late years, the literature of Italy is not to be compared, either in extent or in profoundness, with the literature of the neighboring countries. The indolence which springs from a too favorable climate, the restraints arising from the political state of the country and the condition of the book trade, which, in several parts of the peninsula, is under great restrictions, oppose serious obstacles to the free interchange of ideas. The infringements in one city on the copyrights of others increase these difticulties. The universities of Pavia and Yadua still maintain their hereditary reputation, and augment it by a zealous cultivation of the natural sciences ; Pisa may stand next to them ; Sienna and Perngia have made less effort to deserve the notice of foreign countries, and the universities of Rome, Naples and Turin are of a limited character. With these univessities, to which, in Lombardy, gymnasia and elementary schools afford suitable preparation, a number of academies are appropriated to every department of science and art, though they are not all so active as the Lombardo-Venetian institution at Milan, which has published several valnable volumes of memoirs. Names like Oriani, Carlini, Breislak, Configliachi, Brunatelli, are the best pledges of its devotion to the exact sciences. After it, the academy at Turin (Memorie della $R$. .Acad. delle Scienze di Torino, vol. xxx, 1826), and the scientific society of Mode1ua (Memorie della Società Ital. delle Scienze residente in Modena, t. 19), deserve honorable mention. Foreign countries rarely hear any thing concerning the scientific bodies of Naples. The Herculanean academy at present pays, for the most part, with promises, and the sessions of many other academies are mere ceremonies. The Crisca and the Accad. de' Georgofli at Florence, with the Accad. Archeologica it Rome, alone sustain their place in the memory of foreign countries. Among the periodicals, the Biblioteca Italiana is a work of merit, and exerts a decisive influence by means of sagacions criticisms; but it has been often disfigured by injustice and harshness, especially when under Acerbi's guidance. Brugnatelli and Configliacchi's Giornale di Fisica, Chimica, Storia naterale, Medicina ed Arti, is the periodical most deserving the notice of foreign comntrics. The study of the Oriental languages, in Italy, is not so much advanced
as inl other countries. Gr. Castiglioni's explanation of the coins in the cabinet of Milan have found an impartial critic in Frahn of Petersburg ; and Rampoldi's Annali Musulmami (Milan, 1823, 5 vols.) display a judicious and critical use of Oriental sources. Much lias been done for the diffusion of the knowledge of the Armenian language by the publications of the Metocharists of St. Lazzaro, in the vicinity of Venice; and father Auger, the Venetian editor of Moses of Chorene, and the discoverer of an ancient Armenian translation of Philo (Ven., 1822), is said to be distinguished for knowledge of the language. Europe acknowledges Angelo Maio's merits in increasing the means of acquiring a knowledge of ancient classical literature. The discovery of the fragments of Cicero De Republica, and of so many other remnants of a classic age (though the complete Fronto did not correspond to its fame and the general expectation), give Maio lasting claims to the gratitude of scholars. Maio's success induced professor Peyron, at Turin, to make similar searches into the treasures of the public library intrusted to lim, and his sagacity was not altogether fruitless. Mazzucchelli of Milan contributed to the extension of ancient literature by the Johanneis of Corippus (Milan, 1820), and Rossini by the publication of Eudemus, from Herculanean manuscripts. Ciampi, after his return from Warsaw to Italy, Manzi, Anati, Nibby, are among those who have rendered servicc to classical literature by valuable commentaries. The count Ippoliti Pindemonti's translation of the Odyssey (Verona, 1822, 2 vols.), the odes of Pindar, by Mezzanottc (Pisa, 1819 and 1820, 2 vols.), and the Isthmian odes ( Le Odi Istmiche di Pindaro, traduzione di Gius. Borghi, Pisa, 1822), by Borghi, Mancini's Illiad, in stanzas (Flor., 1824), can satisfy those only who do not exact a strict fidelity of translation. Among the translations from modern languages into the Italian, are the works of sir Walter Scott and Byron. Klopstock's. Messiah was translated by Andrea Maffei. Bossi's Storia d'Italia antica e moderna (Milan) divells very long on ancient times, and shows frequent traces of French influence. There still appear historical works, which are better received by foreigners than by the country to which they belong; as the ahove-mentioned Famiglie celebri Italiane of the count Pompeo Litta (Milan, since 1530) ; the Storia di Milano, by Rosmini ; the Codice diplomatico Colombo Americano (Geıoa, 1823) ; Scina's Prosp. della Sto-
ria hetter. della Sicilia, and Spotorno's excellent Storia letter. della Liguria (Genoa, 18\%4) ; Beuci's Elogi, und Affo's Vita di Pierluigi Farnese, though the last belongs to the more favorite department of biography, for which materials may be found in Pélli's Memorie per la Vita di Dante (Florence,1823) ; Nelli's Vita e Commercio Letterario di Galileo Galilei (Florence, 1793, but not published till 1820), and contributions in the Biografia Cremonese, by Lanecti, and in the Italian editiou of the Biografia Universalc (Venice, Missiaglia). One hope, however, notwithstanding such are the sigus of the times, remains to the fricud of Italian literature, that the abundance of monuments of former times in this land will always preserve alive historical recollections. The explanation of the present gives an opportunity to recur to the past, and to animate its dim recollcetions by their connexion with tangible realities. How interesting, for example, is the history of the eathedral of Milian! But Italy's associations are not limited to Christian times. L'Italia avanti il Dominio de' Romani, by Micali (new ed. Livortıo, 1821 , folio), indicates the point to which the inquirer may ascend. Investigations connected with ancient monuruents canuot be wanting in a country where so much remains to be explored. Inghirami's Monumenti Etruschi o di Etrusco . Vome, the illustrations of the editor of the Galeria di Firenze, so far as they relate to ancient monuuents; the Mcmoirs of the archæological acadeny of Rome, and the rare works of the Bourlon acadeny, are among the phenomena not to be overlooked in forcigu eomutrics; aud the cssays of Nibby, Fea, Borghesi, Lama, Cattanco and Broechi unite solidity wifh perspicuity and a comprelensive surves. But low little the proper mode of treating this departureut is understood, may be scen from Vermiglioli's Lezioni clemintarie di . Ircheologia (Verona, 1820, 2 vols.), which are as nscless to forcign countrics at Labu's investigations ou Roman inscriptions, which either treat of what is well known, or explain obscurely whatever they give of new. The Raccolta di Anti-- hità Ǵreche c Romane ad Uso degli . Irtisti, dis. cul Incise da Gio. Bignoli, is not without in rit. The activity of the trade in works of art in Italy promotes also the prablication of views of the menments of the middle ages (for crample, the Monumenti sapolcrali "ii Toscana, the Raccolia derli misthori Fubbriche, Monumenti ed . Intichitit A Miluno; the Fubbriche di Vencio, Frathchoni, Cisa di Gresy, Piola, Veniturol. vil.
roli, Bonati), for explaining which associations of men of talent have been formed. Almost every book of travels by an Italian, presents inquiries into the retuains of :unticquity ; and Belzoni, who first kindled the enthusiasm of the succeeding travellers for investigating the remains of Egyptian art, only followed the taste of lits country. Della Cella, the naturalist Brocchi, one of the most intelligent of the late writers of Italy, the learned writer en numismaties Sestini, and Canillo Borghese, prove this position. It is not, however, so much the eustom in Italy to embelish travels with engravings as it is in France and England. Even the descriptions of cities, of which new ones are cyer in demand, are without this embellishment, and rctain their old defects. Italy is more independent in the exact sciences than in its literature, properly so called, particularly in the plysical department, and, hy its mathematicians, astrononners, naturalists, has acquired a reputation, to which it has been less true in the finc alts, with the exception of the plastic arts. Where men like Sangro, Flamti, Borgnis, Brunacei, Lotteri, Rordoni, employ theinselves in geometry and its application to geodesy and mechanics; wlierc astronomers like Plana, Brambilla, Iughirami, Oriani, Carlini, P'iazzi, Caeciatorc, De Cesaris, are engased in observatorics like those at Naples, at Palermo, at Milan, 'Turiu, Bologua, Floreuce, Rome,--ilie scicaces must make a rapid progress. The Correspondance astronomique of baron Zael (see Zach) afforded the Italian seholars an opportunity to make their discoveries and researclies known to the rest of Jurope. Zach, who lived in Genoa till 1827, promoted thence the diffiusion of nseful knowledge comected with his science, by an almanacco Gcnovese. Unhappily, a part of the strict mathematical iuvestigations is: buried in the transactions of literary societies; for exauple, in the Trausactions of the royal acedemy of sciences at Naules ; in the Transactions of the Poutonine society (Naples, 1819); in the Memoirs of the Lombardo-Venctian institute ; in the Reports of the scientific society at Modena; in the Ricerche geometrichic cit idrometriche fecte nella Scuola ingl' Inregneri pontifici de.Acque e Strude (Kone, 1820), which but ton rarely pass the $\mathrm{Al}_{\mathrm{i}} \mathrm{s}$ s. Geodesy, especially, is prosechted with great ardor, and two trigonometrical measurcments, comected with cach other, !ave given satisiactory results. Eigual zeal is manifestenl in the physical seiences, in which names like Zanntont,

Brugnatelli, Configliacchi, Bellingeri and Ranconi answer for the exactness of the observations and correctness of the calculations. The experiments on magnetism and electricity (Banarelli) have excited a lively interest even in Italy, and Configliacchi's and Brugnatelli's Giornale di Fisica, Chimica, Storia Naturale, Medicina ed Arti, which is published very regularly, gives the best account of their variety and thoroughness. Even the Opuscoli scientifici dh Bologna are almost exclusively devoted to the natural sciences in the widest comprehension, and maintain an honorable name. The geological observations of the count Marzari Pencati, who thought himself able to refute by ocular evidence the Wernerian theory of the formation of the earth, have attracted much attention. Among the geologists of Italy must be mentioned the talented and learnod Brocchi (who died in 1827, in Egypt), the author of the Conchyliologia subapennina, and who, by his interesting cssays, did much towards increasing the popularity of the Bibl. Ital. Renier, Corniani, Monticelli and Covelli (Prodromo della Mineralogia Vesuviana) keep up the interest in these studies. Patronised by goverument, the physical sciences have received the most extcnsive application to agriculture and tcclmology, which have made respectable progress, at least in Upper Italy. New branches of industry, as well as new kinds of plauts (rice from China, and grain from Mongolia), have been introduced; and the best mode of rearing silk-worms, manufacturing wine, and managing bees, has been made the object of public investigation, and the results have been very favorable. The lahors of the Accal. de' Georgofili, at Florence, have contributed much to the promotion of agriculture. Botany cannot be slighted in the Garden of Europe. Savii's Elementi di Botanica, afford foreign countries nothing new, but the works of Sebastiani, of Mauri, of Brignoli, Moricand, Tenore, of the superintendents of the gardens at I'isa, Rome, Naples, Palermo, evince the interest which is taken in this department; aud the Pomona in Rilieva of Pizzagalli, and Degaspari and Bergamaschi's Osservaz. Micologiche, evince the zeal of their authors. The investigation of the ligher economy of nature has received valuable contributions from Brunatelli, Configliacchi, from Angelini, Metuxa, the describer of the Proteus anguineus, Rauzani, Petagna, Laurenti and Cavolini ; and the structure of the human body was illustrated by Palletta, Maseag-

112 and others. 'The medical literature of Germany has attructed much attention. and several of the most distinguished German writers in this department have obtained successfiul translators and editors, especially for the use of the lecturers in Pavia, Padua and Bologna. Many of the Gernan works in the department of metaphysics lrave been also translated, althouglt the Frencl, like Destutt de Tracy, accorded nore witl the taste of the Italians. Besides Gioia, the author of the Idcologia esposta, Talia, the editor of a Saggio di Estetica, Germani Simoni, and some unsuccessful commentators upon Beccaria, the Collezione de' classici Metafisici (Pavia, 1819-22) was, perhaps, the best production in this department. De' Simoni has treated of natural law. Numerous explanations and editions have appeared of the Austrian code, which is possessed of legal authority in some of the states that speak Italian. It is worthy of mention, that Llorente's History of the Inquisition, and Sismondi's History of the Italian Republics of the Middle Ages, may be freely sold in the Italian states, while they are strictly prohibited by the neighboring states.

Italian Poctry. Italian poetry sprang from the Provençal, which was the first to flourish in Europe on the revival of civilization, and which was also communicated to Italy. Until the 13th century, we find in Italy only the poetry of chivalry by the Provençals and Troubadours. These wandering bards, intelligible to the Italians, and particularly to the Lombards, by the affinity of their sister language, traversed Italy, and were welcome guests at the courts, especially of the nobles of Loinbardy, at a time when poctry was considcred as indispensable at feasts. An instance of the estimation in which Troubadours (q. v.) were held, as the chief ornaments of a princely court, is found in the visit of Raimondo Berlinghieri, count of Barcelona and Provence, to Frederic Barbarossa, the Germann emperor, at Turin, in 1162, attended by a train of Provençal poets. The emperor was so delighted with their gaya ciencia, that lee not only made munificent presents to the ninstrels, but also composed a madrigal in their lunguage himself. At the court of Azzo VIÏ of Este, at Ferrara (1215 to 1264), some distinguished ProvençalsRambaldo di Vacheiras, Raimondo d'Artes, Americo di Reguilain-resided, and sang the praises of his daughters, Constanza and Beatrice. Here also flourished Maestro Ferrari, a native of that city, who, as well as many other Italians (Al-
berto Quaglio, Percivalle Doria, Alberto (lc' Marchesi Malaspina, \&c.), sang in the Provençal language. No one acquired so great a reputation as Sordello of Mantua, who visited Provence for the purpose of making himself familiar with the language and poetry of the country. Only a few fragments of these Italian Troubadours are extant ; but the first attempts to compose in the Italian language are not to be looked for in Lombardy, where the vicinity to Provence did not allow a taste for native poetry to spring up. Besides, the Italian of Lombardy was the least agrccable to the ear. The Genoese and Venetians wcre too much occupied with commerce ; the Florentincs, disturbed by domestic factions, were ignorant of the spirit of chivalry, and the popes wcre absorbed in theology and the canon law, and strangers to the spirit of poetry. In Sicily only could Italian poetry develope itself, bccause the Sicilians, always a poetical pcople, spoke a dialect sufficiently soft to afford the means of graceful versc. Neither commerce nor scholastic disputes occupied their thoughts, and their beautiful climate invited them to repose, and to fill the moments of leisure with poetry. They could not draw the poets of Provence to their country so easily as the Lombards, nor could they themselves so carily visit that country of love and poetry ; but enough of the Provençal songs reached them, to awaken them to similar attempts in their own languagc. They had also a court rich in every knightly and noble accomplishment. Frederic II, the German emperor, resided, for a time, in Palerno (from 1198 to 1212)-he who crowned a poet with his own hand, to whose court, as the old novelist rclates, thronged Troubadours, musicians, orators, artists, champions, and all persons of any kind of skill, from all countries, because of his munificence and his courtesy, whose noblc claracter is praised by Dante; but, not satisfied with hearing the verses of others, Frederic and his court composed poetry themselves, and productions of his, of his natural son Enzo, and his celebrated chancellor, Pietro delle Vigne, are still extant. One of the most distinguished Sicilian poets of that time was Ciullo d'Alcamo, of whom we possess a song entirely Provençal in form and character. We have also the namics and fragments of Jacopo da Lentino, surnamed il Notajo, of Guido, and Oddo delle Colonuc, Ranieri, Ruggieri and Inghilfiedi of Palermo, of Arrigo Testa, Stcfano, prothonotary of Messina, and

Monna Nina, who come down to the pcriod of Dante, and were the cause that every thing composed in Italian was then called Sicilian. After the year 1300, Sicily gave no farther models to Italy ; but the real founders of Italian poetry appear in Bologna, Florence, and otlicr citics of Tuscany. The oldest known to us is, perhaps, Folcacchiero de' Folcacchieri, but the most important is Guido Guinicelli of Bologna. A number of poets appeared in Tuscany, whose names Crescimbeni enumerates, and of whom he gives specimens. In the 13th century, Guittone d'Arezzo (author of a book of poems and 40 letters, interspersed with verses), Bruncto Latini (author of two poetical works- 11 Tesoretto and ll Pataffio), Guido Cavalcanti (author of a celebrated canzone and other poems), Ugolino Ubaldini (author of an excellent idyl in the form of irregular canzoni), and Dante of Majano (author of a book of poems), deserve mention; but we find hardly a poet of eminence in the other provinces. By the side of the amatory poets Jacopone da Todi stands alone as a sacred poet. The forms of the early Italian poetry are horrowed from Arnaud Daniel, and other Provencals, and are, for the most part, the same which, in a more perfect state, characterize the latcr Italian poetry, viz. canzoni, somnets, ballads, and sestine. Wit!, the Sicilians, we already find the ottave also. Its character is, even at this early period, decidedly marked. Its ruling spirit is love-an idealizing love, to which the spirit of Christianity contributed the tendency to adore and attribute perfcction to the beloved object. Whether the now chatacter which appears in all the productions of this tinic had its origin, as some maintain, in the spirit of Christianity, or only in certain feelings which sprang up at this time, and naturally connected themselves with Christianity, at least in appcarance, we shall not here venture to decide, and refer the reader to the article Chivalry. It is certain that the modern spirit is esscntially different from the ancient. (See Classical.) After this preparatory period of Italian poetry was passed, appeared the great Florentine, Dante Alighieri (born 1265). He left at once the trodden path, and stands without predecessor or follower among all the great names which ornament Italy. We do not speak of the form of his Divina Commedia, which, from its nature, could not but bc unique, but of the peculiarity of his genius; but even his great poent, in which, as he says, heaven and earth assisted, and
which cost the poct the study of ycars, is ronnected with love, his Beatrice being his guide in the higlest spheres of heaven; and we should greatly misconceive the poct and his age, if we shonhd suppose that this circumstance was merely intended to commemorate lis carly passion. The spirit of the age mavoidably led hin to exhibit love as the great mover of the human soul. (See Dante.) As Dante's production is important in the history of the human mind and the progress of civilization, it is of equal importance in the history of Italian literature. Dante made the Italian dialect the lawful currency of literature. His intention to write his poem in Latin hexameters sufficiently shows in what a state he found the Italian language ; how little the light play of graceful rhymes had developad it for his great object. Hence his apology for attempting so serious a subject in the lingua volgare. The enthusiasm for Bante's poem was so great, that in Florence, Bologna and Pisa, professorships were carly established for the explanation of his Commedia. In Florence, Boccaccio was the first who filled this chair. Of the commentators we shatl mention, hesides the later Landino, only Dante's own sons, Pietro and Jacopo, with Benvenuto of Imola and Martino Paolo Nielobeato. The archbishop of Milan, Giovani Visconti, appointel two theologians, two philosophers, and two jurisconsults of Florence, to undertake jointly the interpretatiou of the thenlogy, philosophy and jurisprudence of Dante. Bosides Dante, there flourished scveral other poets, among whom Cino da Pistoia (q. v.) is the most distinguished. Me excelled in tender love poems, in which he celebrated his mistress Selvaggia, and was the precusor of Petrarca, for whom hic also prepared the language. Cceco d'Ascoli, also a contemporary of Dante, wrote a didactic poem, in five books, on w!ysies, morals and religion, under the title Acerba (properly Acerbo or Acervo). Francesco da Barberino composed his Documenti d'? Amore, in which he treats of virtue and its rewards, in rude and irregnlar verses, and his other poem, Del Regrimento e de' Costumi delle Donne, alai) a noral and didactic poen. Fazio degti Uberti wrote, at the same period, his Dittamondo - a system of astronomy and geograply in verse, in which Dante sarve.I hiin as a inodel. Without dwelling on the less important lyrical poets, Benuccin Salimbeni, Bindo Bonichi, Antonio da Fenara, Francesco degli Albizzi,

Sennuccio del Bene, a friend of Petrarca, we come inmediately to the latter. (See Petrarca.) His love did not, like Dante's, inspire the idea of one great poem, treating on all the acts and eftorts of man, and his religious conceptions were still inore strongly the ideal of love. His somets and canzoni are very differently estemned; but if they appear to nany rcaders of our age frequently overstrained, and somctines devoid of the spirit and fulluess of genuine poetry, to others they are a model of lyrical excellence; ancì his influence on the language of Italian poetry has been very great, rendering it softer and more flexible than Dante had left it. Pctrarca was an exeellent scholar, and well acquainted with Roman elegance, and he clevated his langnage to the greatest purity, beauty and melody. Mis followers are innumcrable. Among then, in the 14.th century, are the two Buonaccorsi da Montemagno, and Franco Sacchetti, the writer of novelle. The glory which Petrarca liad acquired in a species of poctry easy in itself, and so consonant with the taste which his nation has preserved even to the present time, and to the spirit of the age, was too enticing; but the Petrarchists forgot that it is the spirit of their master which gained him his fame, and not merely the hannonions sound of his musical rlyymes; and they poured forth immumerable pooms, a coniparison of which with those of Petrarca could only raise hiin still higher. Petrarea not only wrote lyrical poems, but, in his capitoli, or trimemphs, approaches the didactic. He composed also Latin poems, celogues, and an epic, Africa, celelrating his favorite hero, Scipio, the latter of which obtained him the poetic laurel, in the capitol, in Rome, and which-so easily do great poets inistake their own meritshe himself valued most, whilst he considered his lyrical poems of little value, and in his old age wished that he had not written them. Not less famous than Petrarea is his friend Boccaccio. (See the article Boccaccio for an account of his great service in the formation of Italian prose.) The satirical somets of Pucci, the didactic essay on agriculture by the Bolognese Paganino Bonafede, and the Four Kingdoms of Love, Satan, Vice and Virtue, hy his countryman Federigo Frezzi, under the title Quadriregno, an unsuccessful imitation of Dante, belong also to this period. In the 15th century, Giusto de' Conti first incets ns-an initator of Petrarca. In his sonnets he celebrates the beautiful hand of his mistress, on whicls
account the whole colleetion is called La Bella Mano. About 1413, the barber Burchiello, at Florence, aequired no little reputation by his peculiar, but, for us, unintelligible sounets. The attempt of the painter and architeet, Lcon Battista Alberti (somewhat later, under Cosmo de' Medici), to compose hexameters and pentameters in Italian, is worthy of mention. Lorenzo de' Medici, after the death of his grandfather (1464), the Pericles of the Florentine republic, was inspired by his passion for Lucretia Donati, a noble Florentine lady, to imitate Petrarca; yet he did it with independence. He was the pupil of the Platonist Marsiglio Fieino. Besides sonnets and canzoni, we have capitoli, stanze, terzine, and carnival songs, by him. His Symposium, or the Drinkers (Beoni), a sportive imitation of Dante, describes three journeys into a wine eellar. The most distinguished of the eontemporaneous poets was Angelo Ambrogini, ealled Poliziano, from the small village Montcpulciano, who is eelebrated also as a scholar and plilosopher. Besides a dramatic poen, Orfeo, there is a fragment by him, in beautiful stanzas, in praise of Julian of Mediei, on oceasion of a tournament, exhibited by the brothers, at Florenee. A friend of his was the graeeful amatory poet Girolamo Benivieni. Of the three brothers Pulci, Bernardo wrote two clegies, a poem on the passion of Christ, and was the first who translated the eelogues of Virgil into Italian. Luea was the author of the Heroides, a poem in ottave rime, in whieh he celebrated, earlier, but not less beautifully than Poliziano, a tournament of Lorenzo of Mediei, a pastoral, also in ottave rime, entitled Driadeo d'Amorc, and an epic prem of chivalry, Ciriffo Calvaneo, whieh in itsclf is of little value, and was left incomplete (Bernardo Giambullari finished it after the death of the poet), but which is remarkable as the commencement of those ironieal and serious poems of clivalry, which, with the declime of chivalry and the poetry of the middle ages, became matural, and, we might almost say, necessary to the poctieal spirit of the Italians. Huingi, the inost celebrated of the three, owes his faine not to the whimsieal sonnets in which lie and his friend, Matteo Franco, held eaeh other up to the laugher of Lorenzo and his guests (often in the most indecent language), nor to his Becr da Dicomano, \&ce., but to his Morfoante Maggiore, by whielı he became the predeeessor of Ariosto, who, however, surpassed him as much as be himself 11 *
surpassed the first rude attempts of the 14 th and 15 th centuries in this department, of which the Buovo d'Antona, La Spagna Historiala, and La Regina Ancroya, are the most known. The Membriano of Franeeseo Cieco da Ferrara, which is not unworthy to stand by the side of the Morgante, served to ainuse the Gonzaga, at Mantua; but a more immediatc predecessor of Ariosto was Matteo Maria Boiardo, author of the Orlando Innamorato, which at first was not mueh relished by the Italians, on account of its gravity, as they had already become too fond of irony in these epics of chivalry; so much so, that Bojardo, continued by Nieeold degli Agostini, was entirely re-cast by Domenichi, and, at a later period, by Berni. Contemporary with these epic poets were the satirist Bern. Bellicioni, and numberless Petrarehists, as Francesco Cei, Gasparo Visconti, Agostino Staecoli d'Urbino, Serafino d'Aquila, Antonio Tebaldeo, Berıardo Accolti, a celebrated improvvisatore, who assumed the modest surname L'Unico, a Neapolitan under the name of Notlurno, a Florentine, Cristoforo, under the name of L'Altissimo, \&c. Antonio Fregoso, surnamed Fileremo, wrote a moral erotic poem, La Cerva Bianca, of moderate value, with Selve, and gay and melancholy capitoli. Gian Filoteo Achilhini deserves to be mentioned, on aecount of his scientific-moral poems, ll Viridario and Il Fedele, and Cornazzano dal Vorsetti, for his poem on the art of war, entitled De Re Militari. Distinguished as femalo poets of this century arc Battista Montefeltro, wife to Galeazzo Malaspina, her nicce Constanza, Bianca of Este, Damigella Trivulzi, Cassandra Fedele, and the two Isottas. The 16th century, the period of Italian poetry, in which the princes of Italy, and particnlarly the popes, extendcd the most munificent patronage to poetry and the arts, begins with the Orlando and other poens of the admirable Ariosto. (q. v.) Giovannj Giorgio Trissino (q. v.) attempted, without success, the serions epie. Ilis work is dry and cold. Giovauni Ruecellai displays much tenderness and feeling in his didaetic poem Le Api. Luigi Alamanni (q. v.), author of a didaetic pocm on agrieulture (La Coltiva zione), a romantic epic, Girone il Cortese, and Avarchide (a modern Iliad, on the whole a failure), belongs rather to poets of the second rank. Sannazzaro distinguished himself in his Arcadia, and in his lyric poems, by delicacy of feeling and beauty of expression. Berni (q. v.) became the creator of a new department. Among the Petranch-
istz of this age are Bembo, Castiglione and Molza. Lodovico Domenichi published, in 1559, the poems of 50 noblc ladies. Among these was Vittoria Colonna, wife of Fernando l'Avalo, marquis of Pescara. (Respecting Aretino, equally known for genius and licentiousness, sce Aretino.) Bernardo Tasso, in his epic, and still more in his lyric poems, appears as an excellent poet, but was surpassed by his son Torquato Tasso. (See Tasso.) Guarini displays nuch grace in lis lyrics (madrigals and sonnets), but he owes his fane to lis Pastor Fido. Gabriello Chiabrera was distinguished as a lyric poet. He also wrote several epic poems and pastoral dramas. The learned father Bernardino Baldi published, besides somets and canzoni, a hundred apolognes in prose. Attempts had already been made in the Esopic fable l) Cesare Pavesi, under the name of Targa, and by Giammaria Verdizotti, but with less success. Teofilo Folengi, more known under the name of Merlin Coccajo, must be mentioned as the inventor of macaronic poetry. As early as the second half of the 16th century, the corruption of taste had begun, and continually increased, so that the 17 th century produced but very few works which can be considered as exceptions. We should menrion, however, Marino (q. v.), who, as it were, founded lis own school, from which proceeded Claudio Achillini, Girolamo Preti, Casoni and Antonio Bruni, who were his most ardent admirers. Alessandro Tassoni is known as the author of La Secchia Rapita, a comic and satiric epic. Francesco Bracciolini, who had imitated Tasso, in his Croce Racquistato, with no great success, by his Scherno degli Dei, disputed with Tassoni the honor of the invention of the mock-heroic, but does not equal him in grace and ingenuits: Two later mock-heroic poems- $1 l$ Malmantile Racquistato, by Lorenzo Lippi, and In Torrachione Desolato, by Paolo Minucci-have no other merit than the purity of their Tuscan language. The works of Carlo dc' Dottori, Bartolommeo Bocchini, Cesari Caporali, are not of distinguished merit. Filicaia's lyrical poems glow with patriotic feeling, and a noble elevation, which will always render him popular. Count Fulvio Testi was the Horace of his nation, but his epic productions were mere fragments. The caustic satires of the painter Salvator Rosa are not to be passed over in silence, amidst the general barreuness of Italian poetry, about the middle of the 17th century. The residence of Christina, queen of

Sweden, in Rome, and her predilection for the classic musc, served to banislı from the circle of poets, who assembled around her, the Marinistic cxaggeration, and to substitute for it a frigid correctness. Her conversion to the Catholic faith also attracted more atteution to sacred poetry than it had previously reccived in Italy ; but no poet of her circle inerits particular notice. Deserving of mention is Niccolò Forteguerra, author of the Ricciardetto, the last epic of chivalry. Nolli, whose songs and odes were popular, translated Milton's Paradise Lost, and was the first who made his countrymen acquainted with English literature, whilsh at the same time, the Frencl taste bogan to prevail, which exercised a decided influence, particularly on the dramatic literature of Italy. Fewer candidates now appear on the Italian Parnassus. The abbate Carlo Innocenzio Frugoni, among other poetical productions (mostly frigid occasional pieces), composed sonnets and canzoni, of which the sportive ones are praised. There is a successful translation of the Psalms by Mattei. The Arte Rappresentativa (the Histrionic Art) is a didactic poem worthy of mention, by Lodovico Riccoboni, who raised the character of the Italian theatre at Paris. Francesco Algarotti, the companion of Frederic the Great, belonging to the French school, in his odes, poetic epistles and translations, exhibited the pleasing ease, but, at the same time, the coldness of the French. Roberti and Pignoti wrote $\not$ Esopic falles with originality and elegance. Twenty pocts were united in the composition of a comic pocm, under the title Bertoldo, Bertoldino and Cacasenno. Luigi Savioli sung of love in the style of Auacreon. As erotic and lyrie poets, must be mentioned with him Gherardo de' Rossi and Giovanni Fantoni, called, among the Arcadians (see Arcadia), Labindo. $\AA$ pleasing enthusiasm pervades the poetry of Ippolito Pindemonti; and, among the productions of lis friend Aurelio Bertola of Rimini, the fables rank the highest. Clem. Bondi is pleasing, but without creative power. Giuseppe Parini, who imitated Pope's Rape of the Lock, displays true poetic elevation and fure feeling. Onofrio Menzoni, who is not without poctic originality, confined himself almost entirely to sacred poems. Alfieri was distinguished for his satires, lyric poems, his Etruria Vendicata, and his dramatic rompositions, translations, \&ic. (See Alferi.) The albate Giambattista Casti was distinguished for
elegance, wit and humor. His Animali Parlanti, a mock-heroic pocm, is rich in satiric and humorous traits. His Novelle Galanti are often indecent. The late Vineenzo Monti is pronounced unanimously to have been the greatest among the recent poets of Italy. Besides his dramatic compositions, his most celebrated poem is his Bassvigliana, in which he imitates Dantc. But who can cnumerate the host which now lays clain to the poetic laurel, partieularly since the souvenirs flourish in Italy also, and offer so fine a field for sonnets, of which there is hardly an educated Italian who has not composed some? The grave character which the times are assuming will perhaps put an end to these elegant trifles, whose abundance cannot be considercd favorable to an elevated tone, either in literature or the fine arts. The souvenirs have already declined in Germany, where they originated. The latest epic attempts have not been successfinl. The Italiade and S. Benedetto, by A. M. Ricci, Mose, by Robiola, the Moabitide, ly Franchi di Pont, were inferior to the specimens which have appeared of $\mathrm{Pa}-$ lomba's Medoro Coronato. More interest has becn excited by the tragedies, the authors of whicl, however, are restraincd by their party views of the romantic and classical. Fubbri of Cesena, Marsuzi, the duke of Vendignano, follow the example of Alfieri, respecting whose poetical system, see the article.Alfieri. Ugo Foscolo's Ricciarda (Londra, i. c. Turin, 1820) was intended to introluce a taste for the romantic style into Italy ; but it is alrcady forgroten. Manzoni, a cultivator of this kind of poetry, or of what the Italians understand lyy this name, has been more sucrcssful. Göthe praised Manzoni's Conte di Carmagnola (Milan, 1820) lighly. Pindemonti, Maffei and Nicolini, however, are placed ligher than Manzoni by all parties. The productions in the comic departinent are poor ; they appear, at least to other nations, heavy and dragging, and the Commedia dell' Irte (sec Drama) is not ronsidered worthy of notice by the high classes; yet its strong humor might perhaps please an unprejudiced mind more than the writings of Nota, Giraud and Panzadoro. Barbieri's Niuova Raccolta Teatrale, ossia Repertorio ad Uso de' Teatri Italiani (Milan, 1820), and Marchisio's Opera Teatrale (Milan, 1820), endeavor to supply the want of native productions by translations of French and German works-proof enough that the natural gaycty of the south, formerly the home of pleasure, is deparing. How can it be
otherwisc under the Austrian sceptre? Our limits do not pernit us to mention the writers of sonnets and operas. Trite snbjects are brought up under forms a thousand times repeated, and thus the miracle, that Sgrizzi can astonish his andience with improvvisated tragedies is partly explained. (See Improvvisatori.) The treasure of the novelle, of which Shakspearc so happily made use, lies before the Italian poets, untouched, and seems even to be little known to the Italian public at large. Theatres like those of S. Carlo at Naples, Della Scala at Milan, Pergola at Florence, where whole regiments inight appear on the stage, do not afford much reason to liope for the restoration of dramatic excellence. The historical novel, which sir Walter Scott has rendered so popular with all nations, has been attempted in Italy, as in Livati's Viaggi di Fr. Petrarca (Milan, 1820), Grossi's Ildcgonde, Manzoni's Promessi Sposi, and the Monaca di Monza. The history of Italian poetry, particularly of the older periods, is to be found in the works of Crescimbeni, Quadrio, Tiraboschi, and also in Ginguene's Histoire Littéraire d'Italie, Sisnoondi's work De la Litterature du Midi, and in Bouterwek ( (q. v.), the two last of which works come down to our own times.
Italian Theatre. The political state of Italy, and the easy, careless life of the people, in their mild and beautiful climate, have coöperated in causing the dramatic literature of Italy to remain in a very backward state. It was revived, as has been shown in the article Drama, earlier among the Italians than anlong other nations, because they had the model of the ancient drama before thcir cyes; but this very eircunstance was one reason why a national drama was not formed in Italy. The modern Italian, generally speaking, has not that reflecting turn of mind, which is neeessary for the composition and enjoyment of a truly good drama; nor has sufficent liberty existed for centurics in Italy to afford a fair field for dramatic talent. If it be objected that the Spanish drama attained its perfection under the stern sway of an absolute goverument, it may be answered, that the higher drama, with the Spaniards, is of a rcligious cast-a consequence of that religious gloom which belongs to the Spanish character, but which the gay Italian does not feel. The extemporancous mask, which is such a favorite. with the lower classes of Italy, is contemned for this very reason by the higher classes; and whilst the people in general
relish nothing but the commedia delp arte (see Drama), the higher classes earc ouly for the opera. The drama, therefore, properly so callel, does not appear like a natural part of Italian literature, and we trust it will not be considered an, arbitrary division, if we treat the Italian drama separately from the body of Italian literature. The dramatic writers of this country started with so close an initation of the ancients, that no Italian, down to the last quarter of the 15 th century, wrote a tragedy in any language exeept Latin; and the Orfeo of Angelo Poliziano, of that time, is a series of lyrieal poems dramatically attached to each other-a tragedy merely in name. The Sofonisbe of Trissino imitates in cvery point the ancient model, even to retaining the chorus; it is not without merit, but, on the whole, is a pedantic work ; yet, in the time of Leo $\mathbf{X}$, in 1516 , it was received with so much applause, as to be represented in Rome with great pomp. Ruccellai (1525) bears the same marks of imitation and want of poetical invention ; even Tasso's Torrismondo (about 1595), though particular passages remind us of his immortal pocms, is stamped with the same eliaracter. Ainidst the minute and anxious observance of the rules of Aristotle, closely followed by many Italian writers of tragedics not worthy of mention, count Prospero Buonacelli deserves credit for venturing to omit the chorus; on the other hand, the lawyer Vincenzo Gravina oncc more attempted to show that imitation of Seneca was the only way to tragic perfection. After Mortello, in the beginning of the 18th century, had finally attempted to improve the Italian drama by the imitation of Racine and Corncille (he even endeavored to introduce the French Alexandrine), Maffei, in his Merope, aimed at a middle course, and, without imitating either, to unite the excellences of Sencea and of the Frenel theatre. In this absence of real tragedies, the serious operas, the musical dramas of Metastasio (born 1698), may be properly mentioned. Their tone had been settled by the attempts of Apostolo Zeno. Without marked character or free play of imagination, they always preserve the decorum of the Frencl theatre ; but in elegance and melody of language, and in musical softness of cxpression for the common places of passion, particularly of love, they are unrivalled. Alfieri, who wrote towards the end of the last century, is, throughout his writings, a contrast to Mctastasio. (Sec Alfieri.) He does not satisfy a German or an English-
man in his conception of dramatic excelience. Among his followers are Vineenzo Monti of Ferrara, Alessandro Pelopi of Bologna, and particularly Giambattista Niecolini of Florenee, whose Polyxena received a prize in 1811. The pastoral dramas of Tasso and Guarini, viz. the Aminta of the former, and the Pastor Fido of the latter, form a novel kind of dramatic poetry. They entirely celipsed those of Niceold of Coreggio, Agostino Beccari, Cinthio Giraldi, Agostino Argenti and Buonarelli. Tasso succecded in uniting the sweetest tones of Theocritus, Anacreon, and of the celognes of Virgil, without injuring his originality. In comedy, the Italians also began with a close imitation of the ancients, not, however, of the comedy of Aristophanes, but of the Romans, Plautus and the calm Terencc. These productions werc called, in contradistinction from the extemporaneous comcdy, commedie erudite (leamed comedics). The comedies of Ariosto and the Clizia of Machiavelli exhibit this imitation. The other comedics of the latter arc altogether Florentine in their character, but we must admit that they are deficient in that elcyated tone of comedy, which we admire in Shakspearc. We mention Tasso's Gli Intrighi d'Amore only on account of the author's name. The Tancia, by the younger Michacl Angelo Buonarotti (162G), is one of the most remarkable Italian comedies, on account of the Florentine nationality so well portrayed in it. Goldoni endeavored to put an end to the commedia dell' arte, by his grave moralizing comedies. On the other haud, Gozzi strove to save the extcmporaneous comcdy, ly clevating its eharacter. In comedies, the subjects of which were taken fion fairy tales, and in tragi-comedies, the matcrials of which were from Caldcron and Morcto, without, however, having their poetieal execution or genius, he only wrote the chicf parts, and these in very easy verses. In the less important parts, which were intended for the standing masks, he was satisficd with indicating merely the lcading idcas, leaving the execution to the talent of the actor. He remained without a follower. Among the latest writers of comedies, we may mention Albergati, whosc Prisoner received a prize at Parma, and who wrote a number of agrceable farces ; the Venctian Francesco Antonio Avelloni, surnamed il Poctino, an imitator of the French; Antonio Simone Sograsi ; the Neapolitan Gualzetti ; the abbate Chiari ; the Piedmontese Camillo Fcderici ; the Roman Gherardo de' Rossi ;
count Giraud; Giovanni Pindemonti, \&e. (See Italian Poetry.) Augustus William von Schlegel says (vol. ii, p. 68, of his Dramatische Voriesungen), "We think it is not saying too nuch to assert, that dramatic poetry, as well as the histrionic art, is in the lowest state in Italy. The foundation of a national theatre has never yet been laid, and, without a total reform in principles, there is no prospect that it ever will be."

Italian Art. The art of painting was early introduced both into Italy and Germany by Greck masters; but the diversitics of national character, climate and religion, produeed different results in the two countries. A glowing imagination, an casy life, an innate sense for the beantifill, enthusiastie piety, the constant sight of nature in her faircst forms, and the contemplation of the masterpicces of ancient art, occasioned painting, in Italy, to unfold with great magnificence; while, in Germany, the ancient painters loved rather to dwell on the inward life and charactcr. They were poets and philosophers, who selected colors instead of words. The Italians have therefore remained inimitable in the ideal of this art, as the Grecks in statuary. The 12th century is generally taken as the period of the beginling of the history of paintiug in Italy ; but, even before that time, it had been the scene of the labors of Greek and Byzantine artists. During the pontificate of Leo the Great, in the year 441, a large picture in mosaic was executed in the Basiliea of St. Paul, on the road to Ostia, and the portraits of the 42 first bishops, which are seen in the same church, date their origin from the same time. Mosnic and encuustic painting was then the prevalent mode. Painting in distemper was afterwards introduced. About the end of the sixth century, there were many paintings, which were not believed to be the work of inortal hands, but were attributed to angcls or blessed spirits. To this class belougs one of the most famous representations of the Savior, in wood, at Rome, called Acheiropoieta, of which a sight can be obtained ouly with difficulty, in the sanctum sanctorum. Whether the evangelist Luke, whom painters afterwards choze for their patron saint, was himself a painter, has been the subject of much controversy. In Rome, especially, the madonnas in Sta. Maria Maggiore, Sta. Maria del Popoli, Sta. Maria in Araccli, and the one in the neighboring Grotta Ferrata, have been ascribed to the pencil of the evangelist. In the 8th century,
painting on glass, mosaic on a ground of gold, and painting in enamel, were zealously prosecuted in Italy. There were already many native artists. One of the odest monuments of art is the celebrated Christ on the Cross, in the Trinity chureh at Florence, which existed there as early as 1003. About 1200, a Greek artist, Theophanes, founded a schont of painting in Venice. The genuine Italian style first bloomed, however, in Florence, and may. be treated under thrce leading periods: 1. from Cimabue to Raphael ; 2. from Raphael to the Caracci; 3. from the $\mathrm{Ca}-$ racci to the present time.

First Period. The art was first pursued with zeal in Pisa. Giunta Pisano, Guido of Sienna, Andr. Tafi and Buffalmaco precede Cimabue, who was born at Florence, in 1240. This artist, who was regarded as a prodigy by his contemporaries, first introduced more correct proportious, and gave his figures more life and expression. His scholar Giotto excelled him evell in these respects, and exhibited a grace hitherto unknown. He was the friend of Dante and Petrarch, and practised, with equal success, listorical painting, mosaic, sculpture, architecture, and portrait and miniature painting. He first attempted foreshortening and a natural disposition of drapery, but lis style, nevertheless, remained dry and stiff. Boniface VIII invited him to Rome, whicre he painted the still celebrated Naricella. He was followed by Gaddi, Stefano, Maso and Simone Memmi, who painted the celebrated portraits of Petrarch and Laura. But Masaccio first dispelled the darkness of the middle ages, and a brighter dawn illumined the art. The Florentine republic, in the beginning of the 15 th century, had attained the summit of its splendor. Cosmo of Medici patronized all the arts and sciences; Brunellesclii then built the dome of the cathedral ; Lorenzo Ghiberti cast the famous doors of the baptistery in bronze; and Donatello was to statuary what Masaccio was to painting. Masaccio's real name was Tommaso Guidi. He was born at St . Giovanni, in Val d'Amo, in the year 1402. His paintings have keeping, claracter and spirit. His scholars first began to paint in oil, but only upon wonden tablets or upou walls, coated with plaster of Paris. Canvass was not used till long after. Paolo Uceelli laid the foundation for the study of perspective. Luca Signorelli, who first studied anatomy, and Domenico Ghirlaudaio, who conbined noble forms and expression with a knowledgc of perspective, and abolished the ex-
cessive use of gilding, were distinguished in their profession. The elevated mind of Leonardo da Vinci (see Vinci), who was born in 1444, and died 1519 , and who was a master in all the arts and sciences, infused so much philosophy and feeling into the art, that, by his instrmmentality, it quickly reached maturity. From him the Florentine school acquired that grave, contemplative and almost melancholy character, to which it originally leaned, and which it afterwards united with the boldness and gigantic energy of Michael Angelo. The Roman school already cuumerated anoong its founders the miniature painter Oderigi, who died in 1300 . He embellished manuscripts with small figures. Guido Palmerucci, Pietro Cavallini and Gentile da Fabriano were his most distinguished successors. Almost all the painters of this time were accustomed to annex inscriptions to their pictures: the annunciation to the virgin Mary was their favorite subject. Perugia was the principal seat of the Roman school. As early as the 13th century, there was a society of painters therc. Pietro Vanucci, called Perugino (who was born 1446, died 1524), first introduced more grace and nobler forms into this school, whose character acquired from him something intellectual, noble, simply pious and natural, which always remained peculiar to the Roman school. Perugino's great scholar, Raphael, soon surpassed all fonner masters, and banished their poverty, stiffiness and dryness of style. Taste came into Venice from the East. Andr. Murano and Vittore Carpaccio are among the earliest artists of that city. Giovanni and Gentile Bellino are the most distinguished painters of the earlier Venetian school. The former was born 1424, and died 1514 . The latter labored some time in Constantinople under the reign of Mohammed II. They introduced the glowing colors of the East; their style was simple and pure, without rising to the ideal. Andr. Mantegna (born at Padua, in 1431, died 1506) was the first to study the ancient models. Padua was the principal seat of the Venetian school. Mantegna afterwards transferred it to Mantua, and his style formed the transition to the Lombard school. Schools of painting flourished in Verona, Bassano and Brescia. Giovanni of Udine (who was so distinguished by his faithful imitation of nature in secondary things, that he painted for Raphael the garlands around his pictures in the Farnesina), Pellegrino and Pordenone, were the most able predecessors of the two great masters of the

Venetian school, Giorgione and Titian. No capital city served as the central point of the Lombard schnol: Bologna subsequently became the centre. Inola, Conto, Ferrara, Modena, Reggio, Parma, Mantua and Milan were afterwards considered the seats of this school. Galasio, who lived about 1220, Alighieri, Alghisi, Cosimo Tura, Ercole Grandi, and especially Dosso Dossi (born 1479 , died 1560 ), were the principal painters of Ferrara. The last, a friend of Ariosto, possesses a remarkable grandeur of style, united with a richness of coloring which may bear comparison with that of Titian. Bramante (boni 1444, died 1514), who was likewisc a great architect, Lippo Dalınasi, and especially Francesco Raibolini (born 1450), called Francesco Francia, were lighly distinguished among the Bolognese masters. The latter, who was marked by a tender religious expression and uncommon industry, had the greatest veneration for Raphacl. It is asserted that, at the sight of the St. Cecilia of this master, he was so struck with the impossibility of attaining the same perfection, that he fell into a dcep melancholy, and soon after died. Here also belongs the charming Innocenzo da Imola. But all these were far surpassed by the incomparable Antonio Allegri da Correggio, who, in fact, first founded the character of the Lombard scliool, so distinguished for harmony of colors, exprcssion replete with feeling, and genuine grace.

Second Period. We now come to the greatest masters of any age, who, almost at the same time, as heads of the four schools, carried every branch of the art to the highest perfection. In Italy, they and their scholars are called Cinquecentisti, from the century in which they flourished. This period of perfection passed away rapidly, and soon required the violent restoration, with which the third period commences. After Leonardo da Vinci, in the Florentine school, had settled the proportions of figures, and the rules of perspective and of light and shade, and his scholars, Luini (who united Raphael's style with that of his master), Salaino and Melzo, besides the admirable Baccio della Porta, who is famous under the name of Fra Bartolommeo (born 1469), and whose works arc distinguished for elevated conception, warmth of devotion and glowing colory, had done much for the art, and after the gentle and feeling Andrea del Sarto (born 1488, died 1530), the intellectnal Balthasar Peruzzi and the gay Razzi had made this school distinguished, arose
the most extraordinary of all masters, Michael Angelo Buonarotti (born 1474, died 1564). His gigantic mind grasped, with equal power, statuary, architecture and painting. His fire of composition, his knowledge of anatomy, the bolduess of his attitudes and foreshortenings, leave him without a rival; but, as a model, he was detrimental to the art, because lis imitators neccssarily fell into exaggeration and contempt of a simple style. In grandeur, his fresco painting, the Last Judgment, in the Sistine chapel at Rome, is inimitable. Beauty was never so much his object, as power and sublimity, especially since, in the former, he could never equal Raphael, but in the latter stood alone. Dante was his favorite poet. In lis later years, the erection of St. Peter's church almost entirely engrossed his thoughts. Rosso de' Rossi, Danicl of Volterra, Salviati, Angelo Bronzino, Alessandro Allori, and many others, were his scholars and imitators. In 1580, Ludov. Cigoli and Greg. Pagani began to awaken a now spirit. They retumed to nature, and sought to create a better taste in the chiaro oscuro. Domenico Passignani, Cristoforo Allori and Comodi were their followers. If we turn our attention to the Roman school, we find at its head the first of artists-Raphael Sanzio da Urbino (born 1483, died 1520). His genius showed itself as elevated in his fresco paintings, in the stanze and loggic of the Vatican (the former of which contain the School of Athens, the Parnassus and the Conflagration of the Borgo, while the latter contain scriptural scenes, from the creation through the whole Old Testament), as it appears lovely, spiritual and original in the frescos of the Farnesina (representing the life of Psyche). No less superior are his oil paintings, of which we shall only mention his madonnas, celcbrated throughout the world, especially the Madonna del Sisto (in the Dresden gallery), the Madonna della Sedia (in Florence), Madmna della Pesce (in Madrid), Maria Giardiniera (in Paris), Madonna di Foligno (in Rome), his St. Cecilia (in Bologna), and his last work, the Transfiguration of Christ. His scholans and successors-the bold Giulio Romano (born 1492, died 1546), the more gloony Franc. Penni il Fattore (bonn 1488, died 1528), the lofty Bartolonnneo Ranenchi, surnamed Bagnacavallo, Pieri$n o$ del Vaga, Polieloro da Caravaggio, Gemigniani, Benvenuto 'I'isi, called Garofolo, and many others-were skilful masters; but they forsook the path of their great sattem. and degencrated into mannerism.

Federico Baroccio (born 1528, died 1612) endeavored to counteract this tendency. In spirit, he belonged to the Lombard school, as he aimed at the grace of Correggio. Ile possesses an uncommon degree of grace and expression. Witl his scholars Francesco Vanni, Pellegrini, and the brothers Zuccheri, he infused a new life into the Roman school, though the latter produced pleasing rather than great works, and fell into mannerism. Muziano was distinguished in landscape painting, and Nogari, Pulzone and Facchetti in portrait painting. At the head of the Venetian school, we find the two excellent colorists Giorgione Barbarelli di Castelfranco (born 1477, died 1511) and Tiziano Vercelli (born 1477, died 1576). The portraits of the former are celebrated for their wannth and truth. The latter was great in all the departınents of art, inimitable in the disposition of his carnations, excellent as a historical and portrait painter, and the first great landscape painter. Even in extreme old age, his powers were unimpaired. Ariosto and Aretino were friends of the gay, happy Titian. He executed mauy works for the Spanish kings. Some of his most famous works are the altar-piece of St. Pietro Martire, his pictures of Venus, his Bacchanal and his Children Playing, in Madrid, his Cristo della Moneta, \&c. He first understood the art of painting with transparent colors. In groups, he selected the form of a bunch of grapes for a model. His successors-Sebastiano del Piombo, Palina Vecchio, Lorenzo Lotto, Paris Bordone, Pordenone-are distinguished, especially in coloriug. Schiavonc, whose chiaro oscuro and richness of color are truly remarkable; Giacomo da Ponto, called Bassano, who imitated reality, even in common things, to deception, and who was the head of a whole family of painters ; the ardent, inspired Robusti, called Il Tintoretto (born 1512, died 1594), whom Titian, through jealousy, dismissed from his school ; the fantastic, splendid Paul Veronese (born 1532, died 1588), who painted boldly and brilliantly with a free pencil, but neglected all propriety of costume, and frequently mingled masks in historical paintings, and the Veronese Cagliari, were ornaments of the Venetian school. It likewise degencrated, and its mannerists were worse than those of the other schools, because they did not study the antiques and the ideal. At the head of the Lombard school, we find the charming Antonio Allegri, called Correggio (born 1494, died 1534), whose works are full of feeling. (Sce Correggio.) His successors and
scholars were Francesco Rondani, Gatti, Lelio Orsi, and especially Francesco Mazzola il Parmegianino (born 1503, died 1540). This artist possessed much ease, fire, and a peculiar grace, which frequently borders on mannerism. Gaudenzio F errari, and many others, are the ornaments of the Milanese school. In landscape painting, Lavizzario was called the Titian of Milan. The famous Sofonisba Angosciola (born 1530), of Cremona, was highly distinguished in music and painting. As an excellent portrait-painter, she was iuvited to Madrid, where she painted don Carlos and the whole royal family, and gave instruction to queen Elizabeth. Van Dyke declared that he liad learned more from the conversation of this woman, when she was blind from age, than he had from the study of the masters. She died in 1620. Lavinia Fontana, Artemisia Gentileschi, Maria Robusti, and Elis. Sirani were celebrated female artists of this time. Canillo and Giulio Procaccino were distinguished for strength of imagination and excellent coloring. In Bologna, we find Kagnacavallo, a distinguished artist of this period, whom we have already mentioned as one of Raphael's scholars. He flourished about 1542 . Francesco Primaticcio (boru 1490, died 1570), Niccolò dell'Abbate, Pellegrino Tibaldi, Passarotti and Fontana were very able Bolognese artists.
Third Period. It begins with the age of the three Carracci. These excellent artists endeavored to restore a pure style, and, by the combined study of the ancient masters of nature and scicuce, to give a new splendor to the degraded art. Their influence was powerful. The division into the four principal schools now censes, and we find but two principal divisionsthe followers of the Carracci, who are called eclectics, and the followers of Michael Angelo Caravaggio, who are called naturalists. Lodovico Carracci (born 1555, died 1619) was the uncle of the two brothers Agostino (born 1558, died 1601) and Annibale (born 1560, dicd 1609). Lodovico was quiet, contemplative, soft and serious. Ilis passionate teachers, Fontana and 'Tintoretto, at first denied him any talent : he studied therefore more zealons$1 y$, and acquired the deepest views as an artist. Agostino united uncommon sagacity and the most extensive knowledge with a noble character. His brother Annibale, who made extraordinary progress in the art, under Lodovico's direction, became jealous of Agostino. The disputes between the two brothers never ceased, and the offended Agostino devoted him-
self chiefly to the art of engraving. The autacks of their enenies first mited them, and they founded together a great academy. The brothers were invited to Rome to paint the gallery of the duke of Farnese. They soon disagreed, and Agostimo retired, and left the work to his fiery brother. Amibale completed the undertaking with honor, but was shamefully cheated of the greatest part of his pay. Deeply mortified, he sought to divert his mind by new labors and a journey to Naples; but the lostility which he there experienced, hastened his death. Meanwhiile, the quiet Lodovico finished, with the aid of his scholars, one of the greatest works-the famous portico of St. Michael in Bosco, in Bologna, on which are represented seven fine paintings, from the legends of St. Benedict and St. Cecilia. The last of the labors of this great master was the Aunumciation to Mary, represented in two colossal figures, in the cathedral of Bologna. The angel is clothed in a light dress, and, by an mhappy distribution of drapery, his right foot seems to stand where his left belongs, and vice versa. Near at hand, this is not obscrved; but, as soon as the large scaffold was removed, Ludovico saw the fault, which gave occasion to the bitterest criticisms from his enemies. The chagrin which he suffered oll this occasion brought him to the grave. The scholars of the Carracci are numberless. The most famous endeavored to unite the grace of Correggio with the grandeur of the Roman masters. Cesare Arctusi was distinguished for the most faithful copies of Correggio and Guido Reni (born at Bologna, 1575, died 1642), especially for the ideal beauty of his heads, the loveliness of his infant figures, and the uncommon facility of his pencil. His fresco representing Aurora, in the palace Borghese, and his oil painting, the Ascension of Mary, in Munich, are well known. Francesco Albani (bom 1578 at Bologua, died 1660) lived in constant rivalry with Guido. He produced many large churelı paintings, but was most celchrated for the indescribable charm with which he represented, on a smałler scale, lovely subjects from mythology, and esprecially groups of Cupids. His paintings in the Verospi gallery, and his Four Elements, which he painted for the Borghese family, gained him universal reputation. The background of his landscapes is excellent. All liis works breathe serenity, pleasure and grace. The third great contemporary of those already mentioned, Domenico Zampieri, called Domenichino (born 1581, died
1641), was at first little esteened by them, on aecount of his great modesty and timidity. Thriee were prizes awarded by Lodovico to drawings, the author of whieh no one could discover. At last Agostino made inquiries, and the young Domenichino timidly eonfessed that the drawings were his. His industry and perseverance rendered him the favorite of his master. His works evince the most thorough knowledge, and are rich in expression of charaeter, in foree and truth. His Communion of St. Jerome, his Martyrdom of St. Agnes, and his freseo in the Grotta Ferrata, are immortal masterpicees. He was always remarkable for his timidity. He was invited to Naples, but was there perseeuted and tormented by the painters; and it is even suspected that he was poisoned. Giovanni Lanfranco (born at Parma, 1580, died 1647) was especially distinguished for the effect of his light. Bartol. Sehidone is one of the best colorists of this school. The Bibienas, the Molas, Al. Tierini, Pietro di Cortona, Ciro Ferri also deserve mention. At the liead of the naturalists, who, with a bold and often rash peneil, imitated nature, without selection, stands Miehael Angelo Merigi, or Amerigi da Caravaggio (bom 1569). His chief opponent in Rome was D'Arpino, who stood at the head of the idealists, or rather of the maunerists. Caravaggio and his suceessors, Manfredi, Leonello Spada, Guercino da Cento, \&e., often took common nature for a model, which they servilely imitated, thus profaning the genuine dignity of the art, though they cannot be denied strength and genius. About this time, the beginning of the 17th century, the bambocciate were introduced. (See Peter Laar.) Many artists, espeeially Mieh. Ang. Cerquozzi, surnamed delle battaglie, and delle bambocciate, followed this degenerate taste. Andrea Saechi made great efforts to oppose him. His drawing was correet and grand; Raphael was his model. His most famous scholar was Carlo Maratto (born 1625, at Camerano), whose style was noble and rasteful. The eavaliere Pietro Liberi, Andrea Celesti, the female portrait painter Rosalba Carriera (born at Venice, 1675, died 1757), who was distinguished for her drawings in pastel, the graeeful Franeesco Trevisani, Pinzetta 'Tiepolo, and Canaletto, a painter in perspeetive, were the most celebrated Venetian painters of this timc. Carlo Cignani (born 1628, died at Bologna, 1719) aequired a great reputation by his originality and the strengtl ${ }_{1}$ and agreeableness of his eoloring. Of his selolars, Marc. Antonio Franceschini was
distinguished (born 1648, died 1729): whose works are elarning and full of soul. Ciuseppe Crespi, ealled Spagnuoletto, deserves mention for his industry and correct style, but his pietures have unfortunately become very much defaced by time. Among the Romans, Pompeo Battoni (born 1708, died 1787) was prineipally distinguished, and was a rival of the eelebrated Mengs. Angelica Kaufmann deserves to be mentioned.-We must not forget the Neapolitan and the Genoese sehools. Of the Neapolitans, we name Tommaso de' Stefani (borm 1230), Fi!. Tesauro, Simone, Colantonio de'Fiori (born 1352), Solario il Zingaro, Sabatino (born 1480), Belisario, Caraeciolo, Giuseppe Ribera 'Spagnoletto (born 1593), Spadaro, Franceseo di Maria (born 1623), Andrea Vacearo, the spirited landseape-painter Salvator Rosa (born 1615), Preti, called $i$ Calabrese (born 1613), and Luea Giordano (born 1632, died 1705), who was called, from the rapidity of his execution, Luca fa Presto. Solimena (born 1657) and Conea belong to the modern masters of this school. The Genoese can name among their artists Semino (born 1485), Luea Cambiasi (born 1527), Paggi Strozzi, called il Prete Genovese, Castiglione (borm 1616), Biscaino, Gaulli and Parodi. Perhaps the most distinguished of the living painters of Italy is Camoceini. This reputation, however, is not allowed him him without dispute by foreign countries, and even by many artists of his native land. His style is grand, and purely listorieal ; his drawings are even more lighly esteemed than his paintings. His pieces, however, are cold, and their estimation seems to have diminished. Landi is a distinguished portrait painter, though his coloring is rather cold. The peneil of Grassi possesses an ininitable grace, and a true enehantment. Benvenuti, director of the academy in Florence, is the first artist there. A French artist (Fabre) in Florence is the eompetitor of Benvenuti ; his landseapes and his pastoral seencs are equally excellent. Colignon is also a very able artist, in the same place. Appiani, who died a few years ago at Milan, was particularly celebrated for the grace of his female figures; and Bossi had equal reputation, in a morc serious and severe style. The Florentine Sabbatelli's sketelies with the pen are higlly esteemed. Ermini, in Florenee, is a elarming miniature painter, in Isahey's manner. Alvarez, a Spaniard, and Ayez, a young Venetian, are in high reputc at Rome. The young artist Agrieola is particularly distinguished ameng
the artists of Rome. He is a native of Urbino. In purity of style, he is thought to surpass all modern artists. (For the history of Italian painters, see Lanzi's Storia Pittorica.)-In the art of engraving, the Italians have acquired great eminencc. Tommaso Finiguerra, who flourished 1460, was the first celebrated master of this art, which he taught to Baccio Bandini. They were succeeded by Mantegna; but Marco Antonio Raimondi, of Bologna, who lived in 1500, was the first to introduce greater frecdom into his engravings. His copies of Raphael have always been highly valued, on account of their correctness. His manner was imitated by Bonasone, Marco di Ravenna, Di Ghisi, and others. Agostino Carracci, Parmeggiano, Carlo Maratti and Pietro Testa etched some excellent works. Stefano della Bella was distinguished for his small, spirited and elegant pieces. Among the moderns, Bartolozzi deserves mention in stippled engraving. Cunego, Volpato, and Bettelini are also distinguished; but, above all, the Florentine Raphael Morghen, who has carricd the art of engraving to a degrce of perfection never before anticipated. The labors of Morghen, and yet more those of Longhi, perhaps the nost admirable of all modern cngravers, of Toschi, of Anderloni, of Folo, of Palmerini, of Lasinio, of Garavaglia, Lapi, Schiavonetti, evince an activity, to which new employment and new excitement have been afforded by the eagerness of travellers, and the number of splendid works on buildings (such as those on the cathedral of Milan, the Carthusian monastery of Pavia, the sacristy of Sienna, the Campo Santo of Pisa, the Monumenti sepolcrali of Tuscany, the principal edifices of Venice, the Chiese principali di Europa). Onc of the latest and best is the work of the brothers, Durelli, La Certosa di Pavia. The painter Francesco Pirovano, whose description of Milan exceeds all others in exactness, has also given us a description of this celebrated Carthusian monastery. As a medium between painting and sculpture (see Sculpture), we must mention mosaic, in which many paintings have been imitated in Italy, from the wish to render the master works imperishable. There is a distinction made betwcen the Roman mosaic executed by Tafi, Giotto and Cavallini, and the Florentine. (Sec Mosaic.) Mosaic painting seems to have flourished as well in France, whither it was transplanted, as in Romc. The art of working in scagliola (see Scagitola) has flourished for two centuries in Tuscany. In later tincs, Lamberto Gori
has distinguished himsclf in this branch. Rome is still the inetropolis of the arts. Pope Pius VII generously supported the plans of that lover of the arts, cardinal Consalvi; and the Chiaramonti muscum, by every account the most superb part of the long galleries of the Vatican, will be a lasting monument of his noblc patronage. All friends of the sublime and beautiful deeply felt the accident that befell St. Paul's church, near Rome, in the conflagration of 1823 . To restore it would hardly be possible. The loss of this noble Basilica is not adequately compensated by the cliurch of St. Peter and Paul, built opposite the castle of Naples, nor by the temple of Possagno, which, before it was finished, received the ashes of its founder, the great Canova. As a inonument, to the cmbellishment of which that distinguishod man contributed the last efforts of his genius, this church is a legacy highly to be esteemed by Italian artists. Sculpture and painting here again meet architecturc in a sisterly embrace. Canova's dcatl was the cause of its first solemn consccration. (For a particular account of Canova, scc the article.) Notwithstanding the excellence of their master, little is to be expected from the Italians of Canova's school. The monuments which were exccuted or planned by Ricci for the present grand-duke of Tuscany at Arezzo, by Pisani for the princesses of the house of Fiste at Reggio, and by Antonio Bosa to the memory of Winckclmann, rather depress our hopes than exalt them. The principal ground of hope of future excellence is in the love which has been generally awakencd for the plastic arts. Gem engraving has bcen carricd to a very high degree of perfection ; and Berini's labors well merit the wide reputation which they have acquired. As medalists, Manfredini in Milan, Pulinati and Mercandelli have produced works with which other countrics present little that can compare. In Rome, Girometti and Cerbara are highly esteemed in this branch of art.

Italian Music. The style of music now prevalent in Italy is characterized by the predominance of melody and song to the neglect of harmony, and is distinguished from the old Italian music. Like other branches of modern art, the music of modern times sprung from religion. The history of the art, after pointing out a few inperfect glimmerings of ancient music, conducts us to Italy, where, in the course of centuries, the ancicnt was first lost in the modern. Here we first find the proper choral song, the foundation of mod-
ern church music, which was at first sung in unison, chiefly in melodies derived from the old Greco-Roman inusic, and adapted to Christiau liymns and psalins. (See Music, and Music, Sacred.) It seems to have had its origin when bishop Ambrosius, in the fourth century, introduced into the western church songs and hymns adapted to the four authentic modes of the Greeks, and appointed psalmists or precentors. Gregory the Great, in the sixth century, enlarged the choral song by the plagal modes. From this time, singing-schools were multiplied, and much was written upon music. The most important inventions for the improvement of music generally, we owe to the 11th century, and particularly to the Benedictine Guido of Arezzo, who, if he did not invent the mode of writing musical notes and the use of the clef, improved and cnlarged them, determined the exact relations of the tones, named the six tones of the scale (see Solfeggio), and divided the scale into hexachords. In the 13th century, the invention of music in measure was spread in Italy, dependent upon which was that of counterpoint and figured music. Instruments were multiplied and improved in the 14 th and 15 th centuries. Many popes favored music, particularly vocal, and consecrated it by their briefs; yet the ecclesiastical ordinances restrained the independent developement of music. Much instruction was given in singing in the 15th century, and not entirely by monks. Music acquired the rank of a science, and vocal music in counterpoint was developed. In the 16 th century, we discover distinguished composers and musiciansPalestrina, composer for the chapel of pope Clement XI, whose works possess great dignity and scientific modulation, and his successor, Felice Anerio, Nanino da Vallerano, who, together with Giovanni da Balletri, were considered as distinguished musicians; also the celebrated contrapuntist and singer, Gregorio Allegri, and the great writer upon harmony, Giuseppe Zarlino, chapel-master at Venice. Music at Rome and Venice was cultivated with the greatest zeal. Hence it went to Naples and Genoa; and all Italy, Schubert says, was soon a loud-sounding con-cert-hall, to which all Europe resorted to hear genuine music, particularly beautiful singing. In the 17 th century, we ineet with the first profane music. The first opera was performed at Venice 1624 , at first with unaccompanied recitatives and 'horuses in unison; it spread so quickly, that the composers of spectacles were
soon unable to supply the demands of the people, and from 40 to 50 new operas appeared yearly in Italy. This caused great competition among the Italian musicians. Thus the peculiar character of the Italian music, not to be changed by foreign influence, was developed the more quickly, because this species was cultivated independently, and unrestrained by the church. Already, in the middle of the 17 th century, when the music of the theatre was continually advancing, simplicity began to give place to pomp and luxuriance, and the church style to decline. Music (says Schubert) united the profane air of the drama with the fervor of the church style, and this was the first cause of the decline of the latter. Let us now consider the principal periods of the former. Vocal music must have been first ; it was regulated by the discovery and improvement of instruments; thence arose the simple, grand church music of the 15 th and 16 th centuries; with it various forms of national song were developed. On the stage, the higher style of music flourished independently. Here the Italian, without much attention to the poetical part of the performance, which was, indeed, only the hasty work of a moment, followed his inclination for melody and sweet sounds, which appears even in his language. All the southern nations show a great sensitiveness, and melody is to them as necessary as harmony to the inhabitants of the North; but to no nation so much as to the Italians, whose beautiful climate and happy organization for song (Italy produces the most beautiful alto and tenor voicesfew base) made melody their chief aim in their music. On the other hand, the siniplicity of melody degenerated into efferninacy and luxuriance, from the time when vocal music developed itself independently, and the voice, but little supported by the instrumental music, began to be cultivated like an instrument; when, instead of poetical expression and truth, mere gratification of the ears, not deep emotion, but a momentary excitement, and a rapid change of tones, with the avoidance of all dissonance, were principally desired; when music began to predominate over poetry, which first took place on the stage, and thus the musical part of the performance obstructed the improvement of the dramatic and poetic. This taste spread over other countries so much the more easily, as Italian music liad advanced, by rapid strides, far before that of the rest of Europe, as appears even from the predomi-
nance of Italian terms in musieal language. This artificial developement of the song was promoted by the introduction of soprano singers on the stage, which destroycd the possibility of poetic trutl in dramatic representation. The voice was cultivated to the highest degree by means of the numerons conservatorios and singing schools. To this was added the great encouragement and the extravagant rewards of distinguished singers (Farinelli purchased a duchy); the great opportunities afforded for singing (as every place of consequence in Italy had its theatre, and many had several); besides which, music is an essential part of the service of the Catholic church, and castration was permitted ad honorem Dei, as a papal brief expresses it. The excessive culture of the voice must necessarily lead to the treatment of it is an instrument, to the neglect of poetical expression. Instrumental music, too, in this case, necessarily becomes subordinatc. Iustrumental music should not indeed overpower the song, as is the case in much of the French and Gernan music ; but in the Italizn music, the composer is almost restricted to showing off the singer, and cannot develope the fullness and depth of harmony which depends upon the mingling of consonance and dissonance. 'This is the reason why the masterpieces of Mozart have never entirely satisfied the Italians. Among the best composers, since the 17th century, are Girolamo Frescobaldi, Francesco Foggia, Bapt. Lully, the celebrated violinist and composer Arcangelo Corelli. To the singers, of whom the most were also composers, belong Antimo Liberati, Matteo Simonelli, both singers in the chapel of the pope. In the begimning of the 18th century, Ant. Caldara was distinguished. He increased the effect of the siuging by the addition of instruments, bat his style partook much of the theatrical. There were, besides, Brescianello, Toniri and Marotti. In the middle of this century, Italian music, especially theatrical, flourished, particularly at Naples, Lisbon, and also in Berlin. This has heen declared by some the most brilliant period of Italian music. There are some distinguished instrumentalists in Italy, as the organists Scarlatti and Martinelli, the violinist Tartini (who, evell in the theory of his instrument, was distinguished, and established a school, which was devoted particularly to the church style), Domenico Ferrari, Geminiani, Aut. Lolli aud Nardini, scholars of Tartini,
also the player upon the harpsichord and composer, Clementi, in London, and Paganini. Among the composers of the 18th century, are mentioned Traelta, who, through lis refinemente, injured the simplicity of composition; Galuppi, distinguished by simple and pleasing song, rich invention and good harmony ; Jomelli (q. v.), who gave greater importance to instrumental music ; Maio ; Nic. Porpora, the founder of a new style of singing, distinguished for lis solfeggios in church music; Leo; Pergolesi, whose music is always delightful, from its simple beauty (e. g. his Stabat Mater); Pater Martini, at Bologna; the sweet Piccini, rival of Ghack; Anfossi; the agreeable Sacchini (Edip.); Sarti. (q. v.) Of a later date are Paesiello (q. v.), Cimarosa, the ornament of the opera buffa, and Zingarelli (Romeo and Juliet), Nasolini, Paganini, Niccolini, Pavesi, and the now much celebrated Generali and the copious Rossini. More like the Gernans werc Salieri (q. v.), and the thorongh Righini (he likewise has written solfeggios). Cherulini and Spontini have more of the French claracter. Ainong the celebrated malc and female singers of Italy, since the 18th century, are Francesca Cuzzoni Sandoni, and her rival Faustina Bordoni (afterwards the wife of Hasse), and the Allegrandi, the sopranists Farinclli, Caffarelli, Genesino, Caristini, Marchesi : in later times, the celebrated Cresecntini and Veluti ; also the singers Baldassore Ferri, Siface Matteuce ; the tenorists Millico, l'acchierotti, Brixi Beuelli; the female singers Tesi, Mingotti, Gabrielli, Todi, Vandi, Marchetti, the sisters Sessi, particularly Imperadrice and Mariana Sessi, Angelica Catalani, Camporesi, Borgondio. The Italian school is yet unequalled in whatever depends upon the mere improvement of the voice; but the slavish imitation of their manner leads to affectation; therefore the German singers employ it no farther than they can without losing the spirit and poetical expression which the German song aims at.

Travels in Italy. No part of Europe has been so much visited as Italy, and none deserves to be visited more than this charming country, where a cloudless sky sheds perpetual brilliancy on the monuments of ancient greatuess and the relics of ancient art, whicli conspire with the finest works of modern genius, to delight the eye, and to carry back the mind to the great men and great events of fornier times. The sight of inodern Italy led Gibbon to write the sad story of the decline of her ancient gran-
deur; and how many poets liave owed to Italy their inspiration! It is impossible to see Italy and not feel the grave monitions of listory, or to pass through her liappy vineyards without being cheered by the scene, or to gaze on her works of genius without feeling the worth and the dignity of the fine arts. No wonder, then, that Italy is visited from all quarters. During the general peace in Europe, from 1815 until 1830, crowds of foreigners, particularly Englishmen, hastened to the beautiful peninsula. The latter were so numerous, that the lower classes of Italy called every foreigner un Inglese. Among these there were, of course, great numbers who, without capacity for enjoying what they saw, hurried through the country according to the direction of their guide-books, in order to be able to say, at the tea-tables in London, How beautiful the view from Monte Pincio is! Every one who has been in Rome must have met with such a traveller, his Vasari in his hand, working lis way with servile conscientiousness, through the beauties of the place. Expedition being an object with many of them, the shortest process for seeing all that was to be seen was soon found out, and flocks of travellers, at particular seasons, migrated to particular places. The average period of a jaunt through Italy is six months. The end of the journey is usually Naples, from which travellers advance south as far as the ruins of Pæstum. The Alps must be passed early in the autumn. The fairy islands of the Lago Maggiore, at that time, still wear their delightful drapery of fruits and leaves. The traveller thien enters, at once, the south of Europe, so different from the north. For visiting the principal places in Upper Italy, the Bolognese and Tuscany, there are two months before the beginning of the carnival, which, of course, must be enjoyed in Rome. After having visited the galleries and monuments in and about Rome, the traveller proceeds, during Lent, to Naples, to see the spring awaken in the Campagna. At Easter, he returns to Rome. Who could visit Italy without hearing the heavenly music in the Capella Sistina, during Passion week! There will perhaps lie time, on the return, to make an cxcursion to the Mark of Ancona; if not, no one, who has been to Rome througli Sienna, will now fail to take the road through Terni, Perugia and Arezzo. Genoa and Venice, as the most western and eastern points, are convenient to begin or close the journey with. It may be better, lowever, to begin with Lombardy and Genoa, in the autumn, and
not to extend the period of return far into the hot season. Lombardy attracts but little, after Rome, Florence and Naples, have been visited; but Venice, silent, melancholy Venice, still remains an object of ${ }^{\circ}$ interest, even in her decrepitude under the Austrian sway. Such a journey will occupy from the beginning of October until the middle of May, and will enable the traveller to see the finest parts of the country and the most remarkable works of art. But to become thoroughly acquainted with Italy, as it is and as it was, no one can stay long enough. Rome alone will fully occupy a man's life. He who wishes to become particularly acquainted with the middle ages, and to form a lively picture of them, will remain longer in Florence and Pisa. Late in a moonshiny night, when every thing is quiet, walk through the streets of Florence, and you may easily imagine yourself a contemporary with the Medici. He who wishes to devote himself to the antique or to Roman history, will stay longer in the alna città. Here he will also find hinself at the fountain liead of sacred music. Ie who desires to enjoy the beauties of a bountiful nature, will remain longer in Naples, lying like a paradise surrounded by the fields of Campagna, where the gigantic vine twines round the lofty poplars, and forms an embowering shade over the luxuriant grain. He who prefcrs to see a country where nature and man have not been mucl influenced by civilization, will proceed to Calabria and Sicily, which afford also the richest harvest to the botanist and mineralogist. He who wishes to become more fully acquainted with the history of the fine arts in the middle ages, will go to the smaller places, distant from the great roads, where he will find immumerable treasures, often unknown to most Italians themselves; as the historian finds rich treasures in the manuscripts stored up in the monasteries, illustrative of the contests of Italian powers among themselves in the middle ages, as well as of the great contest between the secular and ecclesiastical powers, the emperor and the pope: and what a boundless field is spread before the scholar in the Vatican! There are two ways of travelling in Italy, with post-horses (in which case a carriage belonging to the traveller is almost indispensable), or with the vetturino (in a lired coach1). He who travels without a family, and wishes to become acquaiuted with the people, will do best to adopt the latter mode. The traveller makes his bargain with the velturino, not only for
convcyance, but also for supper and lodging. The general price for the conveyance, from 35 to 40 miles a day, together with the meal and lodging, is about a ducat per day. As the reputation of a vetturino depends upon the good treatment of his travellers, it is lis interest to procure a good meal and a clean bed; thus travellers are spared the trouble of bargaining with the host. That the innkeepers in Italy havc a general disposition to flcece the traveller, is certain; and this leads many travellers, particularly English, not to touch a trifle in any inn without making a bargain ; for which very reason they are regularly overreached. The same disposition makes many English travellers so troublesome in Germany, where, the living bcing cheap, they expect to pay next to nothing in the first hotels, so that some hotels have actually refuscd to admit them. In large cities, where the traveller expects to stay some time, his best rulc will be to make a fair bargain after the first day, when he knows what he has to expect. Another great inconvenience for travellers arises from the ciceroni or servitori di piazza. These people, who have a sliarc of what the custodi and the poorcr possessors of some single curiositics receive from the travellers, have an interest in directing the traveller to cvery corner where an inscription, a piece of a column, \&c., is to be found. But how to avoid this, since a cicerone is indispensable? Two general rules may be found serviceable; not to attend, in Italy, to any thing but what is peculiar to Italy; collections of minerals, Japan porcelain, ©c., are to be found in other countries; and, secondly, to prepare one's self for the journey, and to know beforehand, in general, what is to be seen. Of course, these rules are only for those who do not stay for a long time in a place, and have no time to make acquaintances for themselves. Thrce nations, particularly, have furnished descriptions of Italy, the English, Germans and Frencl. We recollect to liave seen a very old and curions little book, a Guide through Italy for Pilgrims. The images of the virgin, miraculous relics, \&c., of coursc formed the great inass of the book; but antiques, coluinns, \&c., had received a Christian character, and were named after the apostles, \&c. The works of which we here speak, properly begin toward the end of the 17 th century, at which time the descriptions of Italy assume a more independent character. Since that time, the number has, particularly of late, greatly increased, so
that this branch of literature, in Girmany, is almost in disrepute. Among the earlier works in Englislı, the most estecmed are those of Burnet, Addison, and the others mentioned below. Gilbert Burnet, bislop of Salisbury, travelled, in voluntary cxile, through France, Germany, Switzerland and Italy, in 1685. His observations relate principally to religion and politics, on which subjects his views are those of a zealous Protestant and Whig. His work was succeeded by that of Addison-Remarks on scveral Parts of Italy (1705), clicfly devoted to antiquityand the less known works of Jolun Brcval (1726) and Edward Wright (1727). The journal of the French emigrant Blainville, who had become naturalized in England, appeared after his death, and was edited by Turnbull and Guthrie in 1742. The remarks of these travellers are chiefly directed to the classical antiquities of Italy, and they therefore have bcen designated by the name of classical travellers. Smollett's travels treat chiefly of modern Italy and the inhabitants, and are full of a morbid querulousness. The same is true of Sharp's. Barretti defended his country from the attacks of Smollett and Sharp, in his Account of the Manners and Customs of Italy (1767). John Moore's View of Socicty aud Manncrs in Italy is still interesting, and is rich in characteristic anccdotes. Patrick Brydone's picturesque description of Sicily is too celebrated to be passed over in silence, though it rclates increly to that island. Anong the numerous recent publications on Italy, few have acquired reputation in foreign countries We may mention Forsyth's Remarks on Antiquities, Arts and Manners during an Excursion in Italy in $1802-3$ (London, 1813). Eustace's Classical Tour through Italy (1802, in 2 vols., much enlarged in 1817, in 4 vols.) is prejudiced and inaccurate. Lady Morgan's Italy betrays the novclist. It is not to be reconmended as a guide through Italy. The Florentine A. Vieusseux, who left his country in early youth, and entered the British service, travelled through Italy, and wrote Italy and the Italians in the 19 th Century (London, 1824, 2 vols.). Among the other Englisll books of travels in Italy, which have appcared within the last ten yeurs, may be inentioned Bell's Observations on Italy. Simond's valuablc Tour in Italy and Sicily appeared in 1828; Narrative of three Ycars' Residence in Italy appeared in London, 1828; Lyınan's Political State of Italy, Boston, 1820 ; Rembrandt Peale's 'Notes on Italy, Philadel-
phia, 1831 ; Bigelow's Tour in Sicily and Malta, Boston, 1831. Of the French works on this subject, we may citc first the work of Maximilian Misson, a counsellor of parliament(in 1691), much read at the time inEngland and Germany. The works of Rogissart (1706), of Grosley (Mémoires sur l'ltalie par deux Gentilshommes Suedois, 1764), and of madame du Boccage (1765), did not preserve their reputation long. The abbe Richard's Description de l'Italie, \&cc. (1766, 6 vols.) was useful, as was also the work of Lalande (most complete edition, 1767), written on the same plan. It is a systematic dcscription of a tour, and is the basis of the German work of Volkmann. Dupaty's popular Lettres sur l'Italie (1788) are recommended by elegance of style and warn feeling. Their matter is not important, and affords little information to the traveller. The Corinna of madame de Stäel does not belong to this branch of literature in form, but it does in substance. It is a noble production throughout, and even where the views are erroneous, they are neverthelcss instructive. The Lettres sur l'Italie, par A. L. Castellan (Paris, 1819, 3 vols.), are cntertaining and instructive. Germany, which is fertile in every branch of literature, is so in descriptions of Italy, or travels in Italy. There arc some excellent works in German, treating of the scientific treasures of Italy ; but this is not the place to enumerate them. The German descriptions of Italy are often characterized cither by a minute collection of fucts, without inuch attention to agreeable arrangement, or a romantic exaggeration, which arrays all Italy in heavenly colors, and inhales fragrance from the very immondezza. The learned Keyssler, who wrote in 1740, complains of a liost of predccessors. His work (which was augmented in 1751 and 1776) was followed by a number of translations and rifacciamenti of English and French works, particularly the excellent account of Volkmann, already mentioned (in 1770 and 1771, with additions by Bernouilli since 1777, 6 vols.). A new continuation and correction of this work would afford a very useful manual for travellers. Archenholz's Italien (1785, augmented in 1787 ) represents the country according to English views. Jagemann opposed him in a vindication of Italy (Deutsches .Museum, 1786). To this class of works belong Göthe's Fragments on Italy, published at the end of the last century, and his Journal, published but a few years sinee. Count Leopold von Stolberg (1594) wrote a description of his journcy. Frederica Brun, Küttner (1796 and 1801),
E. M. Arndt, Seume (his Spaziergang nach Syrakus is a work fitted to gratify a sound mind, and appears to advantage among the host of sentimental publications, though it is by no means a guide), Gerning, Benkowitz and J. H. Eichholz, are among the legion of writers on Italy. Kotzebue poured out his satirical spirit, also, on this country. P. J. Rehfues lias, since 1807, published several works on Italy. Madame von der Recke's Journal was translated into French by Mad. de Montolieu, and is a compendious travelling library, which touches on almost eve1y thing important to a traveller. Kephalides (1818) unites much information with animated description. F. H. von der Hagen's (1818-1821, 4 vols.) work is valuable, particularly for its observations on the arts in the middle ages, as attention is generally paid only to classical art, and to the modern since the time of Raphael. Müller's Rom, Römer und Rőmerinnen has met with applause as a picture of manners and customs. There exist a number of descriptions of parts of Italy, which we have not room to cnumerate. On Sicily, one of the latest works is Voyage en Sicile fait en 1820 el 1821, par Auguste de Sayve (Paris, 1825, 3 vols.). Neigebaur's Handbuch für Reisende in Italien (Leipsic, 1826) contains muclı infornnation of value to travellers. Among the works which portray the beauties of Italian nature, one of the best is Vues pittoresques de l'Italie, by Coignet, drawn after nature and lithographized (Paris, 1825).

ITe, missa est (Latin, go-the ineeting is dissolved); a formula by which, on joyful feasts, the end of the low mass is announced to the people, and the assembly dismissed. The priest steps into the centre of the altar, and sings these words after the Dominus vobiscum. After a mass for the dead, instead of these words, he sings, Requiescat in pace, on which the response is, Amen. In Lent, Advent and the days of penitence, he says, Benedicamus Domino, to which the responsc is Deogratias. The word mass is derived from missa est.

Ithaca (I $\begin{gathered}\text { ak }) \text { ), or, as it is called by the }\end{gathered}$ moderns, Thiaki; one of the seven Ionian islands (q. v.) lying in the gulf of Patras ; lon. $21^{\circ} 1^{\prime}$ E., lat. $38^{\circ} 36^{\prime} \mathrm{N}$.; 18 miles long, and not over 5 broad; population, 8000 . The whole island is rugged and uncven. Ithaca is celebrated as the island of Ulysses, and is minutely described by Homer in the Odyssey. Of the places mentioned by Homer, many can be traced with great appearance of probability. The Kopakos пispou (Od. xiii. 403) is still
called Coraco-petra. The ruins of Cyclopean walls are described as similar to those of Argos, Tiryns and Mycenæ. The spring of Ithacus and the walls of the city, as well as the Acropolis, can also be traced. A sculptured rock, called $\mathrm{Ho}_{0}$ mer's school, somewhat resembles that which bears the same name in Scio (Chios). Pateras, vases, bracelets, chains, strigils, mirrors, lamps, coins, \&c., have been dug up in an ancient burying-ground here.

Ithaca, a large and flourishing village of the state of New York, is beautifully situated about a mile and a half south of the head of the Cayuga lake, being 170 miles west of Albany ; population about 4500. It has an academy, including a lyceum, a bank, a court-house and jail, a inarket-house, a Lancasterian schoolhouse, and four houses of public worship. The Clinton house is a large and elegant house of entertainment. There are three printing-offices, from which issue three weekly papers. The scenery around the village is romantic and pleasing. The hills about three miles from the village are from 300 to 500 feet high. Ithaca has five durable mill streams. Fall creek, the largest, descends, within one mile of the village, 438 feet, over several stupendous cataracts, and, winding across the plain, enters the head of the Caynga lake. The view of the last fall into the valley, is striking and grand. The whole sheet of water is precipitated over the rock 116 feet, and the banks above are 100 feet higher than the rock. The Cayuga inlet, passing through the village to the lake, is navigable for boats of 40 or 50 tons. The navigation is perfectly good through the lake, Seneca and Cayuga canal, to the Erie canal. There are, already, manufactories of cotton and wool, flour, paper and oil, iron founderies, \&c., although but a few of the many valuable mill sites are occupied.

Iturbide, Augustin, was born at Valladolid de Mechoacan, in New Spain, in 1784. Being of a family of some consideration in his country, he received a very carefut education. Until 1810, he hełd no higher rauk than that of a lieutenant in the provincial reginent of his native city. At this period, when the troubles in Mexjoo broke out, he entered into active service against the patriots, and was engaged in various contests with hodies of his insurgeut countrymen. Borne along by circumstances in the career of arms, he had risen, in 1816, by his valor and capacity, to the cominand of what was call-
ed the northern army, which occupied the provinces of Guanaxuato and Valladolid. About this time, he was suspected and accused of want of fidelity to their cause, by some of the royalists, but was acquitted of the imputation by the viceroys Calleja and Apodaca. But the disgust which lie felt in consequence of this charge, led him to retirc for a while from active service. In 1820, we find Iturbide again in the field, under circumstances which gave him unexpected importance. At that period, the imprudent acts of the Spanislı cortes produced so much exasperation among the clergy and the partisans of absolutism in Mexico, that these persons united to effect the independence of the country. They selected Iturbide as their agent, knowing his zealous agency in putting down the revolutionists and republicans of past years, and wholly unconscious of the views of personal aggrandizennent which he entertained. Being furnished with some moncy by them, he set out for the south ; and, having seized a convoy of specie on his route, he soon formed a junction with Guerrero, one of the patriot chiefs. Meanwhile emissaries had been despatched in all directions to prepare the pcople, who were accordingly ripe for revolution. At length the army reached Iguala, where (Feb. 24, 1821) Iturbide proposed the plan which bears the name of that place ;-the great objects of this instrument being the independence of Mexico, the protection of religion, and the union of the Spaniards and Mexicans. At the same time, an offer of the crown was made to Ferdinand VII, or to any other member of the royal family of Spain. On the strength of this plan, Iturbide continued his march to Queretaro, and was soon joined by Guadalupe Victoria, the most devoted of the friends of liberty. Meantime the viceroy $\mathbf{O}^{\prime}$ Donoju arrived from Europe, and, finding the whole country virtually with Iturbide, signed a treaty at Cordova (August 24, 1821), acceding to the provisions of the plan of Iguala. The road to power was now entirely open before Iturbide. He took possession of the capital in the name of the nation, and established a regency, consisting of members nominated by hiinself, and wholly under lis control. The republican party soon saw the object of his movements. A congress had been assembled, which made various attempts to counteract his designs ly diminishing his power, and at last brought the matter to an open rupture and a crisis. Iturbide, sceing no other way to preserve his au-
thority, resolved to usurp the crown, through the subserviency of his troops. Accordingly, May 18, 1822, the garrison and a part of the populace of Mexico rose and proclaimed Iturbide emperor, under the name of Augustin I. The next morning, congress was convened in extraordinary session, in the midst of the acclamations of the multitude, whose cries often drowned the voices of the deputies. The agents of Iturbide obtained a decree requiring his presence; and he appcared, accompanied by a number of military officers, having been drawn through the streets by the rabble. His election to the imperial dignity was proposed and discussed in his presence, and was voted for by 77 deputies, out of 94 who had assembled, being about one half the whole body of delegates. He returned to the palacc as he came, in a coach drawn by the people. Shortly afterwards, the congress decided that the crown should be hereditary in the family of Iturbide, gave to his sons and his father the title of princes, fixed upon him a ycarly allowance of a million and a half of dollars, and established an order of knighthood called the order of Guadalupe, thus completing, in every thing, the accessories of the new monarchy. All these arrangements were voted with a degree of unanimity which clearly proved the absence of liberty; and the provinces yielded a blind submission to what was decreed in the capital. The friends of liberal institutions, overawed and held at bay by the power of the usurper, fled to their wonted retrcats, or temporized until a fitting season should arrive for acting with union and efficiency. But they could not, and did not, acquiesce in a state of things so adverse to their feclings. Iturbide was driven by his necessities to hasten affairs to a crisis. In October, 1822, he seized and confiscated, without legal process, a convoy of $\$ 1,200,000$, on the way from Mexico to Havana. In the month of August preceding, he had caused several of the members of congress to be arrested, regardless of their privilege of personal inviolability. Finally (Oct. 30,1822 ), he ordered the dissolution of congress, causing the hall to be shut, of his own authority, and, on the same day, organized a junta to take the place of the legislative body, and nominated all the members himself. To supply the exigencies of the government, recourse was then had to forced loans, which served the more to exasperate the minds of the people, already disgusted with the successive ssurpations of Iturbide. Circumstances,
however, foreign to his acts of general oppression, brought on the catastrophe. At this time, the Spaniards retained possession of the castle of San Juan de Ulua, which commanded the port of Vera Cruz. The emperor had left the city of Mexico, and advanced as far as Jalapa, iutending, if possible, to obtain an interview with the governor of the castle. Disputes had previously arisen between general Santa Aña, governor of Vera Cruz, and general Echavarri, who commanded the southern division of the Mexican army ; and Santa Aña was summoned to Jalapa by the emperor, to answer to the charges of Echavarri. Santa Aña counted much upon the services which he had rendered Iturbide, and on his own popularity ; but, to his great surprise, he was treated harshly, and dismissed from his command at Vera Cruz. Hastening back to the garrison, before the news of his disgrace could reach them, he excited them to revolt, for the purpose of dethroning Iturbide, and establisling a republican government. He found the troops ripe for his purpose, and lost no time in advancing to Puente del Rey, where several skirmishes took place between the republicans and the imperialists under Echavarri. At length Victoria made his appearance, and was appointed commander-in-chief of the insurgents ; and, in February, 1823, Echavarri and his army joined forces with Victoria and Santa Aria, by the convention of Casa Mata. Defection now became general among the officers of the army, and in all the provinces, so that Iturbide saw plainly that his cause was hopeless, and hastily assembled at Mexico the dispersed members of congress, and tendered to them his abdication of the crown. This happened March 20, 1823. Congress very generously agreed to grant Iturbide a yearly pension of $\$ 25,000$, on condition of his leaving the Mexican territory for ever, and residing somewhere in Italy, making suitable provision for his family in case of his death. He proceeded to the coast, under escort of general Bravo, and embarked May 11, 1823, for Leghorn. He might have continued to live happily in one of the charming villas of Tuscany, had he not been impelled by an insane ambition to attempt the recovery of his lost empire. With this object, he left Italy for England, and embarked for Mexico May 11, 1824, precisely a year after his departure from it, and arrived in sight of the port of Soto la Marina July 14. During the year that had elapscd , the Mexicans had adopted a republi-
can constitution, and Iturbide had 110 party nor friends in the nation. The governineut had been apprised of his leaving Italy, and suspected his design. A decree was passed, bearing date April 28, 1824, declaring hin to be proscribed as a traitor, and requiring that, in case he landed in the country, the mere fact should render him a public enemy. Wholly deceived in regard to the fate which awaited him, Iturbide landed at Soto la Marina, accompanied only by his secretary, a Pole, named Beneski, and was almost immediately arrested by order of D. Felipe de la Garza, the commandant-general of the state of Tamaulipas, in which Soto la Marina is situated. La Garza lost no time in conducting his prisoner to Padilla, the provincial capital, and demanding instruction how to act, of the provincial legislature. He was instructed to put in execution, forthwith, the decree of congress, of April 28 th, by causing Iturbide to be shot,-apprehensions being entertained lest any delay in the enforcement of the decree should be the cause of some troublesome, although of necessity abortive, movement, on the part of the people. This took place July 18 th; and, on the 19 th, La Garza notified Iturbide to prepare for death on the same day. Iturbide in vain solicited for a reprieve until the general government could be informed of his situation, and have opportunity to decide upon his case. This, of course, La Garza denied him; and at six o'clock in the afternoon, after having confessed himself, he was conducted to the place of execution, where 60 or 70 soldiers stood in their ranks, under command of La Garza. Iturbide then made a short address to the assembled people, protesting his innocence of any treasonable purpose, exhorting them to observe the duties of patriotism, religion and civil subordination, and declaring that he pardoned his enemies. He was shot dead at the first fire; and his body was interred as decently as the means of the small town permitted. While this was passing at Padilla, the wife of Iturbide and two of his children, who had accompanied him from England, had landed at Soto la Marina. They brought with them a large quantity of proclamations, circulars and other papers, intended to aid the design of the ex-emperor, together with his imperial mantle and other insignia. So soon as the captain of the brig in which they came learnt the fate of Iturbide, he cut his cables and stood out to sea, leaving the widow and children of Iturbide totally destitute of every neces-
sary, and at the mercy of the very men who had just ordered the execution of her husband. But the feelings of the Mexican government were just and liberal. They continued to the widow the pension promised the family of Iturbide at the time of his abdication, annexing only the condition that she should live either in Colombia or the United States, in which latter country she has ever since resided. Such was the end of a man, estimable in his private character, and not without talents, who, if his fortune had led him to use his influence in the establishment of a free government, might have coutinued long at the head of affairs, and finally have departed from life respected and honored as a patriot, instead of prematurely suffering the ignominious death of a malefactor. (Pamphleteer, No. 56 ; Annales Biographiques pour 1826 ; Poinsett's Mexico.)

Ituzaingo ; the scene of a celebrated victory gained by the troops of Buenos Ayres, under Alvear, over the Brazilians. In the campaign of 1827 , the republicans pushed their forces into the province of Rio Grande, and encountered the enemy on the field of Ituzaingo, Feb. 20, 1827. The battle was obstinately disputed for six hours, but was gained at length by the reiterated and furious charges of the cavalry of the Banda Oriental. The Brazilians lost marshal Abreu, ten pieces of artillery, all their munitions of war and baggage, and about 2000 men. (Ann. Register.)

Itys, son of Tereus and Procne. (See Philomele.)

Ivica, Iviza, or Ibiza (Ebusus); an island of the Mediterranean, belonging to Spain, and the principal of the group called the Pithyusce. Its extent is 190 square miles; its population, 21,094. The soil is fertile, producing corn, wine, oil, fruit, flax, and hemp, with little labor. About 15,000 tons of salt are annually obtained by evaporation ; and it forms, with fish and wood, the chief article of export. 52 miles from Majorca.- The capital is of the same name, and has a good harbor. Population, 2700.

Ivory; the substance of the tusk of the elephant. Ivory is esteemed for its beautiful cream color, the fineness of its grain, and the high polish it is capable of receiving. That of India is apt to lose its color, and turn yellow ; but the ivory of Achem and Ceylon is not chargeable with this defect. Ivory is used as a material for toys, and as panels for miniature-paintings. To prepare it for the latter purpose,
it is to be washed with the juice of garlic, or some other absorbent composition, to remove its oily particles. The shavings of ivory may be reduced into a jelly, of a nature similar to that of hartshom ; or, by burning in a crucible, they may be converted into a black powder, which is uscd in painting, under the name of ivory-black. Ivory may be stained or dyed: a black color is given it by a solution of brass and a decoction of logwood ; a green one, by a solution of verdigris; and a red, by being boiled with Brazil-wood, in limewater. The use of ivory was well known in very early ages. We find it employed for arms, girdles, sceptres, harnesses of horses, sword-hilts, \&c. The ancients were also acquainted with the art of sculpturing in ivory, of dyeing and encrusting it. Homer refers to the extreme whiteness of ivory. The coffer of Cypselus was doubtless the most ancient monument of this kind in basso-relievo, and we meet with similar instances in the temple of Juno at Olympius, in the time of Pausanias ; that is to say, 700 years after it had been built. The ancients had numerous statues of ivory, particularly in the temples of Jupiter and of Juno, at Olympius. In thesc statues, there was very frequently a mixture of gold. The most celebrated are stated to have been the Olympian Jupiter and the Minerva of Phidias: the former was covered with a golden drapery, and seated on a throne formed of gold, of ivory and cedar wood, and enriched with precious stones. In his hand the god lield a figure of Victory, also of ivory and gold. The Minerva was erected in the Parthenon at Athens during the first year of the 87th Olynıpiadthe year which commenced the Pcloponnesian war. Pausanias likewise makes mention of an ivory statue of Juno on her throne, of rcmarkable magnificence, by Polycletes, together with numerous others.

Ivory Coast ; part of the coast of Guinea, between cape Apollonia and cape Palmas. (See Guinea.)

Ivy (hedera helix) ; a shrubby vine, celcbrated from remote antiquity, and held sacred in some countries, as in Grcece and Egypt. The leaves are smooth and shining, varying inuch in form, from oval entire to three or five lobed; and their perpetual verdure gives the plant a very beautiful appearance. The flowers are grcenish and inconspicuous, disposed in globose umbels, and are succeeded by deep green or alnost blackish berries. It ascends to the summits of the tallest trees,
having a stem sometimes three inches in diameter, and also clings to the sides of old walls, rocks, \&cc. It is found throughout almost the whole of Europe, and in many parts of Asia and Africa.

Iwan, or Ivan; the name of several persons distinguished in Russian history. The most celebrated are Ivan Wasiliewitsch and Ivan II, who laid the foundation of the Russian empire. (See Russia.) Ivan V (or II), Alexejewitsch, who inherited the crown during his minority, was half brother of Peter $I$, but, on account of his mental imbecility, took no part in the govermment. Ivan VI (or III) was grand-nepliew of the former, and son of the grand-princess Anna and of Antony Ulrich, duke of Brunswick-Wolfenbúttel. The empress Anna (q. v.) took him, in 1740 , out of the hands of her niece, declared him her son, and gave lim an apartment near her own. She soon after declared the child her successor, and her favorite Biron was to be his guardian and regent. Biron caused the oatl of allegiance to be taken to the prince, and, when he was banished, the parents of the child assumed the reins of government, until the daughter of Peter I, Elizabeth (q. v.), ascended the throne. The young Iran was taken from his cradle by soldicrs, and shared the fatc of his banished and imprisoned parents. He was at first inprisoned at Ivangorod, near Narva, it being intended to kcep him always in Russia; but his parents, who were confined at first in Riga, were to be sent to Germany. He never saw them again, but always remained a prisoner in different places, particularly in Western Prussia. In 1756, he was carried to the fortress of Schlüsselburg. In 1763, Mirowitclı, a nobleman of the Ukraine, who was lieutenant in the garrison of the above fortress, conceived the design of delivering the prince. He induced several soldiers to assist him, and, by means of a forged order from Catharine, he attempted to obtain admission to Ivan ; but two officers, who guarded him, when they saw that resistance was fruitless, stabbed the unfortunate prisoner, in consequence of an order formerly given by the empress Catharine, that he slould be put to death in case of an attempt to deliver him by force. She had already destroyed every proof of the claims of the prince to the throne, and prohibited, under penalty of death, the keeping of coins which could remind the nation of him. The chapel in Schlüsselburg, in which he was buried, was afterwards destroyed.

Ixios ; a king of Thessaly, son of Phlegyas, or of Leontes, or, according to Diodorus, of Antion by Perimela, daughter of Amythaon. He married Dia, daughter of Deioneus, and promised his father-in-law a valuable present for the choice he had made of him to be his daughter's husband. His unwillingness to fulfil his promises, obliged Deioneus to have recourse to violence, and he stole away some of Ixion's horses. Ixion concealed his resentment, invited his father-in-law to a feast at Larissa, the capital of his kingdom, and, when Deioneus was come aecording to the appointment, he threw him into a pit, which he had previously filled with wood and burning coals. This treachery so irritated the neighboring princes, that all of them refused to perform the usual ceremony, by which a man was then purified of murder, and Ixion was shunned by all mankind. Jupiter had compassion upon him, and placed him at the table of the gods. Ixion became enamored of Juno, and attempted to seduce her. Juno was willing to gratify the passion of Ixion, or, according to some, she informed Jupiter of the attempts which had been made upon her virtue. Jupiter made a cloud in the shape of Juno, and carried it to the place where Ixion had appointed to meet Juno. Ixion was caught in the snare, and fiom his embrace with the cloud, he had the Centaurs. (See Centaurs.) Jupiter banished him from leaven ; but when he heard that he had the rashness to boast that he had sedueed Juno, the god struck him
with his thunder, and ordered Mercury to tie him to a wheel in hell, which continually whirls round. The wheel was perpetually in motion; therefore the punishment of Ixion was eternal.

Iynx ; danghter of Pan and Echo, or of Peitio (the Suada of the Romans). She inveigled Jupiter into his intrigue with Io. As a punishment, Juno changed her into a bird, called the wry-neck (Iynx torquilla), which still possessed the power of exciting love. When it became desirable that Medea should be enamored of Jason, Venus gave the hero the magic iynx, and instructed him how to use it in order to inspire Medea with a passion for him. From this time, the iynx became a part of the love-spells among the Greeks. The enehantress tied the bird to a four-spoked wheel, which she turned while she inuttered her incantations; or, according to some traditions, she only stretched upon the wheel the entrails of the wry-neck. Another method was, to consume the bird over the coals, on a wheel of wax. The nagic wheel was also called $i y n x$, because the bird or its entrails were extended upon it. It is sometimes used as a symbol of the art of exciting love in general, and more particularly of unchaste love. In the sequel, the signification of the word iynx became different ; and it was extended to every charm in poetry and music. In this sense, the iynx went under the name of the nightingale ; and it is thus represented on the monument of Sophocles, and in the temple of the Pythian Apollo.

## J.

I ; the tenth letter, and seventh consonant, of the English alphabet. The character $j$ designates very different sounds in the different languages. In English, according to Mr. Webster, it represents the sound $d z h$ or $e d z h$. It has, in fact, the same sound as $g$ in Giles. In French, it is always sounded like the French $g$ before $e$ and $i$. In German, it has the sound of the English $y$ in you. In Italian, it is always a vowel (long $i$ ), and the charaeter $j$ is now little used by Italian printers, except at the end of words, for $i i$. In Spanish, $i$ is guttural, a little softer than the

German ch in ach. How nearly the sounds which are expressed by $j$ are related, has been shown in the article $\boldsymbol{G}$; and, in the article $I$, it is mentioned, that $i$ before another vowel naturally becomes the German j. (For other observations, also relating to $j$, see the article $I$.) Though the character $j$ is very ancient, it is only in recent times that it has been taken for a consonant, and still more recent is its separation from $i$ in dictionaries. In France, the use of $j$ for the consonant, and $i$ for the vowel, was not established in the middle of the 17th century. Among other
nations, the misture continued later. James Pelletier, of Mans, is said to have first placed the $j$ at the beginning of words which began with this consouant, in his French Grammar (1550). Gille Beys, printer in Paris, initated him in 1584. In regard to the separation of words beginning with the two letters, in dictionaries, the editors of the French Grande Encyclopédie, printed in 1765, did not dare to nake it ; and English dictionaries, even at the present day, are too often disfigured by the mixing together of $I$ and $J$, as well as $U$ and $V$. The Encyclopédie Modcrne calls $j$ a lettre proprement Francaise. The other nations adopted it from the French. The Romans, in inscriptions and legends of medals, wrote all words which we write with a $j$, as Jupiter, Justinus, with an $i$, as Iupiter, Iustinus. Yct the character $j$ existed several centuries before the fall of the Roman republic. The Greeks had it not.
Jablonsky ; the name of several learaed Germans.-Danicl Ernest was horn at Dantzic, in 1650; became a minister in Magdeburg ; in 1686, rector of the gymnasium at Lissa ; in 1690, pastor in Königsberg, and went afterwards to Berlin, where he died, in 1742, being then bishop or senior of the Bohemian Brethren in Prussia (Proper) and Great Poland. He endeavored to unite the Lutherans and Calvinists. Through queen Anne of England, he received the dignity of doctor of Jivinity, fron the university of Oxford. He published a number of sermons and several learned works on theology ; anong which are his Biblia Hcbraica cum .Notis Hebr. (Berlin, 1699) ; Jura et Libertates Dissidentium in Polonia; Oppressorum in Polonia Evangel. Dcsideria.-His brother, John Thcodore, was likewise an author:Paul Erncst, son of John, horn at Berlin, 1693, was appointed professor of theology and preacher at Frankfort on the Oder, where he died, 1757. He wrote :niny works: Disquisitio de Lingua Lycaonica (Bcrlin, 1714, 2d edit., 1724) ; Exercitutio de Nestorianismo (ib., 1724); Rempheh Egyptiorum Dcus ab Israelits in Descrio cultus (Frankfort, 1731) ; Disscrtaiiones VIII de Terra Gosen (ib., 1715, 1736, 4to.); Pantheon Jlgyptiorum sive de Diis corum Commentarius ( 3 vols., ib., 1750-52); De Memnone Gracorum et Egyptiorum (ib., 1753, 4to., with engravings) ; Opusculced. J. G. Waler ( 4 vols., Leyden, 1804 to 1813). -Charles Gustavis; a naturalist, born 1756; and died at Berlin, 1787, while secretary to the qucen of Prussia ; particularly known by the work commenced by voL. vin.
him-Natural System of all known native and foreign Insects, as a Continuation of Buffon's Natural History-of which, however, le executed only vol. 1, the Beetles (Berlin, 178:3), and vols. 1 and 2, the Butterflies (ib., 1783 and 1784). It was continued and finished by T. F. W. Herbst.
Jacamar (galbula, Brisson). These brilliant birds are nearly connected with the kingfishers, from which, however, they differ by the form of their beak and feet. Their plumage has a metallic lustre, which it is almost impossible to imitate by art. They live in damp woods, and feed on insects. Most if not all the true jacamars, are natives of tropical America. There are several species found in India, having a shorter and stouter beak, to which Le Vaillant has given the generic name of jacamerops.
Jack. Mr. Tyrwhitt, in his note upon v. 14,816 of Chaucer, says, "I know not how it has happened that, in the principal modern languages, John, or its equivalent, is a name of contempt, or at least of slight. So the Italians usc Gianui, from whence zani; the Spaniards, Juan, as bobo Juan, or foolish John ; the Frencl, Jean, with various additions; and in English, when we call a man a John, we do not mean it as a title of honor. Chaucer, in v. 3708, uses Jack-fool as the Spariards do bobo Juan, and I suppose Juckass has the same etymology." To this we will add, that the Germans use Hans, their nickname of John, for the same purpose; as, Hans narr, Jack-fool ; dummer Hans, stupid Jack, \&c. Pennant also, in his Zoology (iii. 342), remarks, "It is very singular that most nations give the name of their favorite dish to the facetious attendant on mountebanks. Thus the Dutch call him Pickle hcrring; the Italians, Macaroni; the Frencl, Jcan potage; the Germans, Hans oourst, i. e. Juck-sullsage; and the English give him the title of Juck-pudding.-The name of Juck Ketch seeins to liave become permanently generic for the common hangman.-The names of the boot jack and roasting jack are derived by Watts, in his Logic, from the circumstance that boys (who of course often lad the common name Jack) were formerly employed to pull off boots and to turn spits; and when instruments were invented for these purposes, the common name of the boys was given them in sport. -The common roasting jack consists of a double set of wheels, a barrel, round which the rope fastened to the pulleys is wound, a perpetual screw, and a
fly. Occasionally there is added a multiplying whecl, round which the rope is first wound, before it passes upon the barrel. As this wheel is considerably larger than the barrel, the jack is proportionably longer in running down.-The smoke jack is moved by a fan placed horizontally in the chimney, and, being carried about perpetually, by the draught of the fire, requires no machinery for winding it up. Spiral flyers, coiling about a vertical axle, are sometimes used, and occasionally a vertical wheel, with sails like the float-boards of a mill.-Jack is also used for a coat of mail, and likewise for the garment worn over it.- Jack boots are large boots to cover and protect the legs.-Jack is also used for a horse or wooden frame to saw timber upon; for a great leathern pitcher, in which drink was formerly put; for the small bowl that serves as a mark at the exercise of bowling; and for a young pike.-Jack, in sea language, is a sort of flag displayed from a mast erected at the outer end of a ship's bowsprit.

Jackal (canis aureus, Lin.). There is no essential difference betwecn the dog and the jackal, as they will breed together, producing prolific offspring. This spccies of quadrupeds is very widely extended throughout the warmer regions of the old world. It is found in Africa, from Barlbary to the cape of Good Hope; in Syria, in Persia, and throughout all southern Asia. It is about two feet and a half in length, and about 14 inches in height; the length of the tail, about eight inches; the eyes are small; the tail bushy; the head, neck, sides of the belly, thighs, and outer part of the limbs and ears, of a dirty yellow; underneath and on the sidcs of the lower jaw, the end of the upper lip, under the ncck and belly, and the iuner surface of the limbs, somc what white; the back and sides of the body, to the tail, of a gray-yellow, which is abruptly divided from the surrounding lighter colors; the tail, a mixture of yellow and black hair, the black prevailing at the extremity ; the muzzle and nails black. All travellers who have been in the countries where the jackals are found, mention the ravages they commit, and their dreadful nocturnal cries, which, answered as they are by all their companions, produce the most appalling effects. Their voice has often been described as more terrific than the howl of the hyæna or the roar of the tiger, and deprives of repose all hearers who have not been long accustomed to it. The jackal can be tamed with tolerable
facility, hut always preserves an extremo timidity, which he manifests by concealing hiinself on hearing the slightest unusual sound, or at the sight of a person whom he is unaccustomed to. This fear is different from that of most wild animals, and le closely resembles a dog in fear of chastisement, for he will offer no resistance when lie is touclied. The most celcbrated commentators on the Bible consider that the 300 animals, to whose tails Samson tied firebrands, were jackals. This opinion is grounded on the great number of these animals found in Syria, and on their assembling in large packs; whereas the fox is comparatively scarce, and is always solitary. The jackal has becn popularly termed the lion's provider, from an opiniou that it rouses the prey for that quadruped. The fact appears to be, that every crcature in the forest is sct in motion by the fcarful cries of the jackals; the lion and other beasts of prey, by a sort of instinct and the call of appetite, attend the chase, and scize such timid animals as betake themselves to flight at the noisc of this nightly pack. Buffon gives the following character of the jackal: "It unites the impudence of the dog with the cowardice of the wolf, and, participating in the nature of each, is an odious crcature, composcd of all the bad qualities of both."

Jackdaw (corvus monedula, Lin.). This bird is one of thc crow kind, and has been celebrated for his copious vocabulary and garrulous habits. It is about 13 inches in length, with black bill; white eyes; the hinder part of the head and neck of a hoary-gray color; the rest of the plumage, of a rich glossy black above; beneath, dusky; the legs arc black. The jackdaw is very cominon in England, where it remains the whole year; in France, and various other parts of the continent of Europe, it is migratory. It is gregarious, frequenting old towers and ruins, where it builds its nests. The female lays five or six eggs, of a greenish color, and is exccedingly assiduous in her attention to the young after they are hatched. These birds principally live on worms and the larvæ of insects, but they also appear to be capable of taking fish. Pingley states that le was witness to an instance wherc a jackdaw was very successful in this mode of obtaining food. It is easily tamed, and may be tauglit to pronounce many words with little difficulty. The jackdaws arc notorious thieves, not only stealing food, but appearing to be particularly fond of shining substances, as money, $\& c$., and have frequently occasioned sus-
picions of theft in persons who were afterwards proved innocent. So far do they carry this propensity, that they have been known to carry off spectacles from persons who werc reading.
Jackson; the name of numerous counties and towns in the U. States. The Jacksons, Jacksonvilles, Jacksontowns, Jacksonboroughs, \&c., are chiefly in the Western States, and have mostly received their names since general Jackson's successful defence of New Orleans.
Jackson, William, a musical composer, was born in 1730, at Exeter, and received the rudiments of a classical education, with a view to his following one of the liberal professions. His taste for music displayed itself, however, so decidedly while he was yet a youth, that his friends were induced to place him under Travers, the organist of the cathedral belonging to his native city. Having passed two years in the metropolis, where he availcd himsclf of the instructions of some of the best musicians of his day, he returned to Exeter in 1750, and, succeeding eventually to the situation of organist, there passed the remainder of his life. In 1782, he published two octavo volumes, containing Thirty Letters on various Subjects, which went throngh threc editions. He also printed, in 1791, some Observations on the present State of Music in London. His musical compositions are still justly popular, and arc distinguished by chasteness of conception, ingenuity, and truth of expression. He died in 1804.

Jackson, Hall, an eminent physician, and the son of an eminent physician of Portsmouth, N. H., doctor Clement Jackson, was born in that town about the year 1740. He went to London to complete his medical studies, and was there honorably noticed by the faculty for an ingenious invention, by which a ball was extracted from a gun-shot wound, that had haffled the skill of all the surgcons. After liis return to his native place, he speedily acquired distinction, particularly as a surgeon. He was the first who attempted, in that part of the country, the operation of concling the eye, in which he was uniformly successful. As an accoucheur, also, he was in great repute. It is said that he was the first surgeon of this country who introduced the method of healing wounds by the first intention, and that the idea was entirely original with him, although it may previously have been acted mon in Europe. The merit, likewise, of having introduced the use and cultivation of foxglove into New England, is ascribed
to him. He died Sept. 28, 1797. He published a small tract containing observations on the putrid malignant sore throat, which prevailed in New Hampslire from 1784 to 1786 .
Jackson, James, an officer in the American revolutionary army, was born at Moreton-Hampstead, in Devonshire, England, Sept. 21, 1757. In 1772, he left his native country, and settled in Georgia. When but 19 years of age, he assisted in the attack upon Savannah, in which he displayed great intrepidity, and shortly afterwards was appointed to the command of a volunteer company of light infantry. In the latter part of the year 1778, he was chosen brigade-major of the Georgia militia, and, on the capture or dispersion of that force, curolled himself as a private in a volunteer corps formed by the officers of Georgia who had no commands. In 1780, he was badly wounded in both of his knees, in a duel with lieutenant-governor Wells, who lost his life. After his recovery, he continued to serve with distinction throughout the rest of the war, being constantly and actively employed in the most hazardous way ; and when the British evacuated Savannah (July 12, 1782), colonel Jackson was ordered by general Wayne to receive the keys and take possession of the town, "in consideration of his severe and fatiguing service in advance." In the same month, the gencral assembly of Georgia presented him with a house and lot in Savannah, as a testimonial of their sense of his merits. As he had been educated to the law, he now commenced its practice, which soon berame sufficiently lucrative to place him in possession of a competency. In 1783, he was elected a menber of the legislature, and, in the following year, was appointed colonel of the first regiment of Georgia militia. In 1786, he was named brigadier-general, and was also admitted as an honorary member of the Georgia Cincinnati society. In 1788, he declined the dignity of governor of Georgia, to which he had been elected. He was then promoted to the rank of major-general of the militia of the state, and subsequently chosen by the legislature a senator in congress. Whilst attending to his duties in this last capacity, he died in Washington, Jan. 19, 1806. He was a man of great impetuosity of temper, but of undaunted courage, and unyielding devotion to liberal principles.
$\mathrm{Jacob}_{\text {; the son of Isaac, and the grand- }}$ son of Abraham ; the last of the patriarclis, and the true ancestor of the Jews. In his
mother's womb, he quarrelled with his trother Esan, whom lie held by the heel as he came into the world. Hence his name, Jacob (heel-holder). Being the object of maternal indulgence, he was gentle and weak, and was disposed to advance himself by cumning rather thau by rourage. While a youth, he purchased of his hrother (who returned home weary and hungry from the chase) his birthright for a mess of pottage, and, at the instigation of his mother, disgnised like Esau, he obtained from the blind and infirm Isaue, the blessing of the first-born, on which depended the inheritance of the promise made to Abraham. He was obliged to flee from the anger of his brother; and, on his way to Laban, his mother's brother, he reecived the first intimation that the inheritance of the divine promise had devolved on him. He saw in a dream a ladder reaching from heaven to carth, and angels ascending and descending upon it, and the guardian God of his family, whom he supposed to be in the tent of Isaac, conterred on him the blessing of Abraham. After this vision, he firmly believed that Jehovah had chosen him to be the father of a great people. This belief, and the love of Laban's daughter Rachel, were his consolation during the bitter years which he was obliged to devote to the flocks of his uncle, in order to obtain his mistress. After having served seven years, he found in his veiled bride Leah (whom he did not love), the elder sister of Rachel, and, in order to obtain Rachel, le was obliged to serve seven years more. Besides these 14 years, he served six years for a herd, and, after having repaid the deceit of his father-in-law, by an artifice which much increased his possessions (Gen. xxx. 2743), he departed privately with his wives and children and property. Laban pursued him, and scarcely had Jacob appeased him, when, after 20 years' absence from lome, he met the followers of his brother Esau. In this dilemma, Jacob sought relief in prayer, and a man wrestled with him all night until the morning dawned. Jacol cane off victorious, though with a lame thigh, and he was called by his guardian God, whose hand he saw in this event, Israel, i. e. the hero of God, in remembrance of the contest. This aftervards became the title of his house, and the Hebrews (q. v.), from him, are called Israelites, i. e. strong and stout. Jacob now went forth with more confidence to the inuch dreaded meeting with his brother, and appeased his rough, but noble nature, by his submission. His
return to his father's tent made a great. clange in the character of Jacol, His cuming and avarice appeared to him, as it has since to lis descendants, the necessary means for making his way throuylt the difficulties of his dependent situation. Now that he had become rich, and uncontrolled master of his possessions, he showed himself worthy of his father; and if he did not resemble Abraham in greatness and power, he did in piety and tender love for his ehildren. Yet through them he was destined to suffer the greatest afflictions. As he had two lawful wives, and, according to the custom of the country, two concubines (Bilhah and Zilpah), with 12 sons and a daughter, he could not escape domestic trombles and dissensions. His beloved Rachel died soon after his return home. A prince of the Hivites violated his daughter Dinah, and his sons revenged the iinjury by plundering and murdering that people. He could neither prevent this nor the incest committed by Renben with Bilhalı. Iluniliation and repentance for the sins of his youth seemed now his lot. But his greatest aftliction was the loss of his favorite son Joseph, whose brothers, full of envy against him, had sold him to a caravan of Ishmaelite merchants, and brought his coat, stained with blond, to their father, as a proof that he had been devoured by wild beasts. This event decided the destiny of the house of Israel. Joseph (q. v.) sulbsequently became, in consequence of his wisdom, the highest officer at the court of Pharaoh, and, in this capacity, recognised his brothers when they came to Egypt to purehase corn, pardoned them, and called the whole house of his father out of Canaan to dwell in a fruitful region of Egypt. The aged Jacol) again embraced his favorite son, whom he had, for many years, supposed dead, and enjoyed, under lis protection, a happy old age. A short time before his death, Israel collected his sons around his bed, and pronounced over each of them a blessing full of prophetie anticipations of the characters and future fate of his descendants. He bestowed the privileges of the firstborn on his fourth son, Judah, Reuben having forfeited them by the crime abovementioned, and Simeon and Levi by the Murder of the Hivites. To his grandsons, Manasseh and Epliraim, the sons of Joseph, he gave privileges equal to those of his sons. The descendants of Judah composed the most powerfinl tribe among the Hebrews, who were hence called Jevos. (q. v.) In conformity with Jacob's last
will, Joseph buried him in the tomb of Abraham, before Mamre, in Canaan.
Jacobi, John George, a German poet, horn at Düsseldorf, 1740 , son of a wealthy merchant, studied theology, in 1758, at Göttingen, and, later, in Helmstädt, then became professor of philosoply and eloquence in Halle, where he published the Iris (1774 to 1776, three volumes), a periodical for ladies. Joseph II appointed him professor of belles-lettres in the university of Freyburg in the Brisgau (1784). From 1795 to 1800, he published the Uberfüssiger Taschenbuch, and from 1803 to 1807, the Iris. An edition of all his works was published at Zurieh, in seven volumes. He died Jan 4, 1814.
$\mathrm{J}_{\text {acobl, }}$ Frederic Henry; a distinguished German philosopher, younger brother of the preceding, born at Düsseldorf, in 1743. His father intended him for a merchant. He early showed a religious turn, which, on his being sent to Frankfort as an apprentice, exposed him to ridicule. He therefore soon went to Geneva, where his mind was cultivated by intercourse with the most distinguished scholars, and by the study of the best productions of French literature. In consequence of the taste he had acquired for letters, he returned home with reluctance, in order to take charge of his father's business. He soon after married a lady of Aix-la-Chapelle, adorned with the finest qualities of mind and person. After having conducted the business for some time, an appointment at court was conferred on him, which relieved him from any further mereantile engagements. His brother introduced him to an acquaintance with Wieland, and he soon appeared as an author. In 1779 , he was called to Munich, but soon fell into disgrace on account of his exposure of the abuses of the Bavarian system of customs. More of his writings appeared at this time, and his summers were spent at Pempelfort, in a charming country seat, which he had built. But the death of his wife interrupted this tranquil and happy life. He now applied himself, with renewed zeal and industry, to his studies, encouraged by a journey to Weimar, where he saw Göthe again, and became acquainted with Herder. His Letters on Spinoza appeared in 1785, from which time lis mind was much occupied with metaphysical speculations on religious subjects. As the influence of the Freuch revolution extended itself, he went from Düsseldorf, in 1794, to Holstein, the native country of lis father, and lived part of the time at Wandsbeck and Hamburg, and
partly at Eutin. In 1801, he went to Paris, and returned to Eutin, where he intended to end his days; but, in I804, having received an invitation to the new academy erected at Munich, he was induced to accept it on aceount of the loss of a considerable part of his fortune by the misfortunes of his brother-in-law. He was made president of the Bavarian acadeny, and retired from office at the age of 70 years, retaining, however, his salary. His last days were occupied with the collection of his works. He died March 10. 1819.- Jacobi's works are rich in whlatever ean attract elevated souls, yet the opinions respecting him are very different. He has been called the German Plato, on account of the religious glow in his metaphysical writings. But, whatever opinions may be entertained respecting his philosophy, all admit that he was a most exemplary man, truly revered by all who had the good fortune to be acquainted with him. His philosophy, anong other traits, is characterized by an aversion to systems, all of which, he maintains, when consistently carried out, lead to fanaticism. His views were opposed to those of the dogmatie Mendelssohn, the critical Kant, the idealizing Ficlite, and the pantheistic Schelling. Of his works, we mention Edward Allwill's Collection of Letters (König:berg, 1792); Woldemar, a philosophical novel (Königsberg, 1794); Letters on the Doctrine of Spinoza (Breslau, second edition, 1789); his work on Mendelssohn's charges against these letters (Leipsic, 1786); David Hume on Belicf, or Idealism and Realism (second edition, Ulın, 1795); Sendschreiben an Fiehte (Hamburg, 1799). His works were pul)lished by Fleischer (Leipsic, in six volumes), to which is to be added his Correspondence (published by Fr. Roth, in two volumes, 1825 and 1827). Schlegel's review of Jacobi's Woldemar (in volume 1, page 1 to 46 of Charakteristiken und Kritiken) deserves the attention of the student of Jacobi. His dispute with Schelling was carried on with considerable animosity. It gave birth to Schelling's Denkmal der Schrift von den Göttlichen Dingen (Tübingen, 1812).

Jacobine Monks. (See Dominican.)
Jacobins. The club of the Jacobins is one of the most surprising phenomena in history. That, in a civilized nation, so large a body of men could be found, uniting rare energy with execrable vice, political madness and outrageous cruelty, committed always in the name of virtue, is a historical phenomenon of the highest in-
terest. It is of great importanee for the historian to know this period, but it requires extensive study to understand theroughly the proccedings of this club and their causes. In the article France, division France beforc the Revolution, the deplorable state of that country before that event is set forth. The great inass of the people was totally uneducated and grievously oppressed, and the whole political organization so rotten, that, once touched, it neeessarily fell to pieces. The religious state of the country was not unlike the political. The church was too corrupt to withstand the bold attacks of reformers, enthusiastieally devoted to their new systems. The court, and the higher elasses in general, had for centuries set an example of gross immorality to the people, which had produced its natural effects in vitiating their character. The opponents of the church und aristocracy, who came into power upon the overthrow of the old order of things, were wholly unacquainted with the practical administration of government, and had nothing to guide them but general philosophical principles. Under these circuinstances, the excesses which the French people committed, when left to govern themselves, are matter of sorrow rather than wonder. The Jacobin club had the following origin. Before the breaking out of the revolution, particularly after the Anerican revolution, political societies were fonned in Paris (where bureaux d'esprit, or associations for the discussion of literary subjects, had previously been common), inodelled after the London debating societics, in which political subjects were debated, and the members of which were almost imiversally inclined to republicanism. The example of Great Britain and the U. States was before the French. Some distinguished members of the first national assembly, principally from Bretagne, and commoners, oll account of the opposition of the privileged classes and of the court party, saw the necessity of acting in concert, and of preparing for the measures of each day by previous deliberations; for which purpose they assembled in the evenings at the house of one of their body, or held a caucus, as we should term it. Ainong them was count Mirabeau, who, when the Jacohins subsequently passed the constitutional limits, seceded from them, and even denounced then. The same was the case with La Fayette. But, when both perceived that they co' a effeet nothing in the national asseminy without the eonsent of the Jacobins, they roturned to the club, in order to influence
the assembly by this means. Meanwhite Mirabean died, April 2, 1791. The monarchical club, under Clermont-Tomerre, which opposed the arroganee of the Jacobins, was menaced by the mob, Jan. 27 and Marel 28, 1791, and finally dispersed by violence. The Jacrhins now became sensible that the pike-inen were their real anxiliaries. The flight of the king still more exasperated the most zealous of them, and, after the close of 1792 , their principles were so exaggerated, that the original Jacobins were now expelled from the club as royalists or modérés ; for instance, Fréron, Legendre and othens. Whatever was resolved upon in these and similar mectings, was supported by all the members of the club in the national assembly. The Bretons soon admitted a greater number, in order to cany through their opinion with more certainty. Thus the nembers became pledged to a certain line of conduct on each question, before it was brought forward in the gencral assembly of national representatives, and a party was formed which, in the assembly, always voted together. Besides the intolerance towards those of different opinions, which aftervards degenerated into political proscription and perseeution, personal motives had a powerful influence on the nembers. The private house in which they first assembled soon became no longer capable of containing the number of friends of the revolution, as they at first ealled themselves; they therefore chose for their place of nueeting, at the end of 1789, the church of a suppressed Jacobin monastery, in the street St. Honoré, in the centre of Paris. This was the origin of the name Jacobins, though they continued for a time to term themsclves the friends of the constitution. Their external symbol was a red cap: afterwards, a dirty dress was the token of their sansculottisn. The revolution procceded rapidly, and, in all the large and small towns, and, in 1793, even in some villages, similar societies were formed, which the mother society at Paris rendered dependent on itself; and thus it became enabled to direct the publie opinion of all France. In 1792, the leading elub, in which sometimes more than 2500 members convened, kept up a correspondence with more than 400 affiliated societies, and the number of Jacobins in all France was estimated at about 400,000 . It is unnecessary to designate the principal nembers of the mother society, as it is well known that all men of any note, who played, or wished to play, a part in the revolution, were Jacobins.

The influence which Paris, more than any other European capital, exerts over the country, greatly increased the power of the Jacobins there. Whatever they agreed to propose in the national assembly, however daring it miglit bc, they were sure of the assent of the other popular societies, from their connexion with the principal members of the other clubs. This naturally induced anbitious individnals, even of the higher classes, to join it, and to renounce the privileges of their order, with a view of obtaining greater consequence in the new state of things. The exaltation of the revolutionary spirit was so rapid, and so much dissension was excited among the revolutionists by the intrigues of the opposite party, aided by foreign influence, that the boldest eharacters formed a sinaller elub, which, from its place of meeting, in the chureh of the Francisean friars, was called the club of the Cordeliers (q.v.), and whieh was joined by all the exalles, as they were denominated. This was the proper field for the daring Danton, and here the monster Marat, from 1789 editor of the Friend of the People, found credence to his ivild and eriminal maxim, that the end justifies the means. Here sansculottism was fully dcveloped in its violence, its hatred of religion, and contempt of morality and law. The eireumstances of this agitated period required the boldest measures, and the most unscrupulous men werc of course the most daring. The ex-Capuehin Chabot, Anacharsis Cloots, Collot d'Herbois and others carried their temerity to the highest pitch in their public speeclies. As the Jacobins and the combincd Orleanists and Brissotists, who labored to overthrow the crown, the former for the duke of Orlcans, and the latter to establish a republic, took the right side of the apartment of the national assembly; the members of the other popular societies placed themselves on the left. Few, however, attended the assembly for the purpose of deliberation, their purpose being only to vote for what had already been agreed upon. The Jacobins and other similar clubs therefore adopted the forms of the national asscmbly. Presidents and secretaries were choseis, the order of the day deterinined, resolutions passed by a majority of votes, and seats or tribunes assigned to the audlence. To such popular societics the national assembly gave a lcgal existenee in the constitution whiel it drew up. From this tine, the Jacobin club, exereised a pertect tyranny over it. Whenever the Jacohins were not sure of the majority in
the assembly, their followers filled the tribunes of the hall of the deputies, and, by their disorderly conduct, and frequently by loud threats against individual members, diseouraged all opinions or resolutions whieh did not coincide with those of their party. This was especially the case with respect to the king, against whom the Jacobins and Cordeliers, particularly since 1791, had circulated the grossest ealuinnies. The democratic Cordeliers therefore joined with the Orleans party, which labored unvittingly for the objects of the republicans, by uttering the most slanderous charges against the king and queen, and by having the lowest of the rabble on their side, and partly even in their pay. This was the reason that a popular insurrection opposed with violence, April 18, 1791, the departure of the king to St. Cloud, where lie wislied to spend the Easter holydays. Even the national guard, in disobedience to the order of their commander, La Fayette, refused to escort the king, who was already seated in the carriage, throngh the multitude. The party of the king's enemies was the more powerful, as the more moderate members had withdrawn from the Jacobin club, and the Cordeliers had again formed a junction with it, June 21. The latter, however, continued their meetings at the Capuehin monastery, in order, by being prepared and mited, to manage the deliberations of the Jaeobin club. After the flight of the king, June 21, 1791, they made use of the popular hatred against him, and loudly demanded the deposition of Lonis and the erection of a republic. But the more moderatc party, who for a long time were called Feuillants, from the place of their meeting, opposed their designs, and the insurrection of July 15-17, 1791, failed of its objeet. But, on the other hand, the retired deputies of the constituent assembly failed of dissolving the Jacobin club, before the close of its own session. When the legislative asscmbly, the new delegates to which had becu chosen almost entircly under the influence of the Jacobins, had opened its session, Oct. 1, 1791, the friends of the king, among whom the Girondists (q. v.) were conspicuous for talents, maintained for some time the majority against his enemies (the Cordeliers), even in the Jacobin elub, so that the leaders of this clubDanton, Marat, Robespierre-were obliged to disguise their projects. But their influence was augmented by the circumstance. that the mayor of Paris, Pethion, and with him the munieipal authorities of Paris,
composed of Jacobins, espoused their cause. Even the moderate Jacobins, and among them some of the royal ministers, inclined to the party of the enemies of the king. Thus, by the popular insurrection of May 29, 1792, they obtained a resolution of the national assembly, requiring the king to disband the body guard, decreed to him by the first assembly of the nation; but they were unable, by the insurrection of the suburbs of St. Antoine and St. Marcell of June 20, to compel the king, whom only four Siviss grenadiers protected against the attacks of the furious multitude, to revoke the veto that he had affixed to two resolutions of the national assembly; but they gained a majority of the assembly to protect from condign punishment the authors of this tumultPethion, Manuel and others. Meanwhile, the Jacobins, offended by a note of the Austrian minister of state, prince Kaunitz, had effected, against the will of the Cordeliers, a declaration of war against Austria, April 20, 1792; and Jacobinism soon displayed its influence in the selection of generals, in the proclamations, and in the disposition of the armies, so that neither La Fayette, in 1792, nor Dunnouriez, in 1793 , could excite the army against the Jacobins. But all the occurrences subsequent to June 20-the arrival of the confederates from Brest, Marseilles and other places, July 13 ; the attack of the Tuileries on the night of Aug. 9; the carrying of the king and his family as prisoners to the Temple by the municipal officers of Paris, Aug. 13; the massacre of the prisoners, Sept. 2-7, who were murdered without trial; the choice of new members of the convention, in September of the same year ; all the acts of the national convention, from Sept. 21, 1792, to May 20, 1795, even after the 9th Thermidor (July 28, 1794), especially the execution of the king; and, finally, the establishment of the revolutionary tribunal, March 9,1793-nuay be regarded as more or less effected by the Jacobins. The Jacobins were divided into two parties: agreeing as to the end, they thought differently concerning the means. Tallien, who overthrew Robespierre, was as true a Jacobin as the latter was. The enthusiastic suspected the moderate. The victory was long doubtful. Finally, the moderate were vanquished. The genuine republi-cans-the Girondists, or the party of the Plain-were subdued May 31 and June 2, 1793, by the more violent Jacobins, or Mountain party.* These again were gov-

[^7]emed by the Maratists or Cordeliers, who ruled in the Jacobin club with iron sway, under the duiiunvirate of Robespierre the Incorruptible, and Danton, the formidable creator of the revolutionary tribunal, with Marat for an assistant. On the other hand, thic inoderate party was victorious in the provinces, at Marseilles, Bordeaux and Lyons. The south took up arms against the Jacobin convention. But the Mountain party succeeded in depriving the convention of power, and, on the proposal of Billaud de Varennes, the constitution gave way to the reign of terror (from August, 1793, to July, 1794). But the triumph of Jacobinism was the establishment of the committee of safety, which completed the reign of terror under Robespierre, and, by means of the revolutionary armies, suppressed rebellion with fire and sword in Vendée, and in the south. Cities like Lyons, Marseilles, Toulon, were to be demolished, and all Vendée to be transformed into a great field of blood and ashes. Fourteen armies, the guillotine, and an iron stubbornness, finally won the victory for the system of terror. France, it was said (and, for the moment, it was true), wanted only iron and bread. Not till the dictator Robespierre (q. v.) had perished under the guillotine, July 28, 1794, and with him 104 of his partisans, together with the municipal council of Paris, did the convention recover its authority. It denied to all popular assemblies any interference with thic government. In vain did the Jacobin club attempt an insurrection, Nov. 11, 1794, in order to tear the monster Carrier from the sword of the law. This was its last struggle. The citizens of Paris surrounded thic hall of the Jacobins till the military arrived and dispersed the meeting: Legendre closed the hall. The finishing stroke was given to this victory by the decree of the convention, that the Jacobins should not renew their
great popular commotion, whose exasperated feclings Icad them to put the worst construction on each other's doings, was never more clearly exhibited than in the case of the Girondists and Jacobins. Whilst the Girondists accused the Jacobins of bcing in the pay of forcigners, of having admitted the English into Toulon, \&c. (the Mcmoirs of Brissot are full of these charges), the Jacobins accused the Girondists of bcing for the king, \&c. It must be acknowledged that the Gi-rondists-as virtuous a party as perhaps ever ex-isted-were morely theoretical politicians, and never could have saved France, in the state which it then was. They made the virtue of the nation the basis of their political edifice-a mistake which never could have been more scrious than at that very time. Both partics, it was evident, could no longer exist togcther.
meetings. But their prineiples survived their defeat. They took advantage of the general famine to stir up a rebellion, April 1 , and May 20-23, 1795. The last one brought the convention to the verge of dissolution. A member named Ferrand was murdered; all the rest took to flight, except 14 of the former Mountain party, who inmediately passed a number of decrees conformably with the will of th Jacobins. Not without difficulty were the Paris committee able to quell this thoody tumult. By the disarming of the faubourg St. Antoine, the Jacobin party lost its principal support, as it had already lost its boldest orators-Barrere, Collot d'llerbois and Billaud de Varennes, who were transported to Cayenne, April 2, 1795. Of the 14 deputies who had desired to restore the system of terror, 6 killed themselves after their condermation, July 17 , among whom was the talented Romme. Even in Toulon, the Jacobins were at first victorious; but the troops of the convention occupied the city again, May 29. Thus the Jacobins prepared, May 20, their own downfall. Courts-martial contemned them every where to death as terrorists, and the fury of the prevailing moderate party, as it was called, outstripped the demands of justice. The constitution soon after drawn up, June 23, 1795, and the directorial government, which was actually commenced Oct. 27 of the same year, suppressed the last struggles of the Jacobins and terrorists, till the exccution of Barbocuf and his associates, May 25, 1796. But, when the constitution of 1795 secmed annihilated by the victory of the directors Barras, Rewbel and Laréveillere on the 18th Fructidor (Sept. 4, 1797), Jacobinism arose anew. It sought to penetrate into the offlecs of the legislative councils, but found nowhere a point of union. Many of the party soon denounced republicanism. Most of them becanc the friends of Napo-leon.-Much has been written respecting the Jacobins, and the supporters of old institutions in Furope lave been in the habit of branding with the name of Jacobinism every attempt to promote the cause of liberal principles. See, for instance, Robinson's Proofs of a Conspiracy against all the Religions and Govcrnments of Europe, \&c. (fourth edition, London, 1798) ; and the prolix but empty accusation of the ahbe Barruel, founded on Robinson's work, and on similar emissions of party spirit, and direeted against philosophy and seeret societies in gencral-Mémoires pour servir à l'Histoire du Jacobi-
nisme (five volumes, Hamburg, 1800); also the Lettres d'un Voyageurr ù l'Abbé Barruel, ou nouveaıx Documens pour ses Mémoires (London, 1800), written in a similar spirit. To learn the true character of the Jacobins, the debates of the national assembly should be studied.-hn 1814, the violent ultras (q. v.) were calted white Jucobins; whilst, in tum, the adherents of Napoleon were called red Jacobins. As the aristocracy, before the revolution of 1792 , called the people, in contempt, la canaille (q. v.), so, before the revolution of 1830, every liberal, however loyal he might be, was called a Jacobin. Inmediately after the revolution of 1830 , popular societies were formed, or at least appeared openly, two of which soon gave uneasiness to government, and their proceedings were subjected to a judicial investigation. The names of these societies were L'ami du peuple and Aide-toi et Dicu t'audcra. They were abolished. An association is now forming in France, the professed object of which is to protect the country against invasion, and to guard against the return of the elder line of the Bourbons.
Jacobites; Monophysite Christians in the East, who, oppressed and dispersed aunidst the religious contests of the sixth century, were united by a Syrian monk, James (Jacobus) Bardai, or Janzalos (578), during the reign of Justinian, into a distinet religious sect. Out of gratitude to their founder, they called themselves by his name, and had, in Syria, Egypt and Mesopotamia, numerous communities, with bishops and patriarchs. On account of their separation from the Catholic church, they were glad to obtain the protection of the Saracens, who possessed themselves of the East in the middle of the seventh century. The Egyptian Jacobites, having abused the indulgence granted them by the Saracens, suffered a persecution in 1352, after which, being much diminished in numbers, and restrained in the exercise of their religion, and being gradually separated fron their Asiatic brethren, they formed a distinct sect, which exists at this day in Egypt, under the name of Copts. (q. v.) Internal disputes and political causes occasioned a scparation, about the same time, of the Abyssinian and Armenian Monophysites, from the great body of the Jacobites; and, after numerous attempts by the popes to bring them over to the Roman Catholic chureh, they still maintain themselves as an independent sect in Syria and Mesopotamia, and consist of about 30 or 40,000 families. These Jacobites are governed
by two patriarchs, appointed by the Turkish governors, one of whom, with the title of the patriarch of Antioch, has his seat at Diarbekir or Aleppo; the other, the Syriam, resides in the monastery of Saphran, near Mardin, and governs the Mesopotamian soeieties. Circumeision before baptism, and the doctrine of the single nature of Christ (hence their name, Monophysites), are common to them with the Copts and Abyssinians; but, in other respects, they deviate less than the other Monophysites from the diseipline and liturgy of the orthodox Greek ehureh.

Jacobites. In Great Britain, this name was applied to the adherents of James II (who was deposed 1688) and his posterity, and in partieular to the non-jurors, whose separation from the English ehureh consisted merely in their refusal to take the oath of allegiance to the new king ; and who had their own meetings, for the purpose of praying for the Stuart family. They were most numerous in Seotland, and were very much lessened by the defeat of the Pretender (1745); and when, at length, he died at Rome (1788), they began to pray for George III.

Jacobs, Frederic Christian Willian, was born at Gotha, in Saxony, 1764 , studied theology in Jena, in 1781, and, in 1784, went to Göttingen, where he abandoned his theologieal studies, in order to devote himself to philology. In 1785, he became a teacher in the gymnasium of his native city, where he published several works, and, in coujunetion with several learned friends, undertook the Charactere der Dichter aller Nationen ( 7 vols.), as a sequel to Sulzer's Theorie der. Schönen Wissenschaften, the continuation of whieh was prevented by the death and separation of the eontributors. Among his other works are the following: Bion and Mosehus,in 1795; in 1796 and 1797, Exercitationes critica in Scriptores veteres ( 2 vols.). His Emendationes in Anthol. Grac. (1793) was followed by a reprint of the part of the Analeeta of Brunck, which belongs to the Anthology, with indexes (Leipsic, 1794 to 1814, 8 vols.). His Tempe (Leipsie, 1803,2 vols.) was prepared contemporaneously with his eommentary on the Anthology, which he finished in 1803. Of bis Elementarbuch der Griechischen Sprache, two volunes had appeared when he was appointed (1807) professor of ancient literature in the lyeeum in Munich, and member of the new Bavarian academy. In Munich, he eompleted the 3d and 4th vols. of his Greek Elementarbuch, and, in three years, returued to Gotha. where he
was appointed chief librarian and superintendent of the eabinet of coins. Here he made out a eataloguc of the valuable library, and published the Greek Anthology , from the only MS. which has been preserved, under the title Anthologia ad Fidem Codicis Vaticani edita (Leipsie, 1813 to 1817). The number of his philologieal publieations is very great, besides several works of a different character, as Allwoin and Theodor, Rosaliens Nachlass, Die beiden Marien, School for Women ( 7 vols., 1827), and Tales ( 5 vols., Leipsic, 18241827), \&c.; and few writings are so well adapted, particularly for young females, as his. The first volume of his Greek Reader had passed through seven editions in 1819 ; and selections from the work have been introduced, as a text book, into England and the U. States ; in the latter, under the title of the Greek Reader, edited by E. Everett (2d edit., Boston, 1829). In connexion with Döring, he has also published a Latin Reader.

Jacquin, Nieholas Joseph, baron of ; a celebrated botanist, who was a native of Leyden. He was born in 1727, and studied medieine at Antwerp and Louvain. The emperor Franeis I sent him to the West Indies, to collect eurious plants for the gardens of Sehönbrunn. He eommenced his voyage in 1754, and returned to Germany, after an absence of six years, with a rieh store of plants from the Antilles, Jamaiea, St. Domingo and Curacoa. He published, in 1760, an account of his researehes and the colleetions with which he had enriched the gardens of Schőnbrunn, and of the university of Vienna, whieh were under his direetion (Historia Stirpium Americ.). Two years after, appeared his eatalogue of plants growing in the neighborllood of Vienna, and, in 1773, a magnificent work, entitled Flora Austriaca, fol., with 500 colored engravings. He engaged in the practice of medicine in the Austrian metropolis, and also occupied the professorships of chemistry and botany in the university of that eity. He was created a baron in 1806. He died Oct. 24, 1817. A list of his numerous scientific publieations may be found in the Biog. Univ. and Biog. Nouv. des Contemp.

Jafra; the ancient Joppa, a town of Asiatic Turkey, in Syria, in the pachalie of Damascus, 16 leagues N. N. E. from Razzé or Gaza; 12 leagues N. W. of Jerusalem, and 22 leagues S. S. W. of St. Jean d'Acre, on a tongue of land advancing into the Mediterranean ; lat. N. $32^{\circ} 3{ }^{\circ} 25^{\prime \prime}$; lon. E. $34^{\circ} 46^{\prime} 18^{\prime \prime}$. Jaffa is situated on a hill, and is surrounded with a strong wall of
from 12 to 14 feet in height. The port is defended by two forts. There are several mosques and three convents. Vessels cannot approach the city nearer than a quarter of a league, on account of the breakers. Several consuls of European powers reside here. Pilgrims who proceed to Jerusalcm frequent this city mucli. It contains 3650 inhabitants. The environs of Jaffa produce fruits of the best quality, particularly fine and large oranges. The Greeks and Phenicians considered Jaffa as a very ancient place, and it certainly existed 1500 ycars before the Christian era. lapho was the Phenician name. Joppa is mentioned several times in the Scriptures. During the crusades, Joppa became the capital of a small country of the same name. Saladin burnt it, but St . Louis reëstablished it. Jaffa is comected with two remarkable circumstances in the life of Napoleon: one, the bold exposure of his life by traversing the plague hospitals, and touching the poisonous sores, to give courage to his soldiers; the other, the "massacre at Jaffa." This place contained a garrison consisting of Turkish and other soldiers, in the cmploy of Djezzar Pacha, when general Bonaparte attacked it. A breach was made in the walls, March 7, 1799, when, according to the rules of war, the Turkish commandant was called upon to surrender; instead of which, he cut off the head of the messenger. The fortress was taken and pillaged. Bonaparte, in his letter to the dircctory, 23 d Ventose, year VII (March 13, 1799), says, "At five o'clock, we were masters of the city, which, during 24 hours, was exposed to pillage and all the horrors of war, whicl1 never appeared to me so lidcous." (Sec Mémoires de Napoléon, ecrits par le Général Baron Gourgaud, vol. 2, p. 376.) 3000 men, says the duke of Rovigo, in his Memoires, were made prisoners, the grcater part of whom were the same soldiers to whom life and liberty had been granted at El Arish, under the condition not to bear arms against the French within a ycar, and to proceed to Bagdad. At the same time, Hews was received that the Porte, after having put in irons all the French agents, had declared war against France, and assembled an army at Rhodes, which was to be sent to Egypt. To give liberty again to these prisoners, was to send recruits to the Turks; to conduct them to Egypt under an escort, would have wcakened the small army under Bonaparte's command at Jaffa. A council of war was held, and it was deterinined that ah should be put to the sword. Even

Bourrienne, who had accompanied Bonaparte in the expedition to Egypt, states in his Mémoires, that the massacre of the remnant of the garrison of Jaffa was the result of the deliberations of two councils, at which M. de Bourrienne himself was present, and in whiclı "horrible act of necessity," if he had been privileged to vote, he would have concurred, believing it to be justified by the scarcity of provisions, which were all required for the French army, and the smallness of its numerical force in the midst of a country wherc every individual was an enemy. The Egyptians were not, as has been often asserted, previously separated from the other prisoners. As to the poisoning those affected with the plague, M. Bourrienne, whose statements, lowever, cannot always be admitted unqualifiedly, says that he kuows that the order for poisoning was issucd; but Napoleon, according to Las Cases, told him that no opium was administered. Las Cascs also gives, as the result of his own inquiries in Paris, among the principal actors on this occasion, that the proposal was made by Bonaparte to the chief physician, who declined; that no order was given to administer opium; and that there was not a grain of it, at this time, in the army. (Mémorial de Ste. Helene, Paris, 1823-4, page 268 et seq.)

Jagellones. (Sec Poland.)
Jagemann, Christian Joseph, librarian of the duchess Amalia of Weimar, was born 1735, in Dingelstädt, and destined by his Catholic parents for the cloister. Having escaped from the Augustine monastery, le was afterwards sent to Rome, as a penance. He lived there scvcral years, and acquired that taste for Italian literature which made him a distinguished writer on the fine arts and literature of Italy. Hc is the author of a Description of Tuscauy ; a History of Arts and Sciences in Italy ( 3 vols. 8 vo.) ; a Magazine of Italian Literature ( 8 vols. 8vo.) ; the Life of Galilei ; an Italian and Gennan Dictionary ( 2 vols. 8vo.); and an Italian Grammar and Chrestomathy. He died Feb. 4, 1804.

Jaggernaut. (See Juggernaut.)
Jago, Sr. ; the Spanish for St. James. (See James, St.)

Jago, St.; one of the largest of the Cape Verd islands, one of the best cultivated, and most fertile; about 60 miles in circumfercnce. The people in general are of a mixed color, except the officers of government and most of the priests. Cotton is produced in abun-
rlance, and handsome goods are made of it, of which no small quantity is exported. 'The chief fruits of the island, besides a profusion of plantains, are grapes, citrons, iemons, oranges, musk and water-melons, limes, guavas, pomegranates, quinces, cus-tard-apples, papas, \&e. The cliet towns are St. Jago and Praya. Lon. $23^{\circ} 40^{\circ} \mathrm{W}$.; lat. $15^{\circ} 4^{\prime} \mathrm{N}$. ; population, 20,000.
$J_{A G O}$ de Cuba, St. ; a town in the island of Cuba, near the soutl coast; lon. $76^{\circ} 5^{\prime} \mathrm{W}$. ; lat. $20^{\circ} 30^{\prime} \mathrm{N}$. It is situated in the interior of a bay, on a river of the same name, ahout six miles from the sea, and was long considered as the capital of the island, but is much reduced from its forraer splendor. It is liandsomely built, and contains a college, an hospital, a cathedral, two or three convents, and 16 primary schools. It has a large trade, principally in sugar and tobacco. It has a good farbor: defended by a castlc called El Morro. Population, as given in the Cuadro Estadistico de Cuba (Havana, 1829), is 26,738 . Its situation is unhealthy.

Jago de Compostella, St. (Sce Compostella.)

Jago, Str., or Santiago ; capital of Chi1c. (See Santiago.)

Jaguar (felis onca, Lin.). This name, having been applied to several different species, is apt to create some degree of confusion. The jaguar holds the same rank among the animals of the new continent as the tiger among those of the old. On the whole upper part of its body, it is of a bright yellowish fawn color, which passes on the throat, belly, and inside of the legs, into a pure white. On this ground, the head, limbs and under surface are covered with full black spots, of various sizes, and the rest of the body with annular patches, either with a black point in the centre, or formed of small black spots arranged in a circular form. 'This animal is found in the swampy forests of South America, especially in the neighborhood of large rivers, which he swims with great ease. Of his power of swimming, as well as of his cxtraordinary strength, the following circumstance, related by D'Azara, will give some idea :A jaguar, after having attacked and destroyed a horsc, carried the body of his victim to the bank of a broad and rapid river, about 60 paces distant, over which he swann with his prey, and then dragged it into the adjoining wood. Possessed of such tremendous powers, this animal is the dread of the inhabitants of the countries he infests. It is scldom, however, that he attacks the human race, though he
will not shun man when he meets with lim. His favorite prey appears to be the larger quadrupeds, such as oxen, horses, sheep and dogs, which he attacks indiscriminately, and in the sane treacherous mammer as the rest of his tribe, uniformly singling out the last of a herd as the object of attack. When he has made choice of a victim, he springs on its back, and, placing one of his paws upon the back of the head, whilst he seizes its inuzzle with the other, twists its liead round with a sudden jerk, thus dislocating its spine, and instantly depriving it of life. The jaguar is generally considered as untamable, and to maintain his savage ferocity even in the captive state ; but this assertion is amply contradicted by facts. The inhabitants of Soutl America hunt the jaguar in various ways, either with a pack of dogs or by means of the lasso; this latter mode, however, can only be cinployed upon plains or open grounds. The ludians are even lardy enough to attack this formidable creature, single-handed, armed with a lance of five feet in length, and their left arm enveloped in a slieep skin ; by means of which, they frustrate the first onset of the furious animal, and gain sufficient time to plunge their weap)on into his body, before le lias time for a second attack. Notwithstanding the strength and ferocity of the jaguar, he finds a powerful opponent in the great anteater, although this latter animal has no teeth to defend himself; as soon as the jaguar attacks the ant-eater, it lies down on its back, and suffocates or strangles him with its long claws.

Jain, Frederic Luuis; inventor of the modern system of gymmastics, born in 1778, in Poneranio, in the village of Lanz, near Lenzen. His father was a clergyman. He studied in Jena, Halle and Greifswalde, and exerted himself much to suppress the Landsmanschaften (combinations of the students, according to the sections of the country to which they belonged), which excited so much sectional fecling among them. (For an account of these Landsmanschaflen, sce Universities.) In 1809, he went to Berlin, and became an instructer in a private institution. At that time, the French were inasters of Germany, and the best ineans of preparing the Gemnans for a contest with their oppressors constantly employed the mind of Jahn and others of his countrymen. With the view of exciting patriotic feeling among the young inen of Germany, he established, in 1811, his first gymnasium. No conversation was permitted in French,
or in any language but their own; national songs were sung. Gymuastic exercises had long before been introduced into Schrepfenthal, by Guts-nuths; but Jahn first conceived the idea of making gymnasia national establishments for education. (See Gymnastics.) During the war which soon after broke out between Germany and France, the gymmasia were suspended; but when peace was concluded, in 1814, Jahn reöpened his institutions, and exerted all his powers again to make them sehools of patriotisin. In the neantime, the liberal spirit which spread over the continent of Europe, found its way into the gymnasia. The German govcrnments began to dread the effects of that love of freedom in the nation, which they had themselves used for the overthrow of the French. After the murder of Kotzebue, by the student Sand, the governments fearing or professing to fear the existence of secret combinations of a political character in the gymnasia, Jaln and many of his friends were arrested, and treated in a very arbitrary and illcgal manner. In 1825, the tribunal at Frankfort declared Jahu to be innocent. Several of his scholars were also imprisoned, and, ufter a long confinement, liberated without trial.
Janv, Joln, born at Taswitz, in Moravia, in 1750, professor of theology in the university of Vienna, died in August, 1816. Jalm published, anong other works, a Chaldaic and Syriac Gramınar (Viema, 1793) ; Arabian Grammar (1796); Bibliral Archæology (2 vols., ib., 1797 to 1800; 2 d edit., ib., 1817 to 1818, part of which has been translated into Englisl, under the title of the Hebrew Conumonwcalth, Audover, 1828) ; Elcmentarbuch der Hebrüischen Sprache (2 vols., 1799); Arabische Chrestomathie(1802); Introductio in Libros Sacros veteris Federis (ib., 1804 ; 3d edit., ib., 1825); Archcologia Biblica, an abridgment, in Latin, of the larger work on Biblical Arcliæology in German (Vienna, 1804; 2d edit., Vienna, 1814), translated into English (Andover, 1st edit, 1823; 2d cdit., 1827); Grammatica Hebraica (ib., 1809); Vaticinia Prophetarım,Commentarius criticus in Libros Prophetarum vet. Testam. (ib. 1815); Appendix to his theological works (1821).

Jail, or Gaol ; a prison or place of legal confinement. This word is formed from the Frencli geole, and that from the harbarous Latin word gcola, gaola, gayola (a cage) ; whence the Picards still call a hird-cage gayolle. (For some remarks out the subject of prisons, see Prison.)

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Jalap has received its name from being principally brought from the environs of Xalapa; though the plant which produces It is abundant in other parts of Mexico, even in the immediate vicinity of Vera Cruz. It is much employed in medicine, as a very valuable purgative, aud has been known in Europe since the year 1610. It is exported exclusively from Vera Cruz, to the amount of about 400,000 pounds annually. The plant is the conrolvulus jellapa of authors, an herbaccous twining vine, having entire cordate or three to fivelobed leaves, and large white flowers with purple veins. The root, which is the part employed, is very large, sometines weighing 50 pounds.
Jamaica ; one of the West India islande, belonging to Great Britain, and the most considerable and valuable of her possessions in that quartcr. It is of an oval form, about 150 miles in length, and, on a medium, about 40 niles in breadth; lying 30 leagucs west of St. Doningo. A lofty range of mountains, called the Blue mountains, runs through, the whole island from east to west, dividing it into two parts, and rising in some of its most elevated peaks to 7431 feet above the level of the sea. On the north and south sides of these mountains, the aspect of thic country is extremely different. On the north side of the island, the land rises from the shore into lills, which are more remarkable for beanty than boldncss, being all of gentle acclivity, and conmonly separated from each other by spacionis vales and romantic inequalities. Every valley has its rivulet, and every hill its cascade. Ou the southern side of the island, the scenery is of a different uature, consisting of the stupendous ridges of thes Blue mountains, of abrupt precipices aud inaccessible cliffs, approaching the shore. The soil of Jamaica is in some places deep and fertile; but, on the whole, Ellwards pronounces it to be an unfruitial and laborions country, compared with those which have been gencrally regarded as fertile. He calculates the isliund to contain $4,080,000$ acres, of which not more than about $2,000,000$ have been granted to individuals by patent from the crown. The island is well watcred. There are about 100 rivers, which take their rise in the mountains, and run, conmonly with great rapidity, to the sca on both sides of the island. None of them are navigable, except for boats. Black river is the deepest, and has the greatest current. There are spinge, hoth sulplureous and chaly, eate, in different parts of the country.

The climate of Jamaica on the plaius is hot, the average heat from June to Novenber inclusive, being $80^{\circ}$ Fahr., and, in the colder season, from 70 to 80 . On the higher grounds, the licat is less. The year, as in all tropical countries, may be divided between the wet and dry seasons. Sugar, indigo, cotton and coffee are the most inportant natural productions of Jamaica. Maize, or Indian, and Guinea corn, and rice, are also cultivated. The bread-fruit tree, with several other useful plants, has been introlueed by the exertions of sir Joseph Banks. The island also abounds with different kinds of grass, of excellent quality. The several kinds of kitehen garden produce, namely, those edible roots and pulse which are in use throughout Europe, thrive well in the mountainous parts. There are also exeellent vegetables of native growth. The other indigenous productions are plantains, bananas, yams of several varieties, calalue (a species of spinage), eddocs, cassavi and sweet potatoes. Fruits arc found in equal perfection and variety, and no country affords so magnificent a dessert. The monntains are also covered with extensive woods, containing excellent timbers, some of which are of prodigious growth and solidity ; while others, as the well known mahogany, are well adapted for cabinet work. The indigenous quadrupeds of the island were the agouti, the pecare or Mexican hog, the amadillo, the opossmm, the raccoon, the musk-rat, the alco, and the monkey. The agouti perlaps remains, and the raceoon was numerous in the time of sir Hans Sloane. The other animals are extirpated. Of the lizard, there are many varieties. The woods and marshes abound in great varicty of wild fowl, some of exquisite flavor. Parrots are still found in the groves; but the flamingo is nowhere to be seen. The limit of the miasmata and pestilential atmospliere, in this zone, is supposed to be at an clevation of about $\mathbf{1 3 0 0}$ fect above the sea. At that height, the air is perfectly salubrious. The ligh distriet, called Pedro plains, on the soutl-west coast of Janaica, is said, byliryan Edwards, to vic with auy spot on the surfiece of the globe, in the inildness of its temperature and the purity of its air. At the cstate of Cold Spring, 4200 fect above the level of the sea, he thought the climate the most delightful he had ever exnerieneed; the therinometer seldom falls below $55^{\circ}$, or excceds $70^{\circ}$; and many English fruits, as the apple, peacli, straivberry, \&e: flourish there in perfection. Jamaica is situated near the limits
of the great volcanic region of South Ameriea, and it is, in consequence, liable to eartloquakes. June 7, 1802, at mid-day, an earthquake destroyed the town of Port Royal. The convulsion lasted about three minutes, when the town suak several fathous under water. The walls of the buildings may still be seen in calm weather. The heavy buildings throughout the island were thrown down, shattered mountains ruined many settlements, general sickness cnsued, order and industry were at an end, and a mischicvous confusion prevailed until the terror subsided; 3000 lives were lost by this visitation. Smart shoeks are felt almost every year ; in 1802, and again in 1816, they were more violent than usual. Hurricanes are more frequent, and, in many cases, more terrible and destructive than earthquakes. A succession of hurricanes desolated this and some of the neighloring islands for seven years, begimning in 1780 , with the exception only of 1782 and 1783 . The first, in 1780, was much the most destructive. The anomut of property destroyed excecded $2,000,000$ pounds sterling. The grazing farms have lately increased much, and horued cattle are abundant. They feed on Guinea grass, which was introduced? ly means of sceds hrought and dropped ly birds, in the middle of the last century. The oxen are chiefly from the Spanishl breed, small, but hardy. The shee, are said to have been originally African. The swine are smaller than those of Europe, and have short pointed cars. The pork is said to be much whiter and sweeter than that of Great Britain. The wild log abounds iu the renuote woods. The chase of the wild boar is a favorite diversion of the Creole whites. The Creole horses are sinall, but active. The English and North American horses do not so well endure the climate. The mules do the heavy work of the plantations, and are capalle of coduring twice as much fatigue as a horse. The latter is seldom used as a beast of burden. The carts and wagons are drawn by oxen. The rats are iery numerous and destructive, particularly to the sugar cane; in some years, whole fillds of this plant are as completely destroyed by them as if a blight had alighted on them. Eight or ten hogsheads of sugar are supposed to le annually lost in this way out of every hundred. 50,000 rats have been cauglit on some propertics in a single year, but no sensible diminution of their number takes place. The negroes eat them dressed in inolasses. The legislatnre of Jamaica is composed of the gor-
ernor, of a council nominated by the crown, consisting of 12 gentlemen, and a house of assembly containing 43 members, who are elccted by the freeholders. The most important articles of export produced in the island are sugar, rum, molasses, coffee, cocoa, cotton, indigo, pimento and ginger. Population of Jamaica at different periods :


The slaves amounted in 1812, to 319,912; in 1817 , to 346,150 ; in $1826,331,119$. This decrease is owing chiefly to the manumission of the slaves. The free people were supposed, in 1812, to amount to 40,000 ; but it is probable that the whites alone exceed that number at present, that the free people of color are as many more, and that the whole population exceeds 400,000 . The capital is St. Jago de la Vega, or Spanish Town (7000 inhabitants). Kingston is the principal place in the island ( 35,000 inhabitants). Lon. $76^{\circ}$ $45^{\prime}$ W. ; lat. $18^{\circ} 12^{\prime} \mathrm{N}$.

Historical Sketch.-Jamaica was discovered by Columbus, May 3, 1494, in his second cxpedition to the new world. In June, 1503 , being on his return from Veragua to Mispaniola, he was driven by tempestuous weather upon this island, where lie remained upwards of 12 months, having lost his vessels, and suffered every variety of hardship. After his death, his son Diego, as hereditary viceroy of the countries discovered by his father, sent out, in 1509, to Jamaica, Juan de Esquivel, who conciliated the natives by his kindness ; and the island prospered under his administration. His successors, however, appear to have adopted the cruel policy of other governors of that pcriod. So entire was the extermination of the Indians at Jamaica, that of a population of 60,000 persons living at the discovery of Columbus, not a single descendant was alive little more than a century and a half afterwards. In 1596, an English party took the capital, and delivered it up to pillage. Forty years afterwards, it was again invaded by a force from the Windward islands, and the town of St. Jago de la Vega was plundered. Jamaica was finally conquered by the English during the administration of Oliver Cromwell. The whole number of whites at this time did not exceed 1500 , and the number of negrocs was about the same. The Spanish inhabitants, rendered desperate by oppression, inade a manly resistance, and for a long time the English were harassed by their vindictive incursions. Cromwell encouraged enigration,
both from Great Britain and the other colonies in the West Indies. Two or three thousand persons were engaged by Henry Cromwell in Ireland, and a considerable number embarked from Scotland for this pripose ; and, in the hands of governor D'Oyley, the government was administered with energy. In May, 1658, an attempt was made by the Spaniards to recover the island; but the force which landed for this purpose was repulsed. About this time, the settlement became the resort of the buccaneers, who spent their immense gains in characteristic extravagance, and enriched the inhabitants. After the restoration of Charles II, Jamaica became a place of refuge for many republicans who liad distinguished themselves in the civil contest. One of the first measures of the monarch was to continue D'Oyley in office, and authorize the election of a council and assembly of representatives by the people. This, which was the first establishment of a regular civil government, the island having been previously governed by martial law, took place in 1661. Afterwards, controversies arose between the assembly and the crown, which unsettled the affairs of Jamaica for a space of fifty years. At length, in 1728, a compromise was effected. The assembly consented to settle on the crown a standing revenue of $£ 8000$ per amum, on certain conditions, of which the following are the principal: 1. That the quit rents arising within the island should form part of the revenue; 2. that the body of their laws should receive the royal assent; and, 3. that all such laws and statutes of England, as had been esteemed laws in the island, should continue such. The most important event in the recent history of Jamaica, is the final overthrow and exile of that formidable band of fugitive negroes, who, under the name of Maroons, had formed an indeperdent and hostile community in the island, for the greater part of a century. On the conquest of the island from the Spaniards, a multitude of African slaves fled to the mountains, beyond the reach of the invaders, and maintained themselves in these fastnesses in spite of all their efforts. Their numbers were continually increased by the accession of deserting slaves, and a harassing conflict was kept up with the whites, in which the latter were the principal sufferers. In 1738, an accommodation was effected, and a species of independence guarantied to these hardy outlaws ; but at length, in 1795, hostilities broke out again. The activity and skill of the Maroons rendered them an overmatch for the great force brought
against them. In this state of things, the British resorted to the use of blood-hounds, 100 of which werc imported from Cuba, and, under the direction of experieneed limtsmen, were let loose upon the momtaineers, to seize and tear the unhappy fugitives. Thus hunted down like wild beasts, and hemmed in by a force too powerful to be overcome, they had no alternative but submission. The expulsion of this brave and unhappy race was dctermined upon, and finally carried into effect. About 600 were transported to the cold and bleak shores of Nova Scotia, where many of them perished miserably. (See Long's Hist. of Jamaica (3 vols., 1774); Edwards's Hist. of the W. Indies (1809); Roughley's Jamaica Planter's Guide(1820).

Javelicirus; an eminent philosopher, a native of Clialcis, in Ccelosyria, who flourished in the begimning of the 4 th century. He was the scholar of Anatolius and of Porphyry, and, having become perfect in the mysteries of the Plotinian school, he taught with vast reputation. He professed to perform wonders by the aid of invisible heings. His writings discover extensive reading, but his style is inclegant, and he borrows freely, especially from Porphyry. The school of Jamblichus produced many eclectic philosophers, who were dispersed throughout the Roman empire. The philosophical works of Jamblichus, now extant, are, the Life of Pythagoras ; an Exhortation to the Study of Philosophy ; Three llooks on Mathematical Learning; a Commentary upon Nicomachus's Institutes of Arithmetic ; and a Treatise on the Mysteries of the Egyptians, Chaldeans and Assyrians. St. Jerome states that he also wrote a copious commentary on the golden verses of Pythagoras. He died about 333 . This Jamblichus must be distinguished from the person of the same name, to whom the emperor Julian dedicates his epistles, for Julian was scarcely born when the successor of Porphyry died. The best editions of Jamblichus are these: De Myst. Egypt. Chald. et Assyr. nec non alii Tractatus philosophici, Aldus (Venice, 1497); De Myst. Egypt. nec non Porphyrii Epistola, \&c., Gr. et Lat., Gale (Oxon. 1678); and De Vita Pythag., Gr. et Lat., Kuster (Amsterdam, 1704, 4 to.

James, St., called the Greater, the son of Zebedee and the brother of John the evangelist, was born at Bethsaida in Galilee. He was called to be an apostle, together with St. John, as they were mending their nets with their father, Zebedee, who was a fisherman. Christ gave them the name of Boanerges, or sons of thun-
der. They then followed Christ, were witnesses with St. Peter of the transfiguration on mount 'Tabor, and accompanied our Lord in the garden of Olives. It is belicved that St. James first preached the gospel to the dispersed Jews, and afterwards returned to Judea, where he preached at Jcrisalem, when the Jews stirred up Herod Agrippa against lim, who put him to a cruel death, about the. year 44. 'Thus St. James was the first of the apostles who suffered martyrdom. St. Clement of Alexandria relates that his accuser was so struck with his constancy, that le became converted, and suffered with him. There is a magnificent church at Jerusalen, which bears the name of St. James, and belongs to the Armenians. The Spaniards pretend that they had St. James for their apostle, and boast of possessing his body ; but Baronius, in his amals, refutes their pretensions. -James, St., called the Less, an apostle, the brother of Jude, and the son of Cleophas and Mary, the sister of the mother of our Lord, is called in Scripture the Just, and the brother of Jesus, who appeared to him in particular after his resurrection. He was the first bishop of Jernsalem when Ananias II, high priest of the Jews, caused him to be condemned and delivered into the hands of the people and the Pharisees, who threw him down from the steps of the temple, when a fuller dashed out his brains with a club, about the year 62. He was the author of the epistle which bears his name.

James, St., of the Sword (San Jago del Espada); a military order in Spain, instituted in 1170, by Ferdinand II, king of Leon, to stop, the incursions of the Moors. The knights must prove their descent from families that have been noble on both sides for four generations, and that their ancestors have neither been Jews, Saracens nor heretics, nor called in question by the inquisition. Their yows are those of poverty, obedience, conjugal fidelity, and the defence of the immaculate conception of the holy virgin.

James I, king of Scotland, of the house, of Stuart, born in 1394, was the son of Robert III, hy Annabella Drummond. In 1405, his father sent him to France, in order that he might escape the danger to which he was exposed by the ambition of his uncle, the duke of Albany ; lout, being taken by an English squadron, he and his suite were carried prisoners to the Tower of London. Here he received an excellent education from I Henry IV of England, and, to relieve the tedium of captivity, ap-
plied himself to those poetical and literary pursuits, the existing evidences of whieh do him honor. Robert III died the following ycar, and James was proclainned king ; but, during the remainder of the reigi of Henry IV, and the whole of that of Henry V, he was ungenerously detained in England, with a riew to prevent the alliance of Scotland with France. This did not, however, prevent the apprehended result. At length, under the regency of the duke of Bedford, he was restored to his kingdom. after a detention of 18 years, at which time he was in his 30th year, and highly accomplished, both menially and in the manly exercises. He married Joanna Beaufort, a lady of distinguished beanty, of the blood royal of England, who is thought to be the fair dame alluded to in his pleasing poem of the King's Qulair, of whom he became enamored, from beholding her in the royal gardens from the windows of his apartinents, while a captive in Windsor castle. On his return to Scotland, fincting that the duke of Albany and his son had alienated many of the nost valuable possessions of the crown, he caused them to be conricted and executed as traitors, and thicir estates to be confiscated. These and some other strong measures in the resumption of inprovident grants, under the regency of the dukes of Albany, were atoned for by the enactment of many good laws in his parliaments; and, as far as a lawless nobility would allow then to be put in practice, they mueh improved the state of society in Scotland. In 1436, he renewed the Scottish alliance with France, giving lis daughter Margaret in marriage to the dauphin, and sending with her a splendid train and a large body of troops. A fruitless endeavor of the English to prevent this marriage, by intercepting the Scottish fleet in its passage, so exasperated Janics, that he declared war against England. He was, however, on sucli bad ternns with his nobility, in consequence of his endearors to curb their ambition and improve his reveme, that he was obliged to disband his arny, under the apprehension of a conspiraey. He then retired to the Carthusian monastery of Perth, which he lad himself founded, where he lived in a state of privacy, which facilitated the success of a plot formed against his life. The chief actors in this tragedy were Robert Graham, and Walter, earl of Athol, the king's mele, the former of whom was actuated by revenge for the resmmption of some lands improperly granted to lis family; and the later by the lopes of suc-
ceeding to the crown. By means of mibery, the assassins grained admission to the king's apartment; and an alarm being raised, the queen's ladies attempted to secure the clamber door. One of them, Catharine Douglas, thrinst her arm through the staple, in wlich state she remained until it was drcadfully broken by the assailants. The instant the assassins got into the apartments, they dragged the king from his concealment, and, in spite of the eries and remonstrances of the queen, who in vain threw herself between them and the object of their resentment, put him to death by multiplied wounds. He perished in the 44th year of his age, and 13th of his reign, Feb. 20, 1437, leaving one son and five daughters; and his murder was punished by the deaths of the conspirators in exquisite tortures. The king, who may be said to have fallen a martyr to his attempts to abolish the anarchy and disorder which prevailed throughout his kingdom, holds no inconsiderable place in the catalogne of royal authors, by his poems of the King's Quhair, already mentioned, Christ's Kirk o' the Green, \&c., the latter of which is humorously descriptive of the manners and pastimes of the age. James is also said to have been a skilful inusician, and some attribute to him the composition of several of the most admired of the Scottislı melodies; but of this doctor Burney is muel inclined to doubt. An accurate list of the works of James I will be fonnd in Park's edition of Walpole's Royal and Noble Authors.

James V of Scotland sueceeded, in 1513, at the death of his father, James IV, though only 18 montlis old. His mother, Margaret of England, governed during his childhood; but, at the age of 17 , he assumed the reins of gorcrmment, and, in 1535, married Magdalen, laughter of Francis I, who dicd two years after. He afterwards married Mary of Lorraine, widow of Louis of Orleans, and died Dec. 13, 1542 , leaving the throne to his only clide, Mary Stuart, who was born only eight days beffo. nis death.

Juve uf Fngland, and VI of Seotland, ット-:... ... is Mary, queen of Scotland, by .... . ©..s.a Henry lord Darnley. He was bom at Edinburgh castle, in Junc, 1566, at the unfortumate period when his mother was at variance with her husband, and lad begun to fix her affections on the f:rll of Bothwell. In the storny and disgraceful tines which followed, the intant prince was committed to the charge of the earl of Mar; and, in the following year, Mary being forced to resign the crowi, lie
was solemuly crowned at Stirling, and from that time all public acts ran in his name. His childlood was passed in ciril wars, under the regencies of Murray, Mar and Morton, during which time he resided in Stirling castle, under the tuition of the celebrated Buchanan. His progress in school-learning was rapid ; but, as his character opened, an instability and weakness of temper became manifest, which indicated what, in the sequel, proved to be the case, that he would become an easy prey to flatterers, and his reigu be marked by injudicious favoritism. From the first, too, he seems to have imbibed those exalted notions of the royal authority and divine right which proved so injurious to his posterity. Some injudicious measures, in the spirit of these opinions, early produced a conspiracy of his nobles against him, who, in 1582 , took possession of his person at Rutliven castle. A new confederacy, however, effected his liberation, and he again put himself under the direction of his favorite, the carl of Arran. The policy of queen Elizabeth, whose apprehensions from the Catholic party in favor of Mary, led her to employ every art to keep ир a dissatisfied party in Scotland, was sreatly assisted by the violent and unprincipled measures of Arran against the connexions of the late conspirators, many of whom fled to England. When, lioverer, it becane apparent that the life of his mother was in danger from the sentence of an English judicature, James, who had hitherto treated her very irreverently, felt himself called upon to interfcre. He accordingly wrote a menacing letter to Elizabeth on the subject, appealed to other courts for assistance, and assembled his nobles, who promised to assist hime cither to prevent or revenge that queen's injustice. When the news of the catastrophe arrived, he rejected with proper spirit the excuses of Elizabeth, and prepared for hostilities; but he was finally prevented from engaging in actual war by the inadequacy of his resources: One of the first acts of his majority was to reconcile the feuds of his nobility, whom, for that purpose, he invited to a grand festival at Holyrood house. On the threatened invasion of England by Philip II, he judiciously resolved to assist Elizabeth against the Spaniards, and was zealously supported by his people for the preservation of Protestantism, who entered into a national covenant to maintain it. In 1589, Jaines married Anne, daughter of Frederic, king of Deninark. On his return home, after passing the winter in festivities at Copen-
hagen, he was in some danger from conspiracies against his life ; and, for several succeeding years of his reign, the history of Scotland displays much turbulence and party contest. In 1600 , while the country was in a state of musual tranquillity, a very cxtraordinary event took place, the causes of which were never discovered. White the king was upon a hunting excursion, he was invited by the brother of Ruthren, earl of Gowrie, to ride with a small train to the carl's hous: at Perth. Here he was led to a remote chamber, on pretence of a secret to be communicated to him, where he found a man in complete annor; and a dagger was put to his breast by Ruthven, with threats of inmediate deatl. His attendants, being alarmed, came to his aid. Gowrice and his brother were slain, and the king escaped unhurt. In 1603, James succeeded to the crown of Englaud, on the death of Elizabeth, and proceeded, amidst the acclamations of his new subjects, to London. One of his first acts was to bestow a profusion of honors and titles on the inhabitants of both countries, in which, as in many other points, he displayed a contrast to the maxins of the late reign. A conference held at Hampton court, between the divines of the established church and the Puritans, afforded James an opportunity of exhibiting his skill in theological controversy, and the ill will he bore to popular schemes of chureh government. The meeting of parliament also enabled lim to assert those principles of absolute power in the crown which he could never practically maintain, but the theoretical claim of which provided the increasing spirit of freedon in the house of conmmons with constant matter of alarm and contention. Although James liad behaved with great lenity to the Catholics in Scotland, those in England were so disappointed in their expectations of favor, that the famous gumpowiler plot was concerted in 1605 , the object of which was to blow up the king and parliament. (See Gunpowder Plot.) His cares for reducing and improving Ireland do him honor. In 1612, he lost his eldest son, Henry, a prince of great promise, then of the age of 19 ; and, in the following year, the eventful inarriage of his daughter Elizabeth with the: elector palatine took plaee. Abont this tinue, the object of the weak passion of Jamer for liandsome favorites was Robert Carr, a youth from Scotland, who in a short time was raised from a court page to be earl of Somerset, and was loaded with honors and riches. The scandalous murder of
sir Thomas Overbury, ly the machinations of this minion and his infamous countess, put an end to the king's partiality, although he disgracefully pardoned the principals in the murder, while he allowed their agents to be executed. The fate of Somersct paved the way for the rise of George Villiers, duke of Buckingham. (See Buckingham.) No circuinstance in the reign of Janes was more unpopular than his treatment of the celebrated sir Walter Raleigh. Soon after the king's accession, that statesman, who had been opposed to the Scottish suecession, engaged in a plot to set aside James in favor of the lady Arabella Stuart, for which he was tried and capitally convicted, but, being reprieverl, was kept 13 years in prison. In 1615, he obtained his release by dint of money, and was allowed to set ont upon an expedition to the South seas, in search of gold, with the sentence of death hanging over his head. He was unsuccessful in his objects, and James, instigated, as it is supposed, by his desire of an alliance between prince Charles and the Infanta of Spain, listened to the suggestions of the latter power, and, to the great scandal of the whole nation, sir Walter was executed upon his former sentence. The match with the Infanta, notwithstanding, failed, and Charles married Henrietta Maria, daughter of Henry IV of France, with the disgraceful stipulation, that the ehildren should be brought up by their mother until 13 years of age; to which arrangement the future religious opinions of Charles II and James II may, perhaps, be attributed. The close of the life of James was marked by violent contests with his parliament, which prepared dreadful consequences for his successor. He was also much disquieted by the misfortune of his son-in-law, the elector palatine, who, having been induced to acecpt the crown of Bohemia, and to head the Protestant interest in Germany, was stripped of all his dominions by the emperor. Urged by national feelings for the Protestant cause, he was at length, in 1624, induced to derlare war against Spain and the emperor; and troops were sent over to Holland to :art in conjunction with prince Matrice. The defeat of this enterprise, through sickness and mismanagement, it is thought, produced the king so much uncasiness as in cause the intermittent fever by whiclı he was soon after attacked, and of which he died in March, 1625 , in the 59th year of his age.-James was not destitute of albilities nor of good intentions, but the former were not those of a ruler, and the latter were defeated by pliability and un-
manly attachments. His reign, although not unprosperous to his subjects, was inglorious in character and loss of influence, and he was neither beloved at home nor esteemed abroad. He received during his lifctime a great deal of adulation, on the score of his literary abilities; but he merits far more as an encourager of learning, than for the fruits of it displayed by himself, all of which were debased by pedantry and prejudice. Upon the whole, the good qualities of James were unstatesmanlike, and his bad ones unmanly and puerile.

James II, king of England, and VII of Scotland, second son of Charles I and of Henrietta of France, was born in October, 1633 , and immediately declared duke of York. After the capture of Oxford by the parliamentary army, he escaped, in 1648, at the age of 15 , and was conducted to his sister, the princess of Orange. He soon after joined his mother at Paris, and, when he had reached his 20th year, served in the French army under 'Turenne, and subsequently entered the Spanish army in Flanders, under don John of Austria and the prince of Condé. In these campaigns he obtained reputation and experience, although with the display of no very great or shining qualities. At the restoration, he took the command of the fleet, as lord liglı admiral. He had previously married Anme, daughter of chancellor Hyde, afterwards lord Clarendon (see Clarendon), and ungeneronsly attempted to free himself from the union; but the marriage being satisfactorily established, he could not suecced. In 1664, he took a learling part in promotirg a Dutch war, for the alleged interests of trade, and, June 3, 1665, with a powerful fleet under his command, engaged that of the Dutch under Opdan, who, with his ship, was blown up in the action, and 19 of his squadron were sunk or taken, with the loss of only one on the part of the English. In 1671, the duchess of York died, leaving her husband two daughters, who hecame successively queens of England. Before her death, she declared herself a convert to the lioman Catholic faith, which had bcen secretly that of the duke for many years, and was now openly arowed by him. This declaration produced a great impression on the people, and laid the foundation of the opposition which finally chrove lim from the throne. In the Dutel war of 1672 , he was again placed at the head of the fleet, and, being attacked by De Ruyter, a furious engagement ensued. The Dutch fleet at length retired. A test act
being soon after passed, to prevent Roman Catholies from holding public employments, the duke was obliged to resign his command-a result which induced him to join heartily in the plot of the king and certain of his counsellors, to restore the Roman Catholie religion. In 1671, he mauried Mary Bcatriee of Este, daughter of the duke of Modena, and, in $167 \%$, his eldest daughtcr, Mary, was united to William, prince of Orange. During the violent proeeedings on aceount of the supposed popish plot in 1679, by the advice of the king, he retired to Brussels, and a bill passed the commons for his exclusion from the throne, which was, however, rejeeted by the lords. When the royal party again prevailed, the duke, in 1681, was sent into Seotland, wherc he acted with great rigor, not to say eruelty, to the remnant of the Covenanters. It is even said that he sometimes personally assisted at the torture of criminals, and altogether exhibited himself as a man of a severe and unrelenting temper. During the whole of the remaining reign of Charles II, indecd, during whieh he possessed great influenee in the government, he was forward in promoting all the severe measures that disgraeed it. On the death of Charles II, in Febrnary, 1685, the duke succeeded, under the title of Jamcs II, and, from the time of his aseending the throne, seems to have aeted with a stcady deternination to render himself absolute, and to restore the Roman Catholic religion. After disgusting the great majority of his subjeets, by attending inass with all the eusigns of his dignity, he proceeded to levy the customs and excise withont the authority of parliament. He even sent an agent to Rome, to pave the way for a solemn reädmission of Eugland into the bosom of that clureh, and reeeived advice, on the seore of moderation, from the pope hinself. This conduct eneouraged the rebellion of the duke of Monmouth. The unrelenting temper of James was acain exhibited in the executions on this aceount. The legal procecdings under Jeffreys were brutal in the extreme; and it is cstinnated that no fewer than 251 persons suffered in the west of England by the cruel proceedings of that infamous judg?, which it was the euston of the king to gibe upon, under the name of feffreys' campuign. The temporary awe, produeed by this severity, even in parliainent, was so great, that James was encouraged to throw off almost all disguise, hoth in regard to religion and government. By virtuc of his assumed diepensing pow-
er, he rendered tests of no avail, and filled lis arny and couneil with Roman Catlolics. Ie put Ireland entirely into their hands, and governed Scotland by a few noblemen who had become eonverts to the same faith. IIe gradually proeeeded to a direet attaek on the establislied cluurel, by the formation of an ecelcsiastieal commission, which cited before it all clergymen who had done any thing to displease the eourt. A declaration of indulgenee in matters of religion, was ordered to be read by the elergy in all the churches of the kingdom. Seven bishops met, and drew up a loyal and humble petition against this ordinance, whicl step being eonsidered as an aet of disloyalty, they werc sent to the Tower. The imnovations, in regard both to the rcligion and government, gradually unitcd opposing interests, and a large body of nobility and gentry coneurred in an application to the prinee of Orange, who had been secretly preparing a flcet and an army for the invasion of the country. James, who was long kept in ignorance of thesc transactions, when informed of them by his minister at the Hague, was struck with terror equal to his former infatuation; and, immediately repealing all his obnoxious acts, he praetiscl cvery method to gain popnlarity. All eonfidenee was, however, dcstroyed betwcen the king and the people. William arrived with his flcet in Torbay, Nov. 4, 1688, and landed his forees; but the remembrance of Monmouth's rebellion, for some time, prevented the peoplc in the west from joining him, until, at length, several men of rank went over, and the royal army began to desert by entire regiments. Incapable of any vigorous resolution, and finding his overtures of accommodation disregarded, he resolved to quit the country. He repaired to St. Gcrmain, where he was received with great kindncss and hospitality by Louis XIV. In the meantime, the thronc of Great Britain was declared abdicated, and was filled, with the national and parliamentary eonsent, by his eldest daughter, Mary, anil her husband, William, eonjointly; Anue, who had, equally with her sister, been edueated a strict Protestant, leeing declarcl next in suecession, to the exclusion of the infant prinec. Mssisted by Louis XIV, James was enabled, in Miareh, 168!, to make an attempt for the recovery of Ireland. The battle of the Boyne, fouglit June, 1690, eompelled lim to return to France. All suceceding projeets for his restoration proved equally abortive, and he spent thic last yeats of lis life in acts of ascetic de-
votion. He is even said to have entercd into the society of Jesus. He died at St. Gerınain, September 16, 1701, at the age of 68.
James III, the Pretender. (See Stuart, James Edward Francis.)
James, Robert, an ingenious physician and medical writer, but best known as the inventor of a specific for the cure of fever, was born in 1703. He practised medicine in London, and engaged in the compilation of a medical dictionary, which appeared in 1743, in thrce volumes, folio. In this work James is said to have been assisted by his friend doctor Johnson, who has warmly eulogized his professional skill, in his Lives of the Poets. He published, in 1751, a Dissertation upon Fevers, the purpose of which was to recommend a peculiar medicine, since known by the name of James's powder. For this preparation he procured a patent, and sold it as a secret remedy, by which he exposed limself to the hostility of his professional brethren, who looked upon his conduct as inconsistent with the dignity of the medical character. James's powder is now known to be antimoniated phosphate of lime; and a preparation very similar to it, if not exactly the same, has long had a place in the London Pharmacopœia. The general respectability of his character as a man of science and literary acquirements, enabled him, in a great degree, to triumph over the prejudices excited by a mode of conduct which placed him so near the level of those pests of society, the majority of advertising empirics and venders of patent medicines. In 1760 , he published a work entitled the Practicc of Physic (2 vols., 8vo.), and subsequently a treatise on canine madness, and a dispensatory. One of his last literary labors was, a Vindication of the Fe ver Powder, not published till after his death, which took place in 1776.

James's Palace, St., in Pall-Mall, London, a royal palace, stands on the site of an hospital of the same name. It las been the acknowledged town residence of the English kings since Whitehall was consumed, in 1695; but, though pleasantly situated on the north side of St. James's park, and possessing many elegant and convenient apartments, calculated for state purposes, yet it is an irregular brick building, without a single external beauty to recommend it as a palace. In the front, next to St. James's street, little more than an old gate-house appcars, which serves as an entrance to a small square court, with a piazza on the
west of it, leading to the grand stairease. The buildings are low, plain and mean. Beyond this are two other courts, which have little appearance of a king's palace. The state apartments look towards the park; and this side, though certainly not imposing, cannot be pronounced mean. It is of one story, and has a regular appearance not to be found in other parts of the building. The south-east wing was destroyed by fire in 1808, and has never been rebuilt, though the whole of the palace was repaired in 1821-2-3. The rooms of the king are magnificent in a high degree. It is from this palace that the cabinet of the king of Great Britain is called the cabinet of St. James. Behind this palace is St. James's park.

James's Park, St., was a complete marsh till the time of Henry VIII, who, having built St. James's palace, enclosed it, laid it out in walks, and, collecting the waters, gave the new enclosed ground and building the name of St. James. It was afterwards much improved by Charles II. He formed the canal, which is 2800 feet long, and 100 broad. Succeeding kings allowed the people the privilege of walking here.

James River; a river, in Virginia, formed by the union of Jackson's and Cowpasture rivers. At the point where it begins to break through the Blue ridge, it is joined by North river: It passes by the flourishing towns of Lynchburg and Richmond, and communicates, through Hampton road and the mouth of the Chesapeake bay, with the Atlantic. Its general course is south of east. A fortygun ship may go ${ }^{2}$ up to Jamestown, and, by lightcning herself, to Harrison's bar, where there are 15 feet of water. Vessels of 250 tons go up to Warwick, and those of 120 to Rockets, just below Richmond. The river is navigable for batteaux 220 miles above Richmond. It opens a navigation into a country abounding in tobacco, wheat, corn, hemp, coal, $\& \mathrm{c}$.

Jameson, Robert, born at Leith, near Edinburgh, is one of the most eminent British mineralogists, regius professor of natural history in the university at Edinburgh, keeper of the museum, president of the Wernerian society, member of the royal society of Edinburgh, of the antiquarian and Linnæan societies. His lectures ou geology, mineralogy, and the kindred sciences, have given him much reputation, which has been increased by his writings. His first work (Outlines of the Mineralogy of the Shetland Islands, and of the Island of Arran) appeared in 1798.

His Outlines of the Mineralogy of the Scottish Isles, \&c. (1800, 2 vols., 4to.), and his Treatise on the external Characters of Minerals (1805), which appeared with additions in 1816, embracing the Chemical and Physical Characters, are particularly distinguished. His greatest work (System of Mineralogy, 1804-1808, three volumes) is founded on the Wernerian theory, and is rich in original researches. In the third edition of this System (1820) there are some deviations from this theory, and the natural historical method is principally followed. Jameson published (1814) Curier's Essay on the Theory of the Earth, with an introduction and mineralogical notes. He has also contributed valuable papers to Nicholson's Journal, and Thomson's Annals.

Jamestown; a town in James City county, in Virginia, on an island in James river, 32 miles above its mouth, $8 \mathrm{~S} . \mathrm{W}$. Williamsburg, 65 E. S. E. Richmond. This town was established in 1608, and was the first town settled by the English in the U.States. The town is now in ruins, and almost desolate. Two or three old houses, the ruins of an old steeple, a churchyard, and faint marks of the rude fortifications, are the only memorials of its former importance.
Jami, or Djamy (properly Abd Alrhaman ebn Achmed), a celebrated Persian poet, born in 1414, had his surname from his native place Jam, in the province of Chorasan. He eclipsed the greatest geniuses of his time. The sultan Abu Said invited him to his court at Herat; but Jami, who was a follower of the doctrine of the Sophi, preferred the ecstasies of a mystic to the pleasures of the court. He often sat in the hall of the great mosque at Herat, where he conversed in a free and friendly manner with the common people, instructed them in the principles of virtue and religious faith, and won their hearts by his gentle and persuasive eloquence. When he died, in 1494, the whole city was in sorrow. The sultan gave him a magnificent funeral, at the public cost, and the earth, say the Persian poets, opened of itself, like a shell, to receive this invaluable pearl. He was one of the most fruitful of the Persian authors, leaving more than 40 works, mostly of a mystical character. Seven of the most interesting he joined together, under the title of the Seven Stars of the Bear. To this belongs Jussuf and Zuleika, one of the most entertaining works in Persian, of which Law, in the Asiatic Miscellanies, has published some fragments; also the
clarming fiction Mejnoun and Leila, which has been translated into French by Chezy (Paris, 1805), and into German by Hartunam (Leipsic, 1807, 2 vols). His Beharistan, a treatise on morality, ill verse and prose, is compared to Sadi's Gluulistan. Extracts from it have been printed by Jenisch (in the Anthologia Persica) and by Wilken (in the Chrestomathia Persica, Leipsic, 1805). According to Göthe, he combines all the excellences of the carlier Persian pocts.

Jamieson, John, doctor; a plilologian, minister to a congregation of seceders from the Scottish church, in Edinburgh, member of the royal society of Edinburgh, and secretary of the antiquarian society, \&c. He first appeared as a poet in 1789, when he published the Sorrows of Slavery. In 1798, appeared his Eternity, a poem in which he endeavors to lead freethinkers back to the faith. He also published a number of sermons against skepticism, and opposed the views of doctor Priestley and others in several works (1795-1802). This pious scholar is highly esteemed as an antiquary and lexicographer. His Etymological Dictionary of the Scottish Language (1808 et seq., two volumes, 4to.) is a masterpiece of learned research. He published an abridgment of it in 1818. His Hermes Scythicus (1814), his Historical Account of the ancient Culdees of Iona, and his contributions to the Edinburgh Philosophical Transactions, are favorably known.

Janeiro, Rio de. (See Rio de Janciro.)

Janiculum (castellum), or Mons JanicuLus; one of the seven hills of Rome, on the right bank of the Tiber, also called mons Aureus, on account of the yellow sand (corrupted into Montorio). According to tradition, it received the name of Janiculum, because Janus first cultivated it . It afforded the most beautiful view of the city. The pons Siblicius connected it with the other part of Rome, to which Ancus Martius added it. The hill is now called Gianiculo.

Janina. (See Joannina.)
Janizaries. "In the year 1389," says Gibbon, "the Turkish cimeter was wielded by Amurath I, the son of Orchan and the brother of Soliman. He subdued the whole province of Romania or Thrace, from the Hellespont to mount Hæmus and the verge of the capital. He marched against the Sclavonian natious between the Danube and the Adri-atic-the Bulgarians, Servians, Bosnians
and Albanians-and their warlike tribes, who had so often insulted the majesty of the empire, were repeatedly broken by his destructive inroads. The natives of the soil have been distinguished in every age by their hardiness of mind and body, and they were converted, by a prudent irstitution, into the firmest and most faithtul supporters of Ottoman greatncss. The vizier of Amurath reminded his sovereign, that, according to the Mohammedan law, he was entitled to a fifth part of the spoil and the captives, and that the duty might easily be levied if vigilant officers were stationed at Gallipoli to watch the passage, and to selcct for his use the stoutest and most beautiful of the Christian youth. The advice was followed; the edict was proclaimed; inany thousands of the European captives were educated in the Mohammedan religion and arms, and the new militia was consecrated and named by a celebrated dervish. Standing in the front of their ranks, he stretched the sleeve of his gown over the head of the foremost soldier, and his blessing was delivered in these words-'Let them be called Janizaries (yingi cheri, or new soldiers); may their conntenances be ever bright; their hand victorious; their swords keen; may their spear always hang over the heads of their encmies; and, whercsocver they go, may they return with a white face.' White and black face are colmmon and proverbial expressions of praise and reproach in the Turkish language. Hic niger est, hunc tu, Romane, caveto, was likewise a Latin sentence. Such was the origin of these hanglity troops, the terror of the nations, and sometimes of the sultans themselves." They were kept up by continual additions from the sultan's share of the captives, and ly recruits, raised every five ycars, from the children of the Christian subjects. sinall partics of soldiers, eacll under a leader, and cach provided with a particular firman, went from place to place. Wherever they came, the protogeros assembled the inhabitants, with their sons. The leader of the soldiers had the right to take away all the youth who were distinguishad by beauty or strength, activity or talent, above the age of seven. He carried them to the court of the grand seignior, a tithe, as it were, of the subjects. Thie captives taken in war by the paclas, and presented by them to the sultan, incheded Poles, Bohemians, Russians, Italians, and Germans. These recruits were divided into two classes. Those who composed the one, especially in the carlier periods,
were sent to Natolia, where they ware trained to agricultural labor, and instruce ed in the Mussulman faith; or they were retained about the seraglio, where they carried wood and water, and were employen in the gardens, in the boats, or upon the public buildings, always under the direction of an oversecr, who with a stick compelled them to work. The others, in whom traces of a higher character were disceruible, were placed in one of the four seraglios of Adrianople or Galata, or the old or new one at Constantinople. Here they were lightly clad in linen or in cloth of Saloniki, with caps of Pruist cloth. Teachers came every moming, who remained with them until crening, and taught them to read and write. At a particular time, they were all circumcised. Those who had performed hard labor wcre made janizaries. Those who were cducated in the seraglios becanc either spahis, or higher officers of state. Both classes were kept under a strict discipline. The former, particularly, were accustomed to privation of food, drink and comfontable clothing, and to hard labor. Theywerc exercised in shooting with the bow and harquebuss by day, and spent the night in a long, lighted hall, with an overseer, who walked up and down, and permitted no one to stir. When they were received into the corps of the janizaries, they were placed in cloister-like barracks, in which the different odas or ortas lived so entirely in common, that the military dignities were called from their soups and kitchens. Here not only the younger eontimued to obey the clders in silence and submission, but all were governed with suclı strictuess, that 110 one was permitted to spend the night abroad, and whocrer was punished was compelled to kiss the hand of him who inflicted the punishment. The younger portion in the spraglios were kept not less strictly, cvery 10 being committed to the care of an incxorable eunuch. They were employed in similar exercises, but likewise in study. The grand seignior permitted then to leave the seraglio every three ycars. Those who chose to remain, ascended, according to their age, in the immediate ecrvice of their master, from chamber to chamber, and to constantly greater pay, till they attained, perhaps, to one of the four great posts of the innermest chan!her, fiom which the way to the dignity of a beglerbeg, of a capitan deiri (that is, an adminal), or even of a vizicr, was open. Those, on the contrary, who took adrantage of this permission, entered, cach one
according to his previous rank, into the four first corps of the paid spahis, who were in the immediate service of the sultan, and in whom he confided more than in his other body-guards. This institution fully satisfied expectation. An Austrian ambassador at the court of Soliman, Busbequius, whose accounts are to be perfectly relied on, speaks of the strict discipline of these janizaries, which made then appear at one time like monks, and at another like statues, of their simple dress, with only a few heron's feathers for an ornament to their heads, and of their temperate life. They would not suffer one among them, who had grown up in the indulgences of home. This corpshas in many instances been the salvation of the empire. The battle of Varna, the foundation of the Ottoman greatness, would not have been gained without them. At Cassova, the Rumelian and Natolian troops had already fled before the devil, as they called John Hunniades, yet the janizaries oltained the victory. It was their boast that they had never fled in battle; and Lazarus Suendius, for a long time a German general against them, confessed the truth of this assertion. In all accounts they were called the nerve and the sinew of the Ottoman army. It is worthy of remark, that this invincible infantry of the East was formed about the same time (in 1367) as the not less invincible Siviss infantry. The furmer, however, was composed of slaves, and the latter of free mountaineers. The whole body was divided into four squadrons, each containing a certain number of ortas (troops). Each orta, in Constantinople, was supposed to have 100 men ; elsewhere, 200 or 300 . In time of war, the complement was 500 men. The regimental rolls produced on the pay days inade the whole number of the corps 120,000 ; but those lists were never correct, and they comprehended all in actual service, the snpernumcraries who lived by their trades and callings, and succeeded in case of racancies, and the honorary members. Three years' scrvice gave a right to pay in time of peace. As the government furnished only a small allowance of provisions, and clothing for 12,000 men, the privates were suffered to work at their trades. All the men of one regiment were bakers, all those of two others butchers; others, again, were all boatinen, masons, \&c., and they were named accordingly. The kulah, or cap of dirty white felt, with a long strip hanging down behind, was the distinctive part of a janizary's dress. The Turkish
troops were required to find their owu arms, but, in time of war, fre-arms were furnislied to such soldiers as had none, from the arsenal at Constantinople. A firelock, pistols, mace and axe were the arms carried by tlie infantry ; and the janizaries prided themselves in having not only well-tempered, but also richly ornainented arnis. Besides the standards and horse-tails placed before the tent of the aga, or commander-in-chief, each orta had its own particular ensign. But a more important distinction, in the estimation of these troops, were the caldrons attached to each orta, two or three in number, placed under the care of the subaltern officers. The loss of these was considered as the greatest misfortune which could befall the regiment; and, if they were taken in war, all the officers were immediately cashiered, and in many cases the regiment was publicly disgraced. In these caldrons the broth was carried daily from the harracks to the different guard-houses. The police of the capital and the large towns was intrusted priucipally to the janizaries. Lampoons and seditious papers affixed to the gates of the mosques, and conflagrations in various parts of the city, were the means ly which this formidable body made its displeasure known to the sultan; but that discontent was seldom excited by any thing except the power of some unpopular minister, or the revival of a more rigid discipline. In various instances, sultans were deposed, insulted and murdered by the insurgent janizaries. This corps offers the only example in Turkish history of a public anathema or bann. After the dethronement of Osman II, a janizary of the 65th company dared to raise his hand against his fallen monarch, and strike him in the streets of the city: Amurath III punished the crime by cutting off the whole company. The memory of the crime and the punishment was renewed twice every month. On Wednesday, when the lights were distributed to the different barracks, the 65th company was called to receive their portion, but, at the second call, an officer replied, "Let their voice be silent; let them be wholly extinguished." The reforms which were attempted in this corps met with the greatest opposition on the part of the nembers, and produced several revolutions. It was finally entirely brokcn up in 1826. In May, 1826, the janizarics liad declared theinselves willing to have a new militia formed, but on the 14th June of that year, they rebelled on
this account; but the sultan and aga Hussein Pacha, at the head of the grand segnier's troops, repulsed the rebels; their barracks were burnt, and many were executed. The proclamation of June 17 abolished the corps forever, and laitl a curse upon the name. The new troops are disciplined in the mamer of the Christian nations.
Jansevius, Comelins, born 1585, profevsor of theology at Louvain, and from Lti36 bishop of Ypres in the Netherlands, owes lis fame, which eclipses the name of the elder Cornelius Jansenius (bishop of Chent ; died 1571; known as a biblical critic), to the controversy, during his age, eoncenning the nature and efficacy of divine gracc. (q.v.) Owing principally to the different representations of this doctrine by Angustine, who found it necessary to express himself differently in his dispute with the Manicleeans and in that with the Pelagians, this controversy was revived at the time of the reformation. The vague and contradictory expositions of the papal court on the subject, served only to increase the contention in the Catholie cluurch, where the pride and jealousy of the Dominicans and Augustines on one side, and the artificcs of the Franciscans and Jesuits on the other, kept up this angry controversy with increasing warmilh, the former contending for the strict antiPelagian principles of Augustine, the latter adopting a milder interpretation of them. The latter obtained a triumph over their adversaries, in 1567, by the papal bull condemning 76 propositions taken from the writings of the chancellor and inquisitor at Louvaiu, Michacl Baius (died 1589), a lcarned defender of the Augustinc doctrine. But the Spanish Jesuit, Lewis Molina (died 1600 ), went too far ou the other side, in his more than semi-Pelagian commentary on the dogmatics of Thomas Aquinas. Thic violence of the Molinistic controversies compelled the pope, in 1598 , to establish the congregation de auxiliis at Rome, for the examination of opinions concerning grace; and, this proving incffectual to restore harnony, lie wiscly required(in1611) of the contending parties, silence on this doctrine. Jansenius, who was an adrocate of the strict Augustine system, which had always prevailed at the university of Lourain, died 1638 , at $\mathrm{Y}^{\prime}$ pres, with an umblenished reputation for piety and purity of morals. But his . Augustinis, a book in which he maintained the Augustine doctrine of free grace, and recommended it as the true orthodox beliff, in opposition to the semi-Pelagianism of the Molinists, re-
vol. VII.
kindled the controversy on its publication in 1640. The book was condemned by a bull of pope Urban VIII, in 1643; but the partisans of Jansen declared the bull to be spurious; the university of Louvain protestel against it ; and, even in France, it was ineffectual to suppress the applausc with which many distinguished theologians received the Augustinus. Jansen's old friend, the abbot of St. Cyran, known as the dircctor of the nums of Port Royal, and a zealous opposer of the Jesuits, as well as for lis mysticism and ascctic piety, John du Verger de Hauranne (died 1643), had already prepared the minds of the French theologians for Jansenism. The scholars of the Port Royal, Nicole, Perrault, Pascal (whose Provincial Letters had exposed the old sins of the Jesuits), and, above all, Ant. Arnaud (lorn 1612; in 1643 made doctor of the Sorbome), men distinguished no less for religious principles and unblemished virtue than for rare learning and talents, undertook the defence of Jansenism; and the bull, in which the pope (1653) particularly condenned five propositions from the Aucustinus, met with a strong opposition. The five propositions were these: 1. That there are certain commandments of God which good men are absolutely unable to oley, though they desire to do so, God not having given them a sufficient measure of grace. 2. That no person, in the fallen state of nature, can ressist the influence of divine grace. 3. To render themselves meritorions in the sight of God, it is not requisite that men should be exempt from internal necessity, but only from outward constraint. 4. Tlat the semi-Pelagians are herctical in maintaining that the luman will is able to resist or obey the influences of divine grace. 5. 'ihat to say that Christ died for all men, is semi-Peligianism. Thesc propositions are really contained in the book of Jansenius, but lis partisans eontended that his propositions were not to be understood precisely in this sense, and that the pope was not to be regarded as infallible in deternining the meaning of the writer. Hence arose the important question whether the pope, whose right to decide a point of doctrine had never been disputed, had authority to determine a historical fact. Alexander VIf assumed this in 1656, in a special bull, declaring that Jansenius had understood the propositions in the scnse condemnued. The Jansenists were thus compelled either to recant or to secede frotis the Roman church. Although their protest against this unheard-of arrogance of
the Romish court, in pretending to know and to determine what a deceased author meant by expressions which admit of a double interpretation, could surprise no impartial person, it was yet regarded as an attack upon the infallibility of the pope, and drew down the displeasure of Louis XIV limself. This prince began, in 1661, to interfere in the controversy, and to persecute the Jansenists, who were already out of favor at court for preaching repentance and boldly censuring the viees of the age. But their interest with the French clergy and the influential men of the kingdom was such, that it was found impossible to force them to an uncouditional subscription of the bull of Alexander VII; and, in 1668, the agreement with Clement IX, by whieh a conditional subseription was permitted them, and the misunderstanding between the courts of Rome and Versailles, about the affairs of Spain, obtained for them a temporary repose. They lost, in 1679, their prineipal patron, Anna, duchess of Longueville, celebrated in connexion with the Fronde, and sister of the great Conde ; and Arnaukl, to escape persecution, retired in the same year into the Netherlands, where he continued till his death, in 1694, the most zealous and esteemed defender of Jansenism; but, notwithstanding these losses, the party stood its ground under the proteetion of Immocent IX (died 1689), a firiend of virtuc and justice, who favored them as much as Louis XIV and the Jesuits opposed them. The Jansenists made themselves worthy of this protection and of the favor of the better part of the educated inell in France. By endeavoring to tree theology from the chains of the hierarchy, and to promote a knowledge of the Scriptures anong the people; by inculcatiug, in the place of formal piety and lifeless ceremonies, an ardent participation of the heart and soul in the exercises of devotion, and a strict purity of life, they rendered undeniable service to the cause of true religion; and, these being considered, their excessive ansterity appears at least more excusable than the looser principles of the Jesuits. But this only rendered them more odious in the eyes of the Jesuits. Jansenisn, however, notwitlstanding all the opposition to it on the patt of the court, still continued to prevail. Fatlier Quesiel's Moral Observations on the New 'Tostament-the most universally read book of this period-rave it new support. The Sorbonne, in 1702, decided the celebrated case of conscience, whether a priest, suspected of Jansenism,
could grant absolution, in the affirnative, and the universally esteemed arehbishop of Paris, eardinal de Noailles, used his power against the Jansenists no further than was necessary for the peace of the ehureh. Clement XI at first pursued the same course, but La Chaise, confessor of Louis XIV, and his successor, the Jesuit Le Tellier, urged more violent incasures, in which the king, to whose diseased fancy Jansenism and rebelliou were synonymous, supported them. Quesnel, now at the head of the Jansenists, was struck from the list of the fathers of the oratory, and driven into exile. He died in 1709, at Amsterdan. In 1708, his New 'Testament was prolibited; the monastery of Port Royal des Champs, which was considered as the strong liold of Jansenism, was suppressed, by the royal police, in 1709, the nuns dispersed, the buildings demolished, and the work of persecution finally crowned by the bull Unigenitus (in 1713), which was forced frour the pope by Le Tellier. This bull, dictated no less by grossignorance than by furious thinst of vengeance, condemned 101 propositions from Quesnel's Testanent, which, according to this decree, were to be understood only in a Jansenist sense, although they were, in fact, mostly seriptural sentences, forms from the liturgy, and articles of faitl taken from the orthodox church fathers. The bull, therefore, only excited indignation and contempt, and inereased the numbers of the Jansenists. Louis XIV died in 1715, during the efforts that were made to carry it into effeet in France ; aud, taking advantage of the indifference of the regent, Noailles, with the majority of the French clergy, appealed from this decree of the pope to a general council. $\Lambda 1$ though the Jansenists were the original authors of this appeal, yet all the appellants were not Jansenists (see Unigenitus); but they all met with the same treatment, the ministers Dubois and F'lenry, out of eomplaisance to the pope, insisting on the unconditional reception of the bull, and rigoronsly persecuting all recusants. Great numbers of Jausenists emigrated to the Netherlands; the power of their party rapidly deelined, and the miracles (cures and sudden conversions) at the tomb of the abbé de Paris (who diest 1727, an early vietion to voluntary penances) found credit only with enthusiasts and the Parisian populace. The fanatical excesses of their party, from 1731, helped to ruin their cause. The frenzies of the Convulsionaries, or those who were seized with spasms and ecstasies at the tomb of this wonder-
working saint-of the Secourists, who availed themselves of external means to produce convnlsions, and had theinselves tormented with kicks, blows and stabsof the Naturalists and Figurists, who sometimes strove to represent the helplessness of human nature unaided by grace, and sometimes the purity of the Christian church, by indecent exposures of the body-of the Discernants and Melangists, who divided on the question whether the raptures were produced by God or the devil-these, and other fanatical sects of Jansenists and Appellants, must have necessarily made a thing, of which the world was already tired, utterly ridiculous ; and the encrgetic measures of the police, the continual burning of Jausenist books, the frequent imprisonments, but, most of all, the very natural subsidiug of enthusiasm, at last put an end to the party. From this time, Jausenisin ceased to exist in France, as a public and professed doctrine. Its pure morality and strict theology always gained for it friends, however, even in that country; and a part of the clergy, by their willingness to take the constitutional oath, during the revolution, showed that they would more readily renounce the authority of the pope than their own opinion. But though the old division of the Jansenists and Molinists continued up to the latest times, in the opposition between those who took and those who refused the oath (prêtres insermentés), yet we find but one separate society of the Jansenists, publicly acknowledged as such, and that in the United Netherlands, which, in accordance with the resolutions of the Jansenist provincial synod at Utreclit ( $176 \cdot 3$ ), docs not separate from the Catholic church, and even respects the pope as its spiritual head, but denies his infallibility, rejects the bull Unigenilus, and appeals from it to a general council. It maintains, also, the doctrines of Angustine, upholds moral strictness, and regards the inward service of God as the greatest proof of piety. These Jansenists, who call thomselvcs, by preference, the disciples of St. Augustine, have had, since 1723, an archbishop of their own at Itrecht, and bishops at Haarlem and Deventer, forming a clergy which, being sulbject to the civil authority, without riclies or power, performs its duties so much the nore faithfully, and exercises a well ordered church government, which they owe to the protection of Protestants, while they are still condemned by the pope as apostates and schismatics.
Januarius, St., bishop of Benevento,
was behearded at Puzzuoli, in the beginning of the 4th century, a martyr to the Christian faith, and is honored as the patron saint of the kingdom of Naples. In honor of him, the order of St. Januarius was established there, in 1738. His body lies buried in the cathedral at Naples; but his head, with two phials of his blood, which a pious matron caught, as the tradition is, at his execution, is prescrved in a separate chapel. Of this blood, the Neapolitans assert, that as soon as it is brought near the head of the saint, it begins to flow, however hardly congealcd it was before. A uial is made every ycar, on the first Sunday of May; it is believed, that the patron saint is particularly propitious if the blood moves briskly in the phials, and appears of a clear red, while the opposite is regarded as presaging some ill to the country. The religious phrenzy which prevailed at certain festivals of the ancicuts, has a counterpart in the clamor for the liquefaction of the blood of St. Januarius, in the chapel of this saint, if it is delayed long after the commencement of the celebration. The writer, who was present on one of these occasions, could hardly determine whether the prevailing tone was that of prayer or imprecation. The reproaches against the saint are not a few. Sometimes, two or three days elapse before the blood becomes liquid; it is in a bottle, which stands upon the altar, and is lifted, now and then, by a priest, to show to the people whether it has become liquid or not; if it has liquefied, all throng to the altar, and, kneeling down, kiss the offered bottle, and then the priest presses it against the head of the faithful. It is said, that when the Frencls occupied Naples for the first time, the blood would not become liquid. The French general, apprehensive of a commotion, sent to the archbishop, intimating, that if the saint's blood did not soon rmin, the archbishop's might. The saint had compassion on his servant, and the miracle took place in due scason.
Janvs; one of the primitive deities of the Romans, entirely unknown to the Greeks, and supposed to be of Pelasgic origin. The Pelasgi believed in two supreme deities, under which they represented nature and her productions. Sometimes they were described as two different beings, male and female, and sometines as united in a single person. This deity passed from the Pelasgi to the Latius or aborigines, and received from them the name of Janus. In lim they worshipped the god of gods (as he is called in the

Salian hymns), the ruler of the year, and of all human fortunes, the sovercign disposer of war and peace. He was represented with a sccpitre in the right hand, and a key in the left, seated on a glittering throne; he was also represented with two faces (an old and a yonthful one), of which one looked forward and the other behind. Some conceive this to be a symbol of wisdon which sees into the past and the future; others a symbol of the clianges of the ycar, the vicissitudes of the seasons, or of the several quarters of the world, as lee was sometimes painted with four faces, and of his donble office of opening and shutting the gate of heaven. Plutarch explained it by supposing that Janus had introduced agriculture from 'Thessaly into Latimm, and hence one head looked towards Latium, the other towards Grecee. Sonne believe that Jauus was blended in one person with the other supreme deity of the original inhabitants of Italy, viz. Satarn. In reference to this circumstance, they relate the following story: Janus, one of the aucient kings of the Latins, taught his people agriculture, and introduced useful laws and religious institutions. Saturn, driven from his country by his children, fled to Latium, where he was well received by Janus, and made joint ruler of the kingdom. Under their reign was the golden age of Latium. Oriel, in his Fasth (i. 90, sqq.), stiys of Janus, that he was the suprene janitor in heaven and on earth, that he opened the gates of heaven to let out the day, and closed them again with the return of evening. All sorts of passages were under his care. After him, a door was called janaa, and every open arched passarge, by which people go ont of one strect or place into another, a Janus. For the same reason, he was the god of the day and the year, and from him the first month in the year still has its name. The first day of the year and the first hour of the day were sacred to him; in all solemn sacrifices he was first addressed, and lad the title of foiker. Romnlus erected to him the celebrated temple, which was opened at the lseginning of every war, according to the ordinance of Numa, and remained open its long as the war lasted, and until peace was established in all the countries subject to Rome. The temple, however, was shut only three times in the long space of 700 ycars; once in the reign of Numa, again after the first Punic war, and the third time, under the reign of Augustus, A. U. C. 741 .

Jipas. At the eastern extronity of

Asia, hetween $31^{\circ}$ and $49^{\circ} \mathrm{N}$. lat., is situated the empire of Japan, consisting of a large cluster of islands, almost inaceessible by reason of monntains, precipitous rocks aind a dangerous sea. It consists of three large islands: 1. Niphon ( 700 miles long, but so narrow, that its breadth in the centre is ouly 48 miles), divided into 49 provinces, of which the principal cities are Neaco, the residence of the dairi, or spiritnal chief, where all the coins are struck, and all the books printed; Jeddo (with 1,(080,000 inlabitants), the residence of the secular emperor (cubo, whose palace is 5 leagues in circumferenee, and forms, of itself, a considerable eity), on the river Tonkay, over whieh is a bridge, from which the distances of all parts of the cmpire are calcnlated; and Osacco, a richs commereial city: 2. Ximo, or Kiusin (18i) miles long, and 66 broad), consisting of 9 provinces: and 3. Xicoco, or Nicof (84 iniles long, and 46 broad), containing 4 provinces. Aromnd these great islimits lie a vast number of small fertile islands and bare islaud-rocks, which have probiaby been separated from the main land liy an cartliquake. The superficial content: of the whole island, is estimated at 266,500 square miles, the population at 45 millions. The Japanese islands are mountainous, like the opposite coasts of the continent. The principal smmmit is called Fusi; it is covered with snow throughout the year. There are also many volcanoes. The great industry of the natives lias alone made the sterile soil productive ; even the stecp;est momntains are eultivated. Agrieulture is preseribed as the principal employment, by the laws of the state. Goats ind slice, are banished from Japan, the former being regarded as prejudicial to agrieulture. Cotton and silk supply the place of wool. Swine are to be found only in the vicinity of Nangasacki. In general, there are beit few quadrupeds in Japan, with the excepption of dogs, which are abundant. The whim of a sovereign, of whom these animals were favorites, has prescribed the lreeding of them by a law of the state; they are supported at the public expense. It is uncertain whether the ancients knew any thing of Japan. At the end of the 13th century, Marco Polo (q. v.) brought to Europe the first accounts of Japan, which he called Zipangu. In 1542, three Portuguese ships under Mendez Pinto, on a voyage to China, were driven on the Japanese coasts loy a storm, though without this accident this island empire would hardly have renained unknown to the enterprise of this commercial nation, whose
navigators had collected information respecting it in China. A colony was iminediately founded on the newly discovered coast, and the Jesuit Francis Xavicr proceeded to Japan, to propagate Christianity. The Portuguese were allowed free aceess and commerce throughout the empire, especially on the island Ximo. One of their principal colonies was on the island of Firando, now Desima, or at the port of Nangasacki. Christianity prevailed extensively, though opposed by the native priests. But the secular rulers, especially the small princes who possessed portions of the country under the supremacy of the emperor, supported the new doctrine and its preachers. About the year 1616, nearly half were Christians, with many of the petty princes. The Portuguese and Jesuits had been allowed uninterrupted access to all parts of the empire as merchants and spiritual teachers, for about 50 years, when several circumstances put an eud to their influence. In 1586, a revolution deprived the emperor of Japan of all temporal power, which was usurped by the cubo, the chief officer of the government, who degraded the emperor to the rank of a mere high priest. Jejas, the successor of the first usurper, made, in 1617, the sorereignty hereditary in his family. Moth the new rulers were enemies of the Portuguese and missionaries, as they saw presages of danger in the elose union of the new religious party, and in the influence of the Jesuits, who interfered in political affairs, and opposed the new order of things. The eonduet of the Portugucse colonists was in the highest degree imprudent and licentious. The ambassadors of P'ortugal nauifested an insupportable pride, which formed a strong contrast with the submission of the Dutcl, who liad obtained free intercourse with all the ports of the empire, by their assurance that they were of a different creed from the Jesuits. After many persecutions, the Portuguese, with their inissionaries, were finally banished forever from the empire, in the year 1637; Christians were exposed to bloody punishments, and the ports of the empire were elosed to all forcigners, exeept the Dutch. This persecution of the Catholie religion continued 40 years, in which time several millions of men were sacrificed. In 166ij, inquisitorial tribumals were erected in all the pities of the enpire, which were to renew their investigations, every year, at indefinite periods. The Dutch, who contributed not a little to this eatastrophe, now took the plaee of the Portuguese. They and the Chinese were from this time the only na-
tions whose ships were allowed access to Japan ; but both had to submit to the severest conditions, and were very much limited in their exports, and the former were so restricted after 1634, when they had given cause for suspicion, that they were only permitted to land on the island Desima, connected by a hridge with the eity Nangasacki. On this island, where their storehouses were situated, lived about fifteen Dutclimen, who carried on the trade, under the closest inspection, never being permitted to enter the city without attendants, overseers and interpreters. Notwithstanding these restrietions, and the extortions to which the Dutch had to submit, in the shape of deductions from the prices agreed upon, and arbitrary changes in the value of coins, thicir trade with Japan scems to have been very profitable, since they have continued, to the latest times, to send thither yearly two vessels from Batavia, large three deckers, mostly helonging to Zeeland. In the middle of the 18 th century, the profits of the Japanese trade were estiinated at $4-500,000$ gnilders annually, exclusive of those arising from the sale of gools in India and Europe, and the profits of private individuals, which amounted to at least 250,000 guilders, of which half went to the council of Batavia. In the 17th century, the English founded a colony at Firando, and obtained important commercial privileges; but this commerce was soon lost, probably because the Japanese leumed from the crafty Dutcl, that the wife of the king of England was a Portuguese princess. All proposals for opening a trade with Japan have of late been rejected in England, berause the return cargoes must ponsist principally of copper and eamphor, and the trade in Japanese copper wonld prevent the exportation of the English to India. The Russians, also, to whom the Japanese government signified, as carly as 1792 , its aversion to a comexion with them, have lately tried, but without success, to forn connmercial connexious with Japan. The Japanese are a mixture of the Malay and Mongolimn races, like the Chincse, from whon they lave probably derived their eivilization. The Japanese art, calculation of time, medieine and astrology are purely Chinese. The present inhabitants originated cither from China or Corca, or from both; but, separated by tempestuous billows from the rest of the world, left to themselves, and free from the subsequent invasions of neighboring nations, they became an indeperident people. Their language is a dialect of the Mongolian ; the

Chinese is the learned languame. The Japanese language las $4 \overline{7}$ radical syllables, with a small number of regular changes. The Japanese are the most civilized and refined nation of Asia, a noble, proud people, intclligent, docile, and desirous of instruction. Art and seience they value, even in nations whom they otherwise despise for their mworthy conduet, and the shameful treatment to which they are willing to submit for the sake of gain. Since the arrival of the Europeans, by whom they were taught, they have made considerable progress in several sciences. History, astronomy and medicine (in which cautery or burning with moxa, and acupuncture are practised), are pursued with zeal. Their progress, however, in medicine and gengraphy, is comparatively small. Poctry, music and painting are held in estimation; and, in the latter, the Japanese are superior to the Clinese. Like the Chinese, they claim the invention of gunpowder and of printing. Children are sent to school at an early period, and educated with groat strietness. The exportation of books is prohibited, at least, of such as contain any account of the government and country, as well as of maps and coins. The importation of religious books is as strietly forbidden. On the arrival of Dutch vessels, they are obliged to deliver their religious books in a box to the Japanese commander of Nanmasacki, and receive them again on their departure. The Japanese are active, cleanly and laborious, kind, eheerful and contented, but sensual and revengeful. Their superstition is encouraged by a priestly government, opposed to all intelligence, and a numerous clergy. The govermment is despotic and severe, and the laws very striet. The will of the emperor is the supreme law; after it, the will of the petty princes dependent on him, who rule their provinees as strietly as he does the whole empire, and, notwithstanding their dependence, possess the right of waging war against each other. The greatest part of the inhabitants are oppressed by poverty, since the peasant is whiged to survender half, and in many places even two thirds of lis earnings to the landlord, who regards himself as the sole proprietor of the soil. In order to prevent consjiracies, earlo one is made, by the law of the land, the spy and surety of the others; so that every one is accountable to the state for those wilh whom he is in any way comected, and, in case of any offence, mist suffer with them. Thus the father is accoth:able for his ehildren,
the master for his servants, the neighbor for his neighbor, every society for its members. A crime is never punished by fine, but always by imprisomment and banishment, or loss of limb or life ; and every punislment is inflicted with incxorable rigor on high and low. All military and civil oflicers, for example, are bound to slit their belly, when ordered to do so, in consequence of any crime. Suelh a death involves no disgrace, and hence the contempt of death among all classes of Japanese, who, in general, prefer death to ignominy. The original rulers of Japan were ealled mikaddo, from their progenitor. The high priest of Japan is still called dairi, which was the title of the Japanese cmperors as long as they possessed spiritual and temporal powers united. Since the revolution, which deprived them of the secular power, in 1185, when YoriTomo was appointed supreme ruler of the nation, the high priest has lived at Meaco. Under the prescnt reigning dynasty of the Djogouns, lhis authority hais deelined still more. He is in the custody of a governor, answerable to the secular emperor. In order to make liimself more sure of the descendant of the ancient rulers of Japan, the erafty poliey of the secular emperor has transmuted the dairi into a holy personage, who is visible to no human eye, at least to no man who is not in attendance on him. Whenever the dairi, as is very rarely the ease, wishes to enjoy the fresh air in his garden, or in the inner cirele of his extensive and well fortified palace, a signal is given for all to withdraw, before the bearers raise the holy prisoner on their shoulders. In this palaee, where he was horn, he lives and dies, without ever going out of its precincts; and not till long after lis death is his name diselosed beyond them. He enjoys a rieh income, ronsisting of merehandise and natural products, whieh the secular emperor increases by considerable additions, and by the proceeds of the sale of titles of honor, winich belong to the dairi, as a prerogative. Orders are also issued in the name of the dairi. The secular emperor lears the title of cubo, and resides at Jedido. Under him, the real, absolute sovercign of the cinpire, are the princes, who are responsible to him. He concedes, however, the first rank to the dairi, aceepts from him titles of homor, and rewarls the distimetion thus bestowed on him by considerable presents. Formerly, the culbo made an annual journcy to heaco, in token of rospect to the dairi; loy degrees, these visits became less firequent, and now, as a suls-
stitute, presents are sent lim by ambassadors. The cubo administers the government, with the assistance of a comucil of state, of six aged men. He derives his revemucs, which consist merely of natural productions, from five impcrial provinces, as they are called, and some cities, which are under his immediate jurisdiction; in addition to which, he receives presents fiom the territorial princes, who govern the provinces. Each of these princes possesses a hereditary sovereignty in his own province; he receives the revenue without giving an account to the emperor, and defriays the expenses of lis eourt and his army, repairs the highways, and, in short, provides for all public expenditnres; but, in token of his dependence, he is obliged to spend six months every year at the court at Jeddo, where lis wives and children live in a kind of eaptivity, as hostages and pledges of his fidclity. The religion of the Japanese is of Hindoo origin: this is true of the older sect of the Sintos, as well as of the more modern one of Budso or Fo , which came from China. Besides these sects, there are others, more or less resembling them. The people worship a great number of inferior divinities, whose statnes are placed in the temples of the great deities. The mumerous clergy, and the monks and nums, who live in a multithde of monasterics, are under the dairi. The Ilindoo religion has nowhere been more disfigured ly superstition and subsequent additions than in Japan. The Siuto or Confucins scet, a philosoplical sect, resembles the sect of the learned in China, und despises the folly of the popular belief. The army of the Japanese consists, in time of peace, of 100,000 men, besides 20,000 lorsemen, clad in armor; the infantry are protected only by helmets; their aums, bows, muskets, sabres and daggens, are excellent; they have very leavy camnon, but are cven less skilful in the use of them than the Chinesc. The single princes maintain, besides, 368,000 infantry and 33,000 caralry: The navy is insignificaut. The dairi formerly had large flects, and large vessels of cedar; but now the Japanese vessels are small, at most 90 feet long, like the Chinese. In war, the Japanese display much courage, which is inflaned by mautial songs aud storics. The Japanese are well situated for commerec. Formerly their ships covered the neighboring seas; and before the anival of the Luropeans, they carried on a considerable trade, and an extensive navigation; they had, for example, visited the north-west coast of America, beyond Beer-
ing's straits, farther than the European navigators; they visited Chima and the East Indies as far as Bengal. After it liad begun to be feared that foreigners would. overthrow the state, and pervert the morals of the natives, all forcign commerce and navigation were prohilited. Their silk and eotton cloths, their porcelain wares, and their lackered tin-ware, with raised flowers or figures (japanned ware), are well known, and in much demand as articles of commerce; their stecl-work is excellent, especially their swords and other arms, the exportation of which is strictly forbidden. Respecting the listory of J apan, see Thunberg's Travds (fiom the Swedish, London, 1795), and Kämpfer's History of Japan (translated from the manuscripts into English, London, 1728). Compare, also, Golownin's Jarrative of his Imprisonment in Japan, 1811-13 (London, 1817), Abel Rémusat's Mémoires sur la Dynastie regnante des Djogouns, Sourerains du Japon (Paris, 1820), whicls Titsingh, who was 14 years Dutch resident at Nangasacki, compiled from Japancse originals. The Elemens de la Grammaire Japonaise (from the Portuguese mannscript of father Rodriguez, Nangasacki, 1604), traduits du Portug. par Landresse, expliqués par Ab. Rémusat (Paris, 1825), is preferable to the Japanese gramnuars of Alvarez and Collado.*
Japanese Cycle and Æra. (See Epoch, vol. iv, page 555.)

Japanning is the art of vamishing in colors. All substances that are dry and rigid, or not ton flexible, as woods, metals, leather, and paper prepared, admit of be-

* The following notice appeared in the newspapers in 1829: "Doctor Sichold, the resident of the king of the Netherlands in Japan, has transmitted a work to the Asiatic Society of Paris, on the origin of the Japanese, \&c., containing, in an abridged form, the result of his rescarches during the last four ycars. The doctor wishes it to be: published at the expensc of the socicty, with notes and a critical preface. He writes, also, that he has collected the largest library of books which lic believes was cver formed in Japan ; it consists of more than 1500 volumes. His zoological muscum contains more than 3000 specimcns, and his botanical collection about 2000 specics, ill upwards of 6000 specimens. Assisted by his colleague, doctor Burger, he has also formed a complete mineralogical collection. He has visited the most remarkable cities, determined their latitude and longitude, and measured the height of several mountains. Ifc has also established a botanical garden at Dezima, at the expense of the goverament of the Vetherlands, in which there are now more than 1200 plants cultivated. The doctor has also presented to the king of lrance a collcetion of plants in domestic use in Japan, which he considers to be well adapted for the ctimate of the south of France."
ing japanned. Wood and metals require no other preparation than to have their surfaces perfectly even and clean ; but leather should be securely stretched, either on frames or on boards, as its bending would crack and force off the varnish. Paper should be treated in the same manner, and lave a previous strong coat of size ; but it is rarely japanned, till converted into papier maché, or wrought into such form that its flexibility is lost. The artiele to be japanned is first brushed over with two or thrce coats of seed lac ramish, to form the priming. It is then covered with varnish, previously mixed with a pignent of the tint desired. This is called the ground color; and, if the sulject is to exhibit a design, the objects are painted upon it in colors mixed with varnish, and nsed in the same mamner as for oil painting. The whole is then covered with additional coats of transparent varnish, and all that remains to be done is to dry and polish it. Japanning requires to be executed in warm apartments, and the articles are warmed before the rarnish is applied to then. One coat of varnish also must be dry before another is laid on. Ovens are employed to lasten the drying of the work. The same pigments which are employed in oil or water answer also in varuisis. For painting figures, shell lac varnish is considered best, and easiest to work; it is therefore employed, in most cases, where its color permits. For the lightest colors, mastich varnish is employed, muless the finencss of the work admits the use of eopal dissolved in aleohol.
Japheth, a Hebrew word, signifying beautifully producing, is the name of the third son of Noah. His descendants, according to Genesis, $x, 5$, peopled the isles of the Gentiles. This is supposed to mean Southern Europe, and thus Japheth is considered the ancestor of the European race, and is believed to have been the same who is ealled by the Greeks Japetos. According to Herbelot's Bibliot. Orient, the Arabians give to Japheth 11 sons, who became founders of as many Asiatic tribes.
Jared ; a son of Melaalaleel's, the father of Enoch. He reached the age of 962 years, according to Genesis, $\mathrm{v}, 20$.
Jarl, in the early history of the northern European kingdoms; the heutenants or governors, appointed by the kings over each province. At a later period, only one jarl was appointed in each kingdom, and the title of duke given him, as was the case in Sweden, for instance, in 116.3. In Norway, after 1308, during the reign of Hacon VII, this dignity was conferred only
on the earls of Orkney and the princes of the bloorl. (See the inticles Earl, and Alderman.)
Jasmine; a beautiful genus of plants lelonging to the diandria monogynia of Limeens. The corolla is fimmel-shaped, and the fruit a two-seeded berry. Thirty species are known, which are shrubs, offen with long, twining brancles, bearing simple or compound leaves, and heautiful and delightfully fragrant flowers. Two species are natives of the south of Europe.

Jason ; son of Eson, king of Iolchos, in Thessaly, and of Polymeda (according to some writers, of Polymete, Alcimede, Polypheme, \&c.); a liero of ancient Greece, celebrated for his share in the Argonautic expedition, before which lie had distinguished himself in the Caledonian hunt. His instructer was the Centaur Cliron, who educated most of the heroes of that time. His father abdicated the government of Iolchos before Jason was of full age; on which account his uncle Pelias administered the government as lis gnardian. The causes of Jason's expedition to Colehis are commonly related thus: Pelias, Jason's mele, sent an invitation to all his relations, and, among the rest, to Jason, to attend a solenm sucrifice to Neptune. When Jason, on his way to Iolclos, came to the river Evenus (Enipeus, Anaurus), he found Juno there, in the form of an old woman, who requested him to carry her over. He complied with her request, but lost one of his shoes in the mud. Pelias, who had been warned by an oracle, that he should be deprivel of lis kingdom and life by the man who should come to the sacrifice without shoes, was alarned at the sight of Jason in this condition, and asked him what he wonlal do to the man designated ly the oracle as his murderer. Jason, at the suggestion of Jmno, replied, that he should send lim to Colchis, after the golden fleece; and he was accordingly sent. Another aecount relates that Pelias had deprived lis brother of lis throne, and that Jason, when 20 years old, having asked the oracle low he could get possession of his lawful inheritance, was directed to go to the court of Pelias, at Iolchos, in the dress of a Magnesian, with a leppard's skin on his shoulders, and armed with two lances. On the way, Jason lost his sloe in the inamer above related. All were surprised at his appearauce, and Pelias, who did not recognise him, demanded who he was. Jason answered boldly that he was the son of Eson, caused limself to be shown the dwelling of his father, and spent five days
there with his relations, Pheres, Neleus, Admetus, Amythron, Acastus and Melampus, in celebrating his return. They then went together to Pelias, and demanded of hiim lis abdication. Pelias dared not refuse, but answered that he would resign, after Jason had performed a glorious aehievement by bringing baek the golden fleece to Thessaly, as the oracle and the shade of Plryxus had commanded, since his age would not permit him to go hinself. On the voyage (see Argonauts), Jason had two chidfren by Hypsipyle of Lemnos-Euncus and Nebrophonus (Deipylus). By the assistance of Medea (q. v.), he successfully accomplished the object of his voyage, and returned, carrying houle Medea as his wife, aticr loig wanderings. Here he avenged the murder of his parents and his brother, by putting P'clias to death. But he was unable to retain possession of the throne, and was obliged to resign it to Acastus, son of Pelias, aud flee, with his wife, to Corinth. Here they passed 10 happy years, till Jason, wearied of Medea, fell in love with Clauee, (Creusa according to some accounts), daughter of Creon, king of Corinth, married her, and put away Medea and her children. Medea, having revenged lerself on her hated rival, fled from the wath of Jason, in her car drawn by dragons, to Ngeus, king of Athens, after she bad jut to death Mermerus and Pheretus, her sons by Jason. According to some, Jason silled himself in despair ; but others relate that, after passing a miserable, waudering life, he cane to his death ly the following accident: As he was sleeping one day, overeome by wearincs, on the sea-shore, in the shade of the vessel which had borne lime to Colchis, a beam fell upon him and crushed him. Others say that he was afterwards reconeiled to Medea, and rctumed with her to Colehis, where, after the death of his father-in-law, hic ruled many years in peace.

Jasper. (Sce Quartz.)
JASSy (Jash), capital of Moldavia, about 18 miles distant firm the Pruth, 200 miles east of Oczakow, 370 north of Con tantinople, has a eitadel, and is the residence of the lospodar and seat of the Greek metropolitan of Moldavia, with 25,000 inlabitants. The Roman Catholies are allowed the free exercise of their religion, and there are some Jews herc. The city is an open place, and was almost destroyed by the janizaries Aug. 10, 1822: it now contuins hardy 2000 houses. Thie streets are pared with logs. The excellent canvass made here, and the wine of Catana-
pon, in the neighborhood, are exported from Jassy to Constantimople. This city was taken by the Russians, in 1739 and 1769, but each time restored to the Turks on the conelusion of peace. In 1788, it fell into the power of the Austrians; and, Jan. 9, 1792, the peace between Russia and Turkey was signed here. (See Russia.) In 1821 , the unfortumate Alexander Ypsilanti here raised the standard of the Greek Hetaria against the Turks. (S.e Hetaria, and Greece, Revolution of.)
Jaucourt, Louis, chevalier de, one of the contributors to the French Encyclopedie, horn 1704, at Paris, received the rudiments of his education in Genera, passed thrce years at Cambridge, and studied medicine in Holland, under Boerhaave and Tronehin, but determined to practise it only for the benefit of the poor. On his return home, he devoted himself entirely to letters, and, at the instance of D'Alembert, he prepared the articles relating to medicine and natural philosophy for the Encyclopédie. He also contributed other artieles, which arc among the best in the work. Feeling his strength deeline, he retired to Compiègne, where he died, 1779. Besides his treatises in the Encyelopédie, he published various works, some original and some translated, on medical suhjeets. The mamuscript of a universal medical dietionary, which be had prepared, in six volumes, foiio, was lost on its way to the publisher in Aınsterdam, in a vessel that was shipwrecked on the coast of North Holland.

Jaundice is a disease of whieh the distinguishing peeuliarity is, that the whole skin becomes yellow. It proeeeds from some disease about the liver, or its conimunication with the bowels. The internal symptoms are those of all disorders of the digestive organs, except that the water is dark and loaded with bile, while the bowels appear to be deprived of it. The yellow color is first perceptible in the whiter parts of the body, as the white of the eye, \&c.., and soon overspreads the whole body. There is often an extreme itching and priekling over the whole skin. Afier the disease has continued long, the color of the skin becomes gradually deeper and darker, till the disease becomes, at last, what is vilgarly called the black jaundice. This appearulce arises from the bile being retained, from various causes, in the liver and gall-bladder, and thus being absorbed and circulated with the blood. It may be produced by obstacles to the passage of the hile of various kinds, and is often suddenly induced by a violent fit of passion,
or more slowly by long continuance of melancholy and painful emotions. It is a very common figure of speceh to say, that "a person views a thing or a person with jaundiced cyes;" but this is founded in a mistake ; for it is not true, that jaundice communieates such a color to the transparent part of the eye, as to affect the color of objects. The above phrase is therefore inappropriate.
Java; a large island in the Eastern scas, situated between $6^{\circ}$ and $9^{\circ}$ of S. lat., and between $105^{\circ}$ and $115^{\circ}$ of E. lon. from Greenwich. It extcuds from east to west, and is 642 miles in length, its greatest breadth 128 miles, and its average breadth 95. To the south and west, its shores are washed by the Southern Indian ocean; to the north-west lies the island of Sumatra, from which Java is separated by a strait, 20 miles wide in the narrowest part, known by the name of the Straits of Sunda; to the north is Borneo ; to the north-cast, Celebes; and, on the cast, the islauds of Bali and Madura, from the former of which it is separated by a narrow passage, called the Straits of Bali. The island is divided nearly in its whole length by a range of mountains, running alinost east and west, and rising to their greatest elevation towards the centre; but the range is muel broken. In several hills of the great range of mountains are the eraters of voleanoes, which formerly raged with fury, and poured forth torrents of lava; hut, at present, none are known to be in activity, though many emit smoke after heary rain. The most considerable rivers are the Joana, and the Sedani, or Tangerang. On the bank or bar before Batavia, thic flood rises about six feet, and higher at spring tides. High and low water likewise oceur only once in 24 hours. The island is traversed from east to west by a great military road, 700 miles in extent, constructed by general Daendels, a gorernor of the island, before it was taken by the English. The year, as is usual in tropical elimates, is divided into the dry and the rainy seasons; or into the east, which is called the good monsoon, and the west, or the bad monsoon. Thunder storms are very frequent, especially towards the conclusion of the monsoons, when they occur almost every evening. The heat of the climate is various. Along the sea-coast, it is hot and sultry. At Batavia, from July to November, the thermoneter generally stands, in the hottest part of the day, between $84^{\circ}$ and $90^{\circ}$, which it rarely excceds; and, in the greatest degree of
coolness in the morning, it is seldom lower than $76^{\circ}$. In some parts, particularly among the hills, and in many of the inland towns, it is often so cold as to make a fire desirable. Java possesses a soil of extraordinary luxurianee and fertility. In the forests, especially in those on the northeast coast, is found an abundance of lofy trees, fit to be converted into masts, while forests of teak supply the place of oak for building ships, adapted to all purposes. Pahns and coeoa-trees are fomid in great variety, and are distinguished by their luxuriant growth, sometimes reaching to the astonisling height of 150 fect. Fruits of all kinds are also abundant, many of them of exquisite delieacy and flavor. In the high ground in the interinor, they are found to dwiudle and decenerate, in that equinoctial elimate. The various kinds of plants and great abundance of herbs found in Java, would afford ample scope for the researches of the botanist, as flowers exhale their perfumes at all seasons of the year. Garden-plants are produced in great variety, such as endives, cauliflowers, beans, cabbages, pompions, melons, pataeas or water-melons, yams, potatoes, \&c. Maize, or Indian corn, is a favorite article of food with the natives, who eat it roasted. The natural fertility of the soil of Java supersedes the neeessity of laborious tillage. The staple produce of the island is rice. Sugar, to the amount of $10,000,000$ of pounds annually, is also made. Pepper is produced in great abundance and perfection ; also indigo of a very superior quality. Cotton is cultivated in alnost every part of the island; and the coffec plantations are extremely luxuriant. The soil is also very favorable to the growth of tobacco. There are many other herls and plants, both medieinal and balsamie, that are but imperfectly known to Europeans. Wheat and barley are only grown in small quantities, on the hilly traets, chiefly in the middle parts of the island. Oats and Bengal grain thrive likewise in those parts of the island, and would be produced in great abundance, were duc attention given to their culture. The domestic animals in Java are buffaloes, and cattle of every description, and sheep, goats and pigs. Gane, however, does not abound here so much as in other countries, though hares and rablits are pretty common; and deer and antclopes are also plentiful. The horses, which are very numerous throughout the island, are small, but active. Wild hogs and monkeys are found in all the jungles. The forests abound with tigers, as powerful and as large as in Bengal. A
species of black tiger, which is often found, is very ferocious. The rhinoceros is sometines met with. Snakes are found hicre, as in all other hot countries, in great numbers, and of various kinds. Some of these are from 25 to 30 feet in length. Lizards of all kinds, from the variable chameteon to the guana tribe, frequent the binshes, trees, and roofs of the houses. Scorpions and mosquetoes abound in the marshes. There are, besides, various other sorts of dangerous and disgusting vermin. Of the numerous fcathered tribes found in Java, we may remark the cassowary, a very large and powerful bird White eagles lave been seen licre; and every kind of bird of prey is continualiy on the wing. The aquatic tribe is equally diversified, and the extensive fisheries along this great line of coast are highly productive. At the mouths of the rivers, mumbers of alligators, or caymans, are continually lurking for their prey. In the several bays, numerous sharks swim about the ships; and many animals, undescribed in natural listory, abound in these seas. There are manufactures of cotton, leather and saddlery ; also of iron, brass and tin. The principal articles of exportation are rice, sugar, coffee, pepper, indigo, teak timber and planks, spices (which are hrought from the Moluccas), tin (from Banca), cotton, yarn, salt, edible birds' nests. The imports are European articles, of every description-chintzes and muslins, silks, hats (which are a favorite dress with the Chinese and native chieftains), boots and sloes, cabinet ware, fire-arms, gunpowder, shot, laberdashery, hosiery, mathematical and musical instruments, \&c. The population of Java is composed almost entirely of natives, of a variety distinct from the Malays and other inhabitants of the neighboring islands. In 1815, it anounted to $5,000,000$, of whom one fortieth part were Chinese, Europeans, Arals, Malays and Hindoos. The Javanese are small, with a yellow complexion, flattened nose, high cheek bones, and thin bearr. Their language is cntirely different from the Malay; their religion Mohammedanism. Nnmerous monuments of antiquity, buildings, statues, \&ce., prove that thicy were once in a more flourishing condition than at present. Three quarters of Java are in the power of the Dutch, whose immediate authority extends over three fiftlis of the inliabitants. The other quarter is divided between two native sovercigns in the south-east part of the island. Java was discovered by the Portuguese in 1510. They made some setile-
ments there, which were taken possessiou of by the Dutch, towards the end of the sixteenth ccntury. The latter, having conquered the native princes, made the island the centre of their Indian possessions in I619. In 1811, the English made themselves masters of it, but restored it at the peace of Paris, in 1814. The exactions and oppressions have since occasioncd several insurrections of the natives.See RafHes's History of Java (sccond edition, London, 1830); Crawfurd's [British resident at Java] Indian Archipelago ; Marclıal's Descript. Géog., Hist. el Commerciale de Java (Brussels, 1826.) Blume, a Dutch naturalist, who resided nine years in the island, has published a view of the regetable kingdom of Java.

Jay (garrulus). These birds are distinguished from the crows by having their lill rather short and straight; upper mandible soınewhat inflected at tip; lower, navicular; head feathers, crectile; wings, not reaching to the tip of the tail; colors, brilliant. The European jay (G. glandarius) aurd the blue jay of the $\mathbf{U}$. States ( $G$. cristatus) are the most prominent and best known of this genus, and possess numel the same characteristics, both in their wild and their domesticated state. They are lively, petulant, and rapid in their movements ; exccedingly noisy, having it faculty of imitating harsh sounds. When an owl or other bird of prey appears in the woods, they utter piercing crics, and asscmble in great numbers to attack the common cucny. The sanie thing takes place when they see a sportsman, whose purpose thicy often frustrate by their vociferous noise. They indulge no familiarity with man, and diseover all that shyness and timidity so natural to thieves. In at domestic state, they are restless, and much addicted to transports of anger. When confined in a cage, therefore, they soon lose their beauty, by the perpetual rubbing and breaking of their feathers. Like their kindred, the magpie and jackdaw (ๆ. v.), they can be taught a varicty of words and sounds, particularly those of a liarsh and grating cliaracter, as that of a saw, \&c.

Jay, Antoine, a French anthor, born Oct. 20, 1770, at Guitres, in the department of Gironde, studied at Niort, where Fouché was his instructer ; after which he applied himself to law at Toulouse. After having devoted himself to the cause of freedom in the revolution, and been imprisoned and released, he travelled in the U. States, where he remained seven years. After his return in 1802, Fouché engaged
him in the education of his cliiddren. His prize essays rendered him known, ind, in 1812, he became principal editor of the Journal de Paris, and puiblished the Glaneur, or Essais dé Nicolas Ficeman. In 1813, the professonship, of listory at the Athenxum was conferred on hinn, and his inaugural discourse exposed the errors of the romantic school (genre romantique), and of the fishionable prejudice in fivor of the middle ages, which France has received from Gernany. During the hun(Ired days (1815), lie was a member of the chamber of deputies, and cmployed his influence with leading men in favor of many royalists and proseribed persons; He always voted in the chamber on the liberal side, and therefore demanded a revision of the .ldditional .Act, so called, and of the scnatusconsults, which were more favorable to despotism than to the constitutional system. After the battle of Waterloo, lie proposed, in the chamber, to prince Lucien, to persuade Napoleon to abdicate. The address of the French goverument to the Frencl army before the gates of Paris, was drawn up by him, and carried by him, with Arnault, Garat, \&x. on the 29th of June, to Davoust's liead-quarters at La Villette. After the second restoration, Jay published his Histoire du Ministère du Cardinal Richelieu ( 1815,2 vols.), and was afterwards, with Etieme, the editor of the Constitutionnel :and of the .Minerve. In 1822 , he was summoned with Jouy (see Jouy) to answer for some imprudent expressions in the Biographie des Contemporains, of which they were associate editors; he was acquitted at the first trial, but Jouy was sentenced to be imprisoned and fined. Both appcaled, and the court of appeals condemmed both to imprisomment, Jan. 29, 1823. He and Jouy spent the period of their inprisonment at St. Pélagie, where they wrote the popular svork Les Hermites en Prison, ou Consolations de St. Pélagie, par E. Jouy et A. Jay ( 6 th ed., l'aris, 1826,2 vols.). After their deliverance, they published also, in conjunction, Les Hernites en Liberté (1821):

Jay, John, an eminent American jurist and statesman, was born in the city of New York, Dec. 1, 1745, old style. After receiving the elements of education at a boarding-school, and under private tuition, he was placed, when fourteen years of age, at King's (now Columbia) college, in lis native place. Here he devoted hinself principally to those branches which he deemed most important in reference to the profession of the law, upon the study of which he entered after receiving his
bachelor's degree. In 1768, he was admitted to the har, and in 1774 was chosen a delegate to the first Anerican congress, which met at Philadelphia, and was placed on a committee with Mr. Lee and Mr. Livingston, to draf an address to the people of Great Britain. It was preprared ly Mr. Jay, and is one of the most cloquent productions of the time. In the two following years, he was reëlected, and scrved on various important committees. In 1776, he was chosen president of congress. In 1777, he was a member of the convention which framed the constitution of New York; and the first draft of that instrument procecded from his pen. The following year, when the groverument of New York was organized, he was appointed chief-justice of that state. 111 1779, we find him again a member of congress, and in the chair of that body. From this, however, he was removed in the same year by his appointment as minister plenipotentiary to Spain. The objects of Mr. Jay's mission were to obtain from Spain an acknowledgnent of our indejeudence, to form a treaty of alliance, and to procure pecuniary aid. With regard to the first two points, no satisfactory conclusion was obtained, and in the summer of $1782, \mathrm{M}$. Jay was appointerl one of the commissioners to negotiate a peace with England, at the same time that he was anthorized to continue the negotiation with Spain. In conjunction with Mr. Adams and doctor Franklin, he resolved to disobey the instruetions of congress to follow in all things the adviee of the French minister, count de Vergemes, who was embarrassing the negotiation with England, in order to benefit France at the expense of the $\mathbb{C}$. States, and accordingly they signed a treaty with the British ministur, without his knowledge. The definitive treaty having been signed in September, 1783, he soon afterwards resigned his commission as ninister to Spain, and, in May, 1784, embarked for the U. States. He was then placed at the head of the department for foreign affairs, in which office he continued until the adoption of the present constitution, when he was appointed chief-justice of the $U$. States. In 1787, he received a serious wound in the forchead from a stone, when acting as one of a volunteer corps to preserve the peace of the city at the time of the doctors' mol. He was, in consequence, coufined to his loed for some time, a circumstance which obliged him to discontime writing for the Federalist, to which he had already contributed the 2d, 3d, 4th and 5th nunibers. The only other number in the vol-
ume from his pen is the 64th, on the treatymaking power. In 1784, he was sent as envoy extraordinary to Great Britain, and concluded the treaty which has been called after his name. Before his return in 1795, he had been elected governor of his native state-a post which he occupied until 1801. In that year, he declined a reëlection, as well as a reäppointment to the office of clief-justice of the U. States, and retired to private life. The remainder of his days was passed in devotion to study, particularly theologieal, and to practical benevolence. He died May 17, 1829, universally honored and beloved. He was a man of inflcxible firmness of mind in the performance of dinty, of great discernment, extensive information, and fine talents as a writer. Although rather cautious with strangers, with friends he was affable and frank; economical in his expenses, he was at the same time generous towards every object worthy of lis bounty. The letters between him and general Washington, various extracts of which are contained in the fifth volume of Marshall's history, exhibit the elevated place he held in the confidence and esteem of that illustrious man.

Jeddo, Jedo, or Yeddo ; a city of Japan, capital of the empire, at the head of a large bay, at the mouth of a river, in the S.E. of Niphon; 160 E. by N. of Meaco. Lon. $140^{\circ} \mathrm{E}$. ; lat. $36^{\circ} 30^{\circ} \mathrm{N}$. The population has heretofore leen cstimated at $1,000,000$. In 1812-13, the Japanese told to Golownin, that the population exceeded $10,000,000$; that in the principal streets were 280,000 houses, each containing from 30 to 40 persons; and that in the city there were 36,000 blind men. Meaco was formerly the capital, and is still the residence of the spiritual emperor ; but the civil and military emperor las his residence at Jeddo. This city is 7 miles long, 5 broad, and 20 in circuit. It has no walls, except those which surround the palace. It is said not to be surpassed in magnificence by any city in Asia, since, besides the usual accompaniments of a capital, all the princes and grcat men are obliged to make it their residence for half of the year. It contains, therefore, many splendid palaces, which stand by themselves, surrounded by large court-yards and stately gates, and, though built only of wood, and one story high, are distinguished by varnished staircases and large and finely ornamented apartments. The palace of the emperor may be properly called a great fortified city. It is situated in the heart of the general city, said to be 5 leagues in cireuit, surrounded with walls and ditelies, and vol. vir.

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containing several fortified buildings, which have the appearance of castles. The outer part is composed of streets, containing many palaces, in which reside the princes of the blood, ministers, and other public functionaries. In the centre is the emperor's palace, the body of it being of only one ligh story, but adorned with a square tower raised many stories high. Unlike all other Japanese structures, it is well built of freestone, and is surrounded by a wall of the same material. The city is intersected by branches of the river, and by canals. It is the seat of an extensivc commerec, and has many flourishing manufactures. It is greatly exposed to the ravages of fire. In $1658,100,000$ houses were reduced to ashes in 48 hours.

Jefferson, Thomas, the third president of the U. States of America, was borms April 2, old style, 1743, at Shadwell, in Albemarle county, Virginia, and was the eldest of eight cliildren. Ilis father, though his education had been entirely neglected in early life, being a man of strong mind, acquired, by subsequent study, considerable infornation. He died when the subject of our sketch was abont twelve years old, having previously given him every means of knowledge that could be procured, and left him a considerable estateAfter going through a course of school instruction, young Jefferson entered the college of William and Mary, wherc ho remained for two years. He then commenced the study of law under the guidance of the celelirated George Wythe, by whom, in 1767 , he was introduced to its practice, at the bar of the general court of the colony, at which he continued until the revolution. In 1769, lie was clected a member of the provincial legislature from the comnty where lie resided, and made a fruitless effort, in that body, for the emancipation of the slaves. By this tine, a spirit of opposition had been excited in the colonies to the arlitrary measures of the British government; and when the governor of Virginia dissolved the general assembly, in 1769, in consequence of the sympathy which was displayed by the inajority of its members with the feelings which had been manifested in Massachusetts, they met, the next day, in the public room of the Raleigh tavern, formed themselves into a convention, drew up articles of association against the use of any merchandise imported from Great Britain, and signed and recommended them to the people. They then repaired to their rospective counties, and were all reëlected, except those few who had declined assent-
ing to their proceedings. In 1773, Mr. Jefferson assoeiated himself with several of the boldest and most active of his companions in the house (" not thinking," as he says himself, "the old and leading nembers up to the point of forwardness and zeal which the times required"), and with them formed the system of committees of eorrespondenee, in a private room of the same Raleigh tavern. This system was adopted as the best instrument for communication between the different colonies, by whieh they might be brought to a mutual understanding, and a unity of action produced. This end was eompletely accomplished, as well as another object -that of exeiting throughout the colonies a desire for a general congress. It was accordingly resolved that one should be held, and in Virginia a convention was assembled for the purpose of choosing delegates. Of this convention Mr. Jefferson was eleeted a inember ; but, being suddenly taken ill on the road, as he was repairing to Williamsburg, its place of meeting, he sent on to its ehairman, Peyton Randolph, a draught of instructions which he had prepared as proper to be given to the delegates who should be sent to congress. It was laid on the table for perusal; but, though approved by many, the sentiments eontained in it were too bold to be adopted ly the majority: "tamer sentiments," in his own words, "were preferred, and, I believe, wisely preferred; the leap I proposed being too long, as yct, for the mass of our eitizens." The position that he maintained was, that the relation between Great Britain and the colonies was exaetly the same as that between England and Scotland, after the accession of Janes, and until the union, and the same as her relations with Hanover, having the sane exeeutive chief, but no other neeessary politieal connexion. In this doctrine, howe ver, the only person who entirely coneurred with him was George Wythe, the other patriots" stopping at the half-way house of John Dickinson, who admitted that England had a right to regulate our commerce, and to lay duties on it for the purposes of regulation, but not of raising revenue." Though the paper was not adopted, the convention, nevertheless, eaused it to be printed in a pamphlet form, under the title of a Summary View of the Rights of British Ameriea. Having found its way to England, it was taken up by the opposition, and, with a few interpolations of Mr. Burke, passed through several editions. It procured for its author considerable reputation, and likewise the dangerous honor of
having lis name placed on a list of proseriptions, in a bill of attainder, whieh was commeneed in one of the louses of parliantent, but was speedily suppressed. June 21, 1775, Mr. Jefferson took his seat for the first time in eongress, having beeu ehosen to fill the plaee of Peyton Randolph, who had resigned. In this new capaeity, he persevered in the deeided tone whieh he had assumed, always maintaining that no aeeommodation should be made between the two conntries, unless on the broadest and most liberal basis. After serving on several committees, he was at length appointed a member of that, whose report has linked the name of its author with the history of American independenee. June 7, 1776, the delegates from Virginia, in compliance with the instructions of the convention, moved that congress should deelare the United Colonies free and independent states. This gave rise to a warm and protracted debate; for as yet there were many who continued to eling to the hope of a peaceful adjustment. In the course of the discussion, it appearing that several colonies were not yet fully ripe for separation, it was deemed prudent to defer the final deeision of the question for a short time ; and, in the mean while, a eommittee was appointed to prepare a deelaration of independence, con sisting of John Adams, doetor Franklin, Roger Sherman, Robert R. Livingston and Mr. Jefferson. The last named gentleman was requested to draw up the paper, whieh he did, and it was reported to the house, after receiving a few alterations from doctor Franklin and Mr. Adams. On the first of July, the day seleeted for deciding upon the original motion of the Virginia delegates, it was carried in the affirmative by a large majority, and two or three days afterwards by a unanimous vote. The declaration of independence was then brought before the house, by whieh, though generally approved, it was. in some respeets, modified. Those passages, espeeially, whieh eonveyed censure upon the people of England, were either greatly softened, or entirely omitted, as the idea was still entertained that the colonies possessed friends in England, whose good will it would be proper to eherish ; and a clause reprobating the slave-trade was cancelled, in complaisance to some of the Southern States, who were largely engaged in the traffic. The debates respecting the declaration oceupied three days, on the last of whiel, the 4th of July, it was signed by every member present, except John Dickinson, who deemed
a supture with the mother country, at that moment, rash and premature. September 2, 1776, Mr. Jefferson retired from his seat in congress, and, on the 7th of October, took his pláce in the legislature of Virginia, of which he had been elceted a member from his county. In this situation, he was indefatigable in his labors to improve the imperfect constitution of the state, which had been recently and hastily adopted, before a draught of onc which he had formed on the purest principles of republicanism, had reached the convention, which was deliberating at Richmond. The chief service which he performed was as a member of a commission for revising the laws, consisting, besides himself, of Edmund Pendleton, George Wythe, George Mason and Thomas Ludwcll Lee, by whom no less than 126 bills were prepared, from which are derived all the most liberal features of the existing laws of the commonwealth. The share of Mr. Jefferson in this great task was prominent and laborious. June 1, 1779, he was chosen the successor of Mr. Henry, in the office of governor of the state, and continued in it for two years, at the end of which period he resigned, "from a belief," as he says, "that, under the pressure of the invasion under which we were then laboring, the public would have more confidence in a military chief, and that, the military commander being invested with the civil power also, both might be wielded with more energy, promptitude and effect, for the defence of the state." General Nelson was appointed in his stead. Two days after his retirement from the goverument, he narrowly escaped capture by the enemy, a troop of horse having been despatched to Monticello, where he was residing, for the purpose of making him prisoner. He was breakfasting, when a neighbor rode up at full speed with the intelligence that the troop was ascending a neighboring hill. IIe first scnt off his family in a carriage, and, after a short delay for some indispensable arrangements, mounted his horse, and, taking a course through the woods, joined them at the house of a friend-a flight in which it would be difficult to disccin any thing dishonorable, although it has been made the subject of sarcasm and reproach without end, by the spirit of party. June 15, 1781, Mr. Jefferson was appointed minister plenipotentiary, in conjunction with others, to negotiate a peace then expected to be effected, through the mediation of the empress of Russia; but he declined, for the same reason that had
induced him, in 1776, to decline also the appointment of a commissioner, with doctor Franklin, to go to France in order to negotiate treaties of alliance and commerce with that government. On both occasions, the state of his family was such that he could not leave it, and he "could not expose it to the dangers of the sea, and of capture by the British ships, then covering the occan." He saw, too, that "the laboring oar was really at home," especially at the time of his first appointment. But, in November, 1782, congress, having received assurances that a general peace would be concluded in the winter and spring, renewed the offer which they had made the previous year; and this time it was accepted; but the preliminary articles being agreed upon before he left the country, he returned to Monticello, and was chosen (June 6,1783) a member of congress. It was during the session at Annapolis, that, in consequence of Mr. Jefferson's proposal, an executive committee was formed, called the committee of the states, consisting of a member from each state. Previously, executive and legislative functions were both imposed upon congress; and it was to obviate the bad effects of this junction, that Mr. Jefferson's proposition was adopted. Success, however, did not attend the plan; the members composing the committee quarrelled, and, finding it impossible, on account of their altercations, to fulfil their duties, they abandoned their post, after a short period, and thus left the government without any visible head, during the adjournment of congress. May 7, 1784, congress, having resolved to appoint another minister, in addition to Mr. Adams and doctor Franklin, for negotiating treaties of commerce with foreign nations, selected Mr. Jefferson, who accordingly sailed from Boston July 5, and arrived in Paris August 6. Doctor Franklin was already there, and Mr. Adams having, soon after, joined them, they entered upon the duties of their mission. They were not very successful, however, in forming the desired commercial treaties, and, after some reflection and experience, it was thought better not to urge them too strongly, but to leave such regulations to flow voluntarily from the amicable dispositions and the evident interests of the several nations. In June, 1785, Mr. Adams repaired to London, on being appointed minister plenipotentiary at the court of St. James, and, in July, doctor Franklin returned to America, and Mr. Jefferson was named his successor at Paris. In the February
of 1786 , he received a pressing letter from Mr. Adams, requesting him to proceed to London inmediatcly, as symptoms of a better disposition towards America were beginning to appear in the British cabinet, than had been manifested since the treaty of peacc. On this account, le left Paris in the following March, and, on his arrival in London, agreed with Mr. Adams on a very summary form of treaty, proposing "an exchange of citizenship for our citizens, our slips, and our productions gencrally, except as to office." At the usual presentation, however, to the king and queen, both Mr. Adams and himsclf were received in the most ungracious manner, and, after a few vague and ineffectual conferences, he returned to Paris. Here he remained, with the exception of a visit to Holland, to Piedmont and the south of France, until the autumn of 1789 , zcalously pursuing whatever was beneficial to his country. Scptember 26 of that year, he left Paris for Havre, and, crossing over to Cowes, embarked for the U. States. November 23, he landed at Norfolk, Va., and, whilst on his way home, received a letter from president Washington, covering the appointment of secretary of state, under the new constitution, which was just commencing its opcration. He soon afterwards received a second letter from the same quarter, giving him the option of returning to France, in his ministerial capacity, or of accepting the secretaryship, but conreying a strong intimation of desire that lie would choose the latter office. This communication was produced by a letter from Mr. Jefferson to the president, in reply to the one first written, in which he had expressed a decided inclination to go back to the French metropolis. IIe then, however, consented to forego lis prefcrence, and, Marclı 21, arrived in New York, where congress was in session, and immediately entered upon the duties of his post. It would be altogether inconsistent with our linits to give a minute account of the rest of Mr. Jefferson's political life. This could not be done without writing the history of the $U$. States for a certain period. We must, therefore, content ourselves with stating that he continued to fill the secretaryship of state, until the 31st of December, 1793, when lie resigned. From that period until February, 1797, he lived in retirement. In this year he was elected vice-president of the U. States, and, in 1801, was chosen president, by a majority of one vote over his competitor, Mr. Adams. At the expiration of eight years, he again retired to
private life, from which he never afterwards emerged. The rest of his life was passed at Monticello, which was a continued scene of the blandest and most liberal hospitality. Suel, indeed, was the cxtent to which calls upon it were made, by foreigners as well as Americans, that the closing year of his life was imbittered by distressing pecuniary embarrassments. He was forced to ask permission of the Virginia legistature to sell his estate by lotery, which was granted. Shortly after Mr. Jefferson's return to Monticello, it laving been proposed to form a college in his neighborhood, he addressed a letter to the trustees, in which he sketched a plan for the cstablishment of a general system of education in Virginia. This appears to have led the way to an act of the legislature, in the year 1818 , by which commissioners were appointed with authority to select a site and form a plan for a university, on a large scale. Of these commissioners, Mr. Jefferson was unanimously chosen the chairman, and, Aug. 4, 1818, he framed a report, embracing the principles on which it was proposed the institution shonld be formed. The situation selected for it was at Charlottesville, a town at the foot of the mountain on which Mr. Jefferson resided. He lived to see the university - the child of his old age-in prosperous operation, and giving promise of extensive usefulness. He fulfilled the duties of its rector until a short period before his death, which occurred on the 4th of July, 1826, the fiftieth anniversary of the declaration of independence, and within the hour in which he had signed it.-In person, Mr: Jcfferson was tall and well forned; his countenance was bland and expressive; his conversation fluent, inaginative, various and cloquent. Few men equalled lim in the faculty of pleasing in personal intercourse, and acquiring ascendency in political connexion. He was the acknowledged head of the republican party, from the period of its organization down to that of his retirement from public life. The unbounded praise and blame which he received as a politician, must be left fer the judgment of the historian and posterity. In the four volumes of his posthumous works, edited by his grandson, Thomas Jefferson Randolph, there are abundant materials to guide the literary or historical critic in forming an estinate of his powers, acquirements, feelings and opinions. His name is one of the brightest in the revolutionary galaxy. Mr. Jeffersou was a zealous cultivator of literature and science. As early
as 1781, he was favorably known as an author, by his Notes on Virginia. He published, also, various essays on political and philosophical subjects, and a Manual of Parliamentary Practice, for the Use of the Scnate of the U. States. In the year 1800, the French national institute chose lim one of their forcign members. The volumes of posthumous works, in addition to an auto-biography of the author to the year 1790 , consist principally of letters from the year 1775 to the time of his death, and embrace a great variety of subjects.

Jeffrey of Monmouti. (See Geoffrey.) Jeffrey, Francis, lord advocate of Scotland, son of George Jeffrey, one of the deputy clerks of session in Scotland, was born in Edinburgl, Oct. 23, 1773. He reccived the rudiments of education at the high school of Edinburgh, and, in 1787, was entered at the university of Glasgow. After having remained at Glasgow four years, he removed to Oxford, and was admitted of Queen's college, in 1791. In 1795, he was called to the bar. His second wife, whom he married in 1814, is a daughter of Mr. Wilkes of New York, and grand-niece of John Wilkes. In very early life, Mr. Jeffrey displayed the promise of splendid talents, and his father spared no pains in his education. While Mr. Jeffrey resided at Edinburgh, he engaged actively in the literary societics of that city, and was one of the most conspicuous members of the Speculative Society. At the bar, the success of Mr. Jeffrey was, however, long doubtful, and it was not for many years that he acquired extensive practice. Yet his abilities as an advocate are of the first order. In acuteness, promptness and clearness; in the art of illustrating, stating and arranging; in extent of legal knowledge ; in sparkling wit, keen satire, and strong and flowing eloquence, he has few equals. But though Mr. Jeffrey is known at home as the head of the Scottish bar, it is to his literary character that he owes his general reputation. As the editor and one of the leading writers in the Edinburgh review, for a period of 30 years (the cditorship has lately passed to Mr. Napier), lic has been a sort of literary despot, rendered tenible by his merciless sarcasm and acute criticism. His duel, or rather mecting, with Moore, and the effect of the review of lord Byron's Hours of Idleness on the noble bard, are well known. The articles of Mr. Jeffrey are numerous, and relate principally to belles-lettres. HisEssay on Beauty, in the Supplement to the Ency-
clopredia Britannica, is a fine specimen of philosophical criticism. The political tone of the Review has ever been decidedly of a Whig character, which, at the time of its appearance, was by no means popular in Scotland, where the Whigs were then few. In 1830, Mr. Jeffrey received the place of lord advocate of Scotland, and was returned to parliament. Here he advocated the great measure of parliamentary reform, in an able speech, but lost his seat by the decision of the committee on contested elections. Some account of Mr. Jeffirey may be found in Peter's Letters to his Kinsfolk, and in the New Monthly Magazine (April, 1831).

Jeffreys, George, lord baron Wem, commonly known by the name of Judge Jeffreys, was born towards the beginning of the 17 th century. He was entered at the Middle Temple, and, by attending an assize during the plague, when few barristers could be met with, he was allowed to plead, although not formally admitted, and continued to practise unrestrained until he attained the highest employments in the law. Soon after commencing his professional career, he was chosen recorder of London ; and to this advancement, and the influence it procurcd him, may bo attributed his introduction at court, and appointment of solicitor to the duke of York. A willing instrument of all sorts of measures, his farther promotion, at such a period, was rapid, and he was appointed, successively, a Welsh judge and chief-justice of Chester, and created a baronet. When parliament began to prosecute the abhorrers (or church and court party, so called from their address to the king, Charles II, expressing their abhorrence of those who endeavored to encroach on the royal prerogative), he resigned the recordership, and was appointed chief-justice of the king's bench. On the accession of James II, he was one of the advisers and promoters of all the oppressive and arbitrary measures of his reign ; and, for his sanguinary and inhuman procccdings against the adherents of Monmouth, vas rewarded with the post of lord high chancellor (1685). He usually, however, showed himself an able and impartial judge, where political purposes were not to be answered. His deportment ou the bench was, in the highest degree, discreditable at all times, and he indulged in scunility and abuse of the most degrading description. On the arrival of the prince of Orange, the chancellor, who had disguised himself as a seaman, in order to get on board a ship mknown, was de-
tected in a low public house, in Wapping, by an attorney whom lee had insulted in open court. The latter making his discovery known, Jeffreys was iminediately seized by the populace, and carried before the lord mayor, who sent him to the lords in council, by whom he was committed to the Tower, where he died April 18, 1689.

Jefrries, Jolin, M. D., was born at Boston, Fel. 5, 1744, and, after graduating at the university of Cambridge, commenced the study of medicine. After completiug his preparatory studies, and being admitted to practise, he went to London, and sedulously attended the instructions of the most distinguished lecturers. June 1, 1769, the university of Aberdeen conferred on him the degree of doctor of physic, he being, as it is believed, the first native of the American provinces who obtained that honor. In the same year, he returned to Boston, where he recommenced his labors, and continued to practise, with great success, until the evacuation of that city by the British garrison. He then accompanied general Howe to Halifax. That commander made him surgeon-general to the forces in Nova Scotia, in 1776. In March, 1779 , he went again to England, where he was made surgeon-major to the forces in America. In the spring of 1779, lie entered upon the duties of this office in Savamnal, then in the possession of the British. He did not, however, retain it very long, for, in December, 1780, he was again in London, having resigned, and proceeded thither in consequence of a severe domestic affliction. In London, he practised with considerable success, and occupied himself much with scientific research, having declined the offer of the lucrative post of sur-geon-general to the forces in India. To ascertain the correctness of certain preconceived hypotheses relative to atmospheric temperature, and the practicability of some aërostatic improvements which had suggested themselves to his mind, he undertook two aërial voyages. The second one was made Jan. 7, 1785, from the cliffs of Dover, across the British channel, into the forest of Guinnes, in the province of Artois, in France, and was the only successful attempt to cross the sea in a balloon. The reputation accruing from these expeditions gained him the notice and civilities of some of the most distinguished personages of the day, procured for him an introduction to all the learned and scientific societies of Paris, and facilitated his access to the medical and anatomical schools of that metropolis. He drew up a
paper, detailing the result of his various experiments, which was read before the royal society of London with much approbation. In the summer of 1789, he repaired to Boston, where he soon acquired eminence. It is said that he delivered the first public lecture in Boston on anatomy, a branch of which he was very fond. Ile delivered, however, but one; for, on the second evening, a nob, having collected, entered his anatomical room, and carried off, in triumph, his sulject, which was the body of a convict, given lim by the gorernor after execution. After an uninterrupted and successful practice of 53 years, he was seized with an inflammation of the bowels, originating in a hernia occasioned by great exertion in lis first aërial voyage, which carried him off on the 16 th of September, 1819, aged 76 years.

Jehovah; the awful and ineffable name of the God of Israel, which was revealed to Moses. The pronunciation of this celebrated тєтаауродцатор, which means He who is, was, and will be, or the Eternal, Unchangeable, the Failhful (Exod. iii. 14 ; vi. 3), is not known, nor is its entire signification, though it seems to contain all the tenses of the Hebrew word to be, and to imply, as above explained, eternal and necessary being. It reminds us of the inscription on the temple of Isis, in Egypt-"I am whatever is, was, and will be, and no mortal has ever raised my veil;" and this resemblance may perhaps be explained by the passage in $\Lambda$ cts vii. 22, "Moses was learned in all the wisdon of the Egyptians." (See Egyptian Mythology, end of article Hieroglyphics.) How far it may be connected with the exclamation 'Iaw, of the Egyptians and Greeks (Diod. Sic. i. 94; Macrob., Salurn. i. 18), we cannot decide. We know that the Hebrews cherished the most profound awe for this incommunicable and mysterious name, and that this sentiment led them to avoid pronouncing it, and to substitute for it, in the sacred text, the word Adonai, which signifies the lord. This custom still prevails among the Jews, who attribute to the pronunciation of the name of the Almighty the power of working miracles, and thus explain those of Christ. This religious respect for the name of God is analogous to the veneration of the Egyptians for the proper names of their deities. They may be written either in the figurative, symbolic or phonetic characters (see Hicroglyphics); and, in hieroglyphic or hieratic inscriptions, which are of a sacred character, they are phonetic; but in demotic texte,
which are of a profane nature, the names of the gods are always expressed symbolically, ald never phonetically; and Champollion has even found that some hieroglyphic names of divinities were writtell one way and pronounced another. The Greeks, too, were superstitiously fearful of uttering the name of Gorgon or Demogorgon, and not less afraid of calling the Furies by their names. (Euripides, Orestes, verses 37 and 430.) The conception of the Jehovah of the Israelites differs from all other theological conceptions of that age. No image of him was allowed. He was the invisible protector and king of Israel, worshipped by obedience to his commandments, and an observance of the ceremonies instituted through Moses; yet the Jews were not sufficiently advanced to adore their Jehovah entirely in a spiritual manner, and the popular belief attributed to him nore or less of human qualities. Thus he was conceivel, from the time of Da vid, to have his residence particularly on mount Zion. Jehovah was, and still is considered, by the Jews, as the particular God of their race, the national God of Israel ; and it was Christ who first represented him as the protector of all mankind, as a father, and not an object of fear, to whom the Israelites even attributed bad passions.

Jeldy includes every translucent juiceso far thickened as to coagulate, when cold, into a trembling mass; as the juices of acid or mucilaginous fruit, currants, \&c., which, by the addition of one part sugar to two parts of juice, and, by boiling, have obtained a proper consistence; also a concentrated decoction of Iceland moss, made agreeable to the taste by the addition of sugar or liquorice; also strong decoctions of the horns, bones or extremities of animals, boiled to such a degree as to be stiff and firm when cold, without the addition of any sugar. The jellies of fruits are cooling, saponaceous, and acescent, and therefore are good as medicines in all disorders of the prime vie, arising fronı alkalescent juices, especially when not given alone, but diluted with water. On the contrary, the jellies made from animal substances are all alkalescent, and are therefore good in all cases in which an acidity of the humors prevails. The alkalescent quality of these is, however, in a great measure, takeı off, by adding lemon juice and sugar lemon to thein. There was formerly a sort of jellies inuch in use, called compound jellics; these had the restorative medicinal drugs added to them, but they are now scarcely ever
heard of. Animal jelly is soluble in water, glutinous, becomes fluid by heat, coagulates in the cold, combines with oils and resins, is decomposed by corrosive alkali, and gives out ammonium ; when it is treated with nitric acid, it yields oxalic aeid, and, under dry distillation, yields the products obtainable from all aninal substances, and can be clanged into a perfectly dry substance by evaporation.

Jemappes; a village of the Netherlands, in Hainault, near Mons, on the Scheldt, celebrated as the place of the first great battle in the French revolutionary war, fought Noveriber 6, 1792, in connmemoration of which, while under the Frenclr dominion, the whole department was called Jemappes. The loss of this battle by the Austrians had a great influence on the public sentiment of Europe, and gave the highest impulse to the enthusiasin of the French. The consequence of this defeatthe loss of the Netherlands and of Liege by the allies-would have been still greater, if the French had not stopped their pursuit of the flying Austrian army at the Roer, instead of driving them across the Rhine. The Prussians had already retired to the Rhine after their unsuccessful campaign in 1792, when Dumouriez suddenly fell upon the Netherlands, planning the inovements of his army with so mucls skill, and executing them with so much rapidity and decision, that the allies soon perceived that there was no want of able generals among the French. The French army was more numerous than the Austrian, which was comunanded by Albert, duke of Saxe-Teschen, but the latter had the advantage of a position considered ahnost impregnable. The enthusiasm and inartial spirit of the French, which here displayed themselves in all their brilliancy, bore down all obstacles, and redoubt after redoubt was stormed and taken, to the chant of the Marseilles hymn. Dumouriez, who had appointed the young duke of Chartres, now king of the French, his lieutenant, commandel the centre, Dampierre and Beurnonville the right, and Ferrand the left wing. The loss of the Austrians was estimated at 5000 men . Eight days after, Dumouriez entered Brussels.
Jemshid, or Gramschid; a Persian sovereign, celebrated in Oriental history, the period of whose existence is somewhat uncertain. He is said to have ascended the throne of Persia about 800 B. C., and to have founded the famous city of Istakhar, called, by the Greeks, Persepolis. To this prince is ascribed the first establishment of public baths, the
invention of tents and pavilions, and the use of lime for mortar in buildings. He instructed his suljects in astronomy, and also probably in the mysteries of Sabeism, or the worship of the heavenly bodies; but, though he is represented as a wise and powerful monarch, he was unfortunate in war, and, haviug been dethroned by Zohak, an Arabian king, he spent the latter part of his life in indigence and obscurity. His son Pheridoun was preserved, by the care of the queen, from the pursuit of the usurper, and ultimately recovered his father's throne. (See Malcolm's History of Persia, two volumes, London, 1829.)

Jena; a town of Saxe-Weimar, in Thuringia, at the confluence of the Leuthra and the Saale, in a romantic valley, with 60,000 inhabitants ; lat. $50^{\circ} 56^{\prime} 28^{\prime \prime} \mathrm{N}$.; lon. $11^{\circ} 37^{\prime} 23^{\prime \prime} \mathrm{E}$. The environs are diversified and delightfut, and contain several fine ruins. There are some mannfactures at Jena, and it has a much frcquented fair, but the chief support of the place is the aucient university. In 1547, the elector Johu Frederic, after the unfortunate battle of Mühlberg, being conducted a prisoner through Jena, and being occupied with the design of supplying his dominions with a substitute for the lost university of Wittenberg, founded by his uncle, Frederic the Wise, was pleased with the charming valley of Jena, and advised his sons to found a university here. Three couveuts, with their posscssious, were appropriated to this institution, which Charles $\mathbf{V}$ actually chartered as a university (February 2, 1558), though not very willingly, because it was a Protestant institution. Jena has had many of the first German literati among her professors, and the late duke of Saxe-Weimar was so liberal towards it, that it became one of the most favorite universities of the Germans; but the celebration of the jubilee of the reformation, on the Wartburg, not far from Jena, where Luther translated part of the Bible, and the circumstance that Sand, the Inurderer of Kotzebue, studied there, induced the other German governments to prohibit, iu 1819, any of their suljects from studying there. Prussia revoked her prohibition in 1825; but it has not resumed its former standing. In 1829, it contained 600 students. The university has a library of 100,000 volunes, museurns, a botanical garden, an anatomical theatre, \&c. It is one of the cheapest in Germany. It is also one of the few where the small sword is used in duels. Schiller, the German poet, was
professor of history at Jena, which is the joint university of the Saxon duchies.
Jena and Auerstüdt, Battle of (October 14, 1806). Placed in the most unhappy situation, since the treaty of Vienna of Deceunber 15, 1805 (see Austerlizz), involved in war with England and Sweden on account of Hanover, Prussia took up? arms to defend the independence of ${ }^{\circ}$ Northern Germany against France; but the comnander-in-chief, the duke of Brunswick, 72 years old, instead of penetrating imnediately beyond the Rhine, and compelliug the elector of Hesse, who wished to remain neutral, to unite his forces with those of Prussia, concentrated the SaxouPrussian arny in Thuringia, by which he lost not only the right moment of attack, but also all the advautages of his line of defence and communication with the Elbe, while he obstinately persisted in the opinion that Napoleon would not act on the aggressive. He discovered ton late, that the left flauk of the Prussian army was wholly exposed to the enemy. Napoleon, who left Paris September 25 , and arrived at Kronaclı October 8, had achieved the victory, and the great results of the campaign before the battle was fought, by his generalslip in making himself master, within five days, of the region between the Saal, Elster and Elbc. By lis preparatory movenients, the left wing of the Prussian army was surrounded, and Saxony, as well as the military roads to Dresden and Berlin, now lay open to him; whereupon he pressed forward, without opposition, in the rear of the Prussian army, as far as Mauburg, which Davoust occupied October 13, while the Prussian arıny stretched itself from Jena to Eiseubach, and the duke took up his head-quarters at Weimar, from October 10 to 12. Two important points, on the left bank of the Saal, were also occupied by the French; Jena by Lannes, and Kahla by Augereau. Napoleon himself arrived at Jena from Gera, October 13. He had previously made a proffer of peace to the king of Prussia; but the bearer of his missive of October 12 , froul his camp at Gera, did not reach the king till the day of battle. The double battle at Aucrstadt and Jena, October 14, therefore completed the defeat of the Prussian army, already vanquished by combinations. Napoleon was master of the points of passage on the left bank of the Saal. The Prussian army uuder prince Hohenlohe was separated from that of the duke of Brunswick; and the prince, while he guarded the chaussé, which led
to the plain, where lie expected to be attacked, perinitted the eneiny to occupy the steep eminences, which commanded the valley of the Muhl, at Jena; and the duke himself was equally negligent in regarl to the heights and pass of Kösen. These oversights were disastrous, for Napoleon caused the most troublesome obstructions in the narrow ravines to be levelled, on the night of October 13 , in order to convey his artillery to the plateau of the selected place. In the moming, a thick cloud concealed his operations. By degrees, he brought 80,000 men on the field. The left wing was led by Augercau, the guards by Lefebre, the centre by Lannes, and the right wing by Soult. Ney subsequently advanced from the rear to the first liue. Three bloody battles decided Hohenlohe's defeat. At first, the Prussian vanguard, under Tauenzien, was overthrown at Klosewitz, then the main body, under prince Hohenlohc, at Vierzehnlieiligen, and lastly the former right wing of the army under general Rűchel, at Capellendorf. Thus an army of 50,000 men was completely broken up. On the same day, the duke put in motion, on the high road leading from Auerstảdt to Kősen, his army of 50,000 men, in three divisions; the first, under Schmettau, accompanied by the king, three princes of the blood, and the field-marshal Möllendorf; but Davoust, whose army contained about 36,000 men, had already a few hours before occupied the important pass of Kösen. The repeated attacks of the division of Schmettau, which met the enemy at Hassenhausen, and of general Bluchcr's cavalry, were repelled, the second division of the Prussian army not coming to their assistance, being retarded by the bad roads. The duke himself being wounded in the eye by a musket shot, and general Schmettau being inortally wounded, all unity of operations was lost. The king now committed the chief command to the fieldmarshal Móllendorf, who gave the orders for the retreat ; but the first division, on their retreat, becoming entangled with the second, which was advancing, Davoust so improved the consequent confusion as to achieve a complete victory, which won him the title of duke of Auerstädt. General Kalckreuth protected, nevertheless, for some time, the retreat of the army along the road from Auerstädt to Weimar and Buttstadt. It was intended to renew the battle on the 15th, but on this day the king received information in Söınınerda of Moheulohc's dcfeat. As the communication of the army with

Halle, where the reserves were stationed, was entirely cut off, and it was pursucd every where by Napoleon's battalions, and reduced to confusion, it was obliged to separate into small corps, some of which, under Hohenlohe's command, reached Magdeburg, and the Elbe, October 26, by a circuitous route over the Martz mountains. The loss sustained by the Prussiuns, up to October 14, was above 50,000 men, killed, wounded or prisoners. The Saxous lost, in the whole, 23 officers killed, 115 wounded, and more than 6000 mell prisoners. The loss of the French, in killed and wounded, did not amount, according to their own accounts, to more than 4100. The loss of the Prussians, after the battle, was still greater; for, October 16, 14,000 Prussians, under Möllendorf, shut up in Erfurt, surrendered to Murat. The captive Saxons, however, were released on promise never to serve again against France; whereupon Napoleon caused the neutrality of the electorate to be proclaimed by the grand-duke of Berg on the 17 th, though peace was not concluded with Saxony till December 11, at Posen. By this measure, Napoleon secured his right flank, in case he should advance to Berlin, and opened to his own use all the resources of the electorate, which he occupied. The most important events now followed each other in rapid succession. October 18, Bernadotte attacked the Prussian reserves of 10,000 men, under Eugene, duke of Würtemberg, at Halle, and made 5000 prisoners. Davoust marched by way of Leipsic and Wittenberg, Lannes by way of Dessau, to Berlin (October 25), which Napoleon entered on the 27 th. Spandau surrendered to Lannes, October 25. Meanwhile general Kalckreuth succeeded in conducting a part of the residue of the army, 12,000 in number, beyond the Oder. Blukcher, on the contrary, did not join Hohenlohe with the wreck of the reserves, but, after the prince had capitulated at Prenzlau with 17,000 men, October 28, proceeded to Strelitz, where he formed a junction with the corps of the duke of Weimar, under the command of the duke of BrunswickOEls. His forces now amounted to 21,000 men; but, pursued by Murat, Bernadotte and Soult, he was obliged to press forward towards Lübeck on the 5th, and capitulate at Ratkau on the 7th. (See Lübeck.) Meanwhile a corps of cavalry of 6000 men, under general Schimmelpfennig, had surrendered, on the 29th, to general Milhaud, at Pasewalk; and on the 31 st, another corps of 4000 , under
general Bila, at Anclam, surrendered to general Becker. Stunned by this annihilation of the Prussian army in the space of 14 days, the commanders of fortresses surrendered their places to the enemy, without the honor of resistance. The last bulwark of the monarchy, Magdeburg, which was abundantly supplied with every necessary, General Kleist shamefulty opened to the French under Ney, on the 8th of November. Napoleon, elated by his success, suddenly broke off the pacific negotiations, which were near a conclusion, carried his arms across the Oder, invited the Poles to his standard, and came up with the Russians on the Vistula. To all the military reasous for the victory of Napoleon, the great moral difference of the two armies must be added-the French, enthusiastic for glory and for their commander, led by excellent officers, mostly young; the Prussian army, consisting, in a great measure, of foreigners and rabble, ready to run away at the first good opportunity, their generals old, their king weak. Immense resources were opened to Na poleon by the possession of all North Germany, with the exception of Colberg; for he had taken possession of the electorate of Hesse, November 1; of Brunswick and Fulda, October 26 ; of Hanover, November 9; of the Hanseatic cities, November 19; of Mecklenburg, November 28; and of Oldenburg, December 6. November 21, the celebrated decree of Berlin was issued, interdicting all commerce between Great Britain and the continent, and declaring the British islands in a state of blockade.
Jenkinson, Charles. (See Liverpool, Earl of.)

Jenkinson, Robert Banks. (See Liverpool, Earl of.)

Jenne, one of the most celebrated and important cities in Central Africa, was first visited by Caille, the French traveller, in 1828. It is described by him as situated at the eastern extremity of a branch of the Niger, separating, below Sego, from the main current, with which, after passing the former city, it again unites. The country around, as far as the eye can reach, forms only a marshy plain, interspersed with a few clumps of trees and bushes. The city is two miles and a half in circuit, surrounded by a wall of earth; the houses tolerably well built of bricks dried in the sun; the streets so wide that seven or eight persons may walk abreast. Population is estimated by Caillé at 8,000 or 10,000 . The inhabitants consist of various African tribes, attracted
by the extensive commerce of which Jenne is the centre. The four principal tribes are the Foulahs, Mandingoes, Bambarras and Moors, of whom the first are the most numerous, and are strict adherents to Mohammedanism, compelling the pagan Baurbarras to conform to the rules of the Koran, whilst they are at Jenne. The trade is chiefly in the hands of 30 or 40 Moorish merchants, who maintain a communication with Timbuctoo, in barks of considerable size, ranged along the river. The markets are filled with the productions of the surrounding country, either for consumption or exportation; in exclange for which, articles are brought from Timbuctoo, including a variety of European goods. Caillé found the merchants of Jenne more polished than any natives of Africa with whom he had had dealings. The mode of living is extremely simple. (See Caille's Journey to Timbuctoo.)

Jenner, Edward; an English pliysician, celebrated for having introduced the practice of vaccination, as a preventive of the small-pox. He was the youngest son of a clergyman in Gloucestershire, and was born May 17, 1749. Being destined for the medical profession, he was, after a cominon school education, placed as an apprentice with a surgeon, at Sodbury, in his native county. He subsequently visited London, to finish his studies, by attending the lectures of the celebrated anatomist John Hunter. Returning to the country, he settled at Berkeley, to practise the various branches of his profession. He had already obtained the reputation of an ingenious practitioner, and a man of talent and science, when he made known to the world the important discovery which has raised him to an euviable situation among the benefactors of the human race. His investigations concerning the cow-pox were coinmenced about the year 1776, when his attention was excited by the circumstance of finding that some individuals, to whom he attempted to communicate the small-pox by inoculation, were not susceptible of the disease; and, on inquiry, he found that all such patients, though they had never had the small-pox, had undergone the casual cow-pox, a disease common among the farmers and dairy-servants in Gloucestershire, who had some idea of its preventive effect. Other medical men were aware of the prevalence of this opinion: but they treated it as a popular prejudice; and Jenner seems to have been the first who ascertained its correctness, and endeavored to derive from it some practical
advantage. He discovered that the variole vaccince, as the complaint has been since termed, having, in the first instance, been produced by accidental or designed inoculation of the matter afforded by a peculiar disease affecting the udder of a cow, could be propagated from one human subject to another by inoculation, rendering all who passed through it secure from the small-pox. He made known his discovery to sone medical friends, and in the month of July, 1796, Mr. Cline, surgeon to St. Thomas's hospital, introduced vaccination into the metropolis. The practice of vaccinc inoculation was adopted in the army and navy, and honors and rewards were conferred on the author of the discovery. The diploma constituting him doctor of medicine, was presented to Jenner as a tribute to his talents, by the university of Oxford. He was chosen a fellow of the Royal Society, and of other learned associations; and a parliamentary grant was made to him of the sum of £20,000. The extension of the benefits of vaccination to foreign countries, spread the fame of the discoverer, who received several congratulatory addresses from continental potentates. He died suddenly, in consequence of apoplexy, January 26, 1823, and was interred iu the parish church of Berkeley. Doctor Jenner was the author of an Inquiry into the Causes and Effects of the Cow-pox, (1798, 4to.); and Farther Observations on the Variole Vaccince, or Cow-pox, besides various letters and papers on the same subject, published in periodical works. (Sce Vaccination.)
Jenny, Соtton. (See Spinning.)
Jenyns, Soame, a witty and elcgant writer, was the only son of sir Roger Jenyns, knight. He was born in London, in 1704, and received a domestic education until the age of seventeen, when he was entered a fellow commoner of St. John's college, Cambridge. He remained three years at the university, and then married carly a lady with a largc fortune, to whom his father was guardian; but the marriage proved unhappy, and, in consequence of an elopement, a separation took placc. In his youth, Mr. Jenyns, with a small and delicate person, sustained the character of a beau, and his first performance was a pocm on the Art of Dancing, published in 1728. In 1741, he was left, by the death of his father, master of a large fortune, on which he entered into public life as representative of the county of Cainbridge. He began his career by supporting sir Robert Walpole, and ever after remained a faithful adherent to the minister for
the time being. In 1757, he published lis Free Inquiry into the Nature and Origin of Evil, the fundamental principle of which is, that the production of good without evil is impossible; that evils spring from necessity, and could not le done away without the sacrifice of some superior good, or the admission of greater disorder. In respect to moral evil, his theory is, that it is permitted, in order to provide objects for the just infliction of physical evils. In 1776, appeared his View of the Internal Evidences of the Christian Religion. The foundation of his reasoning is, that the Christian religion is a system of ethics so superior to, and unlike any thing which had previously entered into the mind of man, that it must necessarily be divine. In 1782, appeared his Disquisitions on Various Subjects (8vo.), whicl! are marked with his usual characteristics of sprightly wit and shirewd observation, but are rague and declamatory. He died in 1787. Ilis works have been collected into four volumes (12mo.), with a life prefixed by C. N. Cole.
Jephthai ; a natural son of Gilead, who, being driven from home by his brothers, lived in the land of Tob, but, when the Ammonites waged war against Israel, was sent for to defend his countrymen. Jephthah tried conciliatory measures, but, being unsuccessful in this, he put himself at the head of the Israelites, and defeated the enemy. Having rashly made a vow that, if he was victorious, he would sacrifice to God, as a burnt offering, whatever should first come to meet him from his house, he was met, on his return, by his daughter, his only child, whom he sacrificed, in consequence, to the Lord. (Judges xi. 29, 40.) The mode in which the sacrifice was performed, has given rise to much controversy, some authors maintaining that Jcphthah put her to death near the altar; others that he devoted her to perpetual virginity in the temple; others, and most commentators, think that he actually sacrificed her as a burnt offering, and, though Moses prohibits, explicitly, such a sacrifice, that it may have been permitted in the wild and barbarous time of Jephthalı. Jephthah ruled six years as a judge and general. (Judges xi and xii.)
Jerboa (dipus, Gmel.). These singular little animals are found in many parts of the old continent, but seldom in great plenty. The most common species is the D. sagitta. It is of a pale yellowish fawncolor on the upper parts, and white beneath; the length of the body is about eight inclies, and of the tail ten. The
jerboas inhabit dry, hard, and clayey ground, in which they make their burrows. These are of considerable length, and run oblique and winding; at about half a yard below the surface of the ground, they terminate in large excavations or nests; they are usually provided with but one opening, though the animals are provident enough to make another passage, to within a short distance from the surface, through which they rapidly penetrate in case of necessity. It is almost impossible to kill them, except by coming on them unawares. The Arabs, however, take them alive, by stopping up all the outlets of the different galleries belonging to the colony, with the exception of one, through which they force them out. They keep within their holes during the day, sleeping rolled up, with their hcad between their thighs. At sunset they come out, and remain abroad till morning. They go on their hind legs only, the fore legs being very short; their notion is, nevertheless, very rapid, being effected by leaps of six or seven feet, which they repeat so swiftly, that it is nearly impossible to overtake them. They do not proceed in a straight line, but spring first to one side, and then to the other. In leaping, they carry their tails stretched out, whilst, in standing or walking, they carry them in the form of an S , the lower curve touching the ground. In their wild state, these animals are very fond of bulbous roots; but, when confined, they will feed on raw meat. They are tamed without nuch difficulty, but they require to be kept warm. The jerboa is supposed to be the cony of the Jible. It was forbidden food to the Israelites; it is, however, eaten by the Arabs.

Jeremiaf, the second of the great prophets of the Old Testament, of a noble Jewish family of the priestly order, flourished during the darkest period of the kingdom of Judah, under the last four kings, till the Babylonish eaptivity, and exercised the prophetic office for 40 years, with unwearied patience and fidelity. But in vain did he exhaust admonitions, entreaties and warnings to move the people to a sense of piety and resignation ; he was rewarded by abuse, imprisonment and menaces of death. After the destruction of Jerusalem, when all the people were carried into captivity, he was lionored by Nebuchadnezzar as the noblest of his nation, and permitted to choose his own place of residence. The old prophet staid by the ruins of the holy city, and continued to direct the remaining Jews
by his counsels till their flight into Egypt, where he died at an advanced age. He began, under the reign of Jehoiakim, to dictate his instructions and prophecies to his amanuensis Baruch. They evinee the most ardent patriotism and unslaken trust in the God of his fathers, but, at the same time, show how much the spirit of the prophet was erushed by his own misfortunes and the disasters of his country. It is only in his predictions against foreign states, that his expression rises to some degree of strength; but elsewhere his tone is as mild as his character, and mournful as the times in which he lived. He clearly foresaw the downfall of Judah, and lamented it on the ruins of Jcrusalem. His Lamentations, the fruit of this grief for the fate of his country, are elegies full of touching melancholy and pious resignation, which, by their beantiful, harmonious structure, remind us of a better era of Hebrew poctry.

Jericho; a considerable town of ancient Judea, on a plain north-east of Jerusalem, on the west of Jordan, noted, especially in Solomon's time, for its balsamgardens, and its thickets of palm-trees and roses, and carrying on a flourishing trade in balsam and spices. It was the key of Palestine, and was therefore invested by the Israclites, who had passed the Jordan under Joshua to conquer this country. On the seventh day, it was taken in a niraculous manner, and destroyed, but was rebuilt some time after. Its site is now occupied by the village of Raha. The gardens and thickets have disappeared; the balsaintree alone is cultivated. There is a creeping plant, with a singularly shaped and fragrant flower, which we call the rose of Jericho (anastatica). It was probably brought over to Europe in the times of the crusades.

## Jermack. (See Siberia.)

Jermoloff (not Yermaloff), Alexei Petrowitch; Russian general of infantry, governor of the provinces of Georgia and Caucasus, and general in chief of the army of the Caucasus. In April, 1815, Jermoloff commanded the second corps of the Russian army, which, under Barelay de Tölly, narched from Poland into France. In 1817, he was sent, with 50,000 select troops, to occupy the frontiers on the side of Persia. Having personally inspeeted all the military nosts, he was sent as ambassador to the Persian court at Teheran, where the Russian calinet wished to counteract the influence of the English. For this reason, the suite of Jermoloff was very splendid. He had with him the flower of
the Russian nobility, and, besides, some ['rench officers, whom Napoleon had sent with Gardanue on a similar mission to I'ersia in 1807. Jermoloff' also received the reports made by Gardanne, and the maps drawn by the French officers. A very advantageous treaty of commerec and anity was soon concluded between Russia and Persia, by which the peace of Tiflis, Sept. 13, 1814, was confimned. Russia was intrusted by the same compact, in some degree, with the guarantee of the Persian succession, and Persia was placed almost in the same relation to Russia as Poland had been in the time of Catharine II. Jermoloff then returned to his former station, and exerted himself much for the improvement of commerce in those parts. In 1819, he sent captain Murawjeff to the coast of the Caspian sca, to invite the Turkmans living there to form amicable connexions with Russia. Under him, the army of the Caueasus was increased to 100,000 men. In 1827, he subdued the Tshetchenizes mountaineers, addicted to robbery. In 1826, he repulsed the Persians, who, under Abbas Mirza, had broken the peace of Ghulistan. In April, 1827, general Paskewiteh succeeded him in the chief command against the Persians.

Jerome, St., one of the most learned and prolific authors of the early Latin church, was bonı about 331 , in Dalınatia, of wcalthy parents, educated with eare in literary studies, and made faniliar with the Roman and Greek classics under the grammarian Donatus at Rome. But he did not escape uncontaminated by the licentiousness of the capital; and he himself confesses the excesses of his youth. Ile soon, however, became inclined to the Christian faith. The catacombs and tombs of the martyrs first excited his devotion. His travels on the Rhine and in Gaul, made him acquainted with several Christian preachers, and before his 40 th year he was baptized in Rome. After a long residence at Aquileia, he went, in 373 , to Antioch, in Syria, where his inclination to an ascetic life became more decided. In 374 , he retired to the deserts of Chalcis, and there passed four years as a hermit, in the severest mortifications and laborious studies. He left his solitude again to be ordained presbyter at Antioch. He did not, however, confine limself to the discharge of the duties of this office, but soon after went to Constantinople, to enjoy the instruction of Gregory of Nazicnzen. In Rome, whither he accompanied his friend the bishop Damasus, he made his appearance
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as a teacher. His exposition of the Holy Scriptures found favor with the Roman ladies; and, although no one reprehended more than lie the nanners of the fashionable world, several matrons of distinction, with their daugliters, complied with his exhortations, and became nuns. St. Marcella and St. Paula are celebrated for the learned and ingenious theological epistles he wrote thein, and for their rare monastic picty. Paula accompanied himı to Palestine, in 386, where he founded a convent at Bethlehem, with her funds, and in her socicty: in this he remained till his death, in 420 . His writings show his active participation in the controversies concerning the doctrines of Origen, Meletus and Pelagius; lie always defended, with zeal and ability, the orthodox doctrines of the elurch, though his own writings are not free from vestiges of the views and opinions of these different parties. His profound knowledge of the Bible, which he read in the original languages, frequently led him to results on which he subsequently had controversies with the churcli; and his method of interpreting the Scriptures borders elosely on the allegorical interpretations of Origen, whom he respected, studied and attacked. His biblical labors are highly valuable; his Latin version of the Olid Testament, from the original language, is the foundation of the Vulgate, and his commentary gave a new inpulse to the study of the Holy Scriptures. In the controversy with Jovinian and Vigilantins, the opponents of the ascetic bigotry, his immoderate zeal for the monastic life, which contributed much towards the promotion of this new institution, led him to expressions which manifest more strength and fire of feeling than maturity of judgment. On the whole, with a glowing imagination, which made his style lively and attractive, and with an extensive knowlerge of languages, he possessed a less philosophical genius than his more celebrated contemporary Augustine.

Jerome of Prague; of the family of Faulfisch, educated at the universities of Prague, Paris, Cologne and IIeidelberg ; in faith and sufferings, the companion of the famous Jolm Huss, whom he excelled in learning and eloquence, and to whom, in the bold attempt at reformation of the 15 th century, he was inferior only in moderation and prudence. His reputation for learning was so great, that lie was employed by Ladislaus II of Poland to organize the university of Cracow; and Sigismund of Hungary caused Jerome to
preaeh before him in Buda. The doetrines of Wickliff, which he introduced into his preaching, subjected lim to a short imprisonment by the university of Vienna; but he was released by the people of Prague. He now took a zealous part, at Prague, in the contest of his friend Huss against the abuses of the hierarely and the dissoluteness of the elergy, and not unfrequently proceeded to violence. He attacked the worship of relies with ardor, trampled them inder foot, and caused the monks, who opposed him, to be arrested, and even had one thrown into the Moldau. He publiely burned, in 1411, the bull of the crusade against Ladislaus of Naples, and the papal indnlgences. When Huss was imprisened in Constance, he could not remain inactive, and hastened to his defence. But a publie letter, in which he requested a safe conduet from the council of Uberlingen, was not satisfaetorily answered, and, on his attempting to retum to Prague, the duke of Sulzbach caused him to be arrested in Hirschau and carried in chains to Constance. He here received, in prison, information of the terrible fate of his friend, and, after several hearings, in which no one was able to oppose him, an imprisonment of half a year had so worn him down, that he finally yielded to violenee, and, on the 11th Sept., 1415, consented to recant the heresies with which he and Huss were charged. But this apostasy did not deliver him, and, after languishing a year, without being able to see or read, in the darkness of the dungeon, he displayed his former courage, on an andience on the 26th May, 1416. He solemnly retracted his recantation, avowed that none of his sins tormented him more than his apostasy, and vindieated the prineiples of Huss and Wiekliff, with a boldness, energy and eloquence, that extorted the admiration of his adversaries, but, nevertheless, precipitated his destruetion. May 30 , he was burnerl at the command of the couneil. He proceeded to the pile, consoled by singing the apostles' creed and spiritual hymns, and gave np his spirit in prayer. His ashes were thrown into the Rhine, in order to annihilate lis memory ; but posterity has done him justice, and reveres him as the martyr of truth, who, unwearied in life, and noble in death, has acquired an imnortal renown for his share in the reformation. His views and doctrines coincided elosely with those of Huss. (See Huss.)

Jfrome Bonaparte (since 1816, prince of Montfort), youngest brother of Napo-
leon, formerly king of Westphalia, was borrı at Ajaecio, Dee. 15, 1784. Having gone to France with the rest of the family in 1793, he was placed at the college of Jnitly. Inmediately after the revolution of the 18th Brunnaire (Nov. 9, 1799), he entered the naval service, and, in 1801, was lieutenant in the expedition against St . Domingo, commanded hy his brother-in-law, general Leelerc. He soon returned to France to carry despatches to the government, and not long after sailed again for Martinique, in the frigate L'Epervier, of which Napoleon had given him the command. In the next year, the war between England and France being renewed, Jerome cruised several months between St. Pierre and Tohago; but he finally was obliged to leave the station, and went to New York. While in the U. States, he married, Dec. 27, 1803, miss Elizabeth Patterson, eldest daughter of a rich merchant of Baltimore. When Napoleon assumed the imperial diadem, this connexion was made to yield to views of state poliey, and Jerome's marriage was deelared invalid, after the birth of a son, still living in the U. States. Jerome returned to France in May, 1805, having eseaped the English, who were watehing for him off New York. Napoleon sent him to Algiers to obtain the delivery of the Genoese there held in slavery. This mission was suceessfilly accomplished, and 250 persons were restored to liberty. The emperor now created his brother captain, and gave hiin the command of a 74, and soon after of a squadron of eight ships of the line, which sailed for Martinique, in 1806. In the same year, on his return to France, he was ereated rear-admiral. In 1807, he was transferred from the sea service, and received the command of a corps of Bavarians and Würtembergians, which attacked the Prussians and occupied Silesia. In this campaign, he became general of division. After the peace of Tilsit, in 1807, Jerome married (August 12) Frederica Catharine, princess of Würtemberg; and on the 18th of the same month, the kingdom of Westphalia having been formed ly Napoleon, the erown was bestowed on him. All the continental powers acknowledged him. Cassel was his eapital, and that city was much embellished by him. In the article Westphalia will be found a historical sketeh of this kingdom; we will only say at present, that the intentions of the king were good, his dependence on Napoleon such as to render him rather a French viceroy than a sovereign, and his prodigality enormous, which will be less
severely criticised if we remember that he was but 24 years old when he ascended the throne. Jerome had not passed through the different stages of the revolution, nor beeome sobered by experience, but was dazzled by the rapidity of lis elevation. Ilis civil list was fixed, and he received a million of francs as a Freneh prince; and though Westphalia suffered severely, as did all other parts of Germany, in consequence of protracted wars, many improvements were introduced into the government, particularly the equal distribution of the taxes, and a uniform administration of justice. An anecdote is told of Jerome, which, if true, illustrates his views. Soon after his arrival in Cassel, deputations of the different classes were presented to lim: that of the peasants was presented as the third estate, upon which he quiekly replied, "There are no estates in the kingdom; I know only eitizens." His prodigality was not unnoticed by Napoleon, and in other respects the emperor was dissatisfied with him, as he slowed when Jerome appeared to offer his congratulations on the birth of the king of Rome (March 10, 1811). In the campaign against Russia, in 1812, Jerome commanded a division of Germans, at the head of which he distinguished liimself in the battles of Ostrowa and of Molilow; but, by his neglect, Bagration having effected a junction with Barelay de Tolly (August 6,1812 ), ho was severely reprimanded by Napoleon (who was thus prevented from accomplishing an important manœuvre), and was sent back to Cassel. In the ensuing year, the French were obliged to evacuate Germany, and Jerome retired to France with the, queen, whose affeetions kept pace with the misfortunes of her husband. Jerome, on leaving his kinglom, deelared to a deputation of citizens at Marburg, that he did not regret the kingdom of Westphalia; that to be a French prince was his wlole pride. Towards the end of 1814, Jerome and his wife were obliged to leave France. The ex-queen, when setting out for the kingdom of her father, was arrested near Paris, on the route to Fontaineblean, by a band of armed men under the command of the marcuis Maubreuil, who had been lier own equerry at Cassel. This man, who had been formerly a Chouan, robbed lier of her jewels, which, however, slie recovered by a legal process. Jerome, who lad gone to Blois to join the empress Marie Louise, went, after Napoleon's abdication, with his wife to Switzerland, lived in Gratz and Trieste, and, on Napoleon's
return from Ellba in 1815, embarked secretly, from fear of the Austrians, in a vessel which his brother-in-law Durat had sent him. He arrived in April in Paris, with eardinal Feseh, his unele, and was present at the celebration of the Champ-de-Mai, June 1. The following day, he was made a peer, and then departed with Napoleon for the army. He fought at Ligny and Waterloo, and displayed mueh courage, exelaining, "We ought to die here," or "We can die no where better than here." He was wounded in this battle; and we may add here, that Napoleon once said of him he would become a great general. He returned to Paris with his brother. After Napoleon's sceond abdication, he travelled aboilt for some time in Switzerland, lived in Würtemberg, and finally took up his residence (August, 1816) in Austria, where his wife followed him. He now owns the lordships of Wald near St. Pölten, Krainburg in Upper Austria, and Schőnau near Vienna. Since December, 1819, he has generally lived with lis wife in Trieste. At present they live in Sehőnau, in great retirement. He is mueli beloved by his tcnants, whom he treats with kindness. His finances having become embarrased, his wife applied to her relation, the emperor of Russia, who, in Felruary, 1822, granted lier the sum of 150,000 florins, and a pension of 25,000 paper rubles. She soon after gained a suit in the French courts, by whiels she reeovered a sum of 460,000 francs. The prince has a son, Jcrome, born at Trieste, August 24, 1814, and a daughter, born at Trieste in June, 1820.
Jersey, New. (Sce New Jersey.)
Jersfy, Isle of; a thriving and very populous island in the English claannel, the largest and most southerly of that group on the coast of France, which forms an appendage to the English crown. Its figure is nearly an oblong square, stretching, in an easterly direction, 12 miles, with a breadth no where greater than 7, and at a medium 5 miles. It contains about 40,000 acres, 12 parishes, 2 townsSt. Ifelier, the eapital, and St. Aubin-and several villages and fortresses. Its coast is surrounded by a natural barrier of rocks, which nearly encirele the whole island. The climate is exceedingly mild, the soil fertile, and the situation well adapted to commcree. The inhabitants speak the Frenel language, though it is now on the decline. They make their own laws; are exempt from naval and military service, and from the dominion of the English church; have the benefit of a frce port,
and trade with the enemies of England, even in time of war: above all, they are irce from the taxes with which the mother country is loaded. They are almost wholly occupied in agricultnie and commeree. The land is sufficiently adapted for all the common crops, and also for the pasture of cattle, which is practised to some extent ; but the singular mildness of the climate has decided the inhabitants to apply chiefly to the produce of the orchard, and to trust, in a great measure, to their trade for a supply of grain, at least for one third of their consumption. The fiuits, therefore, are of the highest flavor; and great quantities of cider, the common beverage, are made annually. Various fortresses have been erected, viz. Elizabeth castle, mount Orgueil, fort IIemry, La Rocco, and several others. The coast is also defended by a chain of martello towers, and by numerous redoults and batteries. The government consists of a court of judicature, and an ecclesiastical body acting scparately, and, at the same time, uniting with 12 constables and a military governor, to form the assembly of the states, the legislative body of the island, without whose approbation no law made in England is binding. The governor is appointed by the crown, convokes the assembly, and has a negative voice, which, however, is merely nominal, except where the interest of the crown is concerned. The court of judicature consists of a bailiff and a president, closen by the crown, 12 jurats, chosen by the householders, and various officers; the clerical court, of a dean and 11 rectors. Remains of antiquities, principally druidical, are found in different parts of the island. The arehitecture of all the churches is the pointed or Gothic. Various attempts have been made by the French to possess themselves of the island, but without success: the most remarkable was in 1781. Population, 28,600 ; 75 miles from Weymouth, the nearest shore of England; and from Carteret and Boil, the nearest of the French ports, 17. Lon. of St . Aubin, $2^{\circ} \mathbf{1 1}^{\prime} \mathrm{W}$.; lat. $49^{\circ} 13^{\prime} \mathrm{N}$.

Jerusalem (IIel. Salem; hence the Greek Hicrosolyma, the sacred Solyma, and the Turkisli Soliman). This celebrated city of Palestine is subject to the pacha of Damascus. Its environs are barren and mountainous. The city lies on the western declivity of a bill of basalt, surrominded with rocks and deep valleys, with a much colder climate than one would expent from its geographical situation. It is now only about two miles in
cirenit. The town is built irregnlarly, has pretty ligg walls, and six gates, which stil! bear Hebrew names. The houses are of sand-stone, threc stories higl, and withont windows in the lower story. This lifeless unifornity is only diversified, here and there, by the spires of the mosques, the towers of the churches, and a few cypresses. Of 25,000 inhabitants, 13,000 are Mohanmedans, and 4000 Jews. Christians and Jews wear a blue turban to distinguish them. The women, in their close veils and white dress, look like walking corpses. The streets arc unpaved, and filled either with clouds of dust or with mire. Nothng is to be seen but veiled figures in white, insolent Turks, and stupid or melancholy Christians. That Jerusalem is no place for the cultivation of the arts or sciences one may easily conjecture, from the despotism of the 'Turks, and the gloomy superstition of the Cliristians. Weavers and slipper-makers are the only artisans. A multitude of relies, which are, probably, not all mannfactured in the city, but are sent in also from the neighborhood, are sold to the credulous pilgrims. Nevertheless, this city forms a central point of trade to the Arabians in Syria, Arabia and Egypt. The people export oil, and import rice by the way of Acre. The uccessaries of life are in profusion, and quite cheap, the game excellent, and the wine very good. The pilgrims are always a chicf source of support to the inhabitants ; at Easter, they often amount to 5000 . But few of them are Europeans. Jernsalem has a governor, a cadi or supreme judge, a commander of the citadel, and a mufti to preside over religious matters. 'There are still many places and buildings in the city designated by ancient sacred names. The citarlel, which is pretended to have been David's castle, is a Gothic building throughont. It is also called the Pisan tower, probably becanse it was built by the Pisans during the crusades. All the pilgrims go to the Franciscan inonastery of the Holy Savior, where they are maintained a month gratuitously. Besides this, there are 61 Christian convents in Jerusalcm, of which the Armenian is the largest. They are supported by benevolent contributions, principally from Europe. The elnirch of the: Holy Sepulchre has been for 1500 years the most sacred place in Jerusalem. It is composed of several churrhes mited, and is said to be erected on Golgotha. Here is shown, in a large subterrancous apartment riehly omamented, the pretended grave of the Savior, with a sarcophagus
of white marble. The empress Helena is reported to have founded this clurch in the 4th century, fter she had found the true cross. The Jews live in great wretcheduess, and are confined to a small part of the city. The temple of the Mohammedans, which is regarded as one of their greatest sanctuaries, is magnificent. No Jew or Christian is permitted to enter the inner sanctuary. This temple consists of two large buildings, of which the one, El Aksa, is adorned with a splendid donne and beautiful gilding. The other edifice is octangular, and is called El Sahara. Here the Mohammedans show the footsteps of their prophet surrounded witl. a golden grate; and a Koran, which is four feet long, and two and a half broad. On the mount of Olives is to be seen a Christian church, in which is shown a foot-print of the Savior, which he left on the place, when he ascended to heaven. Besides many old Jewish monuments, there are a great many Greek and Roman, several Christian, and, especially, Gothic monuments, which originated in the times of the crusades.-A contemporary of Abraham, Melchisedee, is called king of Salem, 2000 years before Christ: this Salem is supposed to be the Jcrusalem of after times. This town then came into the possession of the Jebusites, and when the Israelites conquered the land of promise (B. C. 1500), it was assigned, in the division of the country, to the tribe of Benjamin. The Jebusites, however, appear afterwards to have recovered possession of the place ; for David conquered the city, called it after his name, and built the castle of Zion. His son Solomon greatly embellished the city, and caused the temple to be built by the skilful artists of Tyre. Under his successors, Jerusalem was the eapital of the kingdom of Jndah. Five times it was taken and plundered; first under Rehoboam by the Egyptians, then under Joram by the Arabians, under Joash by the Syrians, under Amaziah by the Israclites, and under Josiah by the Egyptians again (B. C. 611). Herodotus also mentions the last conquest of it, calling the eity Kadylas, which resembles Kedushah, the Holy, and the Mohammedans still call the city El Kods. At last, the Chaldean king, Nebuchadnezzar, during the reign of Zedekial, conquered the kingdon, razed the city to the ground (B. C. 586), and carried the Jews to Babylon. Seventy years after, Cyrus gave them permission to return and rebuild the city and temple. This was done under the direction of their high-priests, Ezra
and Nehemiah, whose suecessors governed them a long time. The story of Alexander's making a pacific visit to Jerusalem, after his conquest of Tyre, is nothing but a Jewish invention, as Josephus is the only author who inentions it. Alexander's successor, Ptolemy, the son of Lagus, captured Jcrusalem, and carried a great number of the better sort of Jews to Alexandria. It then remained, for a long time after it was taken by Antiochus the Great, under the jurisdiction of the Syrian kings. Under the Maccabees, the Jews were again free for a considerable time, and ehose their own rulers. One of the last of these, Aristobulus, invited Pompey the Great into the country, and thus Jerusalem came under the Roman dominion (B. C. 64). But, as it continued to lave its own kings, at least in name, and also high-priests, together with the Roman governors, this occasioned constant troubles, which were finally ended by the destruction of the eity and extermination of the inhabitants, by Vespasian and Titus, after a bloody siege (A. D. 70). Some buildings, however, were left among the ruins. The Jews again collected together, built on the place, and again rebelled against the Romans. Provoked by this obstinacy, the emperor Adrian, at last, in the year 118, ordered all that Titus had spared to be destroyed. He commanded a new city to be built in its place, called Elia Capitolina, in which no Jew was permitted to divell. Constantine the Great, and his mother Helena, from pious motives, ordered all the heathen monuments to be destroyed, and erected many new Cliristian edifices. Julian conceived the idea of rebuilding the old temple of the Jews, but is said to have been hindered from executing lis plan by the ernption of subterrancan fire. The city remained under the government of the Eastern emperors till Chosroes, king of Persia, conquered it in the year 614. It was recovered, however, by the emperor Heraclius, in the peace of 628 . This prince prohibited the Jews from dwelling there, and so alienated the patriarch of Jerusalem,Sophronius, by sectarian differences, that the Saracen caliph Onar found little difficulty in making himself naster of the city (A. D. 637). From the Saracens it passed into the hands of the Turks. In the first crusade, Godfrev of Bouillon took Jerusalem. It was erected into a Christian kingdom, to which the Turks put an end in 1187. Clarke, Chàteaubriand, \&c., describe its present state.

Jerusalem, John Frederic William, was born November 22, 1709, at Oena-
burg, where his father was a elergymau, and early displayed great talent. As early as 1724, he entered the miversity of Leipsie, where he studied theology. He then studied at Leyden, went with two young noblemen to the university of Göttingen, visited London, and was, in 1742, appointed, by the duke of Brunswick, court preacher and tutor of the hereditary prince. The Collegium Carolinum, afterwards so famous, was established on a plan suggested by him. In 1752, he was made abbot of the convent of Niddagshausen, near Brunswick. The ehancellorship of the university of Göttingen was offered to him, but he would not leave Brunswiek, where his benevolent activity found full exercise. In his old age, his son destroyed himself in consequence of an unfortunate passion for a married lady. This gave rise to Göthe's Sorrows of the young Werther. The father died in 1789, esteemed by all Germany as a theologian, and for the purity and benefieence of his charaeter. His sermons(Brunswick, 1788 $-1789,2$ vols.) are still read, as are also his Contemplations on the most Important Truths of Religion (1785 and 1795, 2 vols.) IIe wrote many other works, and is considered one of the best men of his tine in Germany.
Jeso, or Jedso, or Yedso, or Jesso, or Matsmar; a large island in the North Pacifie ocean, governed by a prince tributary to the emperor of Japan. The inlabitants are more rude and savage than the Japanese. They live chiefly on fish and game. Lon. $140^{\circ} 10^{\prime}$ to $147^{\circ} 10^{\prime}$ E.; lat. $42^{\circ}$ to $45^{\circ} \mathrm{N}$. Square miles, 53,000 . Chief town, Matsmai.
Jesse ; a nan of Bethlehem, who lived by raising cattle ; the father of eight sons, of whon David was one. When Saul persecuted the latter, Jesse fled into the land of the Moabites, where he seems to have died, as no mention is made of him after David's accession to the throne.
Jester, or Court Fool. In the middle ages, every court, secular or ecclesiastical, had its fool, as a necessary appendage; and there are some instances of court jesters in the 18th century. Douce, in his Illustrations of Shakspeare, has a dissertation on the fools and elowns. He states that Muckle John was the last person who regularly held the office of court jester in England, his predecessor, Arcly Arinstrong, having been sentenced to have lis coat pulled over his head, and to be dismissed the king's serviee, for a sarcasm on Laud (1637). Since the time of the commonwealth, the post of king's fool
has been discontinued, though some private persons lad fools late in the last celltury. Swift wrote an epitaph on Dicky Pearee, the earl of Suffolk's fool (1728). Mr. Doure states that the costume of the domestic fool, iu the time of Shakspeare, was of two sorts. The one was a motley or party-colored coat, attached to the body by a gircle, and often having bells on the skirts and elhows. 'The breeches and hose were in oue, and sometimes the legs were of different colons. A hood, resembling a monk's cowl, covered the head completely, and the breast and shoulders partly. It sometimes bore ass's ears, sometimes the neck and head of a cock, and sometimes only the comb of that bird (whence coxcomb, as a term of entempt). The bawble (marotte) was a short stick, terminated with a fool's head, or with that of a doll or puppet. To this was frequently appended a blown bladder, sometimes filled with sand or peas, and employed as a weapon of sportive offence; sometimes a skin or bladder only, and sometimes a elub instead of the bawble, and, occasionally, both together. The other dress, which scems to have been most common in the tine of Shakspeare, was a long petticoat, of various colors, fringed with yellow. 'There were, however, many variations from this dress: bells supplied the place of the cock's coinb ; the head was shaven like a monk's crown; fox tails or squirrel tails were fastened on the clothes, \&e. (See Fools, Feast of.)

Jesults, or Society of Jesus; a religious order, which rose in influence and power far above all the other orders, though strictly prolihiting its members to accept any office in the church, and which, in the art of ruling, excelled the governments of the world no less than its ecclesiastical rivals. No other religious order affords a parallel to this ; for, white those who give themselves only to devotion and religious contemplation, present few distinguisling traits, and, for the most part, differ from oue another only in their names, in the fashion and color of their dress, the greater or less strictness of their rules, the number of their penances and devotional exercises; and while those of the more active elass, who operate abroad by their influence at eourts and in families, and by engaging in offices of instruction, pastoral care, or eharity, are almost universally but monks, the society of Jesus early raised itself to a degree of historical importance unparalleled in its kind. But a small part of this greatness is to be recribed to their founder,

Ignatius Loyola (q. v.), who owes his fame nore to the slirewd policy and energy of his sureessors than to the merit of the original scheme of the order. At the university of Pais, Loyola entered into an agreement with some of his fellow students to undertake the conversion of unbelievers, and a pilgrimage to Jerusalem. Pierre le Ferre (a Savoyard), Francis Xavier (a native of Navarre), James Lainez and Nicholas Bobadilla (two Spaniards of ardent and powerful minds), and Rodriguez, a Portugucse nobleman, were the first companions of Loyola. A war with the 'Turks prevented their journey to Jerusalem. They therefore went to differcnt universities in Upper Italy, to gain new associates; Loyola limself went with Le Fevre and Lainez to Rome, where he accomplished, in 1539, his plan of founding a new and peculiarly organized order. He called it the society of Jesus, in consequence of a rision, and bound the members, in addition to the usual vows of porerty, chastity, and implicit obedience to their superiors, to a fourth, viz. to go, unhesitatingly, and without recompense, whithersoever the pope should send them, as missionaries for the conversion of infidels and heretics, or for the service of the church in any other way, and to devote all their powers and means to the aceomplishment of the work. The novices, besides spiritual excrcises, were to be proved by performing the most menial offices for the sick, Xavier having given the example by sucking the loathsone sores of the sick in the lospitals. A special bull of Paul III, in 1540, established this society, whose object appeared so favorable to the interests of the papal power ; and in the following year, the members, assembled in Rome, close their founder for their first general. He showed hiniself, however, unequal to the management of great affairs. As general, he was ever pursuing secondary objects, while his learncd and more sagaeious fricuds, especially L inez, who was his constant companion, contrived to improve and carry out lis rude plans for the advancement of the socicty. The popes Paul III and Julius III, secing what a support they would have in the Jesuits against the refonnation, which was rapidly gaining ground, granted to them privileges such as no body of men, in church or state, had ever before obtained. They were permitted not only to enjoy all the rights of the mendicant and secular orders, and to be exempt from all episcopal and civilojurisdiction and taxes, so that they acknowledged no authority' but that of the
pope and the superiors of their order, and were permitted to exercise every priestly function, paroehial rights notwithstanding, anong all classes of inen, even during ar interdict,-but also (what is not even permitted to the archbishops unconditionally), they could absolve from all sins and ecclesiastical penalties, change the objects of the vows of the laity, acquire churches and estates without further papal sanction, erect houses for the order, and might, according to circumstances, dispense themsclves from the observance of canonical hours of fasts and prohibitions of meats, and even from the use of the breviary. Besides this, their general was invested with unlimited power over the meinbers; could send them on missions of every kind, even amongst excommunieated heretics; could appoint them professors of theology at his discretion, wherever he chose, and confer academical dignities, which were to be reckoned equal to those given by universities. These privileges, which secured to the Jesuits a spiritual power almost equal to that of the pope himself, together with a greater imınunity, in point of religious observance, than the laity possessed, were granted them to aid their missionary labors, so that they might accommodate themselves to any profession or mode of life, among heretics and infidels, and be able, wherever they found admission, to organize Catholic elurches without a further authority. But the latitude in which they understood their rights and immunities gave occasion to fear an unlimited extension and excreise of them, dangerous to all existing authority, civil and ecclesiastical, as the constitution of the order, and its erection into an independent nonarchy in the bosom of other governments, assmmed a more fixed character. A general dispersion of the members throughout society, with the most entire union and subordination, formed the basis of their constitution. The society of Jesus was accordingly divided into several ranks or classes. The noviees, who were chosen from the most talented and well educated youths and men, without regard to birth and external circuinstances, and were fried, for two years, in separate no-vitiate-houses, in all imaginable exercises of self-denial and obedience, to determine whether they would be useful to the purposes of the order, were not ranked among the actual members, the lowest of whom are the secular coadjutors, who take no monastic vows, and may therefore be dismissed. They serve the order partly as subalterus, partly as confederates, and may
be regarded as the pcople of the Jestit state. Distinguished laymen, public officers, and other influential personages (e. g. Louis XIV in his old age), were sometimes honored with admission into this class, to promote the interests of the order. Higher in rank stand the scholar3 and spiritual coaujutors, who are instructed in the higher branches of learning, take upon them solemn monastic vows, and are bound to devote themselves particularly to the education of youtl. These are, as it were, the artists of the Jesuit community, are employed as professons in academies, as preachers in cities and at courts, as rectors and professors in colleges, as tutors and spiritual guides in families which they wish to gain or to watch, and as assistants in the missions. Finally, the nobility, or lighlest class, is made up of the professed, amongst whom are admitted only the most experienced members, whose address, encrgy and fidelity to the order have been eminently tried and proved. They make profession, i. e. take the vows of their order, by binding themselves, in addition to the common monastic vows, by a fourth vow, to the undertaking of missions; and, when they are not living together in pious ease in their professedhouses, they serve as missionaries among heathens and heretics, as governors of colonies in remote parts of the world, as father-confessors of princes, and as residents of the order in places where it has no college. They are entirely exempt, on the other hand, from the care of the education of youth. None but the profcesed have a voicc in the election of a general, who must himsclf be of their number, and who has the right of choosing from them the assistants, provincials, superiors and rectors. The general holds his office for life, and has his residence in Rome, where he is attended by a monitor and five assistants or counsellors, who also represent the five chicf nations,-the Italians, Germans, French, Spanish and Portuguese. He is the centre of the government of the whole order, and receives monthly reports from the provincials, and one every quarter from the superiors of the professed-houses, from the rectors of the colleges (which are the monasteries of the order, but with nothing very monastic about them), and from the masters of the novitiates. These reports detail all remarkable occurrences, political events, and the characters, capacities and services of individual members, and thereupon the gencral directs what is to be done, and how to make usc of tried and approved
members. All are bound to obey him implicitly, and even contrary to their own convictions. There is no appeal from his orders. He may even alter particular rules of the society, expel menblers without trial, or exile thein ly sending them a way to some distant place, and infliet or remit punislments at his pleasurc. Iguatius Loyola, who died July 31, $1550^{\circ}$, at Rome, Ieft to the order the sketcli of this constitution, and a mystical treatise called Exercitia Spiritualia (Spiritual Exercises), the use of which was formally introduced among the Jesnits, and occupies the first four weeks of every novicc. This pious cuthusiast, but by no means great nraul, obtained a lasting fane, and the honor of canonization (1622), by the rapid increase of his order, which, as early as 1556 , numbered 1000 members in 12 provinces. The first was Portngal, where Xavier and Rodriguez, at the invitation of the king, had founded colleges. The increase of the Jesuits was no less rapid in the Italian states, where they were supported by the influence of the pope; in Spain, where they were, at first, opposed by the bishops, but soon prevailed through the example of the nobility, especially of one of the most powerful grandees, Francis Borgia, duke of Candia, who became an Inighist (as the Jesuits were called in Spain, after their founder, Inigo); and in Catholic Germany, where Austria and Bavaria granted them privileges and foundations. At the universities of Vienna, Prague and lugolstadt, they obtained an ascendency which they lield for two certuries. In their strict hierarchical principles, in their restless, zealous activity, and in their success in making converts, the Catholic princes, as well as the pope himself, found the most effectual barrier against the growing power of Protestantism. Even to the cominon people they soon recommended themselves, as the offspring of the new spirit of the times, and were, therefore, readily favored by persons who were ilfdisposed to the monks. For institutions which would not adopt the tendency of the age towards practical improvement and a more cheerful tone of conduct, could no longer succeed, after the restoration of learning and sound reasoning; the excited world preferred business to contcmplation, and the mendicant monks, who had every where pushed themselves into notice, had passed their most splendid epoch. Those who disliked the Franciscans as too coarse and vulgar, and the Dominicans as too rigid and gloomy, were the better pleased with the polished,
cheerful and social Jcsuits. Nobody could accuse them of idle brooding in prayer and psalm-singing; ceen in the houses of the professed, the canonical hours were not observed; they no where remained long at their exercises of devotion, even as the spiritual guides of the laity; they carefilly a voided all appearance of spitual pride, and dressed like the secular clergy, and might even change this dress for the ordinary garb of the country, in places where they thought to gain casier entrance without any sueh mark of distinction. Besides this, they were directed to use a gentle done:mor while engaged in their religious or political operations; to win men by compliance with their peculiarities ; never to contend openly, oven against declared enemies; and never to betray any passion; but to keep their views and measures sceret, and, muder a show of coldness and reserve, to prosecute the more ardently and constantly, in sceret, what might have exeited opposition if made public. This spirit of worldly poli« y , and aecommodation to circumstances, was prineipally derived from the artful principles of their second general, James Lainez, who had the address to soften what was austere and monastic iu the regulations of the founder, and to a lapt then, according to the circumstances of the times, to the object of the socicty. This wats origimally nothing else but the preservation and establishment of the papal power against all the attacks of Protestantism, of kings, and national bishops. To this end the Jesuits systematically labored, under the pretext of promoting religion or the honor of God (In majorem Dei glorictm , as the inscription is on their arms); aml, as nothing appeared more conducive is their purpose than the subjection of the mind and of public opinion, they gained dominion over the young by the establishsnent of schools, and over the adult by confession, preaching, and the common intercourse of society. When Lainez died, in 1564, this systenn, and the aetive, energetic spirit belonging to it, had already become decidedly fixed in the internal character of the order, so that the example of monastic derotion licld up by his successor; Francis Borgia, who was atterwards canonized, and the efforts of popes Paul IV and P'ius $V$ to restore the ohservation of the cunonical hours, proved incffectual. The succeeding popes and generals allowed the order perfect frecdom from all monastic constraint, and the wisclom of its system soon appeared crident in the important successes and ser-
vices which it accomplished. Their foreign missions, begun by Francis Xavier, in the Portuguese East Indies, in 1541, were attended with vast and muprccedented success, if their own accounts may be trusted. He converted, with the aid of his fellow inissionaries who were sent to assist hinn, some hundred thousands to Clristianity in Goa, Travaneore, Cochin, Malacca, Ceylon, and even in Japan, and died (1551) on his way to China, with the fane of a true martyr for religion, which gained for him the name of the apostle of India, and the honor of canonization. His, triumphs over heathenism were confirmed by the cruelties of the inquisition at Goa, while other Jesuits weut to Soutli America, and labored successfully in the civilization and subjugation of the natives in Brazil, and in the neighboring country of Paraguay. (q. v.) Afriea alone resisted their efforts; on the western coasts they never gaincl a settlement, and from the east they were driven by the Copts ; while the Abyssiniuns, whom they had governed for a long time with the aid of Portugal, rose against them, and put them to death. But in Europe, their influence rapidly increased. Their efforts were chiefly instrumental in removing the impressions, so dangerous to the Catholic church, which the refornation had left even in Catholic countries. They carried out upon a grand scale, and for the ligher classes, the improvements in the system of instruction, which had been already begun by the Barnabites, the fathers of the Christian doctrine, those of Somasquo and of the oratory, and, finally, by the Piarists, for the humbler classes of the community. Claudins Aquaviva, of the family of the dukes of Atri, general of the Jesuits from 1581 to 1615 , was the author of their system of clucation, and his work, Ratio et Institutio Studionum Societatis Jesu, is the platform of the far-fumed schools of the Jesuits. These were partly boardingschools for boys of all classes, and partly scminaries for those youths who were iutended for the order, in which they staid till their cutrance upon their novitiatc. The scholars (so called) and coadjutors, living together in the colleges, gave instruction by methods well suited to the wants of the young, and aecompanied with surprising success, so as to be considered as wortly of imitation even in the 18th century. $\dot{A}$ free, affable and affectionate manner towards the pupils, united with muceasing vigilance and a wise solicitude for the preservation of their innocence and virtue, distinguisheil theso
above all other monastic schools. Love and confidence prevailed in them. To excite emulation, and to animate industry, they had public exercises in speaking, and distributed prizes and titles of distinction. To strengthen and develope the body; gymnastic exercises were introduced, and even the outward demeanor and address were polished by theatrical representations. It is true that these last, which were intended to allure the public, and the miserable Latin which the pupits were often obliged to speak in the plays, were not the bright side of the Jesuit schools. The want of deep critical learning, and the arbitrary mutilation of the old classics for the use of the young, exposed the Jesuit teachers to the censure of the philologist. Nevertheless, the schools had an uncommon success, as the best of that time. A single college frequently had several hundred scholars; the young nobility were almost exclusively sent to them, and even from Protestant countries, so that the Protestants found it nccessary to establish lyceums and academies for the gentry, of a character suited to the higher demands of the age. The Jesuits derived the greatest advantage from these institutions, by being enabled to choose the brightest geniuses at an early age, and mould them to their purposes. This explains how the society of Jesus was ablc to render important scrvices to the cause of literature and science. Such Jesuits as Serrarius, Petavius, Sirmond, Tursellinus, Bellarmin, Balde, Mariana and Flechier advanced the sciences of history and geography, the study of language and rhetoric, even beyond the limits of their own order and church. Scheiner and Boscovich were eminent in mathematics and astronomy. No men understood better than the Jesuits the art of showing off, to the best advantage, their really valuable services; the world could not but acknowledge then to be improvers and benefactors of their age. Accordingly, their houses and possessions visibly increased, their churches and confessionals were not empty; they contrived, too, with much address, to obtain legacies and presents, and to seize upon evcry advantage which pious credulity and the extent of their connexions presented them. They would not allow their internal constitution to be inquired into or imitated; and when, in 1623, a number of euterprising females in Italy, and on the Lower Rhine, formed a plan of uniting into an order, under the name of the Jesuitines, to be modelled after the society of Jesus, they repulsed
all the advances of their would-be sisters, and, in 1631, procured a papal decree for the abolition of the new order. But int Fingland, and the Protestant states of the North, they were not so successful, their repeated attempts to establish themselves there proving fruitless. In 1618, however, the number of members amounted to 13,112, in 32 provinces, without including those in France, the Rhenish provinces, and the Netherlands, Poland and Lithuania, Spanish Aınerica, the Philippines and China. Elated with this success, they celebrated, in 1640, under general Vitelleschi, the centennial anniversary of their order, with great pomp. There were some circumstances, however, to damp their cxultation; for, notwithstanding the great favor which they enjoyed at court and among the people, the non-Jesuit clergy and the learned men of the age soon discovered the mischicf which the society was beginning to do through Christendom. The universities, bishops and clergymen found their intercst opposed to that of the Jesuits, whose privileges, wherc they were carried into effect, would be neccssarily injurious and oppressive to the body of teachers and the clergy. The ancient orders of monks, whose hatred they had excited by their encroachments on their province, as much as by theis good fortune, found subject enough for complaint and bitter accusations in the duplicity and worldliness of their conduct. They made no scruple of invading what lad been regarded as the appropriate province of other orders, and were on the best terms with the Carthusians, who, on account of their vow of silence, were the only ecclesiastics, out of their own body, to whom the Jesuits were permitted to make confession. Their busy, intriguing spirit made them the objects of suspicion and jealousy to statcsmen and jurists, on account of their interference in political affairs, the mischievous cffects of which were alrcady manifest in Portugal, under the reigns of John III and Sebastian, their pupils, and, after the death of the latter, were a principal cause of the surreuder of this kingdom to the Spanish crown. For this reason, the parliament and higher clergy of France, for 20 years, resolutcly resisted the attempts of the Jesuits to gain a footing in that country. The university of Paris also declared the whole order to be useless, and its existence incompatible with the rights of the Gallican church. It was owing chiefly to the favor of the court, that they at last, in 1562 , were admitted into France under the name of
fathers of the college of Clermont, with a humiliating renunciation of thcir most important privileges. Notwithstnnding this depressed condition, they soon contrived to establish themeclves in Paris and the southern and western provinces, and, during the civil commotions, under the protection of the Guises, to deprive the French Protestants of their rights, gradually to establish their privileges, and to maintain their footing, in spite of the suspicions entertained of their having had a share in the murder of Henry III. They wcre banished, indeed, in 1594, on account of the attempt upon Henry's life by their pupil, John Chatel; yet they still resnained undisturbed in Toulon and Bourdcaux, and, at the intercession of the pope, were agaih received by Henry IV, in 1603. They soon, in their office of court-confessors, carried on the same intrigues as before. Their participation in the crime of Ravaillac, though exceedingly probable, could not be proved against them; they themselves joined in condemuing the book in which the Spanish Jesuit Mariana defends the king's assassination, and, by cunning and obsequiousness towards the court, prescrved themselves undisturbed. Thcy made themselves still more important to the Gcrinan empire, when they became the confidential advisers of Fcrdinand II and III. They discovered remarkable political talent in the thirty years' war; the league of the Catholics could do nothing without them. Father Lamormaim, a Jesuit, and confessor to the emperor, effected the downfall of Wallenstein, and, by means of his agents, kept the jealous Bavarians in their alliance with Austria. But, while they were thus successful, as statesmen, in this part of Europe (though they failed in preventing the triumph of toleration at the peacc of Westphalia), a new storm burst upon them, in France and the Netherlands, from the Jansenist controversy. The ancient hostility of the university of Paris, which had always been strongly averse to the admission of the Jesuits as teachers, rose up, in union with the rigid morality of the Janscnists, against the notorious semi-Pelagianism of Molina and his brother Jesuits. (See Grace, and Jansenius.) The character of the Jcsuits received a fatal wound from the pen of Pascal, whose famous Provincial Letters exposed the mischievous doetrines and practices of the Jesuits with admirable wit and argument, to which they opposed little but abuse and violence. Thicse letters, which have been published in numerous editions since

1656, were read through all Europe, and thcir testimony quoted in the sentence of condemnation pronounced by Innocent IX, in 1679, against 65 offensive propositions, mostly of Jesuit casuists. But it availed them little that royal decrees and papal bulls, procured by the Jesuit eonfessors of Louis XIV (La Claise and Le Tellier), were ievelled against Jansenism, and its ruin completed by the well-known constitution Unigenitus. In the minds of rcflecting and well-disposed persons, they still remained suspected of an attachment to the principles of their most eminent casuists, attacked by Pascal-principles which afforded the most startling solution of their crafty and ambiguous conduct. A lax morality, accommodated to the inclinations of a licentious age, which made interest and external circumstances the rule of conduct, and consecrated the worst means for a good end; thcir probabilism, -a aystem of principles and rules of life which tolcrated every thing that could be defended as probably admissible; their cxcuses for perjury and crimes of all kinds, sometimes by arbitrary perversion of language, sometimes by ambiguous expressions and perplexing interpretations, sometimes, too, by mental reservations, according to which a man had only to think differently from what he said and did, to be justified, in his own sight, from the grcatest crimes;-these, and other traits of a like nature, may be more fully and accurately learnt from the letters of Pascal, or the writings of the Jcsuits, Sancliez, Bauny, Escobar, Suarez and Busembaum. Their own defences against these charges only confirned the suspicion excited against their system of morals, while they palliated and conceded a part where the whlole was culpablc. Other accusations were now brouglit against them, which they were still less able to repel. Thicir superficial mode of instruction, and the theatrical disorders of their schools, had becn already condemned by Mariana, a learned Spanish Jcsuit ; the gross selfishness of the order had been publicly exposed in Sciotti's Monarchia solipsorum; the indifference with which they permitted thcir heathen converts to continue their old worship of idols, on condition of their mentally adoring, at the same time, Christ and the virgin Mary ; and their want of agreement with the other missionaries in Clina, had been warmly, but ineffectually, eensured by several papal bulls. Their conduct, too, was now and then discovered to harmonize too well with their indulgent code of ethics, as

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they were not always prudent enough in the commission of their excesses; and it was for this reason that the Iroquois, who had been converted by them, expressly stipulated in a treaty of peace ( 1682 ) for the removal of these licentious brethren, who did every thing that Jesus did not do. It was even found necessary to expel them fiom some of the Italian states for their licentiousness; and the horror which was felt through Europe at the trial of the Jesuit Girard, for the alleged violation of Cadiére, an innocent girl, at the time of confession, is hardly yet forgotten. It was now beconing, every day, more evident to the world, that the Jesnits were not aiming to promote virtue and religion, but their own interests. This was confirmed by the complaints of merchants at the extensive traffic of the society of Jesus in the products of their foreign missionary stations. It cannot be denied that the republic of natives, formed by them, under the authority of Spain, in Paraguay and Uraguay, in which they ruled with absulute power, and which, in 1753, contained nearly 100,000 subjects, was conducted by them with consnmmate policy and skill, and was, perhaps, the best means for civilizing those savages; but that they made it also a trafficking establishment for the emolunent of the order, was shown ou occasion of a treaty of commerce, by which Spain, in 1750, gave up seven districts of this country to Portugal. The resistance whieh the natives nade to the Portuguese, with an army of 14,000 men, commanded by Jesuits, finally obliged the contracting powers to annul the treaty. The Portuguese Jesuits, though they disclaimed all concern in this affair, undervent a prosecution, which was not terminated, when an attempt upon the life of the king of Portugal hastened their downfall. The minister Pombal inade out their agency in this attempt to a high degree of probability, and finally succeeded, in 1759, in expelling them from Portugal, and confiscating their possessions, by an edict, in which the king declared them guilty of ligh treason. Before this first blow, the order consisted of 24 professed-houses, 669 colleges, 176 seminaries, 61 novitiate-houses, 335 residences, and 273 missions in heathen and Protestant countries, and 22,589 members of all ranks, half of whom were ordained priests. In France, where Choiseul and Pompaaiour were unfavorably disposed towards them, their ruin was occasioned by the trade which they continued to carry on, in spite of all the pope's orders to the con-
trary. In 1743 , they liad cetablished a trad-ing-house at Martinique, by their deputy, father La Valette, under pretence of a mission, which soon monopolized ncarly the whole trade of that and the neighboring islands, and had commercial connexions with the principal merchants of France. It happened that two ships, with a cargo valued at two millions, which had been sent by La Valette to pay the honse of Lioney, at Marseilles, fell into the hands of the English. The Jesuits refusing to make any indemnification for tho loss, the above-mentioned house brought anl action against them, which terminated in the sentencing of the former to make full reimbursement, and was the means, also, of bringing to light other abuses of the order. Lorenzo Ricci, their general, refusing to make any clange in their constitution, by the declaration, Sint ut sunt, aut non sint (Let them be as they are, or not be), the king issued a decree, in 1764, for abolishing the order, in all the French states, as a mere political society, dangerous to religion, whose object was self-aggraudizement. In vain did Clement XIII, in a bull issued at the same time, recommend the Jesuits as the most pions and useful members of the church. They were also driven out of Spain, in 1767, and soon after from Naples, Parina and Malta, hy the efforts of Choiseul and the Spanish minister Aranda. The voicc of public opinion at length compelled pope Clenent XIV to publish his famous bull, Dominus ac Redemptor noster, of July 21, 1773, by which the society of Jesus was totally abolished in all the states of Clristendom. These measures were every where executed with a quick and strong hand, because a formal process would have given time for a formidable opposition. Yet their most important treasures and documents were alrcady taken out of the way, as it is supposed, and their archives and coffers did not satisfy expectation. Ricci, who might have averted this fate by making some concessions towards a change in their constitution, protested the innocence of the order, which was bound to regard every thing which came from him as necessarily right and obligatory; but, in fact, the great infringements on the natural rights of others, incompatible with every well-ordered church or state, which were in a manner legalized by their privileges, rendered the existence of such a body in a state a political solecism. Unquestionably the world had much reason to rejoice at their fall, although a great part of the members were
entirely innocent; and their former services will always be gratefully rememhered. The ex-Jcsuits, however, suffered no further penalty than being obliged to quit their houses, lay aside the garb of their order, renounce all intercourse with one another, and either enter some of the other orders, or put themselves under the superintendence of the bishops. They received annuities from the revenues of their confiscated estates, except in Portugal. In this kingdom, and in Spain, the ex-Jesuits were also prohibited from residing in the country ; while, in the States of the Church, in Upper Italy, and in Germany, where they were treated with the inost forbearance, in Hungary, Poland, and even in France, they were suffercd to remain as private persons. Frederic II, indeed, would not join in the general expulsion of the order, in order to gratify his Catholic subjects in Silesia, to retain a school-establishment which cost him nothing, and to keep a productive source of revenue. Neverthcless, the Jesuits in the Prussian states were obliged to give up the garb of thcir order, and to renounce their constitution. Under the name of the priests of the royal school-institute, they were henceforth confincd to the office of instructing youth; and even this institution was abolished by Fredcric William II. Russia was now the only country that remained to them. Peter the Great had expelled them from lis empire as early as 1719; but, in 1772, sevcral houses of their order fell, with the eastern part of Poland, under the dominion of Russia. Catharine spared them, even after the abolition of the order, out of regard to her Catholic subjects, and on account of the usefulness of their schools. The patronage of Czernitscheff and Potemkin enabled them to obtain permission to erect a novitiatehouse in 1779, and in 1782 to choose a vicar-general. Meanwhile, circumstances had taken a favorable turn for them in Rome. Clement XIV died 1774, and his successor soon showed limself the friend of the society, which was yet very far from being extinct. The ex-Jesuits, who were deprived at once of their offices by the decrees of abolition, having been condemned unheard, still remained respectable clergymen, who had powerful friends in all classes, and were intrusted with important stations in the church and offices of instruction. In the year 1780, there were 9000 of them out of Italy, who wcre thought to maintain a constant union, under private directors or superiors; they were also thought to liave possessed them-
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selves of the secrets of the Rosicrucians, and to have taken a part in the schemes of the Illuminati. They were charged, moreover, with a plot to destroy Protestantism. But the clamor against them was, no doubt, often unfounded. By Jesuitism was still understood, not only the opposition to all ideas and institutions unfavorable to the Roman church, but also the sly and insidious arts of intrigue, the acting according to the principle that "the end sanctifies the means," the concealed movements of a manceuvring ambition, under the mask of piety and derotion to the public good, which had become a second nature with many of the followers of Loyola. Undaunted by these assaults of an often unjust prcjudice, the exJesuits, firmly united to each other, wcre hoping in the meanwhile for the restoration of their order, on which, according to their belief, the welfare of mankind depends. An attempt, in 1787, to revive their order, under the name of Vicentines, was unsuccessful. The fathers of the faith, an ecclesiastical order founded by Paccanari, a Tyrolese enthusiast, and formerly a soldier of the pope, under the patronage of the arch-duchess Mariana, was composed mostly of Jesuits, and put in operation at Rome, by the aid of the easily persuaded pope, as a new form of the society of Jesus, under altered regulations; but they were never recognised, by the secret superiors of the ancient Jesuits, as their brethren. The plans of the Jesuits were aided by Pius VII. He established their order in White Russia and Lithuania, where it continued in operation, but confined to offices of teaching and priestly duties, under the vicar-general, Daniel Gruber ; and silently restored them, in 1804, in the island of Sicily, whiclı was entirely separated from Europe by the fate of the continent. Hence it excited no surprise, among observing men, that this pope, who, in 1806, had canonized a Jesuit, sloould make use of the first opportunity to revive the order. The bull issued to this effect (Solicitudo omnium, Aug. 7, 1814), speaks of urgent entreaties and a general desire of the Christian princes and bishops for the restoration of the society, which restoration it calls a repristination, thereby intimating that it would appear ayrain in preciscly the same forn in which it had fallen. Accordingly, the novitiate at Rome was solemnly opened, Nov. 11, 1814, and about 40 men, mostly emincut for rank and attainınents, liave since been admitted. In 1824, they took possession of the collegium Romanum in that city.

In 1815, a college was granted them at Modena, and they did not delay to accept the invitations of the kings of Sardinia, Naples and Spain. Ferdinand VII (May 29,1815 ) reinstated them in the possession of all the privileges and property which had been taken from them in 176\%. He subsequently appointed St. Ignatius cap-tain-general of the Spanish army, and conferred on him the grand cross of the order of Charles III. The IIelvetic canton of Friburg, also (Sept. 15, 1818), restored the old Jesuit college, formerly established there, for the instruction of youth. The Spanish revolution of March, 1820, was followed by their banishment from the kingdom; but they were restored again at the reëstablishment of absolute power in 1823. Thus, in the conduct and the fortunes of the order, have been fulfilled the prophetic words of their third general, Francis Borgia: "Like lambs have we crept into power; like wolves have we used it, like dogs shall we be driven out, but like eagles shall we renew our youth." Portugal alone steadfastly adhered to its ordinance of Sept. 3, 1759, which banished the Jesuits out of the kingdom. Germany has hitherto refused to admit them; but the Paccanarists and Redemptorists in Austria have much in common with this society: some of the Jesuits, indced, were allowed to take refuge there, after their banishment from Russia, but were commanded, in 1825, on pain of exile, to acknowledge the arehbishop of the province as their supreme head. In France, the ultra-royalists succeeded in causing their presence to be comnived at, and they already had congregations and seminaries at Montrouge, St. Acheul, \&c., previons to the late revolution. In Russia, where they had been expelled by Peter the Great, and readmitted by Catharine II, it appeared that they were using their endeavors to win over the sons and daughters of distinguished families to the Catholic church, and they were banished in consequence, by an ukase of Jan. 1, 1817, from Moscow and Petersburg. But, still carrying on their proselyting schemes, and making themselves obnoxious to the government by secret intrigues of all sorts, an innerial ukase of Marelı 25, 1820, abolished their order forever in Russia and Poland, and provided that the whole body of its meinbers should be transported beyond the boundaries of these two comntries, at the expense of the government, having regard to the age and bodily condition of individuals; that the valuable estates of the order should be confiscated,
and the academy at Polotzk abolished. In Fingland, the tolerating spirit of the British constitution has permitted then, for the last 30 years, to have a college at Stonyhurst, near Preston in Lancashire, with an acadenty of 500 pupils, and several smaller boarding-schools, from which they carry on with suecess, the propagation of the Catholic faith. (See Dallas's History of the Jesuits, London 1816.)* They have also three colleges in liedmont, one in Ferrara, one in Ireland, one in Friburg in Switzerland, and two colleges in the United States, one in Georgetown, in the district of Columbia, the other at St. Louis, Missouri. The Jesuits have outlived their power; the age rejects them. The world is ruled by a spirit with which this fraternity, now inconsiderable in point of numbers, talent and imfluence, could not keep pace. The sagacious statesinen of the present day need not to be reminded of the answer of Maintenon, the mistress of the great patron of the Jesuits, who, on having chosen Lazarists for the spiritual guides of her pupils at St. Cyr, was asked why she had not taken Jesuits; " Because," sle replied, "I would be mistress in my own house." The order originated in a wise view of the stato of the world on the part of leading Catholies, who saw that the rapid advances of the Protestants in learning and science would soon throw the old system of igniorant mendicant orders into contempt. They therefore trained a new race of combatauts for the church in the usc of intellectual weapons; but the advantages, which they thus obtained originally, have been lost in the general spread of intelligence, and the Jesuits are now considered as a part of the old regime, and no longer influence public opinion. Their conduct of late years in France has not tended to restore their popularity. The disposition to adapt thenn to the new order of things, however, has been shown in the aequittal, by the court of Rome, of two Jesuits charged with having spoken well of republics, on the ground that, being citizens of the U. States, they had a right

[^8]to defend republican prineiples. A Universal History of the Jesuits was published by Wolf (second edition, Leipsic, 1803, 4 vols.). An important historical work, drawn from the first sources, appeared at Leipsic, in 1820, called Catechismo dei Gesuiti (Catechism of the Jesuits). The Monita secreta Societatis Jesu (Paderborn, 1661) have been repriuted in Latin and German, at Aix-la-Chapelle, 1825 , with a report of M. Portalis, respecting the Pères de la Foi. The genuineness of these Monita, \&c., however, is not fully established. See, also, Hist. des Confesseurs des Empereurs, des Rois, \&c., by M. Grégoire (Paris, 1824); also Précis de l'Histoire générale de la Compagnie de Jésus, suivi des Monita secreta, by Arn. Scheffer (Paris, 1824); De Pradt, Du Jésuitisme ancien et moderne (Paris, 1826); and Les Jesuites modernes, by abbé Marcial Marcet de la Rochc Arnauld, formerly a Jesuit (Paris 1826). (See the following article.)
Jesuits [written by a Jesuit. In the preceding article, the opinions of the opponents of the Jesuits are given, and we propose now to give a brief outline of the views of the Jesuits themselves respecting their order, taken from the artiele Jesuits, written by one of this society, for the Con-versations-Lexicon].-The middle ages had ended. It was no longer a question whether the exereise of simple faith was sufficient; societies formed for the contemplative life-the monks-could, in future, have but a subordinate value for the church: the question was now, how to find effectual means to save the Catholic religion and church against the attacks of the spirit of innovation. As action, in the natural world, always produces reaction, so is it in the moral world. A new order originated in the church-the Jesuits. It is true, the intention of Ignatius Loyola was originally directed ra her to mystic and ascetic contemplations; but the order soon took a shape adapted to the wants of the church. Ignatius Loyola was a Spaniard of a very warm imagination and great sensibility, which early awakened in him a zeal for religion. After having served against the infidels, he founded a religious society. In the convent of Montserrat, in an almost inaccessible wilderness of Catalonia, he copied the rules of a holy life, which an abbot, cousin to cardinal Ximenes, the minister of state, had prescribed. The inflamed mind of Ignatius saw Mary, the mother of Jesus, in a vision: she gave him the power of chastity. Jesus and Satan appeared to him in the form of military officers enlistiug men for
scrvice: he followed Christ. The order was founded in 1540. After the death of the founder, the society was further developed by Lainez, and, after him, by Aquaviva, men of deep knowledge of mankind, and steadfast purpose, the real authors of the society, which, as John Müller said, deserves to be compared with the great institutions of the lawgivers of antiquity The object of the society was, as it is described in their constitutions, to devote all their powers to the salvation and perfection of their souls and those of their neiglibors, and to occupy themselves for this end in all places, according to the direction of their superiors. The society designated their object by the motto of Ignatius-Omnia ad majorem Dei gloriam. Severe trials, constant inspection, unconditional obedience in permitted things, insured the intimate union of the society, as well as the ability and purity of its members. A strictly decorous exterior was enjoined. No Jesuit was allowed to confess a woman, except in the presence of another Jesuit. Money a Jesuit never was allowed to take for masses. The seat of the society was in so far in Rome, as the general of the order resided there, with the committee of the society, and the monitor, who, totally independent of him, controlled the general as if he were his conscience. The order was divided into provinces, each of which was superintended by a provincial. Under the care of these officers were the professed-houses, with each a prepositus at its head, and the colleges, with eaeh a rector. In the latter, there were also novices. The nutual dependence of all parts of the system resembled the strueture of a well-built fabric : the relations of subordination were so ordered that the society was simplex duntaxat unum, without interrupting the free will of the individual, who only had to obey in permitted things. The Jesuits were active, first, as teachers of youth. Lord Bacon says of them, that, when he considered the assiduity with which they gave themselves to the cultivation of science and the inaintenance of pure morals, he always thought of what Agesilaus said to Pharnabazus, "As thou art such, I wish thou wert one of ours;" and that, in regard to the method of teaching, the Jesuit scliools ought to be taken for inodels, because, of every mode which had been attempted, none was so good as theirs. Thus far Bacon. But what gave the greatest value to their mode of education was, that with them, religion ruled over every thing: they formed Catholic Christians
of a sound mind, not unsettled spirits, like the youth of our times. Their care for the purity of youth was remarkalle; and ought they to be reproaelied because, with this view, they mutiated the elassies? A chief otjeet of the Jesuits was the defence of the clureh against Protestantism. There is no doubt that the reformation would have spread much farther, had not the Loyolites fought for the church. If they were thus anxious to preserve Catholic souls, on the other hand they were not less active to propagate the gospel in distant countries. They took the usual vows of the orders-chastity, poverty and obedience; the latter in so extended a sense, that they were willing to go on any missions. With apostolie zeal, they devoted themselves to the task of converting the heathen. In the heart of Asia, in Japan, and on the Moluccas, they ereeted the sign of the erucified Redeem$e r$, and preaehed the doetrines of the gospel: they taught it in China, in both the Indies, in Æthiopia, and among the Caffres. When the churelı was persecuted in Japan, the Jesuits all became martyrs. One only, Christopher Ferreira, wavered. Exhausted by long continued torments, and by the expeetation of still greater ones, he, in a weak hour, was indueed to suerifice to the Japanese gods. But hardly had the news of this deplorable event arrived in Europe, when Jesuits from all the provinces offered themselves as missionaries to Japan, and begged for permission to go there as a favor. Their objeet was either to bring baek Ferreira to the eluurch and the order, or to wash out, with their own blood, the stain of his ignominy. All who were now sent to Japan suffered martyrdom immediately. Ferreira's conseience was soon awakened again : he repented, and went before the magistrates, acknowledging himself a Christian. He was tortured for eight days, in every possible way, and was at last sunk into the Japanese den of death, where, after seven days, death put an end to his torments and repentance. In the other hemisphere, the Jesuits penetrated into the North. The Hurons were eivilized, and Canada ceased to be the residence of barbarians only. Others eivilized other tribes in the incłement California, and united them into Christian communities.* At the same time, others traversed

[^9]the regions north of Mexieo, inhabited by wandering tribes, whom 110 nimissionary had ever visited before. Others continued the work of conversion in South Ameriea, iu Brazil, P'araguay, \&e. In this region, where the Spaniards liad done nothing but murder and pillage, the Jesuits restored humanity to its rights, and brought the European name once more to honor. Their state Paraguay was one of the most beautiful creations in history. Whatever poets and philosophers have fabled of the golden age and the world of innoeence, the Jesuits, as Raynal says, realized in a distant zone. Raynal, certainly an unsuspected witness, observes, " Perhaps so mueh good has never been done to men with so little injury. The people of Paraguay had no civil laws, because they knew of no property ; nor had they criminal ones, because every one was his own aecuser, and voluntarily submitted to punishment. Their only laws were the preeepts of religion. There was no distinetion of stations, and it is the only society on earth where men enjoyed equality. None were idle, or fatigued with labor. The food was equal, in wholesomencss, plenty and quality, for all the citizens; every oue was conveniently lodged, and well clothed; the aged and the siek, the widows and orphans, were assisted in a manner unknown in other parts of the world. Every one inarried from choice, and not from interest, and a number of eliildren was considered as a blessing, and eould never be burdensome. Debauchery, the neeessary consequence of idleness, which equally corrupts the opulent and the poor, never tended to abridge the duration of liuman life; nothing served to excite artificial passions, or contradieted those that are regulated by nature and reason. The people enjoyed the advantages of trade, and were not exposed to the contagion of vice and luxury. Plentiful magazines, and a friendly intercourse between nations united in the bonds of the same religion, were a security against any scareity that imight happen from the inconstancy or inclemency of the seasons. Public justice had never been reduced to the eruel necessity of condemning a single malefactor to death, to ignominy, or to any punishnent of long duration; and the very names of taxes and lawsuits-those two terrible seourges whieh every where else afflict mankind-were unknown." It will not now surprise us, that Montesquieu, in his Espr. des Loix (liv. iv, ch. 6), Buffon, in his Contemplations on the Variety of Human Races, Albert von

Haller, in his miscellaneous treatises on several subjects of politics and morals, Robertson, in his classical History of Charles V, and Muratori, mention, with enthusiasm, the services of the Jesuits as missionaries. Respecting the service which they have rendered to science, there is alinost but one voice. No branch was excluded from their care. In theology, they were distinguished teachers: yet their enemies-and they had many, not only among the Protestants, but ainong the Catholics, and among these latter the most vehement, because of their great privileges, their freedom from the monkish spirit, and their great acquirements-lave reproached thein with maintaining many odious opinions. They are said to have defended the murder of tyrants. No charge could be more false. Even 126 years before the foundation of the order of Jesuits, John Petit, doctor of the university of Paris, asserted, without any qualification, the legality of the murder of a tyrant. The cause was the murder of the duke of Orleans, in broad day, in the streets of Paris, at the instigation of the duke of Burgundy, his competitor for the regency of the realm during the insanity of Charles VI. Jolin Petit wrote a defence for the duke of Burgundy, in which he defends this horrid act, on the ground that the murder of tyrants is justifiable. The archbishop of Paris condemned this publication; but several French theologians, among whom there were even bishops, defended John Petit's doctrine; and when, some years after, Chalier, a doctor of the Sorbonne, denounced Petit's doctrine, at the council of Constance, before the assembled fathers, Martin Porre, bishop of Arras, defended it as being a doctrine which had been maintained by many leurned men and theologians without contradiction. The council was at first undecided, but, at last, condemued, not all the positions of Jolm Petit, but only this one: "Every tyrant may be legally killed by his subjects." According to this scntence, it appears as if the murder of tyrants is peruitted under certain circunstances, and this question became a common subject of investigation among the theologians and scholars of the fifteenth century, and down to the middle of the sixtecuth. In spitc of the condemnation of the main point of this doctrine by the council of Constance, many theologiaus, chiefly belonging to the order of Dominicans, supported it. At a later period, also, distinguished Protestants upheld the doctrine, as Milton, Buchanan, 18 *

Bodin, Beza, Du Moulin, and others. The Jesuits took part in this as in all theoogical questions, but not, as has been said, in order to develope this obnoxious doctrine, but rather to put it down by argument, or to make it as little obnoxious as possible. The learned Jesuit, Salmeron, Loyola's companion, says explicitly, nobody is authorized to kill a prince, even if the latter has obtained possession of the government by violence, particularly if he is once in quiet possession of power. Salmeron, indeed, in another passage, teaches that, if an illegitimate ruler attacks a city, and is just on the point of getting possession of it by arms, in such case, he may be lawfully killed by a private person, having received a commission to such effect from the legal authority. Here Salmeron indeed wrote in the spirit of his time; but it was no small step to confine within such narrow limits the authorized destruction of a tyrant, whilst the principle had been laid down, with very little qualification, by many Catholics and Protestants of distinction. In the same sense other Jesuits have written, of whom some declared thenselves still more distinctly against the doctrine : thus, for instance, the Jesuits Molina and Lessius said, "A regent, be he even a tyrant, is, nevertheless, the legal sovereign: hence the Holy Scriptures cominanded obedience, evell to heathen princes, in every thing which is not against the ordinances of God, even if they were the greatest tyrants, persccuted the church, and strove to force Christians to give up their faith. Hence it follows, that the inurder of a regent is in no case permitted." Of all the Jesuits, about 12 in the whole, who occupied themselves with this question, ouly Mariana, in his book De Rege et Regis Institutione, upheld the doctrine authorizing the killing of tyrants, and even he with some restrictions. But hardly liad Mariana's book appeared, when several Jesuits, particularly Bellarmin, completely refuted his doctrine de tyrannicidio, and Aquaviva, the general of the order, after some years, condenmed this doctrine, and prohibited all the members of the society from touching the question any more, either directly or indirectly. From this time, this subject has been banished from their schools and thcir works. Hence Voltaire, when he was believed to make common cause with the enemies of the Jesuits in the accusation of their defence of tyraunicide, says, "Posterity would unanimously exculpate the order, if I were to accuse them of a crime, of which every man of
sense, nay, all Europe, and even Damiens, have acquitted them long ago." Another and equally unjust reproach against the Jesuits is, that their system of morals was lax, that they adhered to probabilism. Probabilism was, even 100 years before the foundation of the order, the common doctrine of all bishops, the most distinguished universities, and all the regular elergy. Under certain restrictions, this cloctrine is far froin being injurious to pure morality. The substance of it is, that, where a law is not pronounced clearly, it is permitted to follow that opinion which, being likewise supported by good reasons, favors the natural liberty of man rather than the severity of the law. Next arose the question, whether it was permitted to follow the probable meaning, in preference to the more probable. The probabilists answered in the affirmative. This was asserted by many theologians, particularly Dominicans, long before the origin of the society of Jesus. But, as this doctrine is susceptible of an application really dangerous to morality, the Jesuits had the undeniable merit of laving been the first who wrote against probabilism. The writings of the Jesuits Robello, Molien, Gisbert, Aquaviva, Gonzalez, Damel, and others, contain unqualified attacks on probabilism, and attempts to reduce it within reasonable limits. The Jansenists, who were ready to make any charges against the Jesuits, first attacked them on the ground of their upholding prohabilism. Pascal and Nicol were the first assailants: the former wished to make the Jesuits ridiculous, the latter, to made them odious. Perault and Arnaud joined thein at a later period. But all these publications were declared by the parliaments of Paris and Bourdeaux, who were by no means generally in favor of the Jesuits, "calumnious writings, filled with injustice, deceit, falsifications and ignorance." If Pascal's Lettres Provinciales are regarded as an authority against the Jesuits, we should at least consider what Voltaire says: "It is clear that this work (the Lettres Provinciales) rests upon a premise totally crroneous, attributing the insane opinions of some Spanish and Flemish Jesuits to the whole order. In the casuistry of the Dominicans and Franeiscans, many absurd things might also be found. But the Jesuits alone were to be held up to general derision. The same letters even attempt to prove that it is the plan of the Jesuits to make men worse, instead of correcting them; but such a plau is so senseless, that no sect in the world ever had or
could have it." The private lives of th: Jesuits were exemplary. The purity of their morals is evident from the disgust which all Europe felt when a thing unheard of happened, when a Jesuit-one of a hundred thousand who composed the order-Girard by nane, was aceused ot rape. There has never existed a society where such deviations from virtue have been rarer, even if we allow the Anores .Marelli, published by Von Long, to be ture. The least suspecterl witness of the Jesuits is probably Voltaire : he says"What have I scen during the seven years that I lived with the Jesuits? A very active life, comncted with many labors, and, at the same time, very frugal and orderly. All their liours were appropriated to their school labors, and to the exercises which their severe order bound them to perform. I call thousands and thousands to witness, who, like myself, have been educated by thein. I dare to affirm, that nothing more repulsive and dishonorable to human nature ean be found, than that there are men who reproach such people with laxity of morals." The history of the persecutions of the Jesuits, in the different parts of Emrope, is very interesting. 'The first took place in France. In 1540, they appeared in France. The parliament hated them as friends of the Roman see, the university as dangerous rivals. The hall of the parliament incessantly resounded with the complaints of the university of Paris, who eould not bear to sce their students departing and putting themselves under the instruction of the Jesuits: still more painful was the loss of so many cmoluments, which, under the name Landit, were derived from the students, while the Jesuits instructed gratis; and when, at length, the great fame of the Jesuit Maldorat, whose lectureroom was filled two or three hours befors the time of the lecture, and who was at last obliged to lecture in open air, spread farther and farther, the rage of the university rose to the highest degree. The rector of the university therefore intimated to them that they must close their schools. They obeyed; but an uproar took place among the students, and the court ordered the Jesuits to open their schools again immediately, and not to regarl the arrogant pretensions of the university: Afterwards, however, wher public business kept the king and his ministers for a long time from Paris, the university accused the Jesuits hefore the parliament. Pasquier, Arnauld and Dollou, the advocates of the university, loaded the Jesuits with
calumnies. 'Thcir advocate, Versaris, defended them so powerfully, that even the parliament, hostile as it was to the Jesuits, acquitted them. When, at a later period, Heury IV besieged Paris, the Jesuits attracted new odium, by asserting, when interrogated by the citizens, in opposition to the opinion of the other theologians, that excommunication was not the necessary consequence of opening the gates to a heretic king. All the old hatred broke forth anew when Chatel attempted to murder Henry IV. The Jesuits were calumniously charged with being the authors of the attempt, and the parliament tumultuously and unjustly condemned to death the Jesuit Guignard. The judges themselves confessed, some years later, that they had acted over-hastily, and all France acknowledged the innocence of the Jesuits. In the first heat, the Jesuits were banished from the realm by a decrec of the parliament ; but some parliaments in the provinces openly refused to register the ordinance of the parliament of Paris, and those particularly which were independent upon that of the capital, declared the act illegal, hurried and unjust, and in general protected the Jesuits. For nine years, the Jesuits remained unmolested in Bourdeaux and Toulouse. Students from all France repaired to them, and the king was so much petitioned to restore so useful an order, that he recalled thein. The parlianent refused to register the royal decree, and sent a deputation to Henry, at the head of whom was the president Harley, who, as the historian Dupleix says, uttered a uniform strain of abusc against the Jesuits. The king answered with a speech extempore, which, as De Thou has not recorded it in his History of France, is hardly known, and we think it proper to give it here, to show how this able monarch spoke extempore: "Your care for my person and the welfare of my cupire I acknowledge with pleasurc. What you have just told me I have known long since; but ny ideas on it were tuknown to you. You speak of difficulties, which appear to you great; but I must tell you that I lave weigher them duly seven or eight years ago. The best resoiutions originate from the lessons of the past, and these I know botter than any hody else. You imagine that you understand affairs of govermment, and that you may interfere with then, which seems to me much as if I should interfere with your dutics by making a report in a civil process. I therefore must tell you, first, in regard to the aflair of Poissy, that, if
all had behaved as one or two Jesuits who happened to be present, every thing would have turned out better for the Catholics. Not their ambition, but their modesty, from that time, has appeared conspicuous; and I cannot conceive how you can accuse those of ambition, who refuse, constantly and unconditionally, abbiys, honorary offices and dignities; nay, who oblige themselves by vows never to strive for them, and whose life, in general, has no other purpose than to be uscful to all people. Is it the name Jesuit which excites your zeal? then you must also dispute with those who have taken their name from the holy Trinity (les peres de la Trinité); and, if you bclieve that you belong as much to the society of Jesus as the Jesuits, you may ask yourselves whether your daughters belong as much to the Filles-Dieu in Paris as the nuns who bear this name, and you may as well call yourselves knights of the order of the Holy Ghost as myself and the other knights of the order. I, for my part, should like as well, or rather better, to be called Jesuit than Jacobin or Augustine. If a part of the other clergy are hostile to the order, it may originate from the circuinstance that ignorance always was hostile to science. I have found that, as soon as I declared my inteution to recall the Jcsuits, two classes of men immediately opposed the measure, viz. thic Huguenots and all the Catholic clergy notorious for bad morals and comduct; but this gave me a greater esteem and love for the Jesui s." 'I'le king speaks at length on the reason why the Sorbonne could not agree with the Jesuits, because the latter were more learned, and that they should now not only be suffered, but take root within the realin.*-In Eingland, Jesuits never had much footing. The reformed doctrines had already become the prevalent religion of that country, when the order grew up. The Jesuits in England were only a small division of missionaries, who labored anong the dispersed and oppressed Catholies, quietly and under the veil of secrecy. Several Jesuits have suffered martyriom in England, and several laws enacted against them inanifest the grossest prejudice, and have been repealed only in modern times.- In the eighteenth century, the Jesuits received their first blow in Portugal. Pombal, minister

[^10]of king Joseph, a powerful and passionate man, wished to promote the welfare of Portugal ; but lis plans were those of a despotic minister of a despotic government. Every thing opposed to his wishes was to fall. Many circumstances coöperated to render him inimical to the Jesuits, to whose influence, as confessors, he owed his elevation. It would have been better for the Jesuits if they had avoided accepting confessorships at court, in the same way as they declined the dignities of the church. Pombal believed the country of the Paraguay, in which the Jesuits ruled so paternally, contained a number of gold mines, unknown to the inhabitants. He therefore obtained this country from Spain by exchange for another, 1400 miles distant, into which he wished to transplant all the Indians of Paraguay. The Jesuits received orders to prepare the people for this measure. The natives remonstrated very modestly and respectfully against such a forced emigration, representing how impossible it would be to transplant 30,000 people, with all their goods, to such a distance through the wilderness; but the government was inexorable. Only a few months were allowed them for preparation. The Indians, who were to be torn from the ground they had first cultivated, the huts where they were born, and the graves of their friends and parents, were reduced to despair. Even the Jesuits, who admonished them to oley, were now suspected by the Indians of conspiring with their heartless oppressors in Europe. The Indians armed themselves for resistance. A war broke out, in which the Indians were at first victorious, but were afterwards conquered. Many burnt their villages, and fled into the mountains, where most of them perished. After having searched in vain for gold every where, Pombal was ashamed of his bloody and bootless measure, and, under Charles III of Spain, the lands were reëxchanged, after the innocent Indians had become accustomed to all the vices of European outcasts. But, as a despotic minister cannot err, the Jesuits were now to be proved the instigators of the resistance of the Indians to Pombal's humane project of emigration. To make the world believe this, Pombal laid a plan with a certain Platel, whose vices had made him an outcast from various countries. The world was to be persuaded that the Jesuits had maintained a warlike state in Paraguay for 150 years, and even a king, Nicholas, who commanded their forces, \&c. In Spain, the story was laughed at. People kuew why Span-
iards had been prolibited, with the consent of government, from visiting the mis-sions-that they might not infect with European viccs the innocent Indians. This prohibition was a point on which Pombal's writer always insisted. The statements of Platel were proved to be false by the governor of Pcru and the Mexican bishops, and the book was burnt in Madrid; yet Pombal's libels found belief in Europe. The Jesuits were recalled from Paraguay, and imprisoned in Portugal. There were other rcasons to excite the minister's anger against the Jesuits. In a question respecting the marriage of the king's daughter, the confessor of the king, the Jesuit Moreira, gave advice contrary to that of Pombal, and the king followed the Jesuit. In the papers of the queen, who dicd in 1754, Pombal discovercd that the Jesuits in Maranham had often apprized the queen, in conscquence of her requcst, of the extortions, \&c., of the governor of the place, the brother of Pombal. His passion rose to the highest pitch. Pombal liad excited against him the proprietors of the vineyards of that country by a monopoly of port wine, from which he derived advantage himself, so that the inhahitants devastated his vineyards: the Jesuits, it was reported, had done it. When, after the dreadful earthquake of 1755 , the Jesuits made use of this event to bring people to repentance, and the king even expressed the desire to devote himself for eight days to spiritual and solitary meditation, under the direction of the pious Jesuit Malagrida, this resolution of the king gave great uneasiness to Pombal, who feared for his influence. Cost what it would, the Jesuits were to fall. At the same time, another obstacle to Pombal's power was to be annihilated-the high nobility, with whom he lived in decided opposition. These two objects Pombal succeeded in accomplishing with one stroke. Sept. 4, 1758, the king, on his return from a love adventure, was wounded by assassins. Pombal persuaded the king that this attack was owing to a conspiracy of the high nobility and the Jesuits, and don Josepl was now in constant fear of new conspiracies, and therefore totally in the power of his minister. The duke of Aveiro, the whole house of Tavora, were tried by aul extraordinary committee, and suffered aul ignominious death. Malagrida was arrested as concerned in the conspiracy, and, after several ycars, was sentenced and burnt by the obcclient inquisition as a heretic. When, with the death of don

Joseph, Pombal's despotisin was at an end, when the latter himself, being accused and convicted of the most execrable crimes, was sentenced to death by the court unanimously, and pardoned by the queen, and only punished by banishment, then also the affair of the conspiracy was reviewed, and the parties who had suffered were declared innocent. But, if the conspiracy really had existed, nothing proved the connexion of the Jesuits with it. It is true, the Jesuit Malagrida had, shortly before that attempt, declared that, if the king, who was given to sensual pleasures, did not reform his conduct, a great disaster would follow; and other Jesuits were the friends of Tavora and Aveiro. But none but Pombal could have made this circumstance the ground of an accusation against the society. He accused the wholc body befbre the pope, and demanded its abolition. When the pope ordered the trial of the accused, Pombal, without waiting, exiled the Jesuits, sent back the papal nuncio, and broke off all connexion with Rome. 1840 Jesuits were transported, in 1759, to Italy, and suffered the worst treatment. In France, also, the order declined. Madame Pompadour and the minister Choiseul were lostile to it. When the former had appeared at court, without any other claim than because she had become the king's mistress, the scandalous event excited general attention. As most people are more ready to violate the dictates of morality than conventional forms, madame Pompadour resolved to procure a legal title to appear at court, and adopted the idea of becoming dame du palais of the queen. But for this the approval of the good-natured queen was requisite, and it was concluded to deceive her by an appearance of repentance, and to make her believe madame Pompadour had ceased to be the king's mistress. A confessor was necessary, and the choice fell upon the Jesuit De Sacy, a man apparently simple, who, it was supposed, would not penetrate the plan. But Sacy declared that, if it was really her earnest intention to return to virtue and religion, she must, without delay, leave the court, retire into solitude, and try to repair the evil she had done, by real repentance: until then he could not take upon him the direction of her conscience, and he never would profane the sacraments and let himself be madc a tool of in such an intrigue. This opposition awakened in madame Pompadour inveterate hatred against the order. Choiseul belonged to the philosophers, so called, who were opposed
to all positive religion; and the Jesuits were greatly in his way, also, on account of his hatred against the dauphin, who loved the society. An opportunity was soon found to attack them. The Jesuit Lavalette, in Martinique, had been engaged in commerce; his vessels were taken by English privateers, and his bills of exchange were not paid; in consequence of which, the whole order, which certainly was not obliged to answer for Lavalette's illegal conduct, were called before the parliament, which nourished the old hatred against the society, and now counted, moreover, several Jansenists among its members. The order was condemned. The process was the signal for a general attack upon the Jesuits. Choiseul had several books written against them, and the order abolished by the parliament without a hearing, though the bishops of all France declared in its favor. The process of the parliament was a mere farce. The total abolition took place in 1767. Meanwhile Charles III ascended the throne of Spain, and assured the general of the order of his protection. But the minister Aranda, an intimate friend of Choiseul, praised by Condorcet, as a decided enemy of priests, nobles and kings, was an enemy of the Jesuits, as was also his friend Campomanes, fiscal of Castile. They procured the exile of the Jesuits in a way that did them little honor. One evening, the rector of the Jesuit college at Madrid was apprized that a stranger wished to see him immediately. The stranger coming, as he said, from the Jesuit rector of Seville, gave to the rector of Madrid a parcel of papers, with the request that he would read them attentively, and make his remarks on them. The rector ordered the papers to be carried to his room, and, as the hour of meeting in the refectory had begun, went thither in order not to interrupt the prescribed order. Hardly had he arrived there, when the house bell was rung violently. Royal commissioners enter, and seal up all papers, including the packet just left, and carry them to Aranda. Not long after, in the night of April 1, 1767, all the Jesuit colleges in the kingdom were surrounded by soldiers at the same hour, and the Jesuits carried to the states of the pope. April 2, 1767, the king declared that he had resolved to keep the true cause of the banishment of the Jesuits secret. Pope Pius VI, some years before his elevation, first found the traces of this infamous intrigue. When a cardinal, he had been appointed by Clement XIV a member of the committee who were to inves-
tigate the affairs of the Jesuits. The Spanish government, to justify itself somewhat with the pope, had sent the alleged proofs against the Jesuits to Rome. Among these were letters purporting to have passed between distinguished Jesuits, containing remarks of the most infamous character; among other things, it was said in them, that the king was an illegitimate son of cardinal Alberoni, and hence not entitled to the throne, \&c. Of conrse, these letters must have excited the king, and prompted hin to banish the order. But it was also found, by a comparison of the hand-writings, that these letters were forged. It was now evident who had brought the parcel only a few moments before the seizure of the papers in the Jesuit college in Madrid. The exile of the Jesuits, and several other circumstances, had caused a dispute between the pope Clement XIII and Portugal and Spain. The pope (Rezzonico)died, without an adjustment of the dispute having taken place. The election of his successor was now a matter of the highest importance. The question was, whether the Jesuit party should prevail or not. Cardinal Ganganelli had already, under Clement XIII, expressed his opinion, that it wasmore advisable to sacrifice the Jesuits, though innocent, than to live in constant dispute with the kings. The Bourbon party therefore supported him at the election. At the same time, in the conclave, he gained the friends of the Jesuits by maintaining that the new pope ought not to think any more of the abolition of the order than of pulling down St. Peter's ; and he was elected. The new pope, in fact, after his accession, said, in his missives to the courts of Versailles, Madrid and Naples, that he neither could blame nor abolish an order which 19 of his predecessors had solemnly confirmed; it could be the less expected of him, as the same had been confirmed by an œecumenical council at Trent, whose decrees, according to the principles of the Gallican church, were binding on the pope; but he would, if asked, call another council, in which the Jesuits should be heard, all questions investigated anew and decided upon; that he was obliged to protect the Jesuits equally with the other orders ; that, moreover, all the princes of Germany and the king of Sardinia had written to him in favor of the Jesuits, and he therefore could not yield to the wish of some cabinets, which desired the abolition of the order, without drawing upon himself the displeasure of so many other monarchs.

But the papal letter was of hitle avail. The courts threateued the pope with the publication of his letters, written before he had acçuired the pontificate, in which he promised to the courts the abolition of the Jesuits, if they would lend him their support in the election. The abolition was difficult, as Clement XIII, with the assent of the whole college of cardinals, had, a short time before, solemnly confirmed the order by the bull Apostolicum, and the immediate contravention of the bull would have been an unparalleled scandal, to which the cardinals never would have given their consent. There was no way left, therefore, but to choose the form of a brief-a decree which the popes issue without consulting with the college of the cardinals. In 1773, the brief was issued. The reasons for the abolition were not given in the brief; it was only said that the popes had abolished several other orders, and that the council of Trent had not exactly pronounced a confirmation of the order. Four weeks after this violation of justice, Ganganelli appointed a committee to investigate the accusations against the Jesuits! The Protestant historian Joln Müller says of this abolition"It was soon apparent to wise men, that a common bulwark of all authorities had fallen." Prussia did not acknowledge the abolition, but retained the Jesuits, as useful instructers, in Silesia, until at last they themselves, from obedience to the pope, urged the king to complete their abolifion. In Russia, also, the order remained, because Catharine was convinced of its utility; and the government obtained the necessary permission from the popes Pius VI and VII. Clement XIV died in 1774. His sickness and death were accompanied by strange symptoms, and calumny immediately accused the Jesuits of having procured his death. The persons in attendance on the pope, and the physicians, gave, however, no satisfuctory statements; and Le Bret, in his Magazine of Political and Ecclesiastical History, so clearly showed the innocence of the Jesuits, that this calumny never could gainl footing. (See Clement XIV.) The abolition of the Jesuits had serious consequences. In most Catholic countries, it produced a chasm in the means of public instruction, which it was not easy to fill. The education of youth lost, in many cases, the salutary religious direction which distinguislıed so much the instruction of the Jesuits. Neither the archives nor the coffers of the Jesuits satisfied expectation. Some persons believed the money to have been car-
ried off; but nothing has been heard of it for 50 years. The order was reinstituted in White Russia in 1801, and in Sicily in 1804, and was put entirely on its old footing in 1814, by the pope. Whether it ought to be restored every where, is a question which, we think, is rlifferent from what it was formerly. In the southern countries of Europe, it appears capable of becoming very useful. Of its reëstablishment in Germany, there is little hope. There is such a mass of knowledge distributed in the German nation, its public instruction is so thorough, and the establishments for education so well founded, that the Jesuit schools appear, at least, not to be needed. In this nation, ton, materialism docs not remain to be conquered, but the sound sense of the pcople soon led it back to religion. Besides, the society's plan of education would little agree with that of the Germans, because that of the Jesuits is by its nature a general, and therefore a stable one, and cannot adapt itself to modern systems of education.*
Jesuites de Robe; sccular persons of high rank-as, for instance, Louis XIV of France-who are bound to the order by vows of obedience, but have not taken the spiritual vow.

Jesus, called also Christ (Xpooros, the Anointed), the Son of God, the Savior of men, whose birth, life and death were predicted by prophets, and attended with miraculous manifestations of divine power, was born of the virgin Mary, of the trihe of Judah, who was betrothed to Joseph, an obscure artisan. The place of his birth was Bethlehem: the time is uncertain, but is commonly considered to

[^11]have been in the 12th year of the consulate of Augustus, four or five years before the begimning of the vulgar era. Our information concerning him is derived almost entirely from detached sketches of his life, written by four of his followers. The angel Gabriel had announced to Mary, that the power of the Highest should overshadow her, and that she should bear a son who should rule over the house of Jacols forever ; and on the night of his birth, an angel appeared to sonve shepherds and announced the coming of a Savior. On the 8th day, he was circumcised according to the law of Moses, and, on the 40 th, was presented in the temple, where the aged Simeon pronounced him to be the light of nations and the glory of Israel. The coming of the divine infant was also hailed by the adoration of the Magi, who were miraculously directed to the house where the young child was. Herod, alarmed by these indications, determined to destroy all the male children of Bethlehem and its vicinity, of the age of less than two years, for the purpose of effecting the death of Jesus. But Joseplh, being miraculously warned of the danger, fled to Egypt with the virgin and her child, and, on his return after the death of Herod, went to reside at Nazareth, in Galilee, whence Jesus is called a Nazarenc. We have no further accounts of the earlier years of Jesus, except the remarkable scene in the temple, when he was 12 years old, and the general observation of Luke, that he remained in Nazareth with his parents, and served them. At the age of about 30 (Luke iii, 23), he was baptized by John in the river Jordan; the spirit of God descending upon him like a dove, and a voice from heaven proclaiming, "This is my beloved son." Previously, however, to entering upon his heavenly office of divine teacher, he retired to a solitary place, where he passed 40 days in fasting, meditation and prayer: His mission is generally considered to have occupied three years, spent in acts of mercy, in inculcating a purer system of morals, more exalted notions of God, and more elevating views of man and his destiny, thau had yet been presented to the world. If, when we consider his miracles, he appears like a God, we must also acknowledge something superhuman and divine in his purity of life, his warm love for others, and his self-devotion to their wolfare; his meek yet firm and unslırinking eudurauce of insult, centempt, calumny and suffering. While he denounces sim, and prophesies the coming
desolation of the corrupt city, he forgives the sinner, and weeps over the fate of the obdurate Jerusalein. Nothing can surpass the perfect beauty of his life, but the godlike sublimity of his deatl. It is unnecessary here to trace the particulars of his short but eventful mission. He had chosen 12 apostles to be the companions of his ministry, the witnesses of his miracles, and the depositories of his doctrine, and he was betrayed into the power of his enemies by one of these, with the mockery of a friendly salutation. Betrayed by one, denied by another, and abandoned by all, he was carried before the Jewish priests, found guilty, and by them delivered over to the Roman magistrates, who alone had the power of life and death. Condemned to death as a disturber of the public peace, he was nailed to the cross on mount Calvary ; and it was in the agonies of this bitter death, that he prayed for the forgiveness of his executioners, and, with a touching act of filial love, commended his mother to his favorite disciple. The evangelists relate that, from the hour of noon, the sun was darkened, and, three hours after, Jesus, having cried out, "It is finished," gave up the ghost. The vail of the temple, they add, was torn asunder, the earth shook, rocks were rent, and the tombs opened. The centurion who was present, directing the execution, exclaimed, "Truly this was the son of God." The body of Jesus was taken down by Joseph of Arimathea, and placed in a tomb, about which the Jewish priests, remembering his prophecy that he should rise on the third day, set a guard, sealing up the door. Notwithstanding these precautions, his prophecy was fulfilled, by his resurrection on the first day of the week (Sunday); and he appeared repeatedly to his disciples, to encourage, console and instruct them. On the 40th day after his resurrection, while with them on the mount of Olives, he "was taken up," and disappeared out of their sight.

Jesus Sirach. (See Sirach.)
Jet. The color of jet is a pure and deep black, sometimes with a tinge of brown. It occurs in opaque, compact masses, so solid and hard that they are susceptible of being turned on a lathe and highly polished. Its fracture is conchoidal or undulated, shining or even splendent, and it has a resinous lustre ; its specific gravity, from 1.25 to 1.30 . By friction, it acquires a weak electricity, even when not insulated. It sometimes presents the form of branches of trees, and exhibits traces of a ligueous texture. It burns with flame often a
little greenish, but it does not inelt, like solid bitumen. It exhales, while burning, a strong and sometimes aromatic odor, sensibly different from that of coal or hitumen. It most frequently occurs in detached inasses of a moderate size, in beds of sandstone, marl, limestone and secondary trap. It is also commected with formations of coal, particularly that which is associated with secondary trap rocks. It is also found with other varieties of lignite. Good specimens of jet are found in Galicia and other places in Spain; near Wittemberg, in Saxony; in the department of Aude, in France, where it sometimes contains amber. In England, it occurs near Whitby. In the Faroe islands, and in the isle of Sky, it occurs in trap rocks. In the U. States, in Massacliusetts, it is found at South Hadley, in the coal formation. Jet is sometines employed for fuel, but is more frequently cut and polishcd, for ornamental purposes, buttons, bracelets, snuff-boxes, \&c. Some mineralogists consider it intermediate between coal and bituminous wood.

Jeux Floraux (floral games); a festival annually celebrated in Toulouse. As early as the time of the Troubadours, Toulouse had a literary institution, called the collége du gai savoir, or de la gaie science, as poetry was then terined. It was founded before the year 1323. Seven Troubadours and a chancellor formed the college ; they conferred the degrees of doctor and bachelor, and taught in their palace and gardens the lois d'amour or fleurs du gai savoir (laws of love, or flowers of the gay science). In 1323, they sent a letter, in verse, to all the poets of the Langue d'Oc, inviting them on the 3 d of May, 1324, to a poetic festival, where the composer of the best poem was to receive a violet of fine gold. The celebrated Troubadour Arnaud Vidal won the prize. The capitouls (magistrates) of the city, who had likewise been invited, to encourage a festival so much to the honor of Toulouse, offered, in future, to furnish the golden violet. To increase the splendor of the annual celebration, two other prizes were added to the violet-an eglantine and a pansy, both of silver. Similar institutions afterwards arose at Barcelona, in the reign of king Jolin, and at Tortosa, in the reigu of king Martin. The original institution at Toulouse, on the other land, began to decline, and, at the end of a century, was nearly extinct, when it was revived by Clemence Isaure. (See Clemence Isaure.) She left by will a considerable sum for the celebration of this po-
etic festival, which was now continucd under the name of jeux floraux. Mass, a sermon, and alms-giviug, commenced the ceremonies. Before the awarding of ${ }^{f}$ prizes, the tomb of Clemence was strewed with roses. More costly flowers rewarded the zeal of the competitors. Four grizes were offered-an amarantlius of gold, of the value of 400 livres, for the best ode; a violet of silver, value 250 livres, for an essay in prose, which was of not less than a quarter nor more than a half hour in reading ; a silver pansy, value 200 livres, for an cclogue, elegy or idyl; and a silver lily, value 60 livres, for the best sonnet, or hymn, in honor of the holy virgin. Instead of doctors, there were now a master of the games, and 40 judges (mainteneurs). In 1694, the college was formally crected into an academy. The office of chancellor, and other distinctions of rank, were abolished in 1773. The scal is kept by a standing secretary, and one of the members presides, with the title of modérateur, who is appointed by lot every three months. $\Lambda$ fter an intcrruption of 15 years, from 1790 to 1806, the mainteneurs assembled again in Toulouse, the academy went into operation, and, according to the old custom, awarded the prizes founded by Clemence Isaure. Since then, this festival, associated with so many poetic recollections, has been annually celebrated. The academy assembles in the council-house of Toulouse, which is called the capitolium.
Jew, the wandering, or eternal; a poetical personage of popular traditions, who owes his existence to a story connected with the well-known scene in the history of Christ's passion. As the Siavior was on the way to the place of execution, overcome with the weight of the cross, he wished to rest on a stone before the house of a Jew, whour the story calls Alasuerus, who drove him away with curses. Jesus caluly replied-"Thou slaalt wander on the earth till I return." The astonished Jcw did not come to himself till the crowd had passed, and the strcets were empty. Driven by fear and remorse, he has since wandered, according to the command of the Lord, from place to place, and lias never yet been able to find a grave. This punislunent of unbelicf and hardness of heart-a condemiation to wander forever on the earth, and to be the contemporary of all centurics-has afforded matcrials for the Christian poets. Schubart and Schlegel have turned this legend to account. Göthe (in the third volume of his own
voL. vil.

Life) has sketched Alaasuerus, with great spirit and humor, as a philosophic cobbler at Jcrusalem, who opposes the Savior with a cold, worldly logic, which will not look above the things of carth, and is therefore condemned to remain in this world (which is all to him) until a desire for higher things should awaken in him.

Jews. After the Babylonish captivity, the Hebrews (see Hebrews) were called Jews, the greatcr part of the nation having remained in the middle and eastern provinces of the Persian empire, and only 42,360 men, with their families, principally of the tribes of the kingdom of Judah, having returned to their country, when permission was granted by Cyrus ( 536 B. C.) They founded a now kingdom in Judæa, dependent on Persia, but under the domestic direction of high priests and elders, according to the Mosaic constitution. Jerusaleni, the temple, and the Levitical cities of the country were rebuilt, not without difficulty; the writings of Moses, the historical and prophetical books collecterl; the great synagogue of 120 learned men established for the critical revision and explanation of the Holy Scriptures, as well as separate synagogues and schools for the expounding of the law, and the instruction of the people. All these institutions did not euable Ezra and Nehemial, the restorers of their nation, to revive the primitive Mosaic constitution. The spirit of his code belonged to another age, and to other circumstances. The later Jews could retain only the letter of the law, and, in their expositions, lost themselves in the subtiltics which they had learned from the Chaldeans. In enterprise and activity, however, they surpassed their fathers. Thcir commerce, and thcir annual pilgrimages to the temple, to which each Jew was obliged to make an offering: accumulated at Jerusalem, under the mild government of the Persians, more treasurcs than Solomon's age had cver seen. They were not therefore destitutc of the means for conciliating the Macedonian conqucrors, and although, on the fall of the Persian inonarely, thcy submitted to Alexander the Great, and were involved in the wars of his gencrals for the supremacy, yet their fate was not hard. 1'tolemy, king of Egypt, who took possession of Palcstine 320 B . C., allowed them the enjoyment of their singular customs, and granted the colonies which hic transplanted to his capital (Alexandria), for the purpose of extending ite commerce,
peculiar privileges over the natives. The Jews were far from improving their condition by engaging in the war between the Syrian and Egyptian kings, on the side of the former ( $197 \mathrm{~B} . \mathrm{C}$. ); for the Syrian Seleucidr cousidered their possessions as lawful subjects of plunder. Seleueus IV attempted to plunder their temple, and Antiochus IV, in order to reduce them to a uniformity with the rest of his subjeets, determined to destroy their religion. His pretext for this was the shameful spectacle of intrigue and corruption displayed at the Syrian court, in the rivalry of the priests and nobles for the dignity of highpriest; but the nation adhered, with its characteristic obstinaey, to the forms of the Mosaie worship. When, therefore, Antiochus set up the Olympian Jupiter for worship in the temple, and compelled the Jews to saerifice and eat swine, many suffered the most terrible teath, rather than transgress the law of Moses. In vain were Jerusalem and the surrounding country taid desolate. These persecutions only served to develope a national spirit, which broke out in the insurrection of the Maccabees. Judas, surnamed Maccabreus (the lhanmer), was the third son of a priest, who had fled, with his fanily, from persecution, and had colleeted, in the mountains of Judæa, a baud of faithful believers. With their assistance, he defeated the Syrians, took Jerusalen, and restored the Mosaie worship ( 165 B. C.). A new epoch of glory and renown for the Jews begins under the government of the Maceabees. Three brothers of this family of heroesJudas, Jonathan and Simon-bore successively the dignity of high-priest, and completed their deliverance from the Syrian yoke. Simon, whom the gratitude of the nation hal ereated a prince, left to his son, John Hyrcanus (135 B. C.), an independent kingdom, secured by an alhanee with the Romans. The latter extended it by his vietories over the Idumæans and Sarnaritans, and eonfirmed it by the establisliment of the liigh council, or sanhedrim. The reign of Hyrcanus was distinguished for the progress of civilization and the inereasing prosperity of the nation. In his time also arose the seets of Pharisees, Sadducees and Essenes. (q. v.) His son, Judlas Aristobutus, received the royal dignity ( $105 \mathrm{~B} . \mathrm{C}$. ), and the Jewish state appeared to be in the way to recover the power and splendor of David's time, since Alexanler Jannæus, the suceessor of Aristobutus, took Gaza, in a successful war against Egypt;
but the above-mentioned sects gave rise to civil dissensions. After the death of queen Salome ( $70 \mathrm{~B} . \mathrm{C}$.), who was ruled by the Plarisees, the surcession was disputed by her sons Hyrcanus and Aristubulus. The war between the brothers introduced foreign unpires into the country. Pompey eonquered Judea ( 63 B. C.), aecording to the Roman poliey, for the weak Hyreanus. This result of the contest put an end to the new freedom of tho Jews. Jerusalem lost its walls, the kingdom its new eonquests, the nation its independence, and the fanily of the Asmoneans the illustrious, a title borne by the Maccabces) its royal dignity. Hyrcanus was made ligh-priest and ethnarch, and each Jew beeame a tributary to the Romans. It was in vain that the sons of Aristobulus endeavored, ly repeated insurrections, to restore the former state of things. The Roman power kept the people in chains, and a false friend (Antipater of Idumæa) introduced himself, as a Roman proeurator, into the fanily of Hyrcanus, to effect its ruin. While the Asmoneans were struggling for independence, Herod, Antipater's son, was securing the kingdon for himself at Rome. Autigonus, son of Aristobulus II, who had maintained limself five years in Jerusalem, by the assistanee of the Parthians, was expelled by the new king Herod (q.v.) 35 B.C., and the last of the Asinoneans was put to death. The reign of this foreign king, who aequired the name of the Great by maintaining himself amidst many difficulties, was of no advantage to the country. The doubtful character of his faith made the chief men, who were dependent on him, indifferent to their ancient religion, and the murders whieh he eommitted in his own family, as well as the unceasing oppression of the Romans, filled the people with gencral discontent. The divine worship coustantly degenerated more and more into empty forms, and the licentiousness of the court contaminated all ranks of the nation. Such was the situation of the Jews and of Judaism when Christ was born. Herod survived this great event to stain his last days by the nurder of the children of Bethlehem; but neither he and his successors, nor the connsels of the Plarisees, could avert the fate of the Jews. Under the feeble princes who succeeded IIerod, the country soon came to be treated merely as a Roman province. Oppressed by the procurators, precluded from the exercise of their religion, the infuriated people broke out into a rebellion (A. D. 66), which ter-

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minated in the total destruction of the Jewish state. September 7, A. D. 70, Titus took Jerusalem by assault, burned the temple, demolished the city, and sold into slavery, or drove into exile, all the inhabitants who escaped death. About 110,000 Jews perished during the siege and at the destruction of Jerusalem. There was no suffering which this unhappy people did not undergo. Those Jews who had taken refuge in the mountains and the ruins, were compelled, after many unsuccessful efforts, to abandon their country, now changed into a barren desert. The remnants of the nation, scattered over all the earth, still possessed advantages which could belong to no other people in similar unhappy circumstances. Their natural ingenuity and industry, the strength of their religious zeal, the literary treasures of their holy writings, secured to them every where adinittance and success, and preserved their national character. They found proselytes and old believers in all countries of the Roman empire, and in the East, as far as the Ganges, where those who had settled, during the Babylonish captivity, had greatly multiplied. Egypt, and all the northern coast of Africa, were filled with Jewish colonies, and in the cities of Asia Minor, of Greece and Italy, were thousands enjoying the rights of citizens. Thus, by their mutual connexions, and by their holy books, they became the involuntary instruments of the propagation of Christianity, which but few of their own number embraced. They were not required to receive it by the Roman emperors. Under the emperor Julian, they ventured to make preparations for a new temple in Jerinsalem, which had been rebuilt by Adrian, under the name of Elia Capitolina. Although this attempt failed, they derived great advantages from their sanhedrim, revived at Tiberias, and their patriarchates (presidencies of the sanhedrim), which were established-one at 'Tiberias, for the Western Jews (429), the other for the Jews beyond the Euphrates, first at Mahalia, afterwards at Bagdad. The former was hereditary, the latter elective by the sanhedrim at Bagdad. The incumbent of the latter, which subsisted till 1038, was called aichmalotarch (prince of the captivity). These two patriarchates became points of union, and their flourishing academies in the East served as seminaries for their learned rabbins. One of the works of these scholars was the collection of the traditionary expositions of the Old Testament, and additions
to it, which was begun, A. D. 200, by rabbi Juda the Holy (Hakkadosh), completed A. D. 500, and received, under the name of the Talmud, as a rule of faith, by the scattercd communities of Jews. It requires that wherever 12 adults reside together in one place, they shall erect a synagogue; and, since the destruction of the temple had put an end to sacrifices, they are to serve the God of their fathers by a multitude of prayers, and little formalities, amidst the daily occupations of life. This book of law allows usury, treats agriculture and grazing with conteinpt, requires the strictest separation from other people, commits the government to the rabbins, as the teachers and nobles, and inculcates a corrupt moral system, which has degraded the character of the great mass of this unfortunate people, rendered them dangerous to those anong whom they live, and obstructed their naturalization, even where they enjoy the greatest privileges. This applies to the Rabbinites (that is, the followers of the Talmud), to which sect nearly all the European Jews belong. The sect of the Caraites, who reject the Talmud, and hold to the law of Moses only, are less numerous, and are found chiefly in the East, in Turkey and Eastem Russia. During the decline of civilization in Europe, where the Jews had settled as colonists, even under the Romans, and had penetrated as far as Gaul and Germany, owing to the slave-trade, they preserved a certain degree of civilization by means of their schools, which, during the confusion conscquent on the destruction of the old, and the formation of new states, by the irruption of the barbarians, not only preserved their existence, but obtained them influence and authority. They made themselves inasters of the commerce of the old world, and, as moneylenders and brokers, were often of great importance to princes and nobles; and, during the dreadful persecutions which they underwent from the cruelty of the Christians, even after the seventh century, they still continued prosperous in those countries, even during the periods in which they suffered most. Their own usury, and the rapacity of the Christians, rather than religious hatred, were the true causes of these persecutions. The most dreadful crimes, and all public calamities, were attributed to them by the Christians, as a pretext for ridding themselves of troublesome creditors, or for obtaining possession of their treasures, either by their execution or banishment; but
their wealth and adroitness had rendered them so important, that they were always able, eventually, to secure the protection of spiritual and temporal rulers. They lived more happily among the Mohaminedans, although they were distinguished by dishonorable badges, and oppressed by lieavy taxes; and, during the Moorish supremacy in Spain, their prosperity was increasing, and their leurning flourishing. (See Rabbinical Language and Literatıre.) In the cities of France, Germany and Italy, after the eleventh century, particnlar streets, and enclosed places, were assigned to them, in consequence of which, in the persecutions during the crusades, thousands often fell victims at once to the popular fury. Decrees of councils, and the ordinances of secular rulers, repeatedly declared the Jews incapable of enjoying the civil rights of Christians, and of holding public offices. They could no where be domiciliated, nor attached to any guild or corporation ; but, in consideration of the payment of certain sums of money, they enjoyed the immediate protection of the sovereign, who, in his financial embarrassments, obliged them to make repeated contributions. In Germany, they paid a considerable tax, in return for which they were protected, as the money agents (Kammerknechte) of the holy Roman empire, as they are denominated in an imperial letter of protection. Their conversion to Clristianity could not be effected by such treatment. In Spain and Portugal, indeed, at the end of the fifteenth century, they yielded to force, and suffered themselves to be haptized en masse; but, as soon as the storin was over, they were seen again in the synagogues. The superstition of the fifteenth century, whose worship of saints and relics must have appeared to them idolatry, might well persuade them that their own pure monotheism was more rational and scriptural. From this circumstance, and from their pride in the antiquity of their nation and constitution, we may infer low many of those who publicly professed to be converts to Christianity, and were called, in Portugal, new Christians, and who might attain to a noble rank, and even to high church dignities, were still, in private, Jews, continuing scrupulously to observe the Mosaic ceremonies.* The Portuguese Jews, on

[^12]account of their connexion with these secret adherents to Judaism, have been particularly respectable, and are in possession of large landed estates. The Dutch Jews, chiefly fugitives from Portugal, were once distinguished for their iminense wealth. The Polish (who, since 1264, have been in possession of important privileges, and have been a great lindrance to the industry of the cities) and the Russian (now the most numerous) have possessed themselves of nearly all the commerce; also of the inns, the beer and brandy shops, and, in some places, of the post-offices. The German Jews, on account of the increase of the commercial cities and corporations, have kept only the gleanings of the retail trade. In all places, the Jews have a peculiar character. Their confinement to employments which depend principally on ingenuity and cunning, lias had a debasing effect on the great body of them. In modem times, however, distinguished scholars, philosophers, artists, physicians and merchants have been found among them; as Spinoza, Moses Mendelssolın, David Friedlünder, Moses Kuh, \&c. The philosophical spirit of the last half of the 18 th eentury first began to acknowledge the rights of the Jews. Plans for the improvement of their political and moral condition were discussed, and afterwards, by the benevolence of some governments, carried into execution, but with little, and often with no success. The only consequence of the great sanhedrim, to which the emperor Napoleon summoned 100 rich Jews (1806), was an imperial decree, soon after, declaring those Jews only to be Frencli citizens who were occupied in some usefnl employment; but they were still drawn as conscripts. The German princes were more desirous to give the rights of citizenship to the Jews. The disabilities to which they had hitherto been subject, were removed; civil privileges were granted to them; the Israciitish consistory was established in Cassel, under the Westphalian govermment, for the improvement of their worship and their schools. Still more important are the improvements in the Jewish schools in Anstria, where there are academies for rabbins at Prague and Lemberg ; in Bavaria, where there is a similar institution, at Fürth ; and in the Prussian states, where

## historians, 52 jurists, 18 mathematicians, 57

 poets, 8 on rhetoric, 68 on the Talmud, 19 theologians, and 73 translators.- Journal of the Literary Concention, held at New York, Appendix, No. I (New York, 1831).they acquired all civil rights in 1811. There is no distinction whatever between Jews and Cluristians by the constitution of the U. States, but, in some of the states, certain officers, as the governor, counsellors, representatives, are required to profess, under oath, their belief in the Christian religion. In England, the Jew bill, passed in 1753 , enabling Jews to prcfer bilis of naturalization in parliament, without receiving the sacrament, was repealed the next year. In May, 1830, an attempt was made, in parliament, to remove the civil disabilities affecting the Jews, but was opposed by the ministry, and the question was lost. In France, the chamber of deputies voted, in 1830, that the Jewish ministers of worship slould be paid from the public chest, like the Christian. In Germany, a number of Jews have lately abandoned the system of the rabbins, and performed divine worship in the German language, in a manner approaching that of the Cliristians. Hamburg is the seat of this society. In general, the Jews in Europe, without renouncing their religion, have, more than formerly, shown a disposition to adopt Christian refinement, while their brethren among the Mohammedans and heathens share the barbarism of their masters. By the ukase of March, 1817, important privileges are conferred on the Jews in Russia who embrace Christianity. Land is given to them gratuitously, where they may settle under the name of The Society of Israelitish Christians. They are immediately subject to a court at Petersburg, appointed by the emperor, are exempt from military service, from laving soldiers quartcred on them, from all taxes for 20 years, and may cngage in any trade without bcing sulject to the restrictions of the craft. (For the institutions for the conversion of the Jews, originating in England, see Missions.) The following is an estimate of the number of Jews in differcnt parts of the world, taken from the Weinar Ephemeriden Geographischen:Europe; in Russia and Poland, 658,809; Austria, 453,524; European Turkey, 321,000 ; States of the German Confederation, 138,000 ; Prussia, 134,000 ; Netherlands, 80,000 ; France, 60,000 ; Italy, 36,000; Great Britain, 12,000; Cracow, 7300; Ionian Istes, 7000; Denmark, 6000 ; Switzerland, 1970; Sweden, 450: total number of Jews in Europe, $1,918,053$, or a proportion of 113 th part of the population, calculated at $227,000,000$.Asia; Asiatic Turkey, 300,000 ; Arabia, 200,000 ; ITindostan, 100,000 ; China,

60,000; Turkestan, 40,000; province of Iran, 35,000 ; Russia in Asia, 3000 : total, 738,000.-Africa; Morocco and Fez , 300,000 ; Tunis, 130,000 ; Algiers, 30,000 ; Abyssinia, 20,000; Tripoli, 12,000; Egypt, 12,000: total, 504,000.-America; North Ainerica, 5000; Netherlandislı colonies, 500 ; Demerara and Essequibo, 200: total, 5700. New Holland, 50. Grand total, $3,218,000$. Other estimates carry the number to five or even six millions. The black Jews, in the East Indies, are natives, and slaves who have embraced Judaism.-See Basnage, Histoire des Juifs, from the Christian era to 1716 (fifteen volumes) ; J. M. Jost's History of the Israelites since the Time of the Maccabees, (Berlin, 1820-1826, seven volumes, from 105 B. C. to A. D. 1320.) On the civil condition, commerce and literature of the Jews in France, Spain and Italy, during the middle ages, from the beginning of the eighth to the end of the sixteenth century, sec Arthur Beugnot, Les Juifs d'Occident, \&c. (Paris, 182i). The best religious history of the Jews is Peter Beer's History, Doctrines and Opinions of all the religious Sects that have existed or do exist among the Jews, and of the mystical Doctrine of the Cabbala (Brünn, 1822, two parts). See Zeo's History of the Jewish States (Berlin, 1828); see also the Hebrev Commonwealth, translated from Jahn's Biblische Archäologie (Andover, 1828), and Milnan's History of the Jews (London, 1829.)

Jewish Law. The sources of the Jewish law are the Mosaic law and the Talnud (q. v.); hence the rabbis are the Jewish lawyers. The Jewish law, in all its extent, is very complicated, and full of niccties. In some countries of Europe, the Jews enjoy a separate jurisdiction to a ccrtain degree, and inherit according to their own law. (a) The Jewish matrimonial contract is made partly in writing and beforc witnesses, and partly by the delivcry of a ring to the bride from the bridegroom. The husband acquires a right to evcry thing which his wife obtains by labor or otherwise; he has also the use of the fortune which she possessed at the time of the marriage, and is her sole heir. Testannents are governed by the principles of the donatio inter vivos and the donatio mortis causa, according as the will was made, in a state of health, or of dangerous sickness. The rules of legal descent among the Jews are as follows:(aa) Among the descendants, the sons and their male descendants inlerit first ; after them the daughters, and, in case of there
being none, the female deseendants in the next degree. ( $b b$ ) After the descendants follows the father; if he is dead, the brothers of the deccased and their descendants, and, in failure of all these classes, the sisters of the deceased and their descendants. Persons related by the mother's side never inherit from each other : children may inherit from the mother; the mother never can from the children. Legitimate children do not exclude illegitimatc, even if the fruit of an incestuous connexion, unless the mother of the illegitimate children is a slave, or not of Jewish blood; in which case, the children do not inherit from the father in any event. The first-born son receives a double share of the property which the father actually possessed, not, however, of uncollected debts. On the other hand, he has to bear also a double share of the debts due from his father. If the firstborn dies before the division takes place, his right of primogeniture falls to his descendants. Any one inay renounce, sell or give away his right of prinogeniture. The hereditary succession of the husband and wife is regulated by the time of the continuance of the marriage. (c) Every grant must be public, and the property be regularly transferred; to amnul a legal grant, a new grant, with proper formalities, is requisite. A verbal grant is binding only when made by a very sick person, or one in imminent danger. A Jew attains his majority at the age of 13 years and one day, if he has obviously reached the period of pubcrty. A Jewess, under the same circumstances, is of age at 12 years. A Jew is not allowed to engage in cominerce before his 20th year. The girl remains, until slee is full grown, under the paterual authority, when the father may give her in marriage, against lier knowledge and wish. According to the laws of several countries, full age of Jews is the same as that of other inhabitants.

Jews-Harp is a kind of inusical instrument held between the teeth, which gives a sound by the motion of a spring of iron, which, being struck by the hand, plays against the breath. "The Jewstrump," says a diligent investigator of such matters, "seems to take its name from the nation of the Jews, and is vulgarly believed to be one of their instruments of music. But, upon inquiry, yon will not find any such instrument as this described by the authors that treat of Jewish music. In short, this instrument is a mere boy's plaything, and incapable, of itself, of being joined either with a voice or any other in-
strument ; and I conceive the present orthograply to be a corruption of the French jeu trompe, a trump to play with. Aud in the Belgic or Low Dutch, from whence come nany of our toys, a trump, is a rattle for children. Sometines they will call it a Jews-harp; and another etymon given of it is a jaws-harp, because the place where it is played upon is between the jaws." (Pegge Anonymiana, i, 82.)

Jezirah, in the Cabala, is the third work, the world of the thiuking substances. In the Cabalistic theology, it is also the name of a book, in six cliapters, which treats of the world, of motion, of time and of the soul. It is extremely obscure ; every thing in it is expressed in numbers and letters. One tradition makes the patriarch Abraham the author. It is mentioned in the Mishna and Sanhedrim, and, therefore, must have existed before the Talmud. This book is very short, and many editions have been published. The last edition is by Rittangel (Amsterdam, 1642), with a Latin translation, equally incomprelıensible.

Jidda or Judda ; a considerable cominercial liaven of Arabia, on the shore of the Rell sea. It may be considered as the port of Mecca, and is supported partly by carrying on the trade with India and Egypt, and partly by the concourse of pilgrions from the coast, and of those from the opposite regions of Africa, who cross at Suakeın to reach this famed seat of Nohammedan pilgrimage. It is situated in a barreu, sandy district, destitute of water. The streets are very narrow. The entrance to the road is full of shoals, and it is dangerous to attempt going in without a pilot. The English trade here was formerly considerable; but numerous exactious have now reduced it to a low ebb. The Americans lave some commerce with this place. Lon. $39^{\circ} 15^{\prime} \mathrm{E}$. ; lat. $21^{\circ} 29$ N. (For further information, sec Burckhardt's Thavels in Arabia.)

Jinon, or Guron, or Smon, or Amol, or Amu (anciently Oxus) ; a river of Central Asia, which rises from inountains between Great Bucharia and Chinese Tartary, and, after a N. W. course of more than 1200 miles, flows into the lakc of Aral. The cities of Samarcand, Bucharia, Termed. Balk and Gaur are on its branches. It has been generally believed, that it formerly flowed into the Caspian sca, and that its course was turned into its present chaunel by the Tartars, accorring to some, before the 16 th enntury, but according to others, about 1719. This opinion is re-
jected by Malte-Brun, and other geographers, who maintain that the Jilion always flowed into the lake of Aral, and that the rejected opinion was formed and jropagated by persons whose knowledge was imperfect, partieularly with regard to the form of the Caspian sea, or the existenee of the lake of Aral.

Јолв, son of David's sister, and his first general, fought valiantly for David, but often showed a revengeful and artful spirit ; for instance, against Abner (2 Samuel, iii, 27, 39) and Amasa (2 Samuel, $\mathrm{xx}, 9$, seq.). His services secured lim the favor of David, though that king was oftell offended with him (2 Samuel, xviii, 33, xix, 4). After David's death, he espoused the eause of Adonia, and was killed in the temple, by the altar, at the command of Solomon (1 Kings, ii, 28 , seq.).

Joachim Murat. (See Murat.)
Joachimsthaler. (See Dollar.)
Joan, the papess, aceording to a story iong believed, but now acknowledged to be a fiction, was a native of Mentz, of the name of Gilberta or Agnes, who, falling in love with an Englishinan at Fulda, went to travel with him, studied at Athens, and visited Rome. Continuing to conceal her sex, she took the name Johamnes Angelicus, and rose, by her talents, from the station of a notary to the papal chair, nuder the name of John VIII ( 854 to 856, between Leo IV and Benedict III). She governed well, but, having become pregnant by a servant, or, according to some, by a cardinal, she was delivared in a solemn procession, and died on the spot, near the Coliscum, which place thc popes are said to have avoided ever after in their processions. This story, first related by Marianus Seotus, in his Chronicon (in the 12th century), is not inentioned by any contemporary writer hostile to the papal sec, and is generally considered, since Blondell's Eclaircissement sur une Femme, as a mere fable. The examination on the sella stercoraria* perhaps gave rise to this story ; perhaps it is a satire on the barefaced profligacy of some popes ; perhaps it is a fruit of the excitenent against the popes, which became very general in the 13 th century ; others still lave thonght it to be an allegory of the decretals of the pseudo Isi-
${ }^{*}$ From the time of Honorius II, 1061 to Leo $X$, the popes were actually obliged, after their election, to seat themselves upon a stool with an opening, where they were examined by the youngest deacon, in order to determine that the $y$ were males, with their organs perfect, because no mutilated person ean be a member of the Catholie priesthood.
dore, theu brought to light. Clemens Sylvius first showed the falsehood of the story. Spanheim defended the account in lis De Johanna Papissa. Gibbon says, "Till the reformation, the tale was repeated and believed without offence, and Joan's female statue long oecupied her place among the popes, in the cathedral of $\mathrm{Si}-$ enua. She las been amihilated by two learned Protestants, Blondell and Bayle; but their brethren were scandalized by this equitable and generous criticism. Spanheim and L'Enfant attempted to save this poor engine of controversy ; and even Mosheim condescends to eherish some doubt and suspicion."
Joan of Arc (Jeanne d'Arc); the Maid of Orleans. The belief, prevalent in the middle ages, that partieular individuals were gifted with supernatural powers, as instruments of a ligher will, explains the extraordinary character and conduct of the maid of Orleans. After the death of Charles VI, king of France, in 1422, Henry VI of England, then a child of nine months old, was proclaimed king of France, according to the treaty of Troyes (1420) ; his uncle, the duke of Bedford, acted as regent. France lad been distracted, for 42 years, by civil dissensions. On one side were queen Isabclla, the duke of Burgundy, and England ; on the other, the dauphin Charles, who had been abandoned by his own mother, was supported by the Orleans party. This division, and the talents of the English generals, the earls of Somerset, Warwick, Salisbury, Suffolk, Arundel, Talbot and Fastolfe, had reduced nearly all France to the dominion of England. The dauphin, a youth of 19 , was crowned at Poictiers as king Charles VII. IIe possessed many qualities proper for interesting his countrymen in his favor, and was wanting only in firmness and resolution. Still he maintained himself in France for the space of seven years. At length, Bourges, and the territory belonging to it, were nearly all that remaincd to him. Paris and the north of France, as far as the Loire, were in possession of the English. Salisbury had been besieging Orleans since Oct. 12, 1428. The city was bravely defended by Gaucour. Its fall would have ruined the cause of Charles. In the valleys of the Vosges, on the old frontiers of Lorraine, in the village of Domremy la Pucelle (q.v.), on the banks of the Mense, lived a peasaut girl, Jeanne d'Arc, whose parcnts were common country pcople of reputable character, and in good circumstanees for their station. In the midst of
timid and superstitious persons, who were in continual trouble and alarm at the misfortunes of their country, Joan was quietly occupied in domestic employments, and sometimes in driving the cattle to pasture. Her history has been very minutely traced. The third volume of the Notices and Extracts from Manuscripts in the library of the king, by De l'Averdy (Paris, 1790, 4̀to.), contains whatever is important respecting her, taken from 28 manuscripts relating to her trial and condemnation. She was of a delicate frame, and uncommon sensibility of temperament. This, perliaps, was heighteued by the circumstance of her being exempt from the common law of her sex ; and Dufresnoy has remarked how this circumstance and her spirit of devotion may account for her visions. Her enthusiasm, and her habits of solitary meditation, explain the angelic voices and visions of the maid. While her companions were sporting beneath the Fairies, tree, the beautiful May (le beau Mai ou l'arbre des fées), not far from the fountain of Domreny-a tree which was once sacred to the Druids, and famous in many a ghostly tale-Joan was singing and dancing by herself, in pious enthusiasm, and binding garlands for the holy virgin, in the little chapel of " our Lady of Bellemont," which she usually visited on Saturday. She was never a servant, at least not in an inn. The English chroniclers have misrepresented these facts ; and Ilume is also in crror with regard to her age. The beautiful Joan was but 18 when she went to the dauphin at Chinon in Touraine. Commanded, as she asserted, by a vision of our lady of Bellemont, to raise the siege of Orleans, and to conduct Charles to Rheims to be crowned, she presented herself in February, 1429, to the governor of Vaucouleur, Robert of Baudricourt, who at first thought her possessed, and twice dismissed her; but upon her returning a third time, he sent her to Chinon with letters of recommendation. Here the dauphin ordered her to be examined by the bishop of Meaux and John Morin. She is also said to have immediately pointed out the king, whom she had never seen, and who had purposely mixed among his courtiers, and to have repeated to him a prayer which he had made to the virgin Mary. It is certaiu that she was examined for three weeks, by many intelligent men, counsellors of parliament and divines. She was then secretly inspected by the dauphin's mother-in-law and her court ladies, who declared her to be a true virgin (qu'elle était une entière et vraie pu-
celle). At length, being satisfied of the truth of her claims, D'Aulon, the most virtuous man at court, was appointed to be her constant attendant and brotlier in arms, and she received permission to hasten with Dunois to the dcliverance of Orleans. From this period, slie appears the finest character in the listory of the middle ages of Francc. In a inale dress, armed cap a pie, she bore the sword and the sacred banner, as the signal of victory, at the head of the ariny. Still no unfeininine cruelty ever stained her conduct. She was wounded several times lierself, but never killed any one, or shed any blood with her own hand. There appears, as Fr. Schlegel says in his History of the Maid of Orleans, from old French Documents (Geschichte der Jung frau von Orleans, aus altfranz. Quellen, Berlin, 1820), there appears to have been no other earthly passion in her heart than devotion to her country, to the descendant of St. Louis, and the sacred lilies. It is shown also, by the documents of her trial, and of the revision of it, in 1453, that slic had not killed any of the enemy with her own hand, from a tenderness of conscience, and was even more anxious about the souls than the bodies of the English who were slain. Nevertheless, it would seem from some passages of Lenglet Dufresnoy (Histoire de Jeanne d'Arc, Vierge Héroine, Paris, 1753, and Amsterdam, 1759), that she did not always carry the banner, and actually made use of the consecrated sword in case of neccssity. This sword was taken by her directions from the cliurch of St. Catharine at Fierbois, where, according to the story, nobody had before known of its existence. After sunset, slic avoided the company of men, passed her nights with women, and kept all loose females, as mucli as possible, away from the camp. The general belief of her elevated mission, of which she herself was piously persuaded, produced the most extraordinary effects. Resolute, clivalrous, pious and brave, looking to one single aim, she was skilfully employed by the generals to animate the army, while they did not implicitly follow her counsels. The first enterprise was successful. With 10,000 men, under the command of St . Severre, Dunois and La Hirc, she marchcd from Blois, and, on the 29th April, 1429 , entered Orleans with supplies. By bold sallies, to which she animated the besieged, the English were forced from their intrenchments, and Suffolk abandoned the siege (May 8, 1429). Joan next captured several places in the enemy's
possession, and defeated them in a battle near Patay, where general Talbot was taken, and the valiant Fastolfe himself was forced to fly. Cliarles entercd Rheims in triumph. At the anointing and coronation of the king, July 17, Joan stood at his side. In full armor, and bcaring the banner, slie took the office of a constable, and held the sword over the king. Her commission having been thus fulfilled, she wished to return to lier home, but was prevailed upon to stay. All France now acknowledged Charles as king; and Bedford could only maintain himself by valor and prudence. He repulsed, in September, the assault upon Paris. Here Joan was wounded, and Charles retircd to Bourges. A title of nobility was now conferred on the heroine and her family. She was first called Dalis, then Dulis, and, finally, Dy Lys ; her coat of arms contained two golden lilics and a sword pointing upwards and bearing a erown. Meanwhile, Bedford was ussembling new forces. Burgundy and Brittany still acknowledged the young king Henry VI, who had been crowned at Paris. Thus strengthened, the English again pushed on and besieged Compiegne. The maid threw herself into the town, as she had done at Orleans, but in a sally, May 25, 1431, was taken prisoncr by the Burgundians. She surrendered to Lyonnel, the bastard of Vendomc. She was at first confined at Crotoy, but afterwards at Beaurevoir. Upon hearing that she was to be delivered to the English (king Henry lıaving paid 10,000 livres for her), she attempted to cscapc by leaping from a window of the castlc, and was scriously injured. In this condition, she came into the power of the English. At the instigation of her own countrymen, Pierre Cauchon, bishop of Beauvais, instituted a process against her, and the university of Paris demanded her execution. She was condemned by the church as a sorceress and herctic. The sccular arm had no control over this decree. De l'Averdy gives this as an excuse for the inactivity of the king, who made little exertion in bchalf of the heroine. But that light and indolent prince never showed hinnself zealous and constant in any thing. After four months' imprisonment, the innocent cuthusiast, who had resolutely defended hersclf, and at the examination had named St. Michael as the angel whose voice she had heard in her father's garden, in her 15th ycar, and as her constant guardian and attendant, was sentenced, by the inquisitors at Rouen, to be burnt for sorcery and intercourse with infernal spirits. She was
carried, May 24, 1431, to the stake, when her courage appcared to be daunted. She subinitted to the church, and declared her revelations to be the work of Satan. Her punishinent was then commuted to perpetual imprisonment. But pretexts were soon found to treat her as a relapsed criminal, and, as such, she was burnt by a slow firc at Rouen, May 30, and her ashes were thrown into the Seine. She died with undaunted fortitude. When they werc putting the inquisition cap on lier head, before going to the pile, she said to her attendant, Maître, par la grace de Dieu, je serai ce soir en paradis. There is a tradition that, when sle expired, a white dove was seen to rise from the pile. Among the divines who had condemned her, there was only one Englishman, the bishop of Winchester. In 1450 and 1451, mcasures were taken for revising the process. 1455, the relations of Joan applied for a revision. Pope Calixtus III committed the affair to the archbishop of Rheims, the bishops of Paris and Coutance, and an inquisitor. This court pronounced, in 1456, their decision, that the 12 articles alleged against her were false, and declared her entirely innocent. Her memory was preserved by monuments. In the market-place at Rouen, there is a statue of her, on which, under her coat of arms, is the inscription :

Regiu virgineo defenditur ense corona; Lilia virgineo tuta sub ense nitent.
The maiden's sword protects the royal crown; Beneath the maiden's sword the lilies safely bloom.

According to the portrait of the maid, which Alex. Lenoir discovered in the town-house at Orleans, where there is also a statue of her, and which he sent to the Paris museum of French monuments, Aux petits Augustins, she must have been exceedingly beautiful. Her features have a soft and enthusiastic expression ; they have what the French call l'intéret du calme. She has a cap with feathers on her head, and is holding in her hands a shield and the consecrated sword. A monument, with her bust, in marble, was erected to her in Domreny, September, 1820.-See Berriat St. Prix, Jeanne d'Arc, ou Coup d'Eilsur les Revolutions au Temps de Charles VI et VII(Paris, 1817) ; Lebrun des Charmettes, Hist. de Jeanne d'Arc (from original documents, Paris, 1817, 3 vols.) ; Jollois, Hist. abrtgée de la Vie et Exploits de Jeanne d'Arc (Paris, 1821).-The name of the maid of Orleans is no less celebrated in the annals of poetry. The epic and romantic character of this subject has
been variously managed by different authors. Chapelain, a contemporary of cardinal Richelieu, in his epic poem, $L a P u$ celle, sung her exploits in 12 times 1200 wretched verses, as Boileau says. In 1730, Voltaire undertook to parody the monstrous production of his predecessor, and, following Shakspeare, who had introduced this subject as an episode in the First Fart of lis IItenry VI, where he represented the maid as a witch in confederacy with evil spirits, he turned the whole strearn of his impure wit upon the subject. Thus was produced that too well known mock heroic poem, which Mercier called "a crime against the nation" (crime anti-national). It first appeared in print, 1757. The first poetical attempt towards restoring a sulject, thus profaned by the grossest wit, to its native dignity, was made by Robert Southey, in lis epic Joan of Arc. Dumenil's Epopee Jeanne d'Arc, ou la France sauvée (Paris, 1818), is very poor; D'Avrigny's Pucelle d'Orteans, a tragedy, has been occasionally performed at Paris; Alex. Soumet's Jeanne d'Arc, Trageddie en cinq Actes et Vers, appeared in 1825. But all these fall infinitely below the noble tragedy of Schiller, Die Jung frau von Orleans, which first appeared in 1802. He has done more than Calixtus III for her fane; he has restored the high-souted enthusiast to her rightful place in the age of romance to whicli she belongs. He shows us the chivalrous heroine as an instrument of Heaven, engages our love for her, and makes her fall in glorious strife with her country's foes. Wetzel's Joan of Arc, a tragedy (Leipsic, 1817), adheres more strictly than Scliiller's to historical truth. Lebrin des Charmettes' Orltanide, a poem in 28 cantos (Paris, 1820), is modelled after the drana of Schiller.

Joannina, or Janina; the capital city of Turkish Albania (Epirus), on the lake of Acherusia, in which there is an island with a strong castle, where resides the pacha of Janina. (See Ali, and Greece, Revolution of.) The city has a Greek archbishop, and about 30,000 inhabitants, mostly Greeks, who carry on a considerable commerce with Austria, Russia, and the Ionian Islands. Joannina was formerly the centre of the literary intercourse between the modern Greeks, and Italy, France and Germany. At the end of the last century, there were in this city two celebrated schools, in which mathematics and philosophy, together with ancient Greek, were taught. The one was founded by a merchant, Ghioni, in the last lialf of the 17th century, the other about 1790.

They had two libraries and a cabinet of natural listory. The inhabitants of Joannina, who are among the best iuforned and most industrious of the Greeks, deposited the funds of the two colleges in the treasury of Venice; but, by the fall of that republic, they were lost. The schools were, however, maintained by the generosity of three Epirots in Russia-the brothers Zosina and Pikrosoy ; the scliools also received the interest of a million of rubles deposited in Russia. At the bonbardment of the city by Ali Pacha, 1820, the buildings belonging to these institutions were destroyed, and all the books and manuscripts which they contained, among which were the original manuscripts of the geographer Meletios, a native of Joannina, were burnt. Besides the Greeks, there are in Joannina Mohammedans, Jews and Gypsies, but they all speak Greek.

Јов (Hebrew Hiob, i. e. the sufferer, the persecuted); the hero of an ancient Hebrew poem, which has been preserved to us in the canon of the Old Testament. It las been much disputed whether Job is a real or fictitious personage; whether the poem is epic, didactic, or dramatic; who is the author; what was his age and country; and when and where the scene is laid. The work has been attributed to Job himself, Moses, Elihu, Solomon and others. The scene of the poem (the land of Uz ) is supposed to be in Arabia; but the time is by some placed in the age of the patriarchs, and by others, after the Babylonish captivity. The design of the work seems to be a justification of divine Providence and the inculcating a submission to the divine dispensations. The scene is partly in heaven and partly on earth; the actors are Jehovah, Satan, Job, and his four friends, Eliphaz, Bildad, Zophar and Elihu. Job, all upright man, with a family of seven sons and three daughters, with large herds and numerous servants, is suddenly, with the permission of Jehovah, and by the agency of Satan, deprived of his possessions and his children, yet submits patiently to the divine will. He is then further tried by the infliction of a sore disease, yet is silent. Three friends come to console him ; but, struck with his desolate condition, they burst into lamentations, and sit down with him seven days in silence, "for they see that his grief is very great." At the end of this period, the grief of Job finally breaks out into bitter complaints. The remainder of the poen is occupied with the answers of his friends, and his replies to them, until the
close, when God limself is introduced answering Job out of a whirlwind. After this event, Job lived 140 years, became richer than he had been bcfore, and begat seven sons and three daughters. The whole poem is characterized by freslmess and truth of coloring, simplicity and dignity of manner, and loftiness and purity of sentiment. Intensity of passion is combincel, in a striking manner, with deep views of the nature of man and the providence of God. Stuhlmann (Hiob, ein religiöses Gedicht) maintains that Moses could not have been the author of the poem, because it contains no allusions to the Mosaic doctrines; though this argument seems inconclusive, because, the scene being in Arabia, and the persons Arabian, such allusions would naturally be avoided. Doctor Good (The Book of Job, from the Hebrew, with Notes, London, 1812) considers Moses to be the author, and calls it a Hebrew epic. An Ameuded Version, with Notes, by Mr. Noyes, was published in Boston, 1827. (See the Introductions of Eichhorn, Rosenmüller and Jahn.)
Jocasta (also Epicasta); daughter of Menœecus, sister of Creon, and wife of the Theban king Laius, by whom she liad Cedipus. After having unconsciously slain his own father, Laius, Edipus solved the riddle of the Splinx, and received, as his reward, the hand of Jocasta, his own mother (of which circumstance he was ignorant). After the error was discovered, Jocasta langed herself in despair. (See CEdipus.)

Jodelle, Etienne, born at Paris, 1532, wrote the first regular tragedics and comedies for the French stage. Anong the former are Cleopâtre captive and Didon. His comedy Eugène was praised by Ronsard. Though Jodelle cnjoyed the favor of Charles IX and of Henry II, he died in great poverty in 1573. His works were collected by De la Motte (Paris, 1574, 4to., and Lyons, 1597, 12mo.). IIe was one of the French Pleiads. (Sce French Theatre, in the article France.)

Jecmer, Christian Theophilus, a celebratcd German scholar, was born in 1694, at Leipsic, where he studied medicine and thcology (1712). In 1714, he delivered lectures, in whicli he showed himself an dherent to the philosophy of Leibnitz and Wolf. In 1732, he was made professor of history; in 1735, doctor of philosoply; and in 1742, librarian of the university. He died in 1758. His Allgemeines Gelehrten Lexikon (Leipsic, 1750
et seq., 4 vols.) is still valuable. Adelung brought down a supplemient to this work (in 2 vols. 4to., Leipsic, 1784) to the letter I, which Rotermund of Bremen has continued.

Joel, one of the twelve minor prophcts, the time and place of whose birth are not known. From his style and poetical language, most critics place him in the golden age of Hebrew literature. Tradition makes him a contemporary of Hosea and Ezekiel, because he is placed between them in the canon. He describes a drcadful desolation of the country by grasshoppers (whether these signify an ariny, or really grasshoppers, commentators disagree), and finishes with a picture of better times (the destruction of the Chaldæans), and a call upon the Deity for vengeance. His imagery is often initated in the Apocalypse. He was always reckoned anong the canonical writers, and is quoted in the New Testament (Acts ii. 17), which is a proof of lis canonical authority at that time. Conjectures respecting his country and age arc collected from thic rablins in Carpzovius's Introd. in $V$. T. p. 302, from which it appears that he lived in Judalı, because his writings relate to Judah and Jerusalem.
Johannes Secundus (the bibliograpliical name of John Everard, a celebrated Latin poet) was born at the Hague, 1511. His father was a distinguished lawyer, who was president of the supreme council of Holland at Mccllini, during the reigu of the emperor Charles V. At Bourges, where Joln studied law under Alciatus, he received a doctorate; but litcrature had more attractions for lim than jurisprudence. He became acquainted with some poets of the age, and his intercourse with them tended to strengthen his predilection for works of imagination. He also distinguished limself by his skill in painting, sculpture and engraving; but he was most indebted for his fane to his poetical works. For the improvement of lis talents, he travelled to Italy, and thence to Spain, wherc he bccame sccretary of cardinal Tavera, archbishop of Toledo, by whose advice he attended Charles V. ou his journey to Tunis. The weak state of his health, however, did not permit him to endure the hardships of war, and he returned to the Netherlands, where he died, at Utrecht, in 1536, of a malignant fever. Few inodern Latin poets have left us such pleasing amatory poems as his. The Kisses of Johannes Secundus are best known. His works, consisting of elegies, odez, epigrame and miscellaneous pocms,
were published ly his brothers, Nic. Grudius and Andr. Marius (wloo were likewise distinguished as poets), and have gone through many editions. One of the latest is that of 1771 (Leyden), with a French translation. The Kisses have becn repeatedly translated into English, Gcrman, and French.

Johannesberg, or Biscioffsberg; a village and beautiful castle, built (between 1722 and 1732) on a hill in the Rheingau (Nassau), formerly belonging to the bishop of Fulda, under the jurisdietion of the elector of Mentz. It is celebrated for its excellent Rhenish wines. The best is made on the castle hill itself. In 1807, the vineyards and castle were given by Napoleon to marshal Kellermaim. In 1816, the emperor of Austria gave them to prince Metternich, on condition of reeeiving a tenth part of the produce. Six-ty-three morgen (a morgen is somewhat less than an acre) yield ammally about 32,500 bottles, worth from 23,000 to 24,000 guilders. Good years yield double this quantity, exclusive of a quantity of less valuable wine. The cultivation of the vineyards which produce this wine is expensive, and the profit not grcat, though it sells high. In 1809, a bottle of the best quality cost four guilders on the spot, and the wincs of $17 \% 9$ to 1783 , and that of 1801, were sold for twelve guilders a bottle. The view from the mountain is one of the finest on the Rhine. The cye wanders over the charming Rheingau, with its numberless villages, scats and convents, hills with their castles, and the noble river with its islands.
Join the Baptist was born six months before Jesns (their mothers were relations), of a Levitical family in Judea, and his birth was attended with eircumstances (Luke, chap. i.) which marked him out as one ehosen by God to accomplish the divine purposes. He chose the austere course of life suited to a person dedicated to God, and by his early simplicity in food and dress, by his solitary meditations on, and deep knowledge of, the spirit of the Holy Scriptures, obtaincd that independence and strength of inind, which made him the object of universal admiration, when he appeared in the character of a prophet. His teachings were eamest exhortations to repentance and preparation for the kingdom of heaven, whicl he announced to be at hand. His preaching, as recorded in the Gospels, was severe and powerful. He proelaincd himself the harbinger of a grenter, who should come after lim, and fulfilled his mission to pre-
pare for him the way, with a zeal equalled ouly by his self-denial and humility. He baptized many converts to his doctrine, and obtained respeet among all classes, by the contrast of his severe virtue with the corruption of the times. When the ligher mission of Jesus was made known, at the time of his baptism in the Jordan, John pointed lis disciples to this new master, and sav, without cuvy, his own words fulfilled - "He must increase, but I must decrease." He coveted no fame, and wished no further success. He desired only to maintain the right of spcaking the truth, and fell a victim to his boldness. To gratify a vindictive woman, Herod Antipas, tetrarch of Galilee, caused him to be beheaded in prison. A number of his disciples continued faitliful to him till death, and are said to have established the still existing seet of Sabians, or St. John-Christians, in Persin, distinguished for thecir veneration of John the Baptist. (Sec Sabians.)

John the Evangelist is one of the most pure and lovely characters of Christian antiquity. In his yonth, he left his nets at the call of Jesus, and from that time followed his divine teacher with unchanging fidelity. Not only on his journeys was he always with him, and in all conditions his most confidential friend, but, even when the other disciples fled, he accompanied him to the judgment seat; and under the cross, his expiring Lord pointed him out to Mary, as one who was to stand in the place of a son and protector to her. Hence, he was called emphatically the disciple whom Jesus loved. The gentleness and tenderness whieh breathe through the writings of John, adapted him peculiarly to understand all the feelings of his Lord. He slared the labors and sufferings of the apostles, lived in Ephesus, was for a time an exile in Patmos, perhaps resided in Rome, and finally died at an advanced age, in the bosom of the Ephesian church, which was dearest of all to his heart. St. Jerome gives a very affecting account of the last years of his life. As the infirmities of agc made him unable to address the church in a systematic discourse, he always desired to he convcyed to the assenibly, and, as often as he caine, addressed them thus: "Cliildren, love one another." Being asked, at length, why he always repcated this exhortation, with nothing new, he answered, "Because it is the precept of the Lord; and if this is fulfilled, it is enough." Jolin was the author of one of the Gospels, of the book of Revela-
cion, and of the three Epistles which bear his namc.

John. Besides the apostle, there are many saints and martyrs of this name:1. St. John, a warrior in the fourth century, who encouraged Athanasia, with her three daughters to brave martyrdom. He was himself beheaded.-2. St. John of Nicomedia, who was skinned and tortured with salt and vinegar, by order of Diocletian, because he tore down the imperial edict which ordered the imprisonment of all priests, and required them to embrace paganism.-3. St. John the Alms-giver was born in the island of Cyprus in the 6 th century. He was made patriarch of Alexandria, and spent every thing he had for the poor. His day is January 23 ; with the Greeks, November 11.-4. St. John of Damascus, or Johannes Damascenus, in the dispute concerning the worship of images, defended the practice, against Leo Isauricus and Constantinus Copronyinus. He died in 760 , in a convent. His day is May 6 ; with the Grceks, November 29. The most complete edition of his works was published by Le Quien, 2 vols., Paris, 1512, folio. Several of his works have never been printed.-5. St. John of God (Joannes a Deo); born at Monte Mayor el Novo, in the province of Alentejo, in Portugal, in 1495, of poor parents. While keeping a shop in Granada, being affected by a sermon of John of Avila, he gave all his property to the poor, and became his pupil. He displayed so much fanaticism, that he was thought to be mad, and carried to an hospital; but, being soon rcleased, hc established an hospital himself, which he maintained by alms. He founded a convent, from which originated the Hospitalers or Brothers of Charity. He practiscd the greatest severity towards himself. The bishop of Tuy, who came to Granada, gave him the name of John of God, wlich he retained. He died in 1550, and, in 1680, pope Urban VIII canonized him.-6. St. John Chrysostomus. (See Chrysostom.)-7. St. John Nepomuk. (See Nepomuk.)-There are, besides, many martyis and inonks bearing the name John and St. John.

Jous ; the name of 22 or 23 popes, the last of whom died in 1419. That no subsequent pope has called himself John, is probably owing to the polluted character of several of the name, and particularly the public condennation of the last for atrocious crines. Among these pontiffs are the following:

St. John (John I) succeeded Hormisdas in 523, and was a friend of Boëthius, who dedicated to him several of his
rol. vil.
works. Theodoric sent him to Constantinople, to induce the emperor Justin to adopt milder ineasures towards the Arians. Though John was received with uncommon pomp, his mission was fruitless, and on his return Theodoric threw him and his companions into prison, where he died in 526. His day is May 27. Felix IV succeeded him.
John VIII, or Johanna Papissa. (See Joan, the papess.)
John XI; son of Marozia and the pope Sergins III. He ascended the papal chair in 931, though very young, by the influence of his mother, who governed Rome. Marozia, after the death of her liusband Guido, married Hugh, king of Lombardy, who insulted Alberic, son of Marozia and Guido. Alberic revolted, and imprisoned Marozia and the pope, who died in prison in 936. Leo VII succeeded him.
John XII, son of Alberic and grandson of Marozia, though an ecclesiastic, succeeded to the dignity of his father, a patrician of Rome, and in 956 , after the death of Agapetus II, possessed hinself of the tiara, though only 18 years old. He was the first pope who changed his name on his accession to the papal dignity. He applied to the emperor Otho I for assistance against Berengarius II, crowned the emperor, 962 , and swore allegiance to him, but soon after revolted against Otho, who caused him to be deposed by a council, in 963, and Leo VIII to be elected. On Otho's death, in 964, John returned, and dicd in the same year. He polluted the papal see by the most revolting licentiousness. Benedict V succeeded him.
John XIII; made pope in 965 by the influence of the emperor, for which the nobles of Rome hated and expelled him. Otho II restored him to Rome, and was crowned by him. He died in 972 . According to Baronius, he introduced the custonn of consecrating bells.
John $X V$; a Roinan, elected in 985. He was the first who solemnized a formal canonization (of Ulric, or Udalric, bishop of Augsburg) in 993. He settled the disputes between king Ethelred of England and Richard of Normandy. He induced Otho III to assist him against Crescentius, but died whilst the former was besieging the castle of St. Angclo, in 996.

John XVIII, or XIX (if John XVI is counted, which Baronius does not do); elevated to the throne in 1004. We mention him merely because a union is said to have been effected between the Eastern and Western churches, under his pontificate; and, in the nalss, besides the
name of the pope, that of the patriarch of Constantinople is said to have been mentioned.
John XXI, or XXII (James of Ossa), a native of Cahors, chancellor of Robert, son of Charles II of Naples, was archbishop of Avignon, and was elected pope at Lyons in 1316, after the death of Clement V. He resided at Avignon, but had many adherents in Italy. He is important in German history, on account of the active part which he took in the disputes of the emperors Louis of Bavaria, and Frederic of Austria. He was entirely in the interests of France. He died in 1334, after having been once deposed by Louis, who caused Nicolas V to be elected in his stead. The Clementines and the Extravagantes (see Canon Law, and Corpus Juris) prove his learning. As a theologian, he held a heretical opinion respecting the beatific vision of God, maintaining that Mary and all the blest could not enjoy it until after the final judgment, and was on the point of being deposed by a general council on this account. He established several bishoprics and archbishoprics in France, which increased his revenues, so that he was enabled to leave immense treasures, which were not all well acquired. He fixed the festival of the Holy Trinity on the Sunday after Whitsuntide. Benedict XII was his successor.
John XXII, or XXIII (Balthasar Cossa), born in Naples, was a pirate in his youth, afterwards became an ecclesiastic, studied at Bologna, was made a doctor juris, and was elceted pope in 1410, by the council of Pisa, after the death of Alexander V, on condition that, if Gregory XII and Benedict XIII would resign, he would also retire, to end the scliism. He summoned the council of Constance, demanded by the emperor Sigismund, in 1415, where he appeared in person, and confirmed his resignation, March 2; but, March 20, he fled, secretly, from Constance to Schaff hausen, and revoked his resignation. He was cited before the council, but, not appearing, was suspended, and finally deposed, May 29 , for seventy crimes (malice, tyramny, incest, licentiousness of all kinds, intercourse with his brother's wife and with 300 nuns, simony, murder, \&c.), attested by 37 witnesses. He was confined in the castle of Gottleben, near Constance. The elector of the Palatinate was then charged with his safe keeping, and he remained at Manheim and Heidelberg, under custody. Four years after, he was released, on the pay-
ment of 30,000 gold guilders, went to Italy, and threw himself at the feet of pope Martin V, in Florence, who pardoned lim, and made him cardinal, bishop of Tuscoli, and dean of the college of cardinals. He died soon after, in November, 1419.
Joun, king of Eugland, born in 1166, was the youngest son of Henry II, by Eleanor of Guienne. Ireland being intended for his appanage, he was sent over, in 1185 , to complete the conquest ; but sucli was the imprudence and insolence of himself and his courtiers, that it was found necessary to recall him. Although his father's favorite, he joined his brother Richard in his last unnatural rebellion, and partook with him the curse pronounced by the heart-stricken king and parent on his deatl-bed. He was left without any particular provision, which procured for lim the name of Sans Terre, or Laekland; but Richard, on his accession, conferred on him the earldom of Mortaigne, in Normandy, and various large possessions in England, and married him to the rich heiress of the earl of Gloucester: This kinduess did not prevent him from forming intrigues against his brother, in conjunction with Philip of France, during lis absence in Palestine ; but Richard nagnanimously pardoned him oll his retum, and left him his kingdoin, in preference to Arthur of Brittany, the son of his elder brother, Geoffry. So imperfectly was the rule of primogeniture then established in England, that no disturbance ensued in that country, although the French provinces of Anjou, Touraine and Maine declared for Arthur, who was taken under the protection of the king of France. A war ensued, in which John recovered his revolted provinces, and received homage from Arthur for the duchy of Brittany, inlierited from lis mother. In 1200, he married Isabella of Angouleme, after divorcing himself, on some pretence, from his first wife. In 1201, some disturbances again broke out in France, whither he led another expedition; and the young Arthur, having joined the malcontents, was captured, and confined in the castle of Falaise, whence he was subsequently removed to Rouen, and nerer heard of more. The manner of his death is not certainly known ; but it was generally believed that John stabbed him with his own liand, and he now became the object of universal detestation. The states of Brittany summoned him to answer the charge of murder, before his liege lord, king Plilip; and, upon his refusal to appear, the latter assumed the execu-
tion of the sentence of forfeiture against him, and in this manner the whole of Normandy was recovered by the French crown, after its alienation for three centuries. John laid the fault of his disgrace upon his English nobles, whom he harassed by fines and confiscations ; but, after some ineffectual attempts, he was obliged to acquiesce in a truce in 1206. The pope at this time was the haughty and able Innocent III, who, in consequence of a contested election for the see of Canterbury, nominated a creature of his own, cardinal Stephen Langton. John, highly enraged, acted with his usual haste and folly, and displayed so much contempt for the papal authority, that Innocent laid the whole kingdom under an interdict. This quarrel lasted some years, and the king, by his tyranny, depriving himself of the support of his nobles, was perplexed on every side. In order to give some lustre to his degraded administration, he undertook expeditions into Scotland, Wales and Ireland, in which he was successful, and, in particular, quelled all opposition to his authority in the last country. In the mean time, the court of Rome excommunicated the king, personally, and formally absolved his subjects from their allegiance. Philip of France was again ready to put the sentence against John into execution, and prepared an expedition in the ports of Picardy, which, however, the latter was enabled to oppose. So much disaffection, nevertheless, prevailed, that Pandulph, the pope's legate, induced him not only to receive Langton, as archbishop of Canterbury, but abjectly to resign his kingdoms of England and Ireland to the holy see, in order to receive them again as its vassal, with absolution. This ignominious compact was executed at Dover, in May, 1213; and the pope, now regarding England as his own, and jealous of the aggrandizement of Philip, required the latter to desist from hostilities against a country under the protection of the see of Rome. Philip received this mandate with great indignation, but, in consequence of a victory over his flcet, was gradually brought to reason. Flushed with this success, John resolved to endeavor to recover his continental dominions; but the English barons declined the service. In the next year, however, he carried over an army to Poitou, but, after some partial successes, was obliged to return in disgrace. John had, by this time, rendered himself the object of such universal contempt and hatred, that his nobles, who had long felt aggrieved by the usurpation of their sove-
reigns, and of the reigning one in particular, determined to sieze upon so favorable an opportunity to control his power, and establish their privileges. Langton produced to them a copy of the charter of rights granted by Henry I, and, at a general meeting in London, in January, 1215, they laid their demands before the king, which he attempted to elude by delay. In the mean time, he sought to ingratiate himself with the clergy and the pope, with whom he lodged an appeal against the compulsory procecdings of the barons. The politic pontiff, who found it his interest to support, a sovereign who had so far humbled himself, declared his disapprobation of their conduct; but, little moved by the declaration, the latter assembled in arms at Oxford, where the court then was, and, choosing a general, immediately proceeded to warlike operations. They were received without opposition in London, which so intimidated the king, that he consented to sign such articles of agreement as they thought fit to dictate. Such were the steps which produced the Magna Churta, which was signed by John at Runnymede, on the banks of the Thames, June 19, 1215. By this charter-the basis of English constitutional freedom-not only were the nohles protected against the crown, but important privileges were granted to every order of freemen. The passive manner in which John yielded to these restrictions of his power, indicated a secret intention of freeing himself from his obligations. In order to lull the barons into security, he dismissed his foreign forces, but, in the mean time, was secretly employed in raising fresh mercenaries, and in seeking the concurrence of the pope, who issued a bull, annihilating the charter, as extorted from his vassal, contrary to the interests of the holy see. He even forbade John to pay any regard to its conditions, and pronounced a sentence of excommunication on all who should attempt to enforce it. Thus furnished with spiritual and temporal arms, the king left his retreat, and carried war and devastation through the kingdom. His barons, taken by surprise, could make no effectual resistance, and, despairing of mercy from John, sent a deputation to France, in which they offered the crown of England to the dauphin Louis. Philip gladly accepted the proposal, and Louis, with a fleet of 600 vessels, landed at Sandwich, and proceeded to London, where he was received as lawful sovereign. John was immediately deserted
by all his foreign troops, and most of his English adhcrents; but the report of a scheme of Louis for the extermination of the English nobility, arrested his progress, and induced many to return to their allegiance. While the king's affairs were beginning to assume a better aspect, he had the misfortune, in a march from Lym across the sands into Lincolnshire, to lose, by the sudden flow of the tide, all his carriages and baggage. Being already in a bad statc of health, this event so aggravated his disorder, that he died at Newark, in October, 1216, in the 49th year of his age, and 17 th of his reign. No prince in English listory has been hauded down to positerity in blacker colors than John, to whom ingratitude, perfidy and cruelty were habitual. Apparent gleams of vigor and energy were, indeed, occasionally manifest; but they always proved mere explosions of rage, and soon subsided into meanness and pusillanimity. His private life was stained with extreme licentiousness, and the best part of his conduct as a ruler, was the attention he paid to commerce and maritime affairs. More charters of boroughs and incorporations for mercantile pursuits date from him than from any other of the early kings, and the popular constitution of the city of London was his gift. He left, by his second wife, a family of two sons and three daughters, and had inany illegitimate children.
John Scotus. (See Érigena.)
Johy the Parricide, or John of Suabia, was the murderer of his uncle, the empcror Albert I. (See albert I.) Mimself of a mild, peaceful disposition, he would, perhaps, lave endured the injustice of lis uncle, who withheld from him his hereditary dominions and fief, had not his anger been fanned into a flame by the enemies of the emperor. After the perpetration of the bloody deed (in the neighborhood of Hapsburg, May 1, 1308 ), the murderers took to flight ; among them was John, who wandered in the monastic habit through Italy, and finally sunk into such obscurity, that nothing was known with certainty of him. Rodolph of Wart was apprehended and punished by the rack on the spot where the decd was committed ; the other murderers escaped, with the exception of three boys, who confessed nothing, though threatened with a cruel death, which they actually suffered. But a sanguinary revenge was taken on the relations of the murderers by Leopold, the second son of the emperor, and by Agnes, his sister, the widowed queen of Hungary. They were executed
with the mest terrible torments, their castles demolished, and the inhabitants slain by luundreds. More than 1000 innocent men, women and children perished. The history of Jolut of Suabia has given rise to the tragedy of that name, which, for more than twenty years, has becn performed on the Gcinian stage.
Join of Fiesole. (See Fiesole.)
John of Leyden. (See Anabaptists.)
John Sobieski, or John III, king of Poland, one of the greatest warriors of the 17 th century, was born 1629. His father, James Sobieski, equally distinguished for his virtues in peace and his courage in war, took great care to nourish the same qualities in his sons, Mark and John. The Poles had just been defeated at Pilawiecz, when these youths returned from their travels. This misfortune only served to excite their conragc. Mark fêll in a second engagement with the Cossacks, on the banks of the Bog; but John, more fortunate than his brother, became successively grand marshal and general of the kingdom. Full of courage, he exposed himself, like the meanest soldier, to the greatcst dangers, and, when urged to take care of his person, replied, "If I follow your advice, you will despise me." He becamc the terror of the Tartars and Cossacks, over whom he was perpetually gaining new victories. Nov. 11, 1673, he won the celebrated battle at Choczim against the Turks, who lost there 28,000 men. The following year, he was elected king of Poland. When the Turks laid siege to Viemna, in 1683, he hastencd thither with a Polish army, and rescued the impcrial city. His cavalry was splendid, but his infantry poorly equipped. To conceal the condition of the latter, he was advised to send one of the worst clothed regiments of infantry over the river by night, to save thein from the gaze of spectators. Sobieski was of a different opinion. When the regiment was on the bridge, he said to those who surrounded him, "Behold them-they are invincible; they have swom never to wear any dress but that of enemies : in the last war, they were all clothed in the garb of Turks." On his arrival, he close the most advantageous position, ascended an elevation to observe the disposition of the grand vizier, and remarked-" He has selected a bad position. I understand him; he is ignorant, and persuaded of his own genius. We slaall gain no honor from this victory." Sobieski was not deceived. The next day the Turks were driven from their cainp in terror, leaving behind the holy
standard of Mohammed, which the conqueror sent to the pope with the following letter: "I came, I saw, and God has conquercd." On his entrance into Vienna, at the head of his victorious Poles, the inlabitants received him with indcscribable enthusiasm. They pressed around to embrace his feet, to touch his garments or his horse, and proclaimed him their savior and deliverer. He was moved even to tears, and, under the strong impulse of his feelings, called this the happiest day of his life. In 1693, he was attacked by a dangerous sickness, and was doomed to witness that dissension which usually attends the election of a king in Poland. Foreign enemies united with domestic factions. Sobieski was no longer in a condition to quiet the disturbances, and the moment was fast approaching which was to deprive him at once of his life and his throne. The queen wished him to make a will, and communicated her wishes through one of the bishops. He refused, asserting that, in a nation like his, party rage would prevail over all lis influence. He died 1696, in the 23d year of his reign. Scarcely had he closed his eyes, when jealousy and envy united to stain his memory. Some reproached him with having purchased lands contrary to the laws, which forbade the kiug to hold any private property. Others maintained that the Christian league which lie had joined against the Turks, had cost his country more than 200,000 men. Others still asserted that he was too fond of money and expensive journeys. Certainly no court was ever less stationary than his. He performed the tour of Poland every year with his queen, and visited all his estates, like a nobleman. This fault, however, if it may be called a fault, should not cast a veil over the virtues of Sobieski. He was fond of the sciences, spoke several languages, and deserved to be loved for his gentleness and affibility. IIs three sons died without leaving any male descendants. The character of Sobieski is displayed in the Lettres du Roi de Pologne Jean Sobieski à la Reine Marie Casimire, pend. la Camp. de Vienne, trad. par le Comte Plater, et publ. par N. A. de Salvandy (Paris, 1826).

Jour VI, emperor and king of Portugal, Brazil and Algarve, born May 13, 1767. On account of the mental derangement of the queen Francisca, his mother, he was proclained director of the government in Portugal, Feb. 10, 1792. In 1807, he embarked for Brazil with his family, and landed at Rio de Janciro, Jan.

6, 1808. Dcc. 18, 1815, he raised Brazil to the rank of a kingdom, and united all his states into one monarcly. After the death of his mother, March 20, 1816, he hecame king. In 1790, he married the Infanta Charlotte, daughter of Charles IV of Spain. (Respecting his son Pedro, and the late revolution in Brazil, see Pedro.) His second daughter, Maria, wife of king Ferdinand VII of Spain, died in 1818; a third is the wife of Charles, Infant of Spain. On account of the old commercial relations between Portugal and England, John was not in a condition to maintain a strict neutrality towards France. In 1793, he had sent the Spanish government a small body of soldiers to aid in the defence of the Pyrenees; but, after Spain had made pcace (1795), and concluded an alliance (1796) with France, Portugal was treated as an enemy by both. John looked to Eugland, therefore, for protection. Bonaparte at length induced the Spanish court to make an attack in earnest upon Portugal, which ended in the peace of Badajoz (Jan. 6, 1801); Olivenza was ceded to Spain, and a part of Guiana to France. After the peace of Tilsit, Napoleon, not content with the vast sum of money by which John had purchased his neutrality, required him also to close his ports against the English, to arrest all of that nation in Portugal, and to confiscate their estates. As the regent complied with the first only of these requisitions (in consequence of which a British fleet blockaded his harbor), the Moniteur declared that the house of Braganza had ceased to reign (see Spain since 1808), and an army composed of French and Spanish soldiers marched into Portugal. The princeregent now resolved to transfer his court to Brazil, as lie had been advised to do in 1800. The English ambassador, viscount Strangford, and the British admiral, sir Sidney Smith, facilitated the accomplishment of his design. November 26, the prince-regent appointed a junta for administering the government, and, on the 27th, the royal family embarked, passed the mouth of the Tagus on the 29 th, with a fleet of 8 ships of the line, 4 frigates, 4 brigs, and 20 other vessels, in sight of the advance-guard of Junot's army, which entered Lisbon the next day. December 1 , the anniversary of the elevation of the house of Braganza, the ensigns of Braganza were succeeded by the French eagle. An earthquake and a storm, which the Portuguese fleet encountered in the view of the city and the enemy, completcd the submission of the Portuguese.

From Rio de Janeiro, May 1, 1808, the prince-regent declared all treaties with France and Spain null, and formed a closer union with England, which, powerfully supported by the bravery of the Portuguese army and the ardor of the people, recovered for him the possession of his European kingdom. Marshal Beresford continued to exercise an important influence on the affais of Portugal, till August, 1820, when, by the convocation of the cortes, a new political system was established. In America, the Portuguese also recovered the portion of Guiana which they had lost, and occupied French Guiana; the latter, however, was restored to France in 1817. Meantime, the enlightened ministry of the prince-regent carefully attended to the improvement of Brazil. The inquisition was abolished, religious freedom introduced, the evils of slavery diminished, and European artists, manufacturers, merchants and agriculturists encouraged to settle in the country. A large Swiss colony, New Freyberg, was founded in 1819. John took part in the transactions of the congress of Vienna. The revolution of the Spanish colonies in South America (perhaps the refusal of Spain to restore Olivenza) led the court of Rio de Janeiro to occupy Monte-Vidoo, and the left bank of the La Plata. Spain had recourse to the intercession of Austria, Russia, Prussia and Great Britain, whose declaration, directed to the inarquis of Aguiar, Portugucse secretary of state for foreigu affairs (Paris, March 26, 1817), induced the court of Brazil to evacuate MonteVideo, on condition that Olivenza should be restored. A treaty was then concluded with Buenos Ayres, and the quarrel with Artigas (q. v.) continued till 1820. A conspiracy against the existing government was discovered at Lisbon in 1817, and suppressed by the execution of those engaged in it. After this, the frecmasons were persecuted more severely than ever. In consequence of the Portuguese revolution and the convocation of the cortes, 1820, which the monarch recognised as lawful, he returned, in 1821, to Portugal ; the crown-prince remained in Brazil. This vast country separated itself entirely from the mother country, where an absolute government was, in the meantime, established. John was incompetent to unite the constitutionalists and royalists. He was himself in danger of falling a victim to the intrigues of the latter, when he was rescued by an English vessel in the Tagus. Portugal and Brazil also assumed a hostile attitude ; but, August 29, 1825, by the me-
diation of England, John VI concluded a treaty with his soll, the emperor Pedro I of Brazil, in which he acknowledged that country as an independent kingdom, wholly separate from Portugal, and lis son as emperor, reserviug for himself, personally, the title of emperor of Brazil. This good-natured monarch, who was incompetent to struggle with the troubles of his age, and the political degeneracy of his nation, died March 10, 1826, having previously appointed his daughter Isabella regent of Portugal. (Sce Portugal, and the Portuguese Revolution.)
John Baptist Joseph; arch-duke of Austria, sixth son of the emperor Leopold II, and of the Infinta Maria Louisa, daughter of Charles III of Spain; born Jan. 20, 1782 ; director-general of the engineers and artillery. This prince is more indebted to himself than to lis instructers for the cultivation of his talents. At an early period, he felt an inclination for military science, to the study of which, and also of history, he directed his attention. He had desired in vain, in 1797 and 1799, to learn the art of war under his brother Charles. After the latter had left the command, and Kray had met with several losses, the arcl-duke John received, in 1800, the command of a defeated army. His first measures were successful, but, Dec. 3, 1800, the battle of Hohenlinden decided the event of the war. $\Lambda$ series of crrors cóst the Austrians almost all their artillery, and nearly 40,000 men. A second battle, at Salzburg, did not check the victorious Moreau. The arch-duke showed personal valor on these unhappy days, and did every thing to restore the courage of his troops. In September, 1805, when the war was near breaking out, the arch-duke lastened to Tyrol, coinmissioned to complete, as quickly as possible, the military organization in that place and in the Vorarlberg. He afterwards joined, in Carinthia, the arch-duke Charles, whose plans for saving Vienna and the monarchy were frustrated by the battle of Austerlitz and the ensuing peace. When preparations for war were recommenced, after the peace of Tilsit, the arch-duke labored upon a system of attack and defence for Salzburg and Inner Austria. He prepared, through Hormayr, the famous Tyrolese insurrection. At the breaking out of the war, in 1809, he commanded the army of Inner Austria, destined for Italy and Tyrol. He conquered at Venzone and Pordenone, beat the viceroy Eugène at Sacile, and penetrated as far as the Adige, when the defeat at Ratiston obliged him to re-
treat. On the Piave he again fought a battlc with disadvantage, but no important consequences followed. The battle of Tarvis determined him to retreat still farther. The nistakes of Jellachich frustrated the plan of the arch-duke to overcome the enemy in detail, to rcnew the interrupted comurnication with Tyrol, to deliver Inner Austria, and, by marching to Vienna, to divide the forces of Napoleon. June 14, he lost the battle of Raab against the viceroy, owing to the Hungarian insurrection. He afterwards visited Italy, where, as a deputy for the emperor, he received homage in Milan. He commanded at the siege of Hüningen, in 1815, compelled the city to surrender, and demolished this dangerous fortress. He afterwards went to Paris, visited England, and returned, in 1816, through the Netherlands, to Vienna.
Јоhn's,St., or Prince Edward's Island; an island in the gulf of St. Lawrence, near the north coast of Nova Scotia, to which government it was once annexed, but it now has a separate governor. Lon. $44^{\circ} 22^{\prime}$ to $46^{\circ} 32^{\prime} \mathrm{W}$.; lat. $45^{\circ} 46^{\prime}$ to $47^{\circ} 10^{\prime}$ N . It is 117 miles long, from north-east to south-west, about 20 in average breadth; population, about 5000 ; chief towns, Charlotte's Town (the capital), Gcorge Town, Prince's Town, \&c. The north and south coasts are much indented with bays. It is well watered, the soil generally fertile, and the rivers abound with fish, as salnion, trout and eels. It was taken from the French by the English, in 1745, when it had 10,000 head of black cattle, and several of the farmers raised 12,000 bushels of corn annually. When possessed by the French, it was so much inproved as to be called the granary of Canada.

Johv's, St.; a river of New Brunswick, which rises in Canada and the northern part of Maine, waters the north-east part of Maine, flows south-east through New Brunswick, and runs into the bay of Fundy, ou the west side of the city of St. John's. It is 350 miles long; the tide flows up about 80 niles; it is navigable for boats 200 miles, and for sloops of 50 tons 80 miles. This river and its branches water a large tract of excellent country, much of which is settled. About 30 miles from its mouth commences a fine level country of rich meadow lands, well clothed with timber and wood, as pine, beech, elm, maple and walnut. The river furnishes a great quantity of salmon, bass and sturgeon; and it is the common route to Quebec. About a mile above the city of St. John's is the only entrance into this
river. It is about 80 or 100 yards wide, 400 yards long, called the falls of the river. It being narrow, and a ridge of rocks running across the bottom of the channel, on which there are not above 17 feet of water, it is not sufficiently spacious to discharge the fresh waters of the river above. The common tides here rising about 20 feet, the waters of the river, at low water, are about 12 feet higher than the waters of the sea. At ligh water, the waters of the sea are about 5 feet higher than those of the river; so that, at every tide, there are two fallsone outwards and one inwards. The only time of passing with safety, is when the waters of the river and of the sea are level, which is twice in a tide, and continues only about 20 minutes each time.
Jонर's St., in New Brunswick. (See New Brunswick.)

John's, St., in Newfoundland. (See Newfoundland.)

John, St., Christians of. (See $S a$ bians.)

John, St., Knights of. The knights of St. John, or hospitalers of St. John, afterwards called knights of Rhodes, and, finally, knights of Malta, were a celebrated order of military religious, established at the commencement of the crusades to the Holy Land. As early as 1048 , some merchants from Amalf, in Naples, established a church at Jerusalem, and built a monastery, which they dedicated to John the Baptist. It was the duty of the monks, who were called brothers of St. John, or hospitalers, to take care of the poor and sick, and, in general, to assist pilgrims. This order, which gradually obtained important possessions, at the beginning of the twelfth century, was regularly instituted as a military order by the principal, Raymund du Puy, retaining all their former laws. Besides the performance of their vows of clastity, obedience and porerty, it was their duty to aid in defending the church against infidels. Rayınund also divided the order into three classesknights (who should bear arms), chaplains (regular ecclesiastics) and servitors (serventi d'armi), whose duty it was to take care of the sick and accompany pilgrims. This order long maintained itself against the arms of the Turks and Saracens by union and courage; but, in 1191, it was driven from Palestine. Upon this, the knights conquered Cyprus, but soon lost it again, and estallished themselves, in 1309, on the island of Rhodes, where they remained upwards of 200 years This island was vigorously defended against Mohammed II, by Pierre d'Au-
husson (grand master, who died 1503). Driven thence by the sultan Soliman II (1522), the knights went to Candia, then to Venice, Rome and Viterbo, and especially to Nice, Villa Franca and Syracuse, till Charles V (1530) granted them the islands Malta, Gozzo and Comino, on condition of perpetual war against the infidels and pirates, and the restoration of these islands to Naples, if the order should succeed in recovering Rhodes. From this period, they were commonly called knights of Malta. In 1565, under the command of Lavalette (who died 1568), they repclled a violent attack from Soliman II with great I ss. After this, they continued their naval battles with the Turks till modern times, and saved themselves from ruin, in various wars with the Porte, only by their unyielding courage. In 1760, however, they would doubtless have been overpowered but for the interposition of the French. After that, their naval expeditions were seldom any thing more than mere show. The chief of this order, which had great possessions in almost every part of Europe, was called grand master of the holy hospital of St. John of Jerusalem, and guardian of the army of Jesus Christ. He was chosen by vote, and lived at La Valette, in the island of Malta. He was addressed by foreign powers with the title of altezza eminentissima, and received annually 6000 crowns from the treasury of the order, together with all the revenues from the three islands, so that his annual income may be estimated at nearly a million guilders. The secular power was principally in his hands, but even herc he was limited by the governors of the various languages, so called, who gave laws, fixed the taxes, \&c. The spiritual power (that is, the immediate affairs of the order) was exereised by the chapter, which consisted of eight ballivi conventuali, and in which the grand master presided. The principal offices in the order were held by the pillars (piliers) of the eight languages, into which the knights were divided, according to their respective nations. The languages were those of Provence, Auvergne, France, Italy, Arragon, Germany, Castile and England. From these languages, the ballivi conventuali above-mentioned were chosen, and their lands were divided into priories, these into bailliages, and these again into commanderies. Of the priories, the German had the preference, and was called the grand priory. It was filled by the grand prior of Germany, or the master of the knights of St. John throughout

Germany, who was a prince of the empire, and resided at Heitersheim, a city and eastle in Brisgau, now in the circle of Treisam, in Baden. The master of the knights of St. John was subject to the grand master at Malta. He limself liad the jurisdiction over Brandenburg, Hungary and Bohemia. Austria, Bohemia and Moravia formed, besides, a separate grand priory of the German languagc. The last master of the knights of St. John in Germany, or grand prior of Heitersheim, a count of Reichenbach-Fouxmaigne (or the baron Rink of Baldenstein), by the peace of Presburg and the formation of the confederacy of the Rhine, lost all his possessions in West Suabia, whicl fell into the hands of the grand-duke of Baden. Of the eiglit languages abovementioned, the English bccame extinct in the sixteenth century; the three Frencli languages perished during the revolution ; those of Castile and Arragon were scparated from Malta at the peace of Amiens, and the Italian and German languages lave since been abolislied. Thus the order of St. John is to be regarded as extinct, and its restoration is the less to be looked for, as the islarid of Malta has been formally ceded to England. The Prussian order of knights of St. John, founded by Frederic William III, and which is a royal order, can be considered only as a inemorial of an order venerable for its antiquity and its services. (Sce Prussia.) The knights of St. John observed the rules of the order of St. Augustine. The Protestants, however, were not bound to celibacy. Every member was required to be of good family. The knights who could bring indubitable evidence of noble ancestry were called cavalieri di giustizia (knights by right). Those, on the contrary, who could not prove their nobility, but were, nevertheless, received on account of their merits, were called cavalieri di grazia (knights by favor). The duty of each knight-to take the field at lcast three times against the infidels, or the pirates of Barbary - was rarely performed in recent times, and, by the peace of Amiens, all hostilities against the Turks werc forbidden. In peace, these knights wore a long black mantle ; a gold cross of eight points, enamelled white: in war, they wore a red jacket or tabard, charged witl a full white cross. Only in spiritual concerns was the order subject to the pope: in all temporal ones, they enjoyed unlin!ited sovereignty. Their naval force, in 1770 , consisted of 4 galleys, 3 galeots, 4 ships of 60 , and 2 frigates of 36 guns,
with various smaller vessels. When Malta was unexpectedly attacked by Bonaparte, June 8, 1798, the island capitulated without resistance. (See Hompesch, and Malta.) In 1800, the English reduced it hy famine, and it has been, ever since, in their hands. At the peace of Amiens (1802), it was stipulated that the island should be restored to the knights, under the guarantee of a neutral power; but as the English continued to entertain apprehensions lest the French would retake Malta, and thus destroy their superiority in the Mediterranean, they continued in possession of it. Dec. 16, 1798, the order had chosen for their grand-master the Russian emperor, Paul I, who declared the capitulation of 1798 an act of treachery, and took the knights of St. John under his protection. This choice met with much opposition, even from the pope himself. After the death of Paul I (Feb. 9,1805 ), the pope appointed an Italian (Tommasi) grand-master, and, on his decease, the grand chapter chose Caracciolo. The chief seat of the order had been, hitherto, Catanea in Sicily. In 1826, the pope permitted the chapter and the government to remove their seat to Ferrara. Before the French revolution, the number of knights of this order was estimated at 3000 . (For further information, see Malta.)

John Bull, the sportive, collective name of the English people, was first used by dean Swift.-Jonathan, or brother Jonathan, is applied, in the same way, to the people of the U. States.-The Irish Paddy (from Patrick), the Scotch Sawney (from Saunders, which comes from Alexander), are more particularly applied to individuals than to the Irisli and Scotch people collectively.-Yankee (q. v.), also, signifies a single American, particularly a native of the Eastern States; whilst Uncle Sam-a colloquial and rather low expression, derived from $U . S$., the abbreviation of United States-is used to denote the government of the U. States collectively.John Bull is used by the English themselves to convey the idea of an honest, blunt, but in the main good-natured, character. With foreigners, it is used to express the insular peculiarities and prejudices of the nation, and their inability to accommodate themselves to the circumstances of foreign countries.

Jonn Dory. (See Dory.)
John's Fire. Among the Romans, the festival of Vesta was celebrated by kindling a fire, with dancing and rejoicings. In the early periods of Cliristianity, the an-
cient pagan rite was perpetuated of setting fire to consecrated herbs, or laying them upon the coals. This ceremony was called John's fire, or the herb fire. Superstitious people believed that the smoke of these herbs would keep off the devil, storms and witches, or preserve from those evils the houses where they were burnt, for the succeeding year.

Johnes, Thomas; an English gentleman, who distinguished himself by the cultivation of literature. He was born in 1748, studied at Oxford, made the tour of Europe, and collected a noble library, to which he added a typographical establishment, whence proceeded the works on which his literary reputation is founded. They consist of splendid editions of the chronicles of Froissart and Monstrelet; Joinville's memoirs of St. Louis; the travels of Bertrandon de la Brocquiere in Palestine ; and Ste. Palaye's life of Froissart; all translated by limself from the French. He died in April, 1816.

Johnson, Samuel, a clergyman, distinguished for his zeal in the cause of civil liberty, was borm in 1649. During the time that lord Russel, with his coadjutors, was promoting the bill for excluding the duke of York, he published a tract entitled Julian the Apostate, meant as a refutation of the doctrine of passive obedience by doctor Hickes. For this book he was prosecuted in the court of king's bench, and sentenced to fine and imprisonment. Inability to pay the fine caused him to be confined in the rules of the prison, where be was privately assisted by the benefactions of bis political friends, and continued to disperse several pieces against popery. In 1686, when the army was encamped upon Hounslow Heath, he wrote An humble and hearty Address to all the English Protestants in the present Army. For this production he was committed to close custody, tried before the king's bench, and condemned to stand in the pillory in three places, to pay a fine of 500 marks, and to be publicly whipped from Newgate to Tyburn. Before the execution of this disgraceful sentence, he was deprived of his orders. He bore all these indignities, including the whipping, which was inflicted with great severity, with the firmness and alacrity of a martyr, which he was deridingly called; and, happily, some informality in the process of degradation preserved to him his living. With unbroken spirit he continued to employ his pen in the same cause, until the revolution changed his situation. He received a present of $£ 1000$, and a pension of $£ 300$
per annum, for the life of himself and his son. He continued to write in favor of king William with much strength of reason, but with a degree of acrimony which produced some personal annoyance from opposing partisans, which had little effect upon a man of so determined a spirit. Notwithstanding his attachment to the new government, he freely censured many of its acts, and even contended for annual parliaments. He died in 1703. His works were published in 1710,1 vol., folio, and re-edited in 1713.

Johnson, Samuel, LL. D. ; one of the most distinguished English writers of the 18th century. He was born at Lichfield, in Staffordshire, in 1709, in which city his father was a small bookseller. He was the elder of two sons, the younger of whom died in his infancy; and he inherited from his father a robust body and active mind, together with a scrofulous taint, which impaired his sight and hearing and a strong disposition to morbid melancholy. He also derived from the same source a marked attachment to high church principles, and a decided predilection for the family of Stuart. He received his early education, partly at the freeschool of Lichfield, and partly at Stourbridge, in Worcestershire ; and, on returning from school, he remained two years at home. Having acquired reputation from his exercises, particularly of the poetical class, a neighboring gentleman of the name of Corbet offered to maintain him at Oxford as companion to his son. He was accordingly entered of Pembroke college in 1728, being then in his 19th year; but he exhibited no marked attention to his studies in the first instance, and the state of indigence into which he fell by the neglect of the promised assistance, on the part of the family by whose advice he was sent to Oxford, produced a degree of mental anxiety, which he is said to have attempted to conceal by affected frolic and turbulence. Still he acquired credit by occasional poetical compositions in the Latin language; but, after all, left Oxford, after a residence of three years, without taking a degree. About this time, according to his own account, he received a strong religious impression from the perusal of Law's Serious Call to a devout and holy Life. Soon after his return to Lichfield, his father dying in very narrow circumstances, he was constrained to accept the situation of usher at the grammarschool of Market Bosworth. This situation his impatience under the haughty treatment of the principal soon induced
him to quit; and he passed some time as a guest with a medical schoolfellow, settled at Birmingham. Here he wrote essays for one of the journals, and translated from the French father Lobo's Travels in Abyssinia. Returning to Lichfield, lie published proposals for the republication of the poems of Politian, with a life, and a history of modern Latin poetry, which prospectus was but little attended to. Disappointed in this scheme, he offered his services to Cave, as a contributor to the Gentleman's Magazine, which, however, was but a slighit step towards a maintenance; and, in 1735, he sought to improve his condition by a marriage with Mrs. Porter, the widow of a mercer. Her fortune of $£ 800$ was a dowry of some moment to a suitor in the situation of Johnson; and the fact of her being twice his own age, and possessed of no pretension to personal attraction, renders his subsequent description of this union as a "love match on both sides" the more extraordinary. He now took a large house at Edial, with a view to take pupils and boarders, but the plan did not succeed; and, after a year's trial, he resolved to seek his fortune in London, in company with one of his few pupils, the celebrated David Garrick. In March, 1737, the two adventurers accordingly arrived in the metropolis, Johnson with his unfinished tragedy of Irene in his pocket, and with little to depend upon but his slender engagement with Cave. At this time he became acquainted with the reckless and unfortunate Savage, and in some respects his personal conduct was unfavorably affected by the intimacy; but from irregularity of this nature he was soon recovered by his deeply-grounded religious and moral principles. His first literary production, which attracted notice in the metropolis, was his London, a Poem, in imitation of the third satire of Juvenal. He soon after made an attempt to obtain a Dublin degree of M.A., through a recommendation to Swift, in order to obtain the mastership of a free grammarschool in Leicestershire, but could not succeed. Failing in this attempt, his engagement in the Gentleman's Magazine led to a new exercise of his powers in the composition of parliamentary debates, which, being then deemed a breach of privilege, were published under the fiction of Debates in the Senate of Lilliput. The extraordinary eloquence displayed in these productions was almost exclusively the product of his own invention ; but it is probable that he adhered more faithfully
to the tenor of the arguments of the real speakers than to their language. He however confesses himself, that he "took care the Whig doge slould not have the best of it." His attachment to the Jacobitcs was also further manifested by the composition of a humorous pamphlet, in 1739, entitled Marmor Norfolciense, consisting of a supposed ancient prophecy, in Latin monkish rhymes. For some years longer, the Gcntleman's Magazine received the clief of his attention. For this miscellany, he composed several excellent biographical articles, and, in 1744, publishicd lis celebrated Life of Savage separately. In 1747, after a number of abortive projects, he sent out his plans for an English Dictionary, in an admirably composed pamplilet, addressed to the earl of Chesterfield, who, however, concerned himself very little in the success of the undertaking. The time that he could spare from this compilation, which has been justly accounted a wonderful exertion of industry, was allotted to various literary avocations. In the same year, he furnished Garrick with his admirable prologue, on the opening of Drury-lane theatre; and, in 1749, published another admired imitation of Juvenal, which he entitled the Vanity of Human Wishes. In the same year, his tragedy of Irenc was produced at Drury-lane theatre, under the auspices of Garrick. It was performed 13 nights with but moderate applause, and Johnson, satisfied that he was not formed to excel in the drama, wisely gave up the endeavor. In March, 1750, appeared the first paper of the Rambler, the gravity of the tone of which, notwithstanding its acuteness of observation, richness of illustration, and dignity of expression, prevented it from obtaining a wide circulation as a periodical paper, although, when collected into volumes, the author himself lived to see it reach a tenth edition. A short time before the appearance of the Rambler, half deluded by his political dislike of Milton, he hastily adopted the imposture of Lauder, in his attempt to fix the charge of plagiarism on that great poet. When undeceived, however, he insisted upon Lauder's signing a formal recantation, and, possibly as some atonement, wrote a prologue to Comus, when acted for the benefit of Milton's granddaughter. In the year 1755 was published lis long-expected Dictionary, to which his namc appcared with the degree of M. A., obtaincd from the university of Oxford, by the good offices of Mr. Warton. The approaching publication of this
work lord Chesterfield had favorably announced, some months before, in two papers of the World; but Johnson, conscious of having received no sort of support or encouragernent from that nobleman during its progress, addressed to him a wellknown lctter, replete with pointed sarcasm and manly disdain. The Dictionary was received by the public with very general applause; and although its neglect of the northern etymologies, and the defects rendered apparent by more recent research, have somewhat lessened its original reputation, it still remains the leading work of the kind in the English language. In its progress, however, this great work had done nothing beyond merely supporting him; and it appears, from an arrest for a very trifling sum, in the year subsequent to its publication, that his eecessities continued undiminished. An edition of Shakspeare, the Idler, with occasional contributions for a literary magazine, formed the desultory occupation of several succeeding years. In 1759, he wrote lis celebrated romance of Rasselas, Prince of Abyssinia, which fine performance lie composed in the evenings of one week, in order to defray the funeral expenses of his aged mother. At length, in 1762, the Bute administration granted him a pension of $£ 300$ per annum, which he accepted, after a short struggle against the rcception of a favor from the house of Hanover. His own sarcastic definition of the word pensioner, in the Dictionary, was naturally enough quoted upon this occasion; but the sterling and acknowledged merits of the nan formed a satisfactory apology. His advanced reputation and amended circumstances now considerably enlarged his acquaintance, and he became member of a weekly club, in Gerrard-street, Soho, composed of the most eminent men of talents of the day, and also commenced that intercourse with the Thrale family which produced him so much social enjoyment. In 1765 appeared his longpromised edition of Shakspeare, which was ushered in by an admirable preface; but the work itself did not altogether answer public expectation, owing principally to the superficial acquaintance of the commentator with the writings of the age in which Shakspeare flourished. In 1770, although his pension was given without conditions, his attachment to the monarchical sidc in general politics, led him to compose a pamphlet, entitled the False Alarim, in favor of the resolution of the house of commons in the affair of Wilkics -that expulsion implied incapacity of re-
election. This production was followed by Thoughts on the late Transactions in Falkland's Island, against the conduct of Spain in regard to that unprofitable possession ; the Patriot, written on the era of a general election, in 1774; and Taxation no Tyranny, a more considerable effort, which made its appearance in 1775, against the arguments of the American colonists, relative to the power claimed by the mother country to tax them at pleasure. This pamphlet, although vigorously composed, was more dictatorial than argumentative, and abounding, as it did, with irritating sarcasm, did little service to the cause thus espoused. At this time, Johnson was encouraged in a view of obtaining a seat in parliament, but, meeting with no encouragement from the ministry, the scheme was dropped. In 1773, he made a tour to the Western Isles of Scotland, in company with his friend Boswell, of which he gives a highly instructive account in his Journey to the Western Isles of Scotland. In this production, he pronounced decidedly against the authenticity of Ossian, which sentence involved him in a personal broil with Macpherson. In 1775, he received the diploma of LL. D. from the university of Oxford, and soon after visited France, in company with the Thrales and Baretti. His last literary undertaking was his Lives of the Poets, which was completed in 1781 ; they were written to prefix to an edition of the works of the principal English poets, and, in a separate form, comprise 4 vols., 8 vo . With an occasional exhibition of political bias, and strong prejudices, a conspicuous instance of which is supplied by the life of Milton, they form a valuable addition to English biography and criticism. The concluding portion of the life of this eminent man was saddened by the loss of many old friends, and by declining health, rendered doubly distressing in his case by a morbid apprehension of death, which neither his religion nor philosophy could enable him to bear with decent composure. In 1783, he was greatly alarmed by a paralytic stroke, and his health never wholly recovered the shock, although he lived to the 13th December, 1784. For some days previously, he retained all his horror of dissolution; but he finally died with devotional composure. This event took place in his 75th year, and his remains were interred in Westminstcr abbey, with great solemnity, being attended by a respectable body of eminent characters, and his statue has been placed in St. Paul's cathedral. From the nu-
merous and copious biographical tributes to the memory of doctor Johnson, and especially that of Boswell, few persous have been made so well known to the public, either as authors or men. In the former capacity, he is more to be admired for vigor and strength than for novelty of conception. No writer delivers moral maxims and dictatorial sentences with nore force, or lays down definitions with more grave precision. He also excels in giving point to sarcasm, and magnificence to imagery and abstraction. His critical acumen, setting aside personal and political prejudices, was likewise very great; but he is utterly averse to the easy and familiar, both in his style and sentiment; the former of which made an era in English composition. The admiration of its exuberance of words of Latin etymology, and its sonorous rotundity of phrase, after laving betrayed some able writers into injudicious imitation, has subsided, and the share of influence which remains has indisputably improved the general lan-guage.-As a man, doctor Johnson was, in mind as in person, powerful and ruggcd, but lie was capable of acts of benevolence and of substautial generosity, which do honor to human nature. His strong prejudices have bcen already mentioned, and it is to be regretted that his adinirable conversational and argumentative powers were sullied by dictatorial arrogance, and the most offensive impatience of contra-diction-qualities that werc unhappily heightened by the extreme deference and lavish admiration with which he was treated on arriving at the summit of his reputation. The effect was more injurious to himself than his hearers, as it evidently fostered the seeds of bigotry and intolerance, with which he set out in life. Upon the whole, however, both the moral and intellectual character of doctor Jolinson stands very high, and he may be rcgarded, without hesitation, as one of the most eminent of the distinguished writers of the 18th century. His works were publishcd collectively, in 11 vols., with a life of the author, by sir John Hawkins, 1787, and in 12 vols., by Murphy, in 1792. (See his life by Boswell, Hawkins, Murphy, \&c.)
Johnson, sir William ; an English military officer, who served with distinction in North America, in the middle of the last century. IIe was a native of Ireland, and was descended from a good family long settled in that country. Early in life, he came to America, under the care of his uncle, sir Petor Warren, K. B., and,
entering into the army, he gradually rose to the rank of coloncl. In 1755, he was appointed to the cormmand of all expedition fitted out against the Freneh fort of Crown Point, when, though the main object of the undertaking was not effected, the colonel defeated a body of Indian, Cauadian and French troops, commanded by baron Dieskan, who was taken prisoner. The British general was rewarded for his conduct on this occasion by a baronetcy, and a gratuity from parliament of $£ 5000$. He had settled on the Mohawk river, acquired a considerable estate, and ingratiated himself both with the American setters and the neighboring Indians. His ability as a negotiator was displayed in his intereourse with the latter, with whose manners and customs he was intimately acquainted. He made a treaty with the Seneeas, which was concluded at his house at Johnson's-hall, where he appeared April 3, 1764, as English agent and superimtendent of Indian affairs for the northern parts of America, and colonel of the six united nations. He died at the same place in 1774, muel regretted for his private worth as well as for his abilities, whieh had been so usefully exerted in the cause of his country. He was the author of a paper on the Customs, Manners and Languages of the Northern Indians of America, published in the 63d volume of the Plilosophical Transactions.

Johnson, Samuel, first president of King's college, New York, was born at Guilford, Comlecticut. He entered the college at Saybrook at about 14 years of age, and was graduated in 1714. In 1716, a college was established, by the general court of the colony, at New Haven, and Mr. Johnson was appointed tutor, though not more than 20 years old. In 1720 , he beeame a preacher at West Haven. A short time afterwards, he became an Episcopalian, and, in 1722, went to England to obtain ordination. Here he reeeived the degree of master of arts at Oxford and Cambridge. In 1723, he returned, and settled at Stratford, where he preached to about 30 Episeopal families in the place, and about 40 in the neighboring towns. He was treated, by the people at large, as a schismatic and apostate, and continually thwarted, the objeet being to drive him from the country. This treatment he endured will patience and firmness. In 1743, the university of Oxford made him a doctor of divinity: In 1754, he was chosen president of the college just established at New York, and filled the office, with much credit, until

1763 , when he resigned, and retumed to Stratford, where he resumed his pastoral functions, and continued thein till his death, January, 1572, in the 76 th year of his age. He was a man of great learniug, quickness of perception, soundness of judgment, and benevolence. While bishop Berkeley was residing in Rhode Island, which he did two years and a half from the time of his arrival, in 1729, doctor Johnson beeame aequainted with hinn, and embraced his theory of idealism. Doetor Jolinson's publieations were ehiefly controversial. He also published a Hebrew and an English Grammar.

Johnstone, or Johnson, Charles, an ingenious writer, was a native of Ireland. He was born in the early part of the last century, was ealled to the bar, and went over to England to practise, but, being afflieted with deafiess, confined himself to the employment of a clamber counsel. His success not heing great in this way, he turned his attention to literature, and his first literary attempt was the celebrated Chrysal, or the Adventures of a Guinea (two volumes, 12 mo .), a work which attracted much attention. The secret springs of some political intrigues on the continent were unfolded in this production, whiel, together with smart and piquant sketehes of many distinguisled eharaeters of the day, including statesmen, noblemen, women of quality, eitizens, and persons of every deseription, who had elaimed any share of public notiee, rendered it exceedingly popular. As usual, in such works, however, somo truth is blended with mueh fietion, and, although, in regard to known personages, little is absolutely without foundation, muelı cxaggeration prevails. His exposure of the orgies of a elub of fashionable profligates, held at the seat of a dissipated nobleman in Buckinghamshire, produced no small sensation at the time. He wrote other works of a similar elass, in whieh mueh knowledge of life and inamers is united to a considerable talent for spirited earieature. In 1782, he went to India, and became coneerned in editing a Bengal newspaper. He died in Calcutta, about 1800 .
Jonnt, in general, denotes the juncture of two or more things. The joints of the hurnan body are called, by anatomiste, articulations. The suppleness to which the joints may be brought, by long practiee, from the time of infancy, is very surprising. Every common posture-master shows us a great deal of this; but one of the most wonderful instances of it was
in a person of the name of Clark, and famous for it in London, wherc he was cominonly known by the name of Clark the posture-master. This man had found the way, by long practice, to distort many of the bones, of which nobody before had ever thought it possible to alter the position. He had such an absolute command of his muscles and joints, that he could almost disjoint his whole body; so that he once imposed on the famous Mullens, by his distortions, in such a manner, that he refused to undertake his cure; but, to the amazement of the physician, no sooner had he given over his patient, than he saw him restore himself to the figure and condition of a proper man, with no distortion about him.

Joint-Stock Companies. Where any branch of business requires a greater capital to prosecute it witl advantage than can ordinarily be furnished by an individual, or by a number of individuals actually engaged in conducting it, or where the business is attended with great risks, and may, as events turn out, be very profitable, or result in great losses, as in the case of insurance, it is desirable that the laws should give facility to the combination of the contributions of numerous persons, in great or small amounts, to make up the requisite capital. The first and most obvious combination for purposes of business, is that of copartnerships, whereby each of the members renders himself answerable, in solido, or absolutely, and to the full extent, on all contracts made loy the company. This is a sort of association, existing in all places; but if the business to be conducted be of the descriptions above mentioned, the copartnership is not a convenient mode of association, since the capital contributed by many must necessarily be managed by a few ; and thercfore, if each member is liable, in solido, on the contracts of the company, the fortune of each is put in jeopardy, by ever so small a contribution to the joint-stock. This must. operate, of course, to discourage useful undertakings on a large scale, and even if it did not, it might still be very important to provide for associations, with a limited liability of the individual members, since the ruin of any individual will necessarily affect others to a greater or less extent. The shocks, and individual derangements and reverses, which are necessarily incident to enterprises of industry and trade, make it very desirable to secure, by some modes of association, an apportionment of risks, losses and gains
annong a great number. This is done by means of private corporations, joint-stock companies, and limited copartnerships. In regard to the two first descriptions of association, it is not always the purpose of their institution to limit the responsibility of the mombers. In the case of towns, for instance, and so in regard to some other local corporations, an execution, issuing on a judginent recovered against the corporation, may be levied upon the property of any member. So, in sone of the U. States, the individual members of banking or manufacturing corporations are liable absolutely, and without limit, for the debts of the company; but, in general, in both corporations and joint-stock companies, only the capital stock is liable for the conttracts of the company. Each meinber pays in his amount of this stock, which he knows to be subject to the risks of the business to be pursued. He can estimate precisely, therefore, the extent, the utmost limit, of lis hazard in the most unfavorable event. With this limitation, many will be ready to embark thcir capital in enterprises attended with the clances of great gain, or losses, according to the event, who would be quite unwilling to take the hazard of being individually liable for the whole anount of the losses of the whole concern, or of guarantying the responsibility of the other members of the company as copartners. In this way, enterprises conducive to the gencral prosperity are promoted, which individuals would not otherwisc engage in. Forincrly, when the pursuits of commerce were less systematically conducted, and its risks and its profits more uncertain, commercial joint-stock companies were much more frequent than at prescnt. These companies were favored by governments, in the first place, as promoting trade; in the second, as the means of raising a revenue. The government granted to a certain company, or to certain persons, the exclusive right to carry on a ccrtain branch of trade or production, for a certain time, or within certain limits. The company paid the goverument for this privilcge, intending, of course, to indemuify themselves by their profits. They paid a tax with the intention of rcimbursing themsclves, just as an importer pays duties on his goods, intending to charge the amount, with a profit, in the price to the consumer. It was in opposition to these monopolies that the doctrines of free trade, as they are called, originated; and, considered in reference to such monop-
olies, those doctrines are undoubtedly just, and so universally held to be; but they are extended by many much beyond these limits. Where only the fund is liable, and not the individuals who contribute it, no injustice is done to the creditors of the company, provided the law secures the actual payment of the fund; for if a person gives credit to a certain fund, knowing the risks to which it is exposed by the kind of business in which it is embarked, he has no ground of dissatisfaction with the members of the company, or the laws, though this fund should prove to be insolvent. This is the most limited responsibility of the contributors to a joint-stock. In other associations of this kind, the contributors are liable to a certain amount for the debts of the concern; as, for instance, to an additional amount equal to that of their respective shares of stock; or each is liable for his proportion of the debts, according to that of his stock. There are also, in the different associations of this description, under the laws of different countries, various conditions on which the liability depends; and also various conditions, which must be complied with, in managing the concerns of the company, in order to keep within the limit of the modified responsibility. Still another description of joint-stock companies is that of limited copartuerslips, or companies in which one or morc of the members are liable in solido, and the others no otherwise liable than for the loss of the proportion of capital which they have put into the concern. This is uniting in the same company the claracteristics of a corporation with the most limited responsibility of individual nembers, and those of a copartnership with au unlimited individual liahility. The evident advantages of limited copartnerships, by giving encouragement to persons depending on income, and not devoting themselves personally to the prosecution of active business, to devote their capital to production and trade, without subjecting them to unlimited responsibility, recominend them to adoption in every code of laws. The French code contains such a provision, but none suclı has heretoforc been arlopted in the Euglish laws, nor are such associations provided for gencrally in the U. States, at the time of writing this article [1831], thougl a law to this effect has been passed in New York, and the interest and discussion excited on the subject will probably lead to similar enactments in the other states. Joint-stock companies, whatever may be
thcir form, and however extensive or limited may be the liability of the members, are subject to one abuse, which grows out of their very nature and constitution, and cannot, therefore, be wholly prevented. They are liable to be used, by fraudulent or over sanguine people, as bubbles. The fact of their being subject to such perversiou, produces a strong and unjust prejudice against them, in the minds of many persons. There is no institution or form of association that is free from abuses and perversions. The engines of greatest power act the most destructively when their powers are wrongly directed, or when they are deranged in their action; but this is no ground of argument against making use of them. It is only a reason for precautions and regulations.

Jonft Tenants are those that hold lands or tenements by one title, without partition. The creation of an estate in joint tenancy depends on the wording of the deed or devise by which the tenant claims titte, and camnot arise by act of law. If any cstate be given to a plurality of persons, without adding any restrictive, exclusive, or explanatory words, this makes them immediately joint tenants in fee of the lands. If there be two joint tenants, and one relcase the other, this passes a fee without the word heirs. Joint tenants may make partition. The one party may compel the other to make partition, which must be by deed; that is to say, all the parties must, by deed, actually convey and assure to cach other the several estates which they are to take and enjoy severally and scparately. Joint tenants must jointly implead and be jointly impleaded with others. If one joint tenant refuse to join in an action, lie inay be summoned and severed; but if the person scvered die, the writ abates in real actions, but not in personal and mixed actions.

Joliba, or Djoliba. (See Niger.)
Jolly Boat. (See Boat.)
Jomelil, Niccolò ; a musical composer, born 1714, at Aversa, in the kingdom of Naples. He first studied at Naples, under Feo, and afterwards under Martini at Bologna. At first, he composed ballets-a sort of music then so little esteemed in Italy, that he did not own himself the author of his first comic opera (L'Errore Amoroso), but gave it to the world under the name of Valentino, a master of not much reputation. This opera, which he composed at the age of 23 , probably for the new theatre at Naples, was crowned with great applause, by which he was ellcouraged to continue his compositions.

In 1738, he wrote his Odoardo, for the theatre of Florence, with still greater success, which induced lim, in $\mathbf{1 7 4 0}$, to go to Romc. He now wrote, from 1740 to 1748, 14 operas for Rome, of whieh the Astianatte, Ifigenia, and Caio Mario, are particularly worthy of mention, in the latter of which, the beautiful air Sposo, io vado a morir, was received with the highest admiration. Besides these, he composed several operas for Venice and other cities. He now received the place of chapel-master in St. Peter's, and composed, besides several motettes, the psalm Benedietus Dominus Deus Israel (Blessed Lord God of Israel), the music of which is a masterpiece. The duke of Würtemberg then engaged him in his service, and Jomelli went to Stuttgart, where he remained from 1748 to 1765 , enjoying the highest distinetion, and exercising grcat influence on German musir. When he returned to Italy, John V, King of Portugal, invited him to his court. Although he declined this invitation, he composed a considerable number of operas for the king, and sent him copics of all his subsequent works. He afterwards composed two operas in Rome, both of which were unsuceessful. He then removed to Naples, where he met with no better suceess; and, August 28, 1774, he died of apoplexy, produced, as is supposed, by chagrin at the success of the German Scluuster, and the ill reception of his own operas. His Requiem and Miscrere are particularly celebrated.
Jomisi, Menry, baron; licutenant-gencral and aid-de-camp of the late emperor Alexander; a distinguished military writer, horn at Payerne (Peterlingen), in the Pays de Vand, about 1775 . He served at first in a French regiment of Swiss, and when it was hroken up, August 10, 1792, engaged in mercantile pursuits. On the revolution in Switzerland, he became chief of battalion aud secretary-gencral of the department of war before his 20th year. In thase offices, he greatly distinguished himself. In 1803, Jomini connected himself with a mercantile house in Paris; but he devoted all his leisure to his favoritc pursuit, the study of tactics. In 1804 was published his Tiraité des grandes Opérations militaires, when Ney appointed him chef de bataillon in his own staff. In 1805, he was sent on public business to Napoleon, at Viemna, to whom he presented the two first volumes of his work, which Napoleon reccived with approbation, and raised the author to the rank of a colonel. Afterwards, as chief of the
staff of marslal Ncy, Jomini performed the campaigns of 1806 and 1807, in Prussia and Poland, was made brigadier-greneral and baron, aud followed the marshal to Spaiu in 1808 and 1809. A misunderstanding with his conmander indueer him to request permission to resign. It was not granted him ; but lie retired to Switzerland, was afterwards made inajorgeneral, and followed Napoleon as his historiographer, in the grand army which marched against Russia (1812). He continued here, as governor of Smolensk, till Napoleon's dcfeat. He was present in the campaign of 1813, in Saxony, as clief of the staff of marshal Ney. But, after the decharation of the armistice of Plässwitz, lie left the army privately, in Silesia, and, on the 14th August, went over to the allies. Napoleon had refused him the rank of general of a division. Alexauder ajpointed him lieutenant-general and aid. He now bore arms against France. On this account, general Sarrazin reproached him with such bitterness in his history of the war, that Jomini demanded satisfaction. As this was not to be ohtainal, he printed their correspondence (Correspondance entre le Général Jomini et le Général Sarrazin, sur la Campagne de 1813). In 1815, Jomini was in the snite of Alexunder at Paris, where he received the crows of St. Louis. His Traité de grande Tartique (Paris, 1805, 2 vols., with an atlas), appeared in a $2 d$ edition, under the title Traité des grandes Opérations militaires, or Relation critique et comparative des Campagnes de Fredérie et de Napoléon (the $3 d$ edhition, 1817,8 vols., with two atlasea). The 7-15 parts contain the Hist. critique et militarive des Campagnes de la Révolut. (new edition, Paris, 1824), and extend to 1803. His work is valuahle as a history of the war, sinee it was drawn from the arehives of the war department, and other official sources. His account of Frederic's campaigns is borrowed from Lloyd and Tempelhof. The Tableau de la Campagne d'Automne en Allemagne (Paris, 1817), is also his work, as is likewise the Vie politique et militaire de Napoléon (1827).

Jonah (Hebrew, signifying dove, and also the powerful), one of the minor prophets, son of Amithai, and, according to 2 Kings, xiv, 25, a contemporary of Jeroboam II, was born at Gath-IIepher, in Galilce. In the hook which bears his name, it is related that he received a command from Gorl, to go and prophesy against Nimevelı; but he fled to Joppa, and embarked for Tarshish. The vessel being tossed by a storm, it was
conchnded to draw lots, in order to determine who was the cause of the tempest. The lot fell upon Jonah, who was tlirown overboard by his own request, because he had been disobedient to God, but was swallowed by a large fish (according to the ancient commentators, a whale ; according to moderns, a shark). After he had remained three days and nights in the belly of the fish, the Lord spake unto the fish, and it vomited out Jonah on dry land. He now went to Nineveh, and prophesied its destruction ; but, the king and people having repented, Nineveh was spared. Jonal, angry at this, went out of the city and God made a gourd grow up over hint, which was a shade to him. He then sent a worm, which sinote the gourd so that it died in one night. Jonah was angry at this also ; but God showed him the foolishness of being angry at the destruction of a gourd, and yet demanding the destruction of a city in which were 120,000 innocent children. Jonah's grave is shown at Mosul, the ancieut Nineveh, and also at Gath. Some critics maintain that the book was not written by Jonalı himself, but is a collection of traditions, made after the destruction of Nineveh. Some writers consider it merely as an allegorical poem. The story of Jonah is also known to the Mohammedans, according to whom, he embarked after his prophecy at Ninevel, and remained 40 days in the belly of the fish. The prayer of the prophet in this situation, is considered one of the nost efficacious in the Koran.

Jonathan, or Brother Jonathan; the nickname given to the Aınericans of the U. States collectively, by the English, probably on account of the frequency of this name among the early Americans. (See John Bull, and Yankee.)
Jones, Inigo; the reviver of classical architecture in England, in the beginning of the 17 th century. He was a native of London, where his father was a clotlworker, and was born about 1572 . Destined for a mechanical employment, his talents attracted the noticc of the earl of Arundel, and of William, earl of Pembroke, the latter of whom supplied liin with the mcans of visiting Italy, for the purpose of studying landscape painting. Ile went to Venice, where the works of Pallatio inspired him with a taste for the art of architccture, in which he rose to treat eminence. His reputation procured lim the post of first architect to Cluristiern IV, king of Demnark, who, visiting his brother-in-law, Jaınes I, in 1606, brought Jones with him to England. He was in-
duced to remain, ano was appointed architect to the queen, and subsequently to Henry, prince of Wales. After the death of the prince, he again visited Italy, and remained there some ycars. During this interval, he extended his knowledge, and improved his taste, from the examination of the models of ancient and moderin art. The banqueting house at Whitehall (intended as an adjunct to a magnificent palace) is a momument of his skill and science. At Winchester cathedral, a Gothic building, he erected a screen in the style of classic antiquity. Like his successor, Wren, he seems not to have duly appreciated the peculiar character and distinctive beauties of the pointed style of building, of which so many fiue specimens remain in the ecclesiastical structures of the middle ages, in England, France and Germany. He built the front of Wilton-house, in Wiltshire, for Philip, earl of Pembroke, and was much employed by the court and by many of the nobility and gentry, so that he realized a handsome fortune. His talents were often put in requisition for the purpose of designing the scenery and decorations for masques-a species of drainatic entertaimment, fashionable in the early part of the 17 th century. In these pieces, the dialogues and songs were conaposed by Ben Jonson, who quarelled with Jones, and abused hinn in epigrams and satires. The ennity of the poet was not the only misfortune to which the architect was exposed. Being a Roman Catholic, and a partisan of royalty, he suffcred in the civil war, and, in 1646 , was forced to pay a fine of $£ 545$, as a malignant or cavalier. The ruin of the royal cause, and the death of the king, distressed him grently ; and at length, worn down by sorrow and suffering, he died, July 21 , 165\%. As an author, lic is known by a work relative to that curious monument of former ages, Stonehenge, on Salisbury plain, published after his death, by his son-in-law, Mr. Webb. The object of this treatise, composed by the coinmand of king James I, is to prove that Stonelienge was crected by the Romans, and was a hypætliral temple, dedicated to the god Cœlus. A collection of the architectural designs of Inigo Jones was published by Kent, in 1727 and 1744 , and otliers more rccently, by Ware and by Leoni.

Jones, sir William, an eminent lawyer and accomplished scholar, was born in London, Septenber 20, 1746. He lost his fatler when only three years of age, and the care of his education fell on his mother, a lady of uncommon endowuents.

At the close of his 7th year, he was placed at Harrow, and, in 1764, he entered University college, Oxford. Herc his desire to acquire the Oriental langnages induced hiin to support, this own expense, a native of Aleppo, to instruct him in the pronunciation of the Arabic language ; and as it was soon perceived that he wonld not misspend his time, the college tutors allowed him to follow his own plans numolested. His great object was to oltain a fellowship, to spare his mother the cxpense of lis education ; but, not succeeding in his wish, he accepted, in 1765, the office of tutor to lord Althorp, afterwards earl Spencer ; and, some time after, he obtained a fellowship also. He availed himsolf of a residence at the German Spa, with his pupil, in $\mathbf{1 7 6 7}$, to acquire the German language, and, on his return, translated into French a Persian life of Nadir Shah, brought over in MS. by the king of Deminark, at the request of the under sccretary of the duke of Grafton. Another tour to the coutinent, with his pupil and family, followed, which occupied his time until 1770, when, his tutorship ceasing, he entered himself as a law student in the Temple. He did not, however, wholly sacrifice litcrature to his professional pursuits ; but, on the appearance of the life and works of Zoroaster, by Anquetil du Perron, he vindicated the university of Oxford, which had been attacked by that writer, in an able pamphlet in the Freuch language, which he wrote with great elegance. He also published, in 1722, a small collection of poens, chiefly from the poets of Asia, and was the same year clected a fellow of the royal society. In 1774 appeared his work De Poesi Asiatica, containing commentaries on Asiatic poetry in general, with metrical specimens in Latin and English. He was soon after called to the har, and, in 1776, made a commissioner of bankrupts. Abont this time, his correspondence with inis pupil evinced the manly spirit of constitutional frecdom by which he was actuated; and to his feelings on the American contest lie gave vent in a spirited Latin ode to liberty. In 1778 appeared his translation of the Orations of Iseus, with a prefatory discourse, notes and commentary, which, for elegance of style, and profound critical and historical research, excited much admiration. In the mean time, lie rapidly adrauced in professional reputation, although his opinion of the American contest stood in the way of his progress to legal honors. The tumauts of 1780 induced him to write a
pamphilet On the Legal Mode of suppresting Riots ; and, in the following winter, he completed a translation from the Arabic of seven porms, of the highicst repute. He also wrote the much admired ode, commencing "What constitutes a state ?" These pursints did not prevent a professional Essay on the Law of Bailments. He distinguished himself, in 1782, among the friends to a reform in parliament, and also became a member of the Society for Constitutional Information. The same year, he drew up a Dialogue betwcen a Farmer and a Country Gentleman, on the Principles of Government ; for the puhlijention of which, the dean of St. Asapl, afterwards his brother-in-law, had a bill of indictment preferred against him for sedition. Upon this event, he sent a letter to lord Kenyon, then chief-justice of Chester, owning himself the author, and defending his positions. On the accession of the Shelburne administration, through the influence of lord Asliburton, he obtained, what had long been the object of his ambition, the appointment of judge in the supreme court of judicature, Bengal, to which he was nominated in March, 1783, and knighted. He arrived at Calcutta in September, 1783. Here a new field of action opened to him, and he planned a society in that capital, similar to the royal society of London, of which new institution he was chosen the first president. He then applied himself with ardor to the study of the Sanserit, and, his licaltlo soou suffering from the climate, he took a journey through the district of Benares, during which cessation of public duties, he composed a tale in verse, called the Enchanted Fruit, or the Hindoo Wife, and a Trcatise on the Gods of Grecee, Italy and India. In 1785, a periodical work, entiled the Asiatic Miscellany, was hegmu at Calcutta, to which he communicated several poetical compositions of the minor kind ; among which were nine hymms, addressed to as many IImdoo deities. IIc next employed his active mind in planning the compilation of a complete digest of the Hindoo and Mohammedian laws, with a view to the better administration of justice among the natives. This work he did not live to finish, but its subsequent accomplishment was entirely owing to his recommendation and primary labors. His olject in this instance was, to secure a due attention to the rights of the natives ; and he showed himself equally jealous of those of the British inhabitants, hy opposing an attempt to supersede the trial by jury: 'The publica-
tion of the Asiatic Researches, or memoirs of the society to which lie had given birth, also engrossed much of his attention ; and he enriched them himself with a number of curious and interesting papers. In 1789, he gave to the world the translation of an ancient Indian drama, entitled $S a-$ contala, or the Fatal Ring. His translation of the Ordinances of Menu, the famous Indian legislator, appeared early in 1794, and is very interesting to the student of ancient manners and opinions. Uuhappily, he was seized, in April, 1794, at Calcutta, with an inflammation of the liver, which terminated his life on the 27 th of the same month, in the 48th year of his age. Few men have died more respected and regretted than this amiable man and eminent scholar, who, as a linguist, has scarcely ever heen surpassed. His acquaintance with the history, philosophy, laws, religion, science and manners of nations, was most extensive and profomen. As a poet, too, he would probably have risen to great emincnce, if his ardor to transplant foreigu beauties, and his professional and multifarious pursuits, liad allowed him to cultivate his own invention with sufficient intensity. His private character was estimable in all the domestic relations, and he was equally liberal and spirited in public life. The memory of sir William Joncs received many testimonics of respect, both in England and India. The directors of the East India company voted him a monument in St. Panl's cathedral, and a statue in Bengal ; hut the most effectual monument of his fame was raised by his widow, who published a splendid cdition of his works, in 6 vols. 4to, 1799, and also, at her own expense, placed a fine marble statue of him, executed by Flaxman, in the antichamber of University college, Oxford.
Joses, Jolm Paul, was born at Arbingland, in Scotland, July 6, 1747. His father was a gardener, whose name was Paul ; but the son assumed that of Jones in subsequent life, for what reason is not known. Young Panl carly erinced a decided predilection for the sea, and, at the age of 12 , was bound apprentice to a respectable merchant of Whiteliaven, in the American trade. His first voyage was to America, where his elder brother was established as a planter. He was then engaged for some time in the slave-trade, hut quitted it in disgust, and returned to Scotland, in 1768, as passenger in a vesscl, the captain and mate of which dicd on the passage. Jones assumed the command, at the request of those on board,
and bronght the vessel safe into port. For this service, he was appointed by the owners master and supercargo. While in command of this ressel, he punished a sailor who afterwards died of a fever at the island of Tobago-a circumstance which gave rise to an accusation against Jones, of having caused his dcath, hy the severity of the punishment upon him ; but this has been completely refuted. Jones was afterwards in command of the Betsy, of London, and remained some time in the West Indies, engaged in commercial pursuits and speculations, by which it is said he realized a handsome fortune. In 1773, he was residing in Virginia, arranging the affairs of his brother, who had died intestate and clildless, and about this time took the name of Jones. In Virginia he continued to live until the commencement of the struggle between the colonies and mother comtry. He offered his services to the former, and was appointed first of the first lieutenants, and designated to the Alfred, on board of which slip, to use his own language in one of his letters, " he had the honor to hoist, with his own hands, the flag of freedom, the first time it was displayed on the Delaware." Soon after this, we find Jones in command of the Providence, mounting 12 four-pounders, with a compleinent of 70 men, cruising from the Bermudas to the Gut of Canso, and making 16 prizes in little more than six weeks. In May, 1777, he was ordered to proceed to France, where the American commissioncrs, Franklin, Deane and Lee, were directed to invest him with the command of a fine ship, as a reward of his signal services. On his arival in France, he was immediately summoned to Paris by the commissioners. The object of this summons was to concert a plan of operations for the force preparing to act against the British in the West Indies, and on the coast of America. This plan, which certainly did great honor to the projector, though untoward delays and accidents prevented its immediate success, was afterwards openly claimed by Jones as his own, without acknowledging the assistance or participation of the Ainerican commissioners or the French ministry. The Ranger was then placed under lis orders, with discretion to cruise where he pleased, with this restriction, however, that he was not to return to France immediately after making attcmpts upon the coast of England, as the French government had not yet declared itself openly as the ally of the U. States. April 10, 1778, he sailed on a cruise, during which he taid
open the weakness of the British eoast. With a single ship, he kept the whole coast of Scotland, and part of that of England, for some time, in a state of alarm, and made a descent at Whitelaven, where he surprised and took two forts, with 30 picees of cannon, and set fire to the ship,ping. In this attack upon Whitelaven, the house of the earl of Selkirk, in whose service the father of Jones liad been gardener, was plundered, and the fanily plate carried off: But the act was committed without his knowledge, and he afterwards made the best atonement in his power. After his return to Brest with 200 prisoners of war, he became involved in a variety of troubles, for want of means to support them, pay his crew, and rofit his ship. After many delays and vexations, Jones sailed from the road of St. Croix, August 14,1779 , with a squadron of seven sail, designing to annoy the coasts of England and Seotland. The principal oceurrence of this cruise was the capture of the British ship of war Serapis, after a bloody and desperate engagement, off Flamborough liead, Sent. 23, 1779. The Serapis was a vessel much superior in force to Jones's vessel, the Bon Honme Richard, which sunk not long after the termination of the engagement. The sensation produced by this battle was unexampled, and raised the fame of Jones to its acine. In a letter to him, Franklin says, "For some days after the anival of your express, scarce any thing was talked of at Paris and Versailles, but your cool conduct and persevering bravery during that terrible confliet. You may believe that the impression on my mind was not less strong than on that of the others. But I do 110 choose to say, in a letter to yourself, all I think on such an occasion." His reception at Paris, whither he went on the invitation of Franklin, was of the most flattering kind. He was every where caressed ; the king nresented him with a gold sword, bearing the inscription, Vindicati maris Ludovicus XVI remuneratur strenuo vindici, and requested permission of congress to invest him with the inilitary order of merit-an honor never conferred on any one before who had not borne arms under the commission of France. In 1781, Jones sailed for the U.States, and arrived in Philadelphia February 18 of that year, after a variety of eseapes and rencounters, where he underwent a sort of examination before the board of admiralty, which resulted greatly to his honor. The board gave it as their opinion, "that the conduct of Paul Jones
merits particular attention, and some distinguished mark of approhation from congress." Congress passed a resolution, highly complimentary to his "zeal, prudence and intrepidity." General Washington wrote him a letter of eongratulation, and he was afterwards voted a gold medal by congress. From Pliladelphia lie went to Portsmouth, New Hampshire, to superintend the building of a slip of war, and, while there, drew up some adinirable observations on the suhject of the American navy. By permission of congress, he subsequently went on board the French fleet, where he remained until the conclusion of peaee, which put a period to his naval career in the service of the U. States. He then went to Paris, as agent for prize-inoney, and, while there, joined in a plan to establish a fur-trade between the north-west coast of Amerieu and China, in conjunction with a kindred spirit, the celebrated John Ledyard. In Paris, lie continued to be treated with the greatest distinction. He afterwards was invited into the Russian service, with the rank of rear-adiniral, where he was disappointed in not receiving the command of the flect acting against the Turks in the Black sea. He found fault with the conduet of the prince of Nassau, the admiral ; became restless and impationt ; was intrigued against at court, and calumniated by his enemies; and had permission, from the empress Catharine, to retire from the serviee with a pension, which was never paid. He returned to Paris, where he gradually sunk into poverty, neglect, and ill health, until lis death, which was occasioned by jaundice and dropsy, July 18, 1792. His last public act was heading a deputation of Americans, who appeared before the national assembly to offer their eongratulations on the glorious and salutary reform of their government. This was before the flight of the king.Jones was a man of signal talent and eourage; he condncted all his operations with the most daring holdness, combined with the keenest sagacity in ealculating the chances of success and the consequences of defeat. He was, however, of an irritable, impetuous disposition, which rendered liim impatient of the anthority of his superiors, while he was, at the same time, harsh in the exercise of lis own; and he was deficient in that modesty whieli adoms great qualities and distinguished actions, while it disarms envy and conciliates jealousy. His early education was of a very limited kind. It terminated when he went to sea. at the age of twelve;
but he supplied its defects by subsequent study, so as to enable himself to write with fluency, strength and clearness, and to sustain his part respectably in the polished society into which he was thrown. In his letters, he inculcates the necessity of knowledge for naval officers, and intimates that he had devoted "midnight studies" to the attainment of that information which he deemed requisite in his situation. His memorials, correspondence, \&c. are quite voluminous. He also wrote poetry, anl, in Paris, was a great pretender to ton, as a man of fashion, especially after his victory over the Serapis, which, of conrse, gave him great éclat amongst the ladies of the French capital. At this period, he is described by an English lady then resident at Paris, as "a sinart little man of thirty-six; speaks but little French, and appears to be an extraordinary genius, a poet as well as a hero." An account of his life has been writen by J. II. Sherburne (Washington, 1828):

Jones, John, an American physician, was born at Jamaica, Long Island, in 1729. After receiving his education at a private school in the city of New York, he commenced the study of medicine, mider doctor Thomas Cadwalader, and adterwards visited Europe, to improve his professioual knowledge. He obtained the degree of doctor of medicinc from the miversity of Rheims, aud, having subsequently spent some time at Leyden, concluded his medical tour by a visit to Edinburgl. Returning to America, doctor Jones settled in New York, where he was speedily introduced to an extensive practice, and acquired particular reputation as tul operator. When medical schools were instituted in the collcge of New York, doctor Jones was appointed professor of surgery, upon which branch he delivered several courses of lectures, diffusing a taste for it among the students, and explaining improvements as practised in Europe, of which the American faculty were litherto ignorant. Having for a considerable time been afflicted with the asthma, he embarked for London, where he experienced some alleviation of his complaint. He returned to his native country at a crisis when she required the exertions of all her citizens. In the year 1775, he published his Plain Remarks upon Wounds and Fractures-a work particularly useful to the country at that pefiod. Many persons had been of necessity chosen to act as surgeons in the continental army, who were ignorant of the recent improvements in the profession.
and found in this work a valuable assistant. When the British troops took posscssion of New York, doctor Jones, notwithstanding the assurances of protection from the royal commander, retired into the country, relinquishing his lucrative practice in the city. Hc was soon after chosen to a seat in the senate of New York, and subsequently entered the medical department of the army. The hardships of a military life injured lis delicate health, and obliged him to abandon the service, for his private practice. Having fixed his permanent residence at Philadelphia, lic was elected, in 1780 , one of the physicians of the Pemsylvania hospital. Upon the institution of the college of physicians of Philadelphia, in 1787, doctor Jones was elected vice-president, and contributed to the first volume of its transactions an interesting paper on $A n$ thrax. He was the intinate friend and physician of doctor Franklin, whom he attended in his last illness, and published a brief account of his death. In 1790, he attended general Washington, then president of the U. States, when very ill at New York. When the seat of the federal goverument was renoved to Philadelphia, the president appointed doctor Jones physician to his family. In June, 1791, he contracted a fever, which, added to his previons disorder, put a period to his life on the 23 d of that month, in the 63d year of his age.
Jongleurs. (See Jugglers.)
Joxson, Benjamin, a celebrated English poet, the contemporary and friend of Shakspeare, whom he has bcen accused by some, but on insufficient grounds, of regarding with cuvious and malignant feelings. Ine was the posthumous son of a clergyman, who had suffered considerable privations for his religious opinions, and was bom Junc 11, 1574, at Westminster; at the grammar-school of which city he was placed, under Camden, at an carly age ; till his mother marrying again to a person who held the humble occupation of a bricklayer, young Ben, as he was familiarly called, was taken home abruptly by his father-in-law, and employed by him as an assistant in his trade. The ardent spirit of the future poet revolted against his condition ; he fled from home, and cintered the army as a private soldier, in which capacity he served with much commendation from his officers on the score of personal courage, during a campaign in Holland. Returning to England, he quitted the service, and, although his straitgned circmustances threw in his way
obstacles of no common magnitudc, he detcrmined to apply himself to literary pursuits. With this vicw, he contrived to enter himself of St. John's collcge, Cainbridge ; but his failing resources prohibiter him from continuing long at the university. He went to London, and commenced at once author and actor by pro-fession-two callings then frequently cornbincd. His progress as a performer was not rapid, and, before he could make any great impression in his favor, a quarrel with a brother actor seemed to close every avenue against this method of gaining a reputation. He had made his début at the Curtain, an obscure theatre on the skirts of the town, and, a difference arising between him and another member of the company, a duel ensued, which terminated in the death of his antagonist, while he himself received a wound in the swordarm. He was seized and imprisoned, and narrowly escaped with life, in consequence of this rencounter. During his confinement, he is reported to have become, through the intervention of a Roman Catholic priest, a convert to that communion, and to have remained so during a space of twelve years, when he resumed his former opinions. His first attempt at dramatic composition, in the prosecution of which he is said to lave been much encouraged, if not actually prompted, by Shakspeare, was in 1598, when his Every Man in his Humor, still considercd a standard piece, was printed; and from this period, he seems to have produced a play annually for several years, besides writing, occasionally, masks and intcrludes, for the entertainment of the court. The favor he had enjoyed there, was not, however, sufficient to protect him from the consequences of a severe and imprudent satire on the Scottish nation, in a dramatic piece, which he wrote in conjunction with Marston and Chapman, entitled Eastward Hoe. The anger of the court favorites was at once drawn upon his head by this unfortunate sally; he was a second time cominitted to prison, and only a timely submission saved his nose and ears, which he was condemned to lose in the pillory as a libeller. By his address, however, he soon contrived to reinstate himself in the favor of a monarch to whose pleasures the effusions of his muse had become necessary ; and for the remainder of that reign he continued in high favor as a kind of superintendent of the court revels, enjoying, at the same time, the friendship of all the wits and literati of the age. After a tour through

France, in 1613, in the progress of which, with his usual carelessness, he affronted cardinal Du Perron, he returned to England, and afterwards obtained the honorary degree of A. M. from the university of Oxford. On the death of the poet laureatc, Jonson was appointed his successor, and the salary of 100 marks, attached to that post, was, on his petition, raised to the sum of $£ 100$ by Charles I. But neither this addition to his incoine, nor a subsequent gratuity from the same royal source, could save him from the consequences of pecuniary improvidence. An attack of palsy at length carricd lim off, Aug. 16, 1637. Jonson's best dramas are his Alchymist, Epicene, and Volpone, which, besides being admirable as to plot and developement, exhibit traits of pungent humor, strong conception, and powerful discrimination. The remainder of his dramas are inferior. His tragedies of Sejanus and Catiline are too learned and declamatory either for the closet or the stage, and a great portion of his comedy is low, forced and unnatural. Contrary to Shakspeare, he deals rather in passing manners and eccentricities than in general nature, but supplies a good notion of the follies of his times. His poetry is occasionally illuminated by vigorous and pleasing passages, and a few of his short pieces, poems, and, especially, the Hyinn from Cynthia's Revels, his epitaph on the countess of Pcmbroke, and some of his songs and Underwoods are excellent. Bcsides his dramatic and poctical productions, he was the author of a variety of miscellaneous works, among which are an English Gramm 1, Discoveries, \&c. Several editions of his works have been published, the last and most complete of which is that by Mr. Gifford. A curious tradition prevailed with respect to the deposition of his remains in Westminster abbey, where a handsome tablet has been erected to his memory, in Poet's corner, inscribed 0 rare Ben Jonson! The same words are found on sevcral small square stones in the floor of the abbey, under one of which it was generally believed his corpse was buried in a perpeudicular position. This was ascertained a few years since to be the fact, his coffin being discovered so situated in one of the aisles during the preparations making for a recent interment.
Joppa. (See Jaffa.)
Jordan. This river, celebrated in Scripture history, rises at the foot of the Antilibanus in Syria (in the pachalic of Da mascus), forms the lake Genezareth or

Tiberias, traverses Palestine, of which it is the only important river, from north to south, receives the Kedron, and, after a course of about 150 iniles, empties into the Dead sea. The banks are stcep, and about 15 feet high. Its borders, once cultivated and iuhabited, are now deserted, and its yellow water rolls slowly in the sand. The Hebrews called it Jordan (river of judgment) ; the Arabs call it Nahar-elChiria (river of the ford). They aseribe to bathing in its waters the power of heal-ing.-On the countries near the Jordan and eastward, see J. S. Buckingham's Travels among the Arab Tribes inhabiting the Countries east of Syria and Palestine (London, 1825, 4to.).

Jordan, Dorothea; an English actress of eminence in various departments of the drama. Her father, captain Bland, of a respectable Irish family, cloped with her mother, who was a native of Walcs, by whom he had a numerous offspring. The subject of this article adopted the theatrical profession, for the support of herself and her mother, and made her first appearance at Dublin, in the character of Phebe, in As you Like it ; but her talents first attracted particular attention in tragedy. At the theatre of York, she assumed the name of Mrs. Jordan, by which, though never married, she was subsequently known. In this situation, she continued three years. She made her first appearance before a London audience, as Peggy, in the Country Girl; and, in that character, in Nell, in the Devil to Pay, and others of a similar cast, she displayed unrivalled excellence. She appeared to almost equal advantage as a tragic actress, where tender rather than violent and lofty feelings were to be portrayed. Her long theatrical career was terminated by her retircment to France, where shc resided in obscurity, and died (1816) without a relative or friend ncar her, to soothe the hours of sickness, or bestow on her remains the decent rites of sepulture. She was, for a long time, the mistress of the duke of Clarence, now William IV, who had several children by her. Since his accession, the king has ordered Chantrey to prepare a statue, to be placed over her remains, in the cemetery of St. Cloud.

Jordano. (See Giordano.)
Jornandes (properly Jordanes), by birth an Alan, lived under the cmperor Justinian, was at first a notary, and afterwards took the monastic vows, but is erroneously styled bishop of Ravenna. His De Gothorum Origine et Rebus Gestis, and his
chronicle De Regnorum et Temporum Successione, which come down to the ycar 552 , arc of much value, though written in barbarous Latin. They are contuined in Muratori's Script. Rerum Italicarum.
Jortix, John, D. D., an eminent scholar and divine, was born in London, in 1698, and was educated at Cambridge. Here, under the instruction of doctor Thirlby, he acquired so high a character for leaming and acuteness, that he was recommended by his tutor to Pope, to extract the notes from Eustathius, to print with his translation of the Iliad. He took orders in 1724, and he served a clapel of ease to the parish of St. Giles in the Fields. In 1731, in conjunction with some learned coadjutors, he gave to the world Miscellaneous Observations upon Authors, Ancient and Modern (two volumes, 8 vo .); and, in 1751, appeared the first volume of his Remarks upon Ecclesiastical History, of which four volumes more were published in 1752 and 1754, and two more after his death in 1773. In 1755, he published Six Dissertations upon various Subjects. In 1758, he published his Life of Erasmus (4to.); in 1760, another 4to. volume, entitled Remarks upon the Works of Erasmus. In 1762, he received the living of Kensington, the duties of which he performed for the remainder of his life. In 1764, he was made archdeacon of London, and died Aug. 27, 1770. Besides the works already mentioned, doctor Jortin was the author of Remarks upon Spenser (1734, 8 yo.); Remarks on Sencea; Letters on the Music of the Ancients; and other miscellaneous productions, which appear in two volumes of Tracts, Philological, Critical and Miscellaneous. Seven volumes of his Sermons and Charges were also published after his death, in 1771 and 1772.

Jorullo, Jurullo, or Juruyo, or Xurullo; a volcano of Mexico, in Mechoacan, 30 miles south Pasquaro, 65 south-south-west Valladolid; lon. $103^{\circ} 52^{2} \mathrm{~W}$.; lat. $19^{\circ} 9 \mathrm{~N}$. This volcano was formed on St. Michael's day, in 1759, in the middle of a beautiful, fertile and plcasant valley, which extends three leagucs from east to west, and more than 8 from north to south. By the skirt of this mountain passes a stream, which before fertilized the valley, and which is called del Salto. The waters are so hot that men or horses passing through it are in danger of being scalded.

Josefinos. (See Afrancesados, and Joseph Bonaparte.)

Joseph, St.; husband of the virgin

Mary, the mother of Jesus, a Jew of the tribe of Judah, whose genealogy from Abraham and David is given by St. Matthew and St. Luke. He is represented in the New Testament as anl lumble niechanie, and a just man; but little is known, with certainty, of his history.
Јозерн, the son of the favorite Rachel, was tenderly beloved by his father Jaeob. Stung with envy and with the arrogance which they thought was displayed in his innoeent dreams, his brotlers sold him to some Ishmaelitish slave-dealers, by whom he was sold to Potiphar, a distinguished officer in Egypt. The prudence and fidelity which he displayed in the service of his master ameliorated his condition; but his refusal to comply with the unlawful desires of Potiphar's wife caused him to be thrown into prison, at her instigation. Yet, even here, Joseph was able to gain the confidence of the keeper; and the interpretation whieh he gave to a dream of the king's butler, who was likewise in prison, opened for lim the way to a better fortune; for, after the butler had been restored to favor, Pharaoh and his whole court were troubled by a dream. The butler remembered the Hebrew boy, who had given so happy an interpretation to his own dream when in prison. Joseph was brought to court, and explained the king's dream of seven fat and seven lean kine. The monarch now released him from coufinement, and raised him to the second place in the empire. He suggested wise measures for preserving the people from famine, during the unproductive years which he had predicted, and Pharaoh comnitted to him the charge of earrying then into execution. Married to the daughter of an Egyptian nobleman, in possession of the highest power next to the royal, Joseph saw all his wishes gratified, except his yearning after his relations. In the years of famine, his brothers came to buy corn from the stores which he had collected in Egypt. Without making liimself known to them, he endeavored, by some harsh treatment, to discover their thoughts, and to make them repent of the wrong which they had done him. His feelings at length overcame him. He disclosed hirnself to his brethren, and provided them and his father with lands in Egypt. He was now their benefactor, and therefore Jacob, in his last blessing, gave to his two sons equal rights with the other brothers, and the two tribes of Manassel and Ephraim preserved the memory of Joseph annong the Hebrews.
Joseph I, emperor of Germany, son of

Leopold I, horn at Vienna, July 26, 1678, received the crown of Humgary in 1689, and was soon after crowned as Roman king. In 1705, he began his reign, whicll, though short, was troubled by wars in the Netherlands, Hungary, Germany, Italy and Spain. He was well disposed, but weak and indolent. He revived the imperial chamber. The Protestants enjoyed toleration and some privileges under his reign. He died April 17, 1711.

Joserf II, German emperor, son of Francis I and Maria Theresa, was born March 13, 1741, at a tinue when Frederic the Great had already conquered half of Silesia, and the Bavarian army was approaching the Austrian frontiers, when the peace of Aix-la-Chapelle restorcl the sinking state. Joseph was inferior to his hrother (Leopold II) in learuing, but he displayed an aetive and penetrating mind, and made much progress, particularly in the languages, mathematics and musir. His lively temperament often brought him into collision with his mother, whom he obeyed from respect, but withont convietion, and with secret reluetance. He observed how much her devotional spirit was abused, and he imbibed an invincible aversion to the clergy. She set a great value on birth, and he early aequired a dislike for undeserved privileges. In the mean time, the seven years' war laving broken out, every preparation was made for the young prinec joining the army, when Maria Theresa recalled her order. In 1760, he unarried Elizabeth of Parna, who died on her second confinement. He also lost his second wife, a Bavarian princess. He was eleeted king of the Romans in 1764 , and, on tlie death of his father, 1765, Gerinan emperor. Ifis mother deelared him co-regent in the hereditary states of the house of Austria, and gave him tho command of the army ; but the real authority remained in her hands. During the war, Joseph had had eause to admire the great enerny of his house. Animated by this example, he entered on his elevated career; but, as he had but little real power, excepting in military affairs, in which, with the aid of Lasey, he introduced some improvements, he employed this time in travelling, and becoming aequainted witl his states. On one of these journeys, under the title of count Falkenstein, he visited Frederic the Great in his camp at Neisse, Aug. 25, 1768 . The two monarchs, dispensing with ceremonies, met on terms of familiarity, like friends. In the following year, the emperor, in his camp, received a visit from Frederic. In 1777, Joseph
marle a journey to Paris, where he spent six weeks. Every body was charined with him. At the end of this year, the - leetor of Bavaria died, and the war of the Pavarian succession broke out betwecn Yrussia and Austria, to which Maria Thejesa put all end, without the knowledge and contrary to the wishes of her son, whn was desirous of mcasuring himsolf in the field with his great advensary. In 1780, Joseph came into the possession of full dominion over his hereditary states, at the age of 40 years, and was thus the sovereign of more than 22 millions of men, with a fine army. Ifis people adored him; the nobility and elergy alone liad reason to fear him. Josepli had drawn on himself their hatred, by ordinances which were, in many respects, very excellent. He allowed a greater freedoin of the press, put an end to the comexion between Rome and the religious orders, diminished the perisions, placed the Jews on a better footing, abolished hondayc, suppressed all numeries end many monasteries, partienlarly those in whieli there were no sehools, or the sick were not taken care of, or the monks did not preach. In the *pring of 1782 , pope Pius VI made a visit to Vienna. Joseph afterwards returned his visit at Rome, still continuing to suppress inomasteries, so that in eight years, the numher belonging to the different orders had sunk fronl 63,000 to 27,000 . All branches of the govermnent, public education, the police, the state of the elergy, and the peasontry, were reformed. By a new code of laws, eapital punishments were abolished. His attenpts at reform in Hungary, which he wished to render uniform with his German states, caused a rebellion of the Walachians, which he could quell only by the execution of its leaders, Horia and Gloska. Then followed, 1784 , the dispute with Holland, concerning the free natigation of the Scheldt, and the negotiations for the exchange of tho Netherlands for Savaria, against which the confederacy of the German princes was formed, in 1785. In 1787, under the title of count Falkenstein, Joseph made a journey into the Crimea, where Catharine gave him a inost splendid reecption at Cherson. After lis return, he expericuced a serics of nisfortunes. Disturbances having hroken out in the Netherlands, Joscph discontinued his reforms, and quict seemed to be restored. Feb. 9, 1788, he declared war against the Turks. By the defeat at Lugos (Sept. 20, 1788), the army was obliged to retreat, and suffered dreadfully in consequence of the heat and the unhealthi-
vol. Fil.
ness of the country. Joseph limself, exhausted and chagrined by the misfortune of his army, returned sick to Viema in Deccmbicr. In the following year, fortunic favored the Austrian arins; Belgrade was surrendered to Laudoln, and the Russians made great progress. The principal causc of the difficulties which Joseph next had to encounter, was the tax law, introduecal in Novenber, 1729. The nobility and peasautry showed themselves equally dissatisfied, and the signal was given for gencral disorder and open rebellion. The Netherlands deelared themselves independent, and expelled the imperial forees from all the provinces, and Luxemhurg only remained in the possession of the imperial troops. Josepli showed limself ready to make concessions; but all his proposals were scornfully rejected. The Irungarians, also, whose general dissatisfaction had been only slumbering, rebelled, and demanded the restoration of their ancient rights and constitution. To the astonish1ment of all Europe, Joscph, in January, 1790 , declared all the aets of his government in that country revoked, even to the ediet of toleration (June 22,1781 ). Tyrol slowed signs of dissatisfaction, and Joseph hastened to put every thing on its former footing. His health sunk under these accumulated mortifications, and the conserquenees soon hecame apparent. Felmuary, 1790, he was scnsible that death was rapidly approaching, and, on the 20th, lic dicd of a pulmonary consumption.Joseph was of the middle size; of a lively disposition, fickle, and fond of action, of ruling, of destroying and building up. Courage in danger was a striking trait in his character. IIe had a strong and lively sense of the dignity of man, an. rospected it in all. He causcd the Augarten, hitherto closed, to be made public, and placed over the entrance the inseription, "Dedieated to all mcn, by one who values them." When requested to perinit only eertain classes to walk in the Prater, in order that they might enjoy themselves there with their equals only, he refused, and added, ": If I would live only with my equals, I must go to the tomb of the cniperors, at the capuehin chapel, and there spend my days." To Schmidt, the historian of Germany, he said, "Spare no one, and not even myself, if you come down so far with your listory. Posterity must judge my faults, aud those of my predecessors." Frederic the Great wrote to Voltaire concerning him-"Joseph is all emperor such as Germany has not had for a long time. Educated in splendor,
his habits are simple; grown up amidst flattery, he is still modest; inflamed with a love of glory, he yet sacrifices his ambition to his duty." Joseph's favorite object was to be sovereign in a peculiar sense, and to manage the great macline of the state entirely himself. Whatever his own reflections, or his knowledge of other countries, showed to be useful, he wished to introduce. But he did not sufficiently consider that he had to do with other nen, with other relations, and that long habit rendered it difficult to change, at once, usages sanctified by time; that other men did not possess his knowledge and experience. The present emperor of Austria, Francis I, his nephew, has caused a monument to be erected to him by Zau-ner.-See Anecdotes of the Emperor Joseph II, and Pezzl's Charakteristik (Vienna, 1790). Dohm's Memoirs also contain important information on Joseph's system of goverıment and reform. The Letters of Joseph II (Leipsic, sccond edition, 1822) are valuable.

Joseph Bonaparte. (See Appendix to this volune.)
Joséphine (Rose-Tascher de la Pagerie), empress of the French, queen of Italy, was born in Martinique, June 24, 1763. While very young, her father took her to France, to marry her to the viscount Beaularnais ( $\mathrm{q} . \mathrm{v}$.),-a marriage arranged by the two families, when the marquis Seauharnais was governor-general of the Antilles. Madame De Beauharnais, in the prime of her beauty, and still more adorned by that peculiar grace which distinguished her throughout her life, had what was then called great success at court. She bore the viscount two children, Eugine (q.v.) and Hortense; but neither the brilliant life of the court, nor her love for her children, had been able to lessen her filial attachment to her mother, to attend whon, in her sickness, she went to Martinique, in 1787. She took her daughter with her, and passed three years in the island. The troubles which then broke out very suddenly, obliged her to flee without taking leave of her mother, and to return to France, where she arrived after narrowly escaping great perils. A siugular prophecy had been made to her when a child, which she used to mention when it was apparently fulfilled in her high destiny. She is said frequently to have indulged in this play of divination. Her husband was known, in the beginuing of the revolution, as an advocate of constitutional principles, and his standing, as well as the benevolence of his wife, natu-
rally made their house a kind of asylum for the unfortunate. Mlle. De Béthisy, condemned by the revolutionary tribunal, owed her life to the courageous intercession of Mad. De Beaularnais. But the fury of terrorisin increased, and her husband, who had valiantly defended France, at the head of its armies, was thrown into prison, and executed. She was also included in the list of proscription; but the death of her husband reduced her to such a state that she could not be removed, and to this circumstance she owed her escape from execution. Robespierre at length perished, and the viscountess was delivered from prison by Tallien, who was never forgotten by her, nor by Eugine, from whom he received a considerable pension till his death. Joséphine was indebted to Barras for the restoration of a part of the property of her husband, and at his house, after the 13th Veudémiaire, she met general Bonaparte, who had previously taken an interest in her for the following reason: The disarning of the citizens having been decreed, a boy of fifteen years presented himself to Bonaparte, and with great earnestness demanded the sword of lis father. The boy was Eugene; and Bonaparte, touched by his filial zeal, was desirous to become acquainted with his mother, to whom he inmediately became attached. He marricd her in 1796, and never ceased to have the greatest esteem for her. She followed the hero of Italy, and her whole life was now intimately conuected with that of Napoleon, at whose side she stood, like a good genius. She had considcrable influence over him, and his letters to her are proofs of her aniable character, and of his warm attachment to her. She was always benevolent, and accessible to any who sought protection or mercy from Napoleon through her. The comparison which Napolcon drew, at St. Helena, between the two empresses, as recorded in Las Cases' Memorial, is honorable to both. Bourricme tells us, that some shameful calumuies rendered general Bonaparte jealous while in Egypt, but that, soon ufter his return, every thing was adjusted. Joséphine used her influcuce in favor of many emigrants, encouraged arts and industry, and protected the humblest artists whom she found worthy. "If I," said Napoleon, "win battles, yon win hcarts;" and it certainly seems as if Napoleon could not have found a woman who united all the qualities of heart and mind, which would fit her for the companion of his career, in a greater degree than Joséphine. Polignac and Riviere owed their lives to her. Her
court was no less admired in France than she herself was beloved. She loved pomp. When Napoleon ascended the throne, a divoree was proposed, but the emperor rejected the proposition. Josephine was crowned at Paris and at Milan. When Nupoleon became desirous of marrying a princess, she felt it decply, yet she lad firmness enough to consent to what he thought best for France and for himself. She retired to her beautiful seat of Malmaison, with the title imperatrice-reine-douairière (empress-queen-dowager), where the respect and the love of all the French followed her, who was called l'étoile de Napoleon. She was doomed to see the destruction of that throne on which she had onee sat. The emperor Alexander and the king of Prussia, but particularly the former, showed their respect for her virtues hy repeated visits to Malmaison; but the fate of Napoleon undermined her strength, and, having exposed herself while in a feeble state of health, by walking with Alexander, she took a cold, and died in the arms of her children, May 29, 1814. Her last worls were L'ile d'Elbe!-_Napoléon! Her body was deposited in the chureh of Ruel, and was followed by a numerous procession, in which the emperor Alexander was represented by general Sacken. Seven years afterwards, her children reccived permission to erect a monument to her, who had so long been called the guardian angel of France. Joséphine was handsome; her figure was elegant and majestic; but her greatest charms were her grace and goodness of heart. The Mémoires Historiques et Secrets de l'Impératrice Joséphine (2 vols., published in November, 1820, by the famous Parisian sibyl, Mlle. Le Normand) contain many interesting, thongh unauthenticated ancedotes, respecting the life of this remarkable woman.

Josephus, Flavius, born 37 years after Christ, at Jerusalem, of the order of the priesthood, was an ornament to the sect of the Pharisees, to which he belonged, and for a long while governed Galilee. He afterwards obtained the command of the Jewish army, and supported with courage, with wisdom and resolution, a siege of seven weeks, in the fortified town of Jotapha, where he was attaeked by Vespasian and Titus. The town was betrayed to the enemy: 40,000 of the inhalitants were cut to picees, and 1200 were made prisoners. Josephus was discovered in a cave, where he had concealed himself, and was given up to the Roman general, who was about to send him to

Nero, when, as it is related, he predicter that Vespasian would one day enjoy the imperial dignity, and thereupon had the good fortune to obtain both freedom and favor. This induced him, when he went with Titus to Jerusalem, to advise his countrymen to submission. After the conquest of Jerusalem, he went with Titus to Rome, and wrote the history of the Jewish war, of which he had been an eye-witness, inseven books, hoth in the Hebrew and Greek languages-a work whiel resembles the writings of Livy more than any other history. His Jewish antiquities (in 20 books) is likewise an excellent work. It contains the history of the Jews, from the earliest times till near the end of the reign of Nero; but it is censured, as giving an incorrect account of the miracles of Christ, and as suppressing or altering every thing which inight have given offence to the heathen. As a wise politician, he made the predictions of a Messiah refer to Vespasian. His two books on the Antiquity of the Jewish People contain valuable extracts from old historians, and are aimed at Apion, an Alexandrian grammarian, and an open adversary of the Jews. The best edition of his works is that of Havereamp (Amsterdam, 1729 , in two volumes, folio, Greek and Latin). The last edition is by Oberthưr (Leipsic, 1781-85).

Josquin de Prez, Adrian, Josquinus, or Jodocus de Prato; one of the greatest musical masters of the Netherlands, who received the surname Prato from his residence during several years at Prato in Tuscany. He was a pupil of John Okenhein, called the Sebastian Bach of his time. After having studied with Okenlein, Josquin went to Italy, received an appointment, in 1475, in the papal chapel, and aequired so muel reputation by his moteltcs, masses, and other chureh compositions, that he was invited to Cambray, made chapel-master to Louis XII and Franeis I, and then to the German emperor Maximilian I. He died at Brussels, where his tomb is shown in the church of St. Gndala. He was justly admired as a contrapuntist, a hundred years before Palestrina and Orlando. "Josquin," said Luther, after having heard one of his masses, " is master of the notes: they must do as he chooses: other composers must do as the notes choose." The celebrated Senfel and Nicolas Gombert were his pupils. (See Burney's Hislory of Music, or the article Josquin, in Rees'sCyclopedia.)
Joujou (French, which, literally translated, would be play-play); a plaything, cor1-
sisting of two thin circular plates of wood, abont two inches in dianneter, united in the centre by a cylinder one sixth of an inch long. Fixed to the cylinder is a rord about a yard long or more, which is fistened with a noose to the finger. If the cord is wound round the cylinder, and the joujou is let fall, yon can, by a pull before the whole eord is wound off, make the joujou wind itself up entirely. In this the whole play consists, and yet, from 1790 to 1794, the joujou was so fashionable in Frauce, that the highest persons were seen playing with it on their walks, and in society. The fashion also extended to Germany.

Jourdan, Jean Baptiste, count, marshal and peer of France, born in 1762, at Limoges, where his father practised as a surgeon, entered the military service in 1778, and fought in America. After the preace, he employed himself in commerce. f11 1790, he took service in the national Fuard: in 1791, he commansted a hattalion of volmeers in the army of the North: i! May, 1793 , he was appointed general of l)rigade, and, two months after, general of division. In the battle of Ilondtschoote, he mounted the enemy's works, at the head of his troops, and afterwards received the command of the army, in the place of Houchard. Oct. 17, he gained, after a struggle of 48 hours, the battle of Wattignies over the prinee of Coburg; but, because he disobeyed the directions of the committer of sufety, to act immediately on the offensive with newly levied and undisciplined troops, Pichegru received the chief command in his place. Jourdan, however, soon after receised the command of the anny of the Moselle, in the place of Hoche. He opened the campaign hy the victory of Arion. He afterwards effected the junction of his troops with the right wing of the army of the North, passed the Sumbre, besieged Charleroi, and gained, June, 1794, the victory of Flemrus, by which he beeame master of Belgium, and drove the allies beyond the Rhine. We can thus regard Jourdan as the conqueror of Belgium, and of the lett bank of the Rhine. In September, 1795, he crossed the Phine at Boun, Neuwied and Düsscidorf, while Pichegrn did the same thing at Manheim. He conld not, however, maintain his station on the right bank. He afterwards took the place of Pichegru, and undertook, in 1796, the celebrated invasion of the right bank of the Rhine, in which he conquered Franconia, und pressed forward towards Bohemia aurl latisbon. But the arch-duke Charles defeated him, and his retreat to-
wards the Rhime became at last a disorderly flight; whereupon Beumonville took the commaud. Jourdan retired to 1amoges as a private individual. In March, 1797, he was chosen a member of the: council of five lmodred, and was twiee their president. He remained a firm friend to the republic. Here, ton, be was in opposition to his rival Pichegron. In the events of the 18th Fructidor, he was ou the side of the directory. It was he who proposed the law concerning the conseription. Being afterwards appointed general of the ammy of the Dituube, he crossed the Rline, March 1, 1799, entered Suahia, attacked the arch-dinke Charles, was beaten at Stockach, March 25 , and was forced to reireat. April 10, he was superseded hy Missena. After the revolution of the 18 th Jrimaire (Nov. (), which he opposed, he received (July, 1800) the command of Piedmont. In 180: , le became a momber of the state conncil, and was chosen to the senate. In 1803, Napolcon mamed him general-in-chief of the army in Italy, and, in 1804, marshal of France, and grand cross of the legion of honor. When, in September, 1805, he dechared that his army was too weak, Massena received the command of it. In 1806, he went, as general-in-chief, under king Joseph, to Naples, and, in 18(08, he followed hin as major-gencral to Spain. Vexed at finding cvery misfortune laid to his charge, hic: returned in 1809; but, when Napoleor undertook the war against Russia, Jourdan was ordered back to his post in Spain. After the loss of the decisive battle of Vittoria, Junc 21,1813 , Jourdan lived in retirement at Rouen. In 1814, he was apspointed commander of the fifteenth division. In this station, he declared in favor of Louis XVIII. March 10, 1815, he took the outh of allegiance anew to the king, and, when the latter left France, retired to his seat. Napoleon made him a peer in June, and intrusted him with the defence of Besanceon. After the return of Lonis, Jourdan was one of the first to declare for him. He afterwards presided instead of Moncey in the courtmartial upon marshal Ney, which declared itself incompetent to judge him. In 1816, the king of Sardinia sent him his portrait, as a token of his gratitude for his admiuistration of Piedmont, in 1800; and Louis: XVIII named hinn, in 1817, commander of the seventh division, and, in 1819 , raised him to the peerage. He belonged to the party of the liberal constitutionalists.

Journal. Every one has found, with surprise, how quickly impressions, ever
of important events, vanish; how quickly we confound dates and forget names. "It is singular," says Byron, "low soon we lose the impression of what ceases to be constantly before us: a year impairs: a lustre obliterates. There is little distinct left without an effor of memory," \&c. For him, then, who wishes to live beyond the passing moment, and retain vividly the memory of his past life, it is of great importance to keep a journal. The practice, indeed, is somewhat in disrepute, owing to the frivolous details of some jouruals, and the sentimental folly of others. Experience leads us to advise the keeping of a brief journal, to retain the vestiges of the passing time. A date, a name, a jest, a grave observation, interspersed now and then with a whole day's proceeding, given in as condensed a form as possible, a slight drawing, \&c., may afford valuable reminiscences. A simple rule is to put every thing in your journal which you expect will be interesting to you after a series of years. Young persons especially should avoid loading their journals with sentiment. In addition to the pleasure which we derive from a faitlıful picture of our former lives, it is very useful for a hundred purposes, to lave the means of finding exact dates, descriptions and names.

Journal, in navigation; a sort of diary or daily register of the ship's course and distance, the winds and weather, together with a general account of whatever is material to be remarked in the period of a sea voyage, such as the shifting, reducing or enlarging the quantity of sail, the condition of the ship and her crew, the diseovery of other ships or flects, lands, shoals, breakers, soundings, \&c.

Journal is also the nane given to newspapers and some other publications which appear at regular intervals. (See Netcspapers, and Periodicals.)

Journeyman, formed from the Frencla journée (a day's work), anciently signified a person who wrought with another by the rlay; but it is now used to designate any mechanic who works for another in his employment, whether by the tnonth, year, or any other term. It is applied only to mechanics in their own occupations.

Jouy, Victor Etienne de, inember of the second class of the institute, since 1815 a nember of the French academy, a popular dramatic poet, born 1769 , at Jouy, near Versailles, was, for a long time, a soldier, having served, in 1787, in Cayenne, then during the revolution, was eeveral times imprisoned, entered the ser-
vice again, and retired 1797, since which time he has devoted himself entirely to literary studies. He was the author of the famous opera, the Vestal (1820, set to music by Spontini), Ferdinand Cortez, Les Bayadercs, \&c. He is particularly happy in describing the manners and custoins of the day, and lashes folly ably. His Hermite de la Guiane and FrancParleur have been translated into English, as have several of his other works. He was also a contributor to the periodicals. His tragedy Sylla was performed 150 times, between 1821 and 1824. The Cuvres completes d'Et. Jouy appeared, Paris, 1823 et seq. (See Jay, Antoine.)

Jovellanos, Gaspar Melchior de, one of the most distinguished Spaniards of modern times, was born in Gijow, in Asturia, Jan. 5, 1744, of an ancient and noble family, and studied at Oviedo, $\Lambda$ vila and Alcala de Henares. As soon as he left college, according to the custom of the country, to raise lawyers of noble birth immediately to the bench, Jovellanos was made alcalde del crimen, or a member of the criminal branch of the audiencia in Seville. Count Aranda, then president of the council, becolning acquainted with him, seems to have marked him out for one of his new school of administration, in his attempts to inprove the state of the country.* He adranced rajudly in his professional carcer, in the complicated system of the Spanish judiciary, and was finally :ippointed to the quiet and dignified station of member of the council of the military orders at Madrid. Herc lie became a useful member of various learned societies, particularly of the Real Sociedad economica Matritenze de Amigos del Pais-an institution intended for the promotion of agriculture, manufactures and trade. In the neetings of this society, he read his Elogios of the celebrated architect don Ventura Rodriguez, and of king Charles III; and it was by the command of the same body that lie woote his celebrated Informe sobre un Proyecto de Ley Agraria, to which he mainly owes his fame. It is not true that he was prosecuted for the free principles expressed in this work. Jovellanos formerl an intimate friendship with a brilliant French adventurer, Cabarrus, which proved fatal to him; for the latter became entangled in a prosecution, instituted by count Lerma, minister of finances, which led to lis disgrace at court, and he

[^13]was banished to lis uative place. Here the remained from 1790 to 1797 , entirely devoted to his various studies and useful projects, including, among other things, the working of coal mines. He also founded the royal Asturion institution-his darlines project up to the last moments of his life. Meanwhile don Manucl Godoy, afterwards Prince of Peace, had risen, or rather leaped, from the barrack to the station of prime minister. Godoy was an ignorant man, who happened to adopt the idea of being a "philosophical minister." Cabarrus becane his favorite, and Jovellanos was again invited to office, which lie accepted with great reluctance. On lis arrival at Madrid, he dined with Godoy and his mistress; and we learn from one of his letters how repugnant this and the whole affair were to his stern virtue. Still, the thought that he might do some good in the wretched state of the public administration, kept him in public life. Jovellanos was made minister, and a colleague of Francesco de Saaredra, with whon he soon formed a close friendship. They were both sensible of the miscrable character of the governinent of Godoy, and prevailed on the king to dismiss him. Saavedra was appointel, in his place, minister of foreign affairs. But this administration was soon dissolved, and both lost their placcs. Jovellanos was not so inuch regretted as might have becn expected from his noble character, for he was not a very practical head of a department. The revenge of the Prince of Peace was slow, but deep. Marquis Caballcro, than whom a baser instrument could hardly be found, even in that court, and in those times, was chosen to persecute him. 1 Spanish translation of Rousseau's Contrat Social, in one of the notes of which Jovellanos was mentioned favorably, gave the pretext. He was arrested, carried from one place to another, and, at last, put in a Carthusian monastery in the island of Majorca. His addresses to the king from this place are bold and vigorous, and were read by the wholc nation, hecause the hatred against the Prince of Peace was then at its height. Intestine commotions and foreign power at last plit an end to the wretched government. Charles IV was compelled to audicate in favor of his son Ferdinand, with whom Caballero, betraying lis friends, had sidel, so that the mob, who had forecd Charles IV to abdicate, shouted, Viva el picaro Caballero! (the knave Caballero for ever!) Jovellanos was now recalled by the same jerson who had shamefully persecuted
liim. He demanded a trial ; but NapoFron's stroke at Bayonne changed the face of Spanish affairs. Joseph, his brother, andionsly engaged all mon in his administration, who stood high in the estecm of the people, and offered Jovellanos the port-folio of the interior, advised to do so by Urquijo, D'Azanza, Massarcdo, O'Parill (y. v.), and Cabarrus, the intimate firends of Jovellanos, who said they had a positive assurance of his willingness to accept it. If this was actually the case, either the loss sustained by Joseph's party at Baylen, or the insurrection of the Spaniards somi after this event, nade him change his mind. Jovellanos, on the other haud, assures us that his friends urged him to accept the ministry, but that he never thought of doing so, thus forming one of the few well informed and liberal men who diat not join Joseph. Jovellanos embraced the causc of the insurgents, and became a member of the central jninta, where it was chicfly owing to him, that the councilprecisely the same in Spain as the partiaments in France, in esprit-de-corps, aristocratic feeling, sale of offices, \&c.-was re-vived. No sooner had the conncil met, than it opposed the central junta, which was finally dissolved, and Jovellanos was shamefilly treated. To expose the council, and defend himself and the junta, wass the last of his labors as a writer. He died Nov. 27, 1811, 67 years old. The cortes, though he objected to the principle upon which they were founded, declared him benemerito de la patria, a distinction afterwards often bestowed injudiciously. His Spanislı prose is considcred the fincst of modern times. His Elogios, though possessed of some faults inlicrent in all compositions of that kind, are redeenned by great beauty of language and depth of thought. He also wrote an Essay upon Dramatic Exhibitions and Public Diversions, some poems, and a tragedy, Eil Pclayo (the brave Goth who defended the independence of Spain against the Moors), which was prevented by the clergy from heing played before 1790 , and a translation of the first book of Milton; but his poetry will not procure immontality fo: his name. The Pan y Toros (Bread and Bulls), an essay against bull-fights, has been generally' ascribed to him, but without reason. In an excellent address at the distribution of prizes in the academy (of fine arts) de St. Fcrnando, in 1781, he depicted the course of the fine arts to his time, fivm which Cumberland derived hiss opinions on Spanish artists. According to Jovellanos, Lope de Vega and Jordancos
were the promoters of bad taste, the former in poetry and the latter in painting. -See Memorias para la Vida del Excmo. Don Guspar Melctior de Jovellanos, y Noticias analiticas de sus obras por Don Juan - Agustin CeanBermudez (Maduid, 1814), cxtraets of whiel are given in the Letters from Spain, by Leucadio Doblado (Blaneo Whitc), London; and Noticias Historicas de Don G. M. Jovellanos, consugradas a sus respetables Cenizas. I. M. de A. M. (Palnua, 1812, 4to.) The wretehed state of the Spanish book-trade does not allow a complete colleetion of his works to appear.

Jovius, l'aul (or Paolo Giovio), a celebrated Italian historian, bom at Como, in 1483, studied medieine at Pavia, but took orders, and was bishop of Nocera at the time of his death, in 1552. In his youth he read the elassies under the direction of his brother at Rome, and was inspired with the desire of beconing the historian of his time. His first attempt was read by pope Leo, to an assembly of cardinals, and the pontiff exelained, that-" after 'litus Livy-there is no writer more elegant and eloquent." Tirabosehi shows that he has often buen represented as a liar and flatterer, and two letters of Jovius himself appear to furnish ground for objcetions against him. He there asserts that an author has the privilege of dressing some in soft silk, and others in linen; and that he would not write without being paid. "Sto in otio, quia nemo nos conduxit." Ranke, in lis valuable work Zur Kritik weuerer Geschichtselureiber (Berlin, 1824), justly observes that a letter may be written in a moment of ill humor, but his works must be examined to determine whether he aetually praised his friends and patrons immoderately. He openly eensures the popes, his masters, in expressions which Catholies would blame in a Protestant writer ; and we ought not to forget the passages in which he speaks of the fidelity due from a historian. As to the money whiels he wanted for his writings, it is casily explained. In his time, authors received 110 remuneration from publishers, but from princes or other eminent individnals. But we have $n 0$ reason to suppose that this affeeted his statenents. Ranke observes, that he has not found any misrepresentation of faets, in orrer to pleasc, in Jovius's works, as far as he had accurately examined them, whieh was down to the year 1530. As Jovius lived at the eourt of the pope, then still, to a certain degree, the capital of Christendom, he beeame personally acquainted with many individuals of the
first importance in history, or other eyewitncsses, from whom he gathered information. His style is not unfrequently too florid or diffuse, and his statements may, perhaps, be colored by his partialities. Ilis Latin is very excellent, but the deep views of a Machiavelli are wanting. His works are, Historia sui Temporis (1494-1547), lib. xlv (2 vols., Florence, 1548-1552, fol.); Elogia Virorum erudit. (Florence, 1549, fol.); Elogia Virorum bellica Virtute illustrium (ib. 1551, fol.); Comment. de Rebus Turcicis (Wittenberg, 1537) ; Descriptio Britannia, Scotice, Hiberniæe et Orcadum (Bâle, 1578, fol.).

Joyeuse Entrée ; the name given to the important privileges of the estates of Brabant and Limburg, with Antwerp, which the dukes were obliged to swear to maintain, before they were allowed to cnter the dueal residence, from which eircumstance the name was taken. The most important of thesc privileges was, that the people were relcased from all allcgianee, whenever the duke should attempt to violate their rights. So important were these privileges eonsidered, that many women went to Brabant to be eonfined there, that their ehildren might enjoy the rights of a citizen of Brabant.
Juan (pronounced huan, with a very aspirated $h$ ). Juan is the Spanish name for John, and a charaeter named Don Juan is found in the literature of most of the modcm nations of Europe. As far as we know, this eharacter first appears in the Burlador de Sevilla y Convidado de Pierra, a eoniedy by Gabriel Tellez, commonly called Tirso de Molina. It is well known that the early Freneh dramatieal poetry was inuch influenced by the Spanish, and the Convidado de Pierra was reproduced by Molière, as Don Juan, ou Le Festin de Pierre, a comedy in five acts, after the Spanish piece had already inet with great suecess in an Italian dress in Italy. This name has derived its greatest fame, however, from the opera of Mozart called Don Juan, one of his most brilliant compositions. The variety of sentiments, whieh the grand composer was able to express in this opera, gave to his vast genius all opportunity to treat, almost in the same breath, the most ludierous and the most sublime subjects. Don Juan is justly one of the most popular eompositions of the German opera. In all these works, don Juan is a travelling rake, who praetises every where the arts of seduetion. He is equally suecessful in the higher and the lower ranks, and, having invited the marble statue of a eommander to sup with him, is horrified
by seeing the statue actually descend from lis marble stced to accept the offer. Don Juan is finally consuined by flames from the infernal regions. It is well known that lord Byron gave to the most notorious of his poems the name of Don Juan, not kceping to the old story, but because "he wanted a hero."

Juba, a king of Numidia and Mauritania, favored thc cause of Pompey against Julius Cæsar, and, after the battle of Pharsalia, joined his forecs to those of Seipio. He was conquered in a battle at Thapsus, and totally abandoned by his subjects. He killed himself, with Petreius, who had shared his good fortune and his adversity, A. U. C. 707. His kingdom became a Roman provinee, of which Sallust was the first governor.

Juba II, a son of Juba I, was led among the captives to Rome, to adorn the triumph of Cæsar. In his captivity, he applicd himself to study. Hc gained the hearts of the Romans by the courteousness of his manners, and Augustus rewarded his fidelity by giving him in marriage Cleopatra, the daughter of Antony, conferring upon him the title of king, and making him master of all the territories which his father once possessed, A. U. C. 223. The Mauritanians rewarded his benevolence by making him one of their gods. The Athenians ereeted a statue in his honor, and the Ethiopians worshipped him as a deity. Juba wrote a history of Rome in Greek, which is often quoted and commended by the ancients. Only a few fragments of it remain. He also wrote on the history of Arabia, and the antiquities of Assyria, chiefly collected from Berosus. Besides these, he composed some treatises upon the drama, Roman antiquities, the nature of animals, painting, grammar, \&c., now lost.

Jubilate; the third Sunday after Easter. In the primitive church, divine service was begun with the words of the 66 th Psalm, 1st verse-Jubilate Deo, omnes terra, Sing to the Lord, all ye lands.

Jubilee; one of the extraordinary festivals of the Jews, which was held at the end of every fiftieth year. This festival was proclaimed by the sound of trumpets through the whole country, on the evening of the day of atonement, about the autumnal equinox. It was distinguished by many eminent privileges. All debts were to be cancelled. All slaves or captives were to be released. All estates which had been sold reverted to their original proprietors or their descendants.

Houses in walled towns, however, were exempted from this provision. During this year, the ground was not cultivated. The political objeet of it was to prevent great oppression of the poor, as well as their liability to perpetual slavery. The distinction of tribes, too, was thus preserved, in respect both to their fanilies and their possessions; for the law rendered it necessary for then to keep genealogies of their families, in order that they might be enabled to prove their right to the inleritance of their ancestors. The jubilec, too, probably assisted in the computation of time, like the Greck Olympiads, the Roman lustra, and the Christian centuries. In imitation of the Jewish jubilec (or, as some later writers have endeavored to prove, of the secular games of the Romans), the Roman Catholic elurch instituted a year of jubilee, during which the popes grant plenary indulgences to all who, llaving confessed and partaken of the Lord's supper, shall visit certain churches. The first proclamation for a jubilee was issued in 1299, by Boniface VIII. The profit which the Romish chair drew from it, and the wish that more Christians might have an opportunity of partaking in it, induced Clement VI, in 1350, to declarc every fiftieth year, then Urban VI, in 1389, every thirty-third year, and Paul II, in 1470, every twentyfifh year, a year of jubilce. The quantity of noney which the jubilee brought to Rome, induced Paul to designate certain churehes, in the different countries of Christendom, where votaries, who could not come to Rome, might obtain the advantages of the jubilee; but on condition that the largest part of the profits of these provincial jubilees should flow into the treasury of the holy see. The money collected by means of these general indulgences was sometimes spent in wars against the Turks, and sometimes used to advance the building of the chureh of Si. Peter's, which, ever since the sixteenth century, had been the standing pretext under which they were issued. The reformation, to which the sale of indulgences gave the first impulse, sensibly diminished these profits, and the jubilec which Benedict XIV proclaimed in 1750 had but little success, as was also the case with the last, in 1825, proclaimed by Len XII. Gulielmus Ventura Astensis, who, prompted by motives of religion, visited Rome during the jubilee in 1300 , gives an account, in Latin, of the huge throng which flocked to the holy city, and the abundant harvest which the pope reaped.

The following is a translation of a few sentences of his account: "Going out of Rome on the cve of the nativity of Christ, I saw a great crowd, which no man could number. It was noised, anoong the Romans, that there were $2,000,000$ of both sexes in the assembled multitude. Repeatedly I saw men and women trampled under foot in the press, and I myself was several times in danger of the same fate. The pope received from them a vast amount of money; for, day and night, two priests stood at the altar of St. Peter, holding rakes in their liands, with which they raked in countless sums (tenentes in eorum manibus rastellos, rastellantes pecuniam infinitam)." The ferocions trampling of this countless throng brings to mind some of the ceremonials of Hindoo worship. The rakes, with which the money was gathered into the pontifical bank, have, in later days, been adopted as the furniture of a hazard or rouge ct noir table in ganing-liouses.

Juds, the tribe and kingdom. (See Hebrcues, and Jews.)

Judea. (See Palestine.)
Judas; surnamed $I$ scariot, from the place of his birth ; one of the 12 apostles of Jcsus, whom he betrayed into the hands of the Jewish priests, under the scmblance of a friendly salutation. His divine Master addressed to him the mild reproof,Do you betray the Son of Man with a kiss? Remorse for his crime led him to auticipate the Savior's death by suicide. The Cainites, Cerinthians, and some other heretics, held him in great veneration.-Judas, brother of James, according to Luke, one of the 12 disciples. Matthew and Mark call him Thaddeus surnamed Lebbreus. He is considered the author of the epistle which our translators call the Epistle of St. Jude, though the nanc in the Greek is thic same in both instances.

Judas Maccabieus. (Sec Jeves.)
Judas' Tree. The Amcrican species (cercis Canadensis) is a small trec, remarkable for the beauty of its rose-colored flowers, which, appearing in profusion before the developement of the leaves, render it, on a distant view, very similar in appearance to a peach tree in blossom. The structure of the flowers, however, is widely different, and places it in the natural family leguminosa. The leaves are large, simple and cordate. In the spring months, it constitutes one of the principal ornaments of the forest in most parts of the U. States south of the 41st parallel of latitude. The European species is very sinilar in appearance, and is found only
in the more southern parts of that continent.
Jodges, in Hebrew history. (Sce Hebreves.)

Judica ; the fifth Sunday after Lent; so called becausc the prinitive church began the service on that day with the words Judica me, Domine (Ps. xliii. 1.)
Judith; widow of Manasses; a Jewish heroine of grcat beauty, virtue and courage, whose history is given in the book which bears her name, the author and age of which are unknown. The Catholic church admits it into the canon, but it has been generally considcred apocryphal by Protestants. Judith, it is well known, is represented as going out to the tent of Holofernes, an Assyrian general, who was besieging Bethulia, charming him with her beauty, and taking advantage of the adnission to his tent, thus afforded her, to cut off his head, while he slept, with his own sword. Some writers have given an allegorical interpretation to this history-

Jugerum ; a Roman measure; a piece of ground which could be ploughed in one day by a yoke of oxen ; a Roman acre, 240 fect long, 120 feet broad ( 28,800 sq. feet). It was the unit of field-measure, and divided into $\frac{1}{2}$ jugerum (actus quadra$t u s)=14,400$ Roman square feet ; $\frac{1}{j}$ jugcrum $($ clima $)=3600$. Actus minimus was as strip 4 fcet wide and 120 feet long $=480$ Roman square feet. Two jugera were called haredium; 100 haredia made one centuria, and four centurice ( $=800$ jugera) one saltus. In the time of the kings, two jugera were reckoned a sufficient allowance for a father of a fumily; at a later period, seven ; 376 B. C., fifty ; but, even at a still later period, it was considcred dishonorable for a senator to possess more than 500 jugera.
Jeggernaut, or Jaganath (i. e. the lord of the world); the most celebrated and sucred temple in Hindostan, in the district of Cuttack, on the coast of Orissu. The temple stands near the shore, not far from the Chilka lake, in a waste, sandy tract, and appears like a shapeless mass of stone. The idol is a carved block of wood, with a hidcous face, painted black, and a distended, blood-red mouth. It is magnificently dressed, and the appellation of Juggernaut is one of the names of Vishnu, the preserver of the world. (See Indian Mythology.) On festival days, the throne of the image is placed on a tower 60 feet high, moving on wheels, accompanied with two other idols-his white brother, Balaram, and lis yellow sister, Shubudrawho likewise sit on their separate thrones.

Six long ropes are attached to the tower, by which the people draw it along. The priests and their attendants stand round the throne on the tower, and occasionally turn to the worshippers, with indecent songs and gestures. The walls of the temple and the sides of the car are also covered with obscene images, in large, durable sculpture. While the tower moves along, numbers of the devout worshippers throw themselves on the ground, in order to be crushed by the wheels, and the multitude shout in approbation of the act, as a pleasing sacrifice to the idol. In the temple, a number of prostitutes are kept for the pilgrims who come there, and also several consecrated bulls, which are commonly fed by the pilgrims with herbs. A bone of Crishna is preserved in the temple as a precious relic, but shown only to a few. Every year, particularly at two great festivals, in March and July, the pilgrims flock in crowds to the temple. It is calculated that there are at least $1,200,000$ of them annually, of whom it is said nine out of ten die on the road, of fanine, hardship and sickness; at any rate, it is a well known fact that the country, for miles round the sacred place, is covered with human bones. Many old persons undertake the pilgrimage that they may dic on the holy ground. Not far from the temple is a place called Golgotha by the Europeans, where the corpses are thrown, and dogs and vultures are always feeding on the carrion. The contributions of the pilgrims amount to a considerable revenue (about $£ 12,000$ per annum), which falls to the government, after deducting the expenses of the temple. The English took possession of the province in 1803, and forbore to exact the contribution of the pilgrims, during the marquis of Wellesley's administration ; but on his departure from India, the Bengal government passed an ordinance for the management of the pagoda, and the taxing of the pilgrims. The superintendence of the temple and priests was given, in 1809, to the rajah of Kurdah, with the charge of executing the old regulations. A road from Calcutta to the temple has been made since 1810 , to which a wealthy Hindoo, rajah Sukinoy Roy, contributed $£ 16,000$ sterling, on condition of its being called by his name.
Jugglers; men who perform, in public, tricks of legerdemain. In the middle ages, the name of jongleurs was given to the instrument-players who accompanied the Troubadours. Afterwards these performers employed themselves in tricks
and games, whieh, if Ducange's derivation of jongleur from jocularis, or joculator, is correet, must have been their original occupation. They accompanied with dranatic action the songs which they helped to sing; they were buffoons, and united in bands, which had many privileges. They formed in Paris a society, the nembers of which dwelt together in the Rue des Jongleurs, afterwards St. Julien des Ménetriers. Those whom we now call jugglers, men of wonderful activity, and skilful equilibrists, were then distinguished by the name of bateleurs, or batalores. From the accounts of travellers, we know that in IIther and Farther Asia, between the old Ganges and the Oroutes, where the limbs are very pliant, the arts of balaucing, of tumbling, and of moving the body rapidly, and with perfect regularity, are still preserved, and lave been handed down for thousands of years. Fanatical penances, and the excitement of religious orgics, in those countries where the body is capable of the most unnatural contortions, first gave rise to these tricks of jugglery, which were thouglit to assist in atoning for the past, or in predieting and determining the future. Thus originated there the juggling tricks, which are likewise met with among several tribes of North America. Raised to an art by the ITindoos, a people addicted to meditation, and fond of ganes, these tricks became a profession, which is still exercised in its highest perfection in China, on the coasts of Coromandel, and in both peninsulas, on this side, and beyond the Ganges. During the last few years, the people of Europe have been able to verify the accounts of the agility, the muscular strength, and the suppleness in the limbs of these Hindoos, by the sight of jugglers, who, from time to time, have crossed over from England to the continent. One of these men, named Ramo Samee, also attracted considerable attention, some years since, in the U. States. Böttiger has proved that, in ancient times, there were still more wonderful exhibitions of this kind. That which appears to be the most extraordinary trick of these jugglers-the swallowing the sword, and the catching several knives thrown quickly into the air-was often performed before the ancients; and an inscription in Gruter (Thes. p. pcxxxin, p. 1) even states that, in the baths of Agrippa, of Titus, and of Trajan, at Rome, a bear was exhibited, dressed in a long toga, who played the same tricks with balls, that surprise us in these Indian jugglers. To such extraordinary occupations did the patience of the
mansuetarii constrain even beasts, in order to amuse the Roman people, always greedy of what was new and strange, or the luxurious populace of the great provincial cities. Games in which balls, painted with varions bright colors, were tlirown round the body without interruption, exercises in equilibrium, where every false step was instant death, were exhibited by these birds of passage, the wandering children of cvery city, in a perfection which yet astonishes us in the accounts and descriptions of the fathers of the church. For the fathers, with Manetho (Apotelesmat. iv, 289), and the Latin poet Manilius, whose astronomical poem draws the horoscope for different stations of life, furnish the most satisfactory idea of this part of ancient art. Those who threw the knives the ancients called ventilatores, and those who threw the balls in a perpetual circle, are mentioned by Quintilian under the name of pilarii. One of the Hindoos, who lately exhibited in Europe, was wonderful for his power of moving every part of his body, without one part preventing the inotion of another. While he held in equilibrium, on his forelead, a little building, consisting of picces of sticks, which would fall apart if not very nicely baianced, and continually put it together and took it to picces, with his toes he kept in rapid motion a number of rings, which alone would seem to require great skill and attention. A very difficult feat, which he also performed, was to string pearls upon a thread by means of the tonguc. This feat, too, the fathers mention cxpressly, so that the most wonderful tricks now exhibited were performed before the ancients, that is, before the inhabitants of the large cities of the Roman empire, such as Antioch. Some have endeavored to derive from the name of the old Iynu sorcerers (yukrooss) the modern word juggler, which came last from the Provincial Langue-d'Oc. The two arts, which are still united in India, that of divination and of exhibitions of bodily address and agility, were both practised by these ancient artists.

Jugurtha*; the son of Manastabal, a

* Mr. William B. Hodgson, in his leters to Mr. Duponceau (Transactions of the American Philosophical Society, vol. iv., new series, No. I), says, "The name Jugurtha, it scems to me, may be easily recognised in the Berber word juggurth, which signifies a crow or raven. This naine reminds nie of those of our Indian chiefs, the bear, the wolf, the tortoise, sec., and is good enough for a barbarian king. Corvus, Corvinus, were nol unconmmon names even among the civilized Romans; but of the names Juba, Syphax, Masinissa, $\$ own I cannot male any thing."
son of Masinissa by a concubine. Under the care of Micipsa, his father's brother, and king of Numidia after Masinissa, he received as good an education as the two sons of Micipsa, Adherbal and Hiempsal. He was of a fine person, of mauly strength, and endowed by nature with superior talents. He early formed hinıself for a soldier. Micipsa, who began to fear him, determined on his removal, and sent lim with an army to assist the Romans against Numantia; but here his valor and conduct won the esteem of the army, and the friendship of Scipio. Micipsa now sought to conciliate him by favors. He adopted him, and declared him joint heir to the crown with his sons. On his death-bed, he exhorted him to friendship and fidelity towards his two sons, united with lim almost by the bonds of brotherhood; and he commanded them to honor Jugurtha, and to emulate his virtues. Jugurtha promised every thing to the dying king, although he had already resolved to become sole master of Numidia. Soou after the death of Micipsa, he caused Hiempsal to be murdered, and drove Adherbal from the country, taking possession of his whole portion of Numidia. Hearing that Adherbal had gone to Rome, he also sent ambassadors there, to counteract by bribes the effect of his representations. The greater part of the senatc declared in his favor. Ten commissioners were named to divide Numidia between Adherbal and Jugurtha, and to make an investigation on the spot, with regard to the murder of Hiempsal. These also were bribed. They declared the murder an act of selfdefence, and allotted to Jugurtha the richest provinces. The conmissioners had hardly departed, when, to draw Adherbal into a war, he made an attack upon his territory, and committed the most terrible devastations. All this was borne without complaint. Jugurtha now made another attack upon Adherbal, and obliged him to take up arms in self-defence. Adherbal was defeated, and his army destroyed, near the capital city of Cirta. He fled within the walls, and was immediatcly besieged. He found an opportunity, however, to make known his unhappy situation at Rome ; but Jugurtha's friends, by their intrigues, prevented any thing being done except the sending of commissioners. As might have been expected, their mission was of no avail. In the mean while, the siege of Cirta was pressed with vigor. Adherbal was forced to surrender, and, in spite of his promise
to grant him life, Jugurtha caused him to be inhumanly murdered. Tiee Roman people now called for more vigorous measures against such a perjured villain, and the senate declared war. The chief command was given to the consul Lacius Calpurnius Piso, a man who united military talents with the most slameful avarice. At first, he carried on the war with zeal, and conquered several citics; but he soon after entered into a negotiation with Jugurtha, and granted him, as he had not been sparing of his money, very favorable conditions. He was to retain Numidia, and was increly to give to the republic a certain number of horses and elephants, and a moderate sum of money. Much discontent was slown at Rome, and Iugurtha was obliged to come with a safe conduct, to stand before the tribunal of the people. In Rome, he succeeded in gaining one of the tribunes, so that, when about to answer hefore the people, the tribune imposed silence upon him, and the assembly dispersed without deciding any thing. Jugurtha now carricd his insolence so far in Rome as to cause the assassination of Massiva, an illegitimate son of Gulussu, brother of Micipsa, to whom the Roman people were inclined to award the crown of Numidia. As a safe conduct had been promised him, he merely received orders to quit the city immediatcly. War was again declared against him, and carried on by the consul Posthumius Albinus ; but the artifices of Jugurtha caused the year to pass without any decisive measures being taken. This prince was also fortunate enough, immediately after the departure of the consul, to defeat his brother, Aulus Posthumius, and constrained him to make a shameful peace, and to suffer his army to pass under the yoke; on which account the senate refused to ratify the peace, and sent the celebrated Metellus to Numidia. This gencral conquered Jugurtha in a great battle, and remained firm against all his bribes. When on the point of signing a shameful peace, and surrendering to the Romans, Jugurtha, through fear that they might inflict vengeance on him for his former crimes, suddenly clanged his resolution, and determined once more to abide the worst. He summoned together all his remaining power, and began operations with so much skill, that Metellus saw that inis wish of ending the war would not be fulfilled. Marius, at the same time, had, by his intrigues, caused the recall of Metellus, and his own appointment in his place ; but, before he left Rome, Jugurtha
had narrowly eseaped falling into the hauds of the Romans by the treaehery of one of his servants, Bomilear. Again beaten by Metellus, he resolved to ask for the assistance of the Getulians, and of Bocchus, ling of Mauritania. He obltained it, and, at the head of a new army, attempted to recomquer lis kingdon. In the mean while, Marius had artived in Afriea to supersede Metcllus. After taking the city of Capsis, and the fortress of Mulucha, he retreated towards the seacoast, but, on his way, was attacked by the joint army of Jugurtha and Bocclus, and obliged to retreat to a ueighboring mouutain. Here the enemy swrounded then, and, in the expectation of complete victory, gave themselves up to immoderate joy; but when, fatigued with dancing and feasting, they yielded to sleep, the Romans rushed down upon then from the lieights, and completely routed them. Four days after, Jugurtha and Bocchus made a new attack, hoping to surprise the Romans; but Marius received them so valiantly, that nearly their whole army of 90,000 men was cut to pieces, though Jugurtha himself fouglit with extraordinary bravery. The king of Mauritania now concluded a peace with the Romans, and abandoned his ally. Sylla persuaded him to draw Jugurtha into his power, and deliver him up to the Romans. Under pretence of mediating between the eontending parties, Bocchus enticed him to his coult. Ho was here seized and delivered to Sylla, who sent lim, in chains, to Marius, at Cirta. Thus the war was ended, and Numidia hecame a Roman province. Marius adorned his triumph with his prisoner Jugurtha and his two sons. After this prince had suffered many insults from the people on this occasion, he was thrown into a dark prison, where he was starved to death after six days. Some historians relate that he was executed in prison immediately after the triumph. His two sons remained captive at Venusium. Sallust has written an account of this war in a masterly style.
Julia, the only daughter of Augustus and Seribonia, possessed pleasing manners, extraordinary beauty, and a cultivated mind. She was first married to the young Marcellus, the son of Octavia by her first husband. Kaving soon beconie a widow, she married Marcus Vipsanius Agrippa, to whom she bore three sons and two daughters. Even during the lifetime of her husband, she led an unprincipled life. All in Rome, except Augustus, were acquainted with her licentious
conduct. After the death of Agrippa, he gave her in marriage to Tiberius, who well knew her charaeter, but did not dare to oppose the will of the emperor. After this new marriage, Julia by no means gave up her former indulgences, so that Tỉberius, unwilling to be a witness of them, or to eomplain to Augustus, left the court. Mer shamelessness weut so far that she caused to be placed on the statue of Mars, every morning, as many crowns as she had had lovers in the past night. Her exeesses at last eould no longer be concealed from her father. In the noost violent anger, lie determined at first to have her executed, but afterwards consented to banish her to Pandataria, a desolate island on the coast of Campania, where her mother, Seribonia, accompanied her. He would never forgive her, notwithstanding the earnest supplication of the people. At last, however, he was prevailed upon to permit her to leave the island for the eity of Rhegiunt, on the continent. She never dared to return to Rome. After the death of the emperor, she suffered still more. As long as he had lived, Tiberius had always professed much tendemess for her, and lad often begged him to pardon her; but now he treated her with the greatest cruelty. Before, she could not leave the city of Rhegium: Tiberius now confined her to her house. He even took from her the little pension whiel Augustus had allowed her; and she died in the 15th year of her exile, in poverty and distress.

Julane. Flavius Claudius Julianus, a Roman emperor, to whom the Christians gave the surname of the Apostate, son of Julius Constans (brother of Constantine the Great) and of Basilias, his second wife, daughter of the prefeet Julian, was born at Constantinople, in the year 331. When hardly six years old, he saw his father and several members of his family murdered by the soldiers of the emperor Constans II, his cousin (a son of Constantine the Great). He and his younger brother Gallus narrowly eseaped death. The education of the two princes was intrusted to Eusebius of Nicomedia, who gave then Mardonius for their instructer. They were brought up in the Cluristian religion, which was yet a new one at the court of the emperor. They were obliged also to enter the order of priests, that they might thus be removed from the throne, and they were ehosen readers in their church. This education produced a very different effeet on the minds of the two brothers, whose claracvOL. VII.

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ters were very tlissinilar. Gallus, the younger, never left Christianity, and thus obtained the praise of the ecelesiastical historians. Julian, being older, had felt more deeply the persecution of his family, and the constraint and fear in which lie was obliged to pass his youth. He therefore sought consolation in the study of philosophy and belles-lettres. At the age of 24 , he went to Athens and to Nicomedia, where he enjoyed the society of several instrueters, particularly that of the sophist Libanius. Here he was induced to reject the religion of those who had massaered his family, and to embrace paganism. Yet he does not appear to have had sufficient strength of mind to rise above the religious prejudices of that age. At least we find that he believed in astrology, in the seience of the haruspices, in the art of ealling up intermediate spirits to one's assistance, and learning from them the future, with several other superstitious notions. Constans, who feared an attack of the Germans upon the provinces of the Roman empire, determined at last, at the solicitation of his wife Eusebia, to give to Julian the cominand of an ariny against them. He was proclaimed Cæsar by Constans, at Milan, in 355, whose sister Helen he received in marriage. He now proceeded, with a small body of troops, to Gaul, which was laid waste by the Germans. It was hardly to be expeeted that a youth, who thus far had attended only to the study of philosophy and belleslettres, would be able, especially with so small means, to conquer the formidable enemy against whom he was sent. The emperor Coustans himself appears not to have calculated upon the probability of such an event. After Julian had passed the winter in preparations for the cusuing war, he marehed against the Germans, took several cities, conquered them in various engagements, and, in a great battle near Strashurg, completely defeated seven of their princes, and entirely delivered Gaul. Ihe pursued the Gernans beyond the Rhine, and conquered them in their own country. As a governor also, he displayed extraordinary talents. Ile gave to Gaul a new constitution. He settled the finances, diminished the taxes, and assessed then more justly, put an end to the abnses which had crept into the courts of justice, alministered justice limself in the most important cases, and laid the foumdation of cities and castles. While he was thus providing for the lappiness of a great nation, he was accused, before Constans, of aiming at iudepen-
dence. The jealousy of the suspicious emperor could not fail to be excited by the brilliant career of his young kinsman in Gaul. He was even base enough to stir up, secretly, the Gauls against him, and to recall his best troops, under pretence that he wanted to employ them against the Persians. This order caused a rebellion among the soldiers, who were unwilling to go to Persia. They proclaimed their leader Julian emperor, in March, 360, in spite of his own resistance. Julian gave information of the state of things to Constans, who ordered him to renounce his title of emperor. Much as he was inclined to do this, the Gallic legions equally opposed his inclination. The emperor now sent an army against Julian, who made preparations in his defence. He left Gaul, where he had passed five years, took Sirnium, the capital of Illyria, and besieged Aquileia. Here he heard of the death of the emperor Constans. He now passed rapidly through Thrace, and reaclied Constantinople, December 11, 361, where he was immediately proclaimed emperor. He began by putting a stop to many abuses, and limiting the splendor of his court. Of the thousand barbers, and attendants at the baths, employed by his predecessors, lie retained but a single one. The number of cooks, too, which was likewise very great, he reduced to one. The eunuchs were dismissed, as well as those called curiosi, who, muder pretence of informing the emperor of useful things, were dangerous spies, and the bane of all social intercourse. After these retrenchments, he was able to remit to the people the fifth part of all their taxes. Julian sought to restore the heathen worship in all its splendor, and, on that account, opposed Christianity as much as was in his power, without, however, like many of his predecessors, cruelly persecuting the Christians themselves. He took from the Christian churches their riclies, which were often very great, and divided them among his soldiers. He sought likewise to induce the Christians, by flattery or by favor, to embrace paganism, and, failing in the attempt, he labored to make their condition disagreeable. Thus, for example, he forbade them to plead before a court of justice, or to receive offices in the state. Indeed, the Christians were no longer allowed to profess their faith openly; for lie well knew what powerful arms the Scriptures afforded for combating paganism. To render false the prophecy of Jesus, with regard to the temple at

Jernsalem, he pernitted the Jews to robuild it, about 300 years after its destruction; but it is said that flames of fire arose from beneath, and consumed some of the workmen. In the meanwliile, he wished to end the war with the Persians. His first campaign against them was successful. He took several cities, and advanced as far as Ctesiphon. Want of means of subsistence obliged him to retreat. June 26, 365, he was mortally wounded, and died the following night, in the 34th year of his age.-There is hardly, either in ancient or in modern history, a prince whom historians have judged so differently. Perlaps it is because his character was full of contradictions; and some believe that he had so many good and so many bad qualities, that it is casy to blame or to praise him without violating the truth. On the one side, learned, magnanimous, moderate, temperate, circumspect, just, merciful, humane ; on the other, inconsistent, fickle, eccentric, fanatical and superstitious in the lighest degree, ambitious, and fill of eagerness to be at once a Plato, a Marcus Aurelius and an Alexander, he sought chiefly for the means of distinguishing himself from all others. At the bottom of all these features in his character, there appears to lie a sarcastic, sophistic coldness and dissimulation. Some of his works have come down to us. Several speeches, letters and satires, among which the satire on the Cæsars, and that on the people of Antioch, called Misopogon, are distinguished for wit and liumor. The first is particularly esteemed. A critical judgment passed upon those who had sat upon the first of the thrones of earth, by a philosopher who had himself occupied the same seat, must indeed possess a peculiar charm. In his Misopogon, Julian severely lashes the Antiochians, but spares no praise when he speaks of himself. The best and most complete edition of his remaining works is that of Ezekiel Spanheim(Leipsic, 1696, folio). They prove that this emperor possessed talent, wit, vivacity, ease in writing, and some fertility; but he appears to have conformed too much to the taste of his age, in which a mere rhetorical style of declamation took the place of eloquence, antithesis the place of thought, and play on words the place of wit. He wrote also a work against the Christian religion, of which we have yet some extracts that have been translated into French by the inarquis D'Argens.

Julian Calendar. (See Calendar, and Epoch.)

Juliara; a female who possessed great influcnce at the court of the Mogul emperors of Hindoostan in the earlier part of the last century. She was born in Bengal, in 1658, and was the daughter of a Portuguese named Augustin Dias D'Acosta. After having suffered shipwreck, she went to the court of the great Mogul Aurengzebe, whose favor she conciliated by presenting him with some curiosities which she had preserved. Being appointed superintendent of the harem of that prince, and governess of his son Behadur Shah, she had an opportunity of rendering some important services to the latter, who succeeded to the crown in 1707, under the title of Shah Aulum. He was under the necessity of defending his newly-acquired authority against his brothers by force of arms; and, in a battle which took place, Juliana, mounted on an elephant by the side of the emperor, animated him by her advice when his troops began to give way; and to her exhortations he was indebted for the complete victory which he obtained. Her services were rewarded with the title of princess, the rank of the wife of an omrah, and a profusion of riches and honors. Shah Aulum had such an opinion of her talents, that he was accustomed to say, "If Juliana were a man, I would make him my vizier:" Jehander Shah, who hecame emperor of Hindoostan in 1712, was equally sensible of her merit; and, though she experienced some persecution' when that prince was deposed by his nephew, in 1713 , she speedily recovered her influence, and retained it till her death, in 1733.

Juliers; formerly a duchy in Westphalia, bounded north by Guelders, east by Cologne and the Rhine, south by Blankenheim and Schleiden, and west by Liege, Guelders and the Meuse. It now forms a part of the Prussian province of the Lower Rhine, and government of Aix-la-Chapelle. It has a fruitful soil, which produces all sorts of corn in abundance, together with good meadow and pasture land. Much woad also is cultivated here, and linen manufactured.

Julierg-Cleves-Berg; a province in Prussia, in the German circles of Lower Rhine and Westphalia, comprehending the late archbishopric of Cologne, the duchies of Cleves and Berg, \&c. Population, 908,185 ; square miles, 3636 . It is divided into three governinents-Cologne, Düsscldorf and Cleves. It is one of the most populous territories belonging to Prussia. The Rline passes through the
whole length of it. The inhabitants are Catholies, Lutherans and Calvinists.

Julios; the name of tiree popes, of whom we shall only mention the two last.
Julius II (Giuliano della Rovera), a native of Albizola, originally a fisherman, was elevated, by his uncle Sixtus IV, to the rank of a bishop and cardinal, was appointed papal legate to France, and, in 1503, was elected pope ; and although, while cardinal, the friend of the French, he now became their enemy. He excommunicated the duke of Ferrara, gave Navarre to Spain, besieged Mirandola, commanded his army in person, formed the league of Cambray against Venice, and was altogether warlike in his measures. The king of France and the emperor convened a council at Pisa, before whom he was summoned to appear and explain his conduct ; but he did not obey the summons, and called another council in the Lateran. In 1512, he made open war against Louis XII. The French defeated the papal army near Ravenna, but were soon after driven out of Italy. Julius died in 1514. He is considered one of the most immoral of the popes. His conduct certainly was little befitting the head of the Christian church. To procure means for building St. Peter's, he ordered the sale of indulgences, which was one of the immeriate causes of the reformation, so that the Protestants may say, without paradox, that St. Peter's is the great monument of Protestantism. Connected with the plan of rebuilding St. Peter's by Bramante was that of embellishing the Vatican; and, on Bramante's recominendation, Julius II invited Raphael to Rome, in 1508, where he painted a superb suite of apartments, called $L a$ Segnatura. In the ducal gallery, at Florence, there is a fine portrait of Julius II by Raphael. (See Bramante, and Raphael.)
Julius III (Giovanni Maria Giocchi), a Roman of low birth, called himself Del Monte, because his family originated from Monte Sabino, in the Florentine territory. He was made cardinal by Paul III, in 1536, took an active part in the council of Trent, as papal legate, and was the chief cause that it was transferred to Bologna, against the will of Clarles V. Julius was elected pope in 1550. He received the fugitive Nestorian patriarch Suluca, and endeavored to effect a union with the Nestorians. He died 1555, and is accused of the greatest licentiousness, even of unnatural intercourse with a
certain Innocent whom he created cardinal.

Julius Cesar. (See Casur.)
Julius of Medicr. (See Clement.)
Julius Romanus. (See Giulio Romano.)
Julliex, Marc Antoine, a contemporary French writer, loorn in Paris, in 1775, was for some time imprisoned during the revolution, on account of his invectives against tcrrorism, afterwards entered the army, and served under Bonaparte in Italy and Egypt. On the return of that gencral from Egypt, Jullien opposed his ambitious designs, but was cmployed as a diplonnatic agent, and, from 1806 to 1810, held an office in the department of war. In 1813, he was arrested on suspicion of conspiring against the emperor, and, after the restoration, was concerncd in establishing a journal, called at first the Indépendant, since the Constitutionnel. On account of the boldness of his opinions, he was obliged to retire to Switzerland; and, on lis return to Paris, in 1817, published his Hanuel Electoral. In 1819, he projected the Rcuue Encyclopédique, one of the most valuable of the French journals, which appears monthly, and contains reviews, tessays and analyses of books in all departments of literaturo and sciencc. M. Jullien visited Great Britain in 1822, for the purpose of extending his literary connexions. Among his contributors arc Sismondi, Salverte, \&c.
Jusy; the seventh month in our calcndar, which, in the Roman ycar, bore the name of Quintilis, as the fifth in the computation of Romulus, even after Numa harl prefixed January and February. Marc Autony effected a change in its namc, in honor of Julius Cæsar, who was born iv Idus Quintilis, and, thenceforward, by a decree of the senate, it was called Julius.
Jumia, or Yumina; a celebrated river of Hindoostan, which has its source in the Himalaya mountains. It enters the province of Delhi, and, passing the cities of Dcllii and Agra, falls into the Ganges at Allahabad. Its length is estimated at 780 miles.
Jumping Mouse (meriones, F. Cuv.). This little animal bears a great rescmblance, in the length of its hind legs, and mode of leaping, to the jerboa. It is found from Canada to Maryland, and perhaps still farther south. It is about the size of the common monse. The head, back, and upper parts of the body, are reddishbrown, darkest on the back. The under parts are cream color, with a yellow streak passing along the body. The tail is longer
than the body. This animal frequents grain and grass fields: it breeds very fast, and occasionally commits considerable havoc. When the cold weather commences, it goes into winter quarters, and remains torpid till the warm senson returns. The jumping mouse does not exclusively move on its hind fect, but is capable of ruming ou all-fours with great speed. The leaps taken by this diminutive creature, when pursued, are astonishing. It sonietimes clears five or six fect at a single bomid. There is another species also found in this country, in the vicinity of Hudson's bay, which closely resembles the above, in its habits and mode of progression.

June; the sixth month in our calendar. Vossius gives threc etymologies of the name-one from Juno; another from jungo (to join), referring to the union between the Romans and Sabines, under Romulus and Titus Tatius; a third from juniores (the young men), Romulus having been said to lave assigued the month of May to the elders, and that of June to the young men, when he divided the people into these two great classes, the former to scrve in counsel, the latter in war. These origins arc more fully explained by Ovid. The name lias also been traced to Junius Brutus, the first consul.

Jung, John Henry, called Stilling, was born 1740, in Nassau, and dicd in 1817, at Carlsruhe. In his youth, he was apprentice to a tailor. The desire of knowledge which always occupied him, made him afterwards attempt to become a schoolmaster. He was unsuccessful, and returned to the tailors' business, from which, however, he was called several times to bocome a tutor. At last he succeeded in procuring the means of studying medicine in Strasburg, and was afterwards a physician in Elberfeld. He has described, hiunsclf, the greater part of his life; and the celebrated work Heinrich Stilling's Jugend, Jünglingsjahre und Wanderschaft (Berlin, 1777, 3 volumes), in a new form, under the title Lebensbeschreibung (Berlin, 1806, 5 volumes), is incomparable. He relates, with modesty and simplicity, the way in which his life was passed anong the classes of people less favored by exterior gifts of fortune; and his pious and pure heart discloses itself so unaffectedly and involuntarily, and the style is at the same time so excellent, that the work is one of the most popular among the Gcrman classics. It has a charm of a very peculiar kind, and many readers will sympathize with the author, even in those pas-
sages of mystical devotion, which do not accord with the tone of their own minds. His works of devout mysticism are very numerous. Those best known are his Theobald der Schwärmer, Das Heimweh, Der Volkslehrer, \&c. Much opposition was excited by his strange work Theorie der Geisterkunde (Nuremberg, 1808), and the Apology for the same (1809), which is connected with his Scenen aus dem Geisterreiche (Frankfort, 1803). In these works, he not only shows his full belief in apparitions, and adduces numerous cases, which he considers undeniable, but also tries, in the first, to establish a theory of the nature of spirits, and the mode in which they appear. Even those who disbelieve entirely in apparitions, will find these works of great interest, because they will show him with how much appcarance of truth inany of the most remarkable cases are related by several witnesses of respectable character, who had not previously believed in the reality of such appearances, and under circumstances which, in ordinary cases, would be considercd conclusive. Jung made himself known, also, by his numerous works on medical subjects, the veterinary art, political econony, \&c. He was, moreover, one of the most successful operators for the cure of the cataract. "Already has lie," says Matthisson, in his Letters (Zurich, 1795), "restored sight to more than 2000 poor blind people, not only gratis, but, in many cases, with the addition of pecuniary assistance." Göthe, in his Aus Meinem Leben, second volume, pages 378 and 489, gives a fine character of Jung.

Júnger, John Frederic, born 1759, at Leipsic, was first apprentice to a merchant, afterwards studied law, and, at a later period, devoted himself entirely to belleslettres. He became tutor to two princes, and, in 1789, was appointed poet of the court theatre at Vienna; but, in 1794, was obliged to maintain himself solely by his writings. He was extremcly diligent, yet his gains were very little: this and his lonely life rendered lim subject to fits of deep melancholy, in which, as has bcen the case with other writcrs, he produced his gayest works. These were comedies. He wrote a great deul, and died 1797. His comedics have been published in three collections-Lustspiele (in five volumes, Leipsic, 1785-1790), Komisches Theater (Leipsic, 1792-1795, three volumes), and Theatralischer Nachlass (Ratisbon, 1803--1804).

Jungrratl (German, meaning virgin); a high mountain, in the canton of Berne,

Switzerland, the highest peak of whichthe Jungfrauhorn-is 13,720 feet high, and was first ascended in 1811. The Jungfrau is one of the inost maguificent mountains of Switzerland, and is covered with enormous masses of snow and glaciers. (See Alps.)

Junin, Battle of. This engagement took place, Aug. 6, 1824, on the elevated plains of Junin, near the lake of Reyes in Peru, when the royalists, under Canterac, were beaten by Bolivar and the united Peruvian and Colombian forces. The combatants fought hand to hand, with lauce and sabre, those engaged being cavalry only. This affiur was but a prelude to the decisive battle of Ayacucho, which soon followed, and accomplished the final overthrow of the royalist party.

Juniper ; a genus of plants having imbricated, scale-like leaves, closely allied to the cedar and pine, but differing in having the scales of the cone united, and forming a little beny. The juniperus Virginiana, commonly called red cedar, is frequent throughout the U. States, from near lat. $45^{\circ}$ to the point of Florida, and westward as far as the Rocky mountains. It does not attain large dimensions, ordinarily not exceeding 30 feet in lieight, but is highly esteemed for the durability and lightness of the wood, which is employed in the upper part of the frames of vessels, for posts, \&c., and is also an article of export to England. So little regard has been paid to the preservation of this tree, and such has been the demand for the timber, that it is now not casily obtained, and is becoming scarcer every day. As is the case with others of our forest-trees, the farther south and the more barren the soil in which it grows, the better is the quality of the wood. The cedar apples, frequently used in the U. States as a vermifuge, are excrescences formed by insects on the branches of this tree. The red cedar, in many places, appears as the pioneer of the American forest, fixing upon dry and cxposed situations, and fostering beneath its shade young trees of various species, till it is finally overtopped by them, and in its turn disuppears. The common European juniper ( $J$. communis) is naturalized in some parts of the U. States, and is said to be really native in Canada. The $J$. prostrata, distinguished from the preceding by its larger and oblong berries, it a trailing shrub, covering often a considerable extent of ground, and inlabiting Canada, and those parts of the U. States north of lat. $42^{\circ}$. 'The J. barbadensis inhabits Florida, and other species are fomnd on
the Rocky mountains. The wood of the J. Bermudiana is exported from the Bermudas, and, among other uses, is employed in the manufacture of black lead pencils. The berries of the juniperus communis are made use of to impart their peculiar flavor to spirit, constituting gin. They are also used by brewers, to give pungency to the lighter kinds of beer. In some parts of Europe, they are roasted, ground, and used as a substitute for coffee. They are also used in Siveden and in Germany as a conserve, and as a culinary spice, and especially to give flavor to sour-crout. Like all plants of the terebinthinate class, they have a decidedly diuretic property, and they are much used as diuretic medicines. The oil of juniper, if mixed with nut-oil, forms an excellent varnish for pictures, wood-work and iron, which it preserves from rust. From the bark exudes a resinous gum, known by the name of gum sandarach. It is in small, yellow pieces, very brittle and inflammable, and of a pungent, aromatic taste. When fincly powdered and sifted, it constitutes the substance so well known under the nane of pounce. It is also used by painters in the preparation of varnish, especially of the kind terned vernix.

Junius. The Letters of Junius first appeared in Woodfall's Public Advertiser, from which they were copied into most of the other journals of the time. The earliest under this signature bears date Jan. 21, 1769; the last, Jan. 21, 1772. After they were completed, they were collected (the collection including also those signed Philo Junius, with the letters of sir William Draper, and those of Horne to Junius), and published by Woodfall, with a dedication to the English nation, and a preface by the author. Besides the letters signed Junius, others by the same author were published in the same paper, under the signatures of Poplicola, Alticus, Lucius, Brutus, Nemesis, Veteran, \&c., relating to different subjects, but all inarked with the same boldness, severity and passion which characterize the former. These appeared between April 28, 1767, and May 12, 1772, and are given in the younger Woodfall's edition as the Miscellaneous Letters. Although 60 years have elapsed since the publication of these extraordinary papers, we have as yet no positive proofs to decide the question who was the author. The most prying curiosity, and the most industrious ingenuity, have been at work to collect circumstantial evidence on this point, and volumes have been written about it; but, if we may believe a state-
ment which appeared in the London Globe a few years ago, the author is a person who had not then been named in all the controversies respecting these letters. "Five letters, deposited in the archives of the Grenville fanily, at Stowe, establish beyond a doubt," says the Globe, "the real author of Junius. That individual was politically connected with Geo. Grenville, from whom these autograph proofs have descended to their present possessor. The venerable statesman (lord Grenville, son of G. Grenville), nearly allied to the duke of Buckingham (grandson of G. Grenville), has requested the discovery should not be published during his life." It will be seen that one of the recent writers on this disputed sulject has suspected the author to have bjent lord Temple, the brother and political friend of Geo. Grenville. Butler (Rcminiscenses, first series, letter on Junius), speaking of the copy which the author ordered of his publisher "bound in vellum," also says, "Who is the possessor of this copy? The reminiscent thinks it was not unknown to the founder of a noble house, to which the public owes an edition of Honer which does the nation honor" (referring, doubtless, to the edition of Oxford, 1800, impensis DD. Buckingham et Grenville). A writer in the Edinburgh Review (vol. 43, article On the Author of Likon Basilike) says, "A simple test ascertains the political connexions of Junius: he supported the cause of authority against America with Mr. Grenville, and maintained the highest popular principles on the Middlescx election with the same statesmau: no other party but the Greuvilles combined these two opinions." Junius, we may add, was also in favor of trienuial parliaments, and opposed to abolition of the rotten boroughs. It is likewise evident, from his language, that he was a man of rank and fortune: this appears not only from his tone and manner, but from his express assertions: "My rank and fortune place me above a common bribe:" and to one of Woodfall's letters conceruing the profits arising from the sale of the letters, he replies, "I am fir above all pecuniary views." Lord Eldon declared in parliament that, if not a lawyer, he must have written in concert with the ablest lawycis; but, independently of his own declaration to Woodfall, "Do not injure me so much as to suspect I am a lawyer; I had as lief be a Scotch-man,"-the great English lawyer Butler asserts that Junius commits gross inaccuracies in his legal phrases. Eicveral inci-
dental expressions, as well as his general tone, his intimate knowledge of persons and characters, show him to have been a man beyond middle life. He was evidently acquainted not only with the court but with the city (which was less usual in those days); with the history, private intrigues, and secret eharacters of the great ; with the management of the public offiees, with the proceedings of parliament (not then, as simee, public); and also with the official underlings, through whom he sometimes condescends to lash their superiors. With this extensive information, he united a boldness, vehemence and rancor, whieh, while he spared no one, stopped at nothing, and rendered him an objeet of terror to those whom he attacked. To use his own language, "he gathers like a tempest, and all the fury of the elements bursts upon them at once." "In rancor and venom," said Burke in the house of commons, "the North Briton is as mueh inferior to him as in strength, wit and judgment. King, lords and eommons are but the sport of his fury." Grafton, Bedford, Blackstone and Mansfield seem to be objects of personal resentment. Chatham and Camden are fiercely attacked in some of his earlier letters, though his tone in respect to them was changed in the latter part of his correspondence. His style is severe, concise, epigrammatic and polished; his reasoning powerful; his invective unsparing and terrible. Public suspicion, at the time, was fixed most strongly on Burke and Sackville; at a more recent period, the opinion that sir Philip Francis was the author, gained many adherents. Among the many other shadows who have bcen raised are Charles Lloyd, a clerk of the treasury, and private secretary to Mr. Grenville (doctor Parr thought him the author; but he died three days after the last letter appeared); Roborts and Dyer, who died before the letters were finished; Hamilton (single-speech) ; Butler, bishop of Hereford (whom Wilkes suspected); the reverend Philip Rosenhagen; general Charles Lce, who, in conversation, once grave out that he was the author, and whose pretensions are supported in a work by Girdlestone; Wilkes; Hugh Macauley ; Boyd, a writer of some talent (see Campbell's Life of Boyd); Dunning (lord Ashburton), who was solicitor-general at the time; Delolme; Glover; Horne Tooke, \&c. Burke was strongly suspected in his day, but he spontaneously denied it ; and, apart from intermal considerations drawn from his temper,
style and turn of thinking, it is sufficient to observe that, on several points, Burke and Junius were in direct opposition to each other. The former was a friend of Rockingham, the latter of Grenville; on the Ameriean poliey and triennial parliaments, they were at variance; and Burke knew nothing of eity politics, with which Junius was so familiar. The opinion that sir Philip Francis (died 1818) was Junius, has found many partisans, and was ingeniously supported in Taylor's workThe Identity of Junius with a celebrated living Character established. The arguments are drawn principally from external considerations: his absence on a journey to the continent coincides with an interruption in the letters; his departure for India with a high appointment, with their cessation; his receiving that appointment, without any apparent cause, just after being dismissed from the war-office; his station in the war-office, with all the details of whieh Junius is so familiar; his knowledge of specehes not reported; coincidences of thought and expression between passages of the letters and of speeches of lord Chatham, reports of which had been furnished by Francis, and with his own speeches, made after his return from India; peeuliar modes of spelling, and of correcting the press; resemblance of hand-writing-are also brought forward to establish the identity. But the internal argument is against the supposition: Francis was but 27 when the first letters were written, and he never displayed, before or after, any proofs of a eapacity or knowledge equal to the compositions of Junius. Thesc circumstances have led to an hypothesis that, although he was not the author, he might have bcen the amanuensis of Jumius. Another candidate, whose claims are much more powerful than any previously mentioned, is lord Sackville (at one time lord Geo. Germaine, and father of the present duke of Dorset). Sackville was strongly suspected at the time. Sir William Draper divided his suspicions between him and Burke, but finally fixed them on the former. Ilis rank, fortune, temper and talents concur to render it probable; the friends and enemies of Sackville and Junius are the same, and their political principles coincide. Sackville's unmerited disgrace is well known; his hostility to the king may have arisen from having been forbidden the court; Mansfield was a crown-offieer at the time of his trial; Bedford was a connexion, and on bad terms with him; Grafton was a wituess
against him; Granby was seeond in command at Minden, and eoneurred in effecting his disgraee; Barrington was the organ of his dismission. This opinion lias been maintained in Coventry's Critieal Inquiry (London, 1825), and, with additional proofs, in Junius Unmasked (Boston, 1828); but, although many striking coincidences liave been pointed out, the proof is by no means complete in favor of this hypothesis. In the Posthumous Works of Junius (New York, 1829), with an Inquiry respeeting the Author, the letters are ascribed to Horne Tooke. A late writer has started the hypothesis that lord Chatham was Junius (Essay on Junius and his Letters, by B. Waterhouse, 8vo., Boston, 1831). A still more recent writer has made an ingenious attempt to show that lord Temple, brother of Geo. Grenville, was the author of these celebrated letters. The fact that Grenville was the favorite of Junius, has often been mentioned, and it has also been suspeeted, for various reasons, that lord Temple was, in some way, conneeted with Junius; Butler (without suspeeting Temple) mentions that the letters appeared to be written in a lady's hand, and that Wilkes onee received a card from old lady Temple, in her own hand, which they agreed in thinking resembled the hand-writing of the letters. We have already eited a remarkable passage from the Edinburgh Review on the subjeet of Junius's politieal connexions, and the statement from the Globe seens to point out his family. Geo. Grenville has himself been suspected to be Junius; but it is suffieient to observe that lie died in 1770, when but a small part of the letters liad appeared. The authorship is ascribed to lord Temple, in the work to which we refer, by Mr. Newhall, of Salem, in Massachusetts (Letters on Junius, Boston, 1831), on the ground of the well established facts, that his political and personal connexions were the same; that the opinions of Junius, in regard to Cliatham and some other persons, differed at different times; and that this difference agrees with the changes in lord Temple's feelings to wards those individuals; that the political principles of the two coincide: he also endeavors to show that 'Temple's talents, age, circumstances, style of writing and thinking, of which he gives speeimens, render his hypothesis probable; and we would add, that, if it is not the true one, it is certainly embarrassed with fewer difficulties than any whieh has come to our knowledge; but Non nostrum tantas componere lites. The most valuable editions of Junius are
those of Heron, a pseudonym (London, 1801, of which it is strange that we find no aceount in the English reviews of that day), and particularly of Woodfall, with notes and illustrations. A French translation by Parisot, with a commentary, was published in Paris, in 1823.

Junks ; large, flat-bottomed vessels, from 100 to 150 tons burden, used by the Chinese. They have three masts, and a short bowsprit plaeed on the starboard bow. The masts are supported by two or three shrouds, which, at times, are all carried on the windward side. On the fore and main-mast is a sort of lug-sail, of cane or bamboo. Similar to these junks are the Japanese barks, whiel are 80 or 90 feet long on one deck, but have only one mast, that carries a square-sail, and forward one or two jibs, made of cotton.

Juvo (with the Greeks, Here), the highest and most porverful divinity of the Greeks and Romans, next to Jupiter (the Greek Zeus), of whom she was the sister and wife, was the daughter of Kronos (Saturn) and Rhea Arcadia. Argos and Samos claimed the honor of her birth. Aecording to Homer, she was educated by Oeeanus and Thetis; aecording to others, by the Hours. Her marriage with Jupiter, on the island of Crete, was honored by the presence of all the gods. Aecording to Homer, Jupiter embraced her without the knowledge of their parents; and others say that he subdued her by artifice, on the island of Samos, and there married her. After he had loved lier for a long time without any return, he once saw her without her attendants, wandering on the mountain of Thronax, and afterwards lying down to rest. He colleeted a dark cloud, and threw himself at her feet in the form of a cuekoo, trembling with wet and cold. She compassionately took the poor bird under her mantle ; but the god immediately assumed his true form, and, in order to enjoy her, promised her marriage. Their marriage was not fortunate. The proud, ambitious and jealous Juno eould not bear the frequent infidelities of her husband; but he treated her with all that severity whiel, in ancient times, the husband was accustomed to use towards the wife. The ancient poets, partieularly Homer, give us many instanees of this kind. When Juno lad driven Hereules, the favorite of her husband, to Cos, by a storm, Jupiter was so angry that he bound her hands and feet, loaded her with two anvils, and suspended her from Olympus. No one of the other gods could help her. During
the Trojan war, having lulled Jupiter to sleep, in order to give the victory to the Greeks during his slumbers, she escaped with difficulty from the blows which Jupiter aimed at her when he awoke. In the oldest poetry, Juno is described as a divinity hostile to Hercules, appearing unpropitious to him, even at his birth, and opposing him afterwards in all his undertakings. Homer generalized this idea, and represented lier as a malicious goddess, of whom he made use whenever a plan was to be interrupted, or an enterprise defeated. He describes minutely the art which Juno used to assist the Greeks, contrary to the command of her husband. She is also the malicious persccutor of the objects of Jupiter's amours (e. g., Latona, Semele and Alcmene), and of their children by him. Among the latter, Hercules and Bacchus suffered most. The Thebans likewisc felt the effects of her hatred, because Hercules was born among them. She persecuted Athamas and his family, because he had cducated the young Bacchus. All who assumed to themselves, or attributed to others, a superiority to her, experienced her vengeance. The beauty of Juno is elevated, majestic, and calculated to inspire awe: she wanted the soft, insinuating and heart-touching beauty of Venus. In the Trojan war, she was the protector of the Greeks. She sometimes mingled herself in the combat: thus, e. g., Jupiter once allowed her to remove Mars, the protector of the Trojans, from the battle. No one of the goddesses dared contend with her in fight. Diana once attempted it, but her cheeks felt the strength of the mighty Juno. Her children were Hebc, Ilythyia, Mars and Vulcan. The last, however, she is said to have bome without the assistance of Jupiter, in revenge for his producing Minerva from his own brain. According to some writers, she was also the mother of the monster Typhon; but others assign him a different origin. Four different ideas are associated with Juno. According to the Orphic doctrines, she was the symbol of the lower air, as Jupiter was of the upper air, or of the air in general. With this was joined another idea, derived from the Pelasgic religion at Samos, which represented her as the queen of the gods. To this was added the Phœenician notion; the Venus Urania, by which name the Phœenicians worshipped nature, being confounded, in Greece, with Juno. As such, she was particularly worshipped at Argos. Finally, the poets gave her the character of a malicious god-
dess, who counteracted the projects of Jupiter and other gods, or of heroes and men. She was worshipped in all Greece, but her principal seats were at Argos, in the vicinity of which was her famous temple, the Heræum, and at Sainos, the place of her birtls and marriage: hence one of her epithets was Samia. The Samian Juno was represented, on coins, with a crescent on her head, and her hands resting on two wands. The companions of Juno were the Nyinphs, Graces and Hours. Iris (q. v.) was her particular servant. Ainong animals, the peacock, the goose and the cuckoo were sacred to her. Her usual attribute is the royal diadem, formed like a long triangle. She often has a veil bespangled with stars, either as a covering for her head, or hanging loosely behind her. On a gem in the collection of Stosch, she appears in calm majesty, seated on a throne, having at her back, on each side, the sun and moon, and over her head the planets, to signify that she is the queen of heaven. She is drawn in a carriage by two peacocks. The statues of Juno, among the ancients, were not very numerous, and even during the time when sculpture was in its most perfect state, the Greeks possessed no particularly celebrated statues of her. Most of the portraits of Juno, on gems, are by the Greek artists of the time of the Roman emperors. Juno had the same character among the Romans as among the Greeks. They called her generally Juno Regina (Regia), Pronuba Matrona (as protector of betrothed virgins), Incina (q.v.), and Ilythyia. She had several temples in Rome. The first days of every month, and the whole of June, were sacred to her. (On the planet of this name, see Planets.)

Junta (Spanish, an assembly), in Spain; a high council of state. There were, formerly, but two-the royal junta of commerce, the mint and the mines (real junta general de comercio, moneda, minas $y$ dependencias de estrangeros), and the board of the tobacco monopoly (real junta de tabaco). The assembly of the estates of the kingdom was called the cortes. But, in 1808, Napoleon summoned together the notables of the kingdom, under the title of a junta, to the number of 150 members; of whom 50 werc to represent the spiritual, and 100 the secular interests of the country. Only 90 members, in fact, appeared, and these without sufficient powers-a circumstance, however, which embarrassed him little. The junta was organized June 15, 1808,
under the presidency of D'Aganze, minister of finance, and unanimously accepted the new constitution. But when king Joseph was obliged to leave Madrid, August 1, a new junta was assembled, composed of the principal leaders of the insurrection. It consisted at first of 26 members. The count Florida-Blanca was its president. Its number was afterwards fixed at 44. The advance of the French drove this junta to Seville, whence they subsequently retired to Cadiz. Besides this central junta, there was, in every province not subjugated by the French, a provincial junta, subordinate to it. (See Spain.)-In English, the word junto is used as a term of reproach, for a cabal or faction.
Jupiter (in Greek, Zeus); son of Saturn and Rhea. The Greek name of lis father being Kronos, he is sometimes called Kronion and Kronides. He is the brother of Vesta, Ceres, Juno, Neptune and Pluto. In the different periods of Grecian histo$r y$, very different notions were entertained respecting this god. The Pelasgi honored him, from the most remote times, as the symbol of nature. His oracle was at Dodona, and hence he is called the Dodonian, Pelasgic king. In the Orphic religion, Jupiter was a physical symbol, and denoted the upper air, the æther; and Juno, the symbol of the lower air, was connected with him as sister and wife. Hence the following Homeric fable is explained. Juno, Neptune and Apollo wish to bind Jupiter ; but Thetis calls the hundredarmed Briareus to his assistance, who, by his mere presence, prevented the gods from carrying their plot into execution (the contest of the elements, in which the æther would have been in danger of being overcome, had it not at length gained the victory through its strength, Briareus). Thus also we may explain, symbolically, the fable, that Jupiter once boasted that he would let down a chain from heaven, upon which all the gods might hang, and still would not be able to drag him down; but he would draw them, together with the earth and sea, up to himself, and then, winding the chain around the top of Olympus, would leave them swinging in the clouds (the combined efforts of all the lower elements are not sufficient to draw down the æether from its seat). From the symbol of the æther was evolved the poetic conception of Jupiter, as ruler of the æther and the upper air. In reference to this, he has the following surnames, the lightning-loving, the cloud-collecting, the high-seated, the far-
seeing, the loud-thundering, the cloud-compelling. A ligher idea nakes lim the father of gods and men, as indeed Homer calls him. Still this is not the idea of a supreme being, the creator of the world, which first arose at a later period. The nore common idea, at this time, was that of Jupiter Herceus, who, being only the governor and protector of houses, families and their possessions, or of a whole people and a particular territory, was of course nothing more than a local deity. He is also the ruler and director of the fates of men, and holds in his hand a balance, in which he weighs out to each one his proportion of good and of evil. Two urns also stand in lis palace; in one of which is evil, and in the other good. Sometimes lie gives to mortals a lot mingled from both; sometimes drawn from one alone. But, nevertheless, he is himself subject to Fate, an unknown being, wrapped up in obscurity. He is the wisest of gods and men. Minerva sits ever at his side. He forms his purposes without the assistance of any one, and to whomsoever he does not disclose them, they remain inscrutable. He aids man with his counsel, and from this is called the giver of grood advice. He is true ; his promises are irrevocable and infallible. He knows the fates of men. He hears those oaths of mortals which they swear by him, and punishes perjury in the severest manner. All injustice and cruelty is hateful to him. Whoever will not listen to a suppliant offender (Hiketes), and forgive him, him Jupiter (Hiketesios) punishes. He is kind and benevolent, and wishes men to be so likewise to each other. Hence he is called Jupiter Xenios (the protector of strangers). These ideas of Jupiter, which are found in Homer and in the poets of his time, although as yet limited by local circumstances, were in after times more fully unfolded, in proportion as the intellectual cultivation of the Greeks increased, and a purer philosophy began to be diffused. With this are connected those historical traditions, according to which Jupiter was born and bred upon mount Ida, in the island of Crete ; for an oracle of Uranus and Terra had counselled Rhea to bring forth lier son upon that hill, lest he should be devoured by Saturn. Different traditions assign his birth to different places ; some say that it occurred at Messene, others at Thebes, Olenus in Etolia, Ægæ in Achaia, upon the hill Lyctos or Dicta in Crete, on mount Lycæus in Arcadia (where the cavern was shown in whioh his mother bore him). Equally different
are the accounts respecting the place where he was educated. According to Homer, Terra educated him, and concealed him, during the night, in a cave of the woody mountain Argeus ; doves brought ambrosia to him. The Arcadians and Messcnians say that lie was educated by the nymphs, who reccived hin from the Curctes, and bathed him in the fountain Clepsydra. According to other accounts, his mother intrusted the child to the care of the Curetes, and these gave him to the nymphs Ida and Adrastea, to nurse, whilst they themselves, by a continual clashing of their shields, prevented Saturn frons hearing the cries of the child. Instead of Jupiter, Satum is said to have swallowed a stone swathed in a goat's hide and anointed with honey, wlich they gave him. According to others, he was educated by the daughters of the Cretan king Melissus, Amalthea and Melissa, who nursed him with the milk of the goat Amalthea, one of whose horns Jupiter changed into the horn of plenty. He grew very rapidly. Whilst he was yet but a year old, he was already able to afford assistance in the execution of a scheme which his mother had formed against his fathe:. From Metis (goddess of wisdom), Jupiter received an emetic which he gave to Saturn. The potion worked so well, that he threw up all the children which he had swallowed, even to the stone which he had swallowed last. This stone Jupiter deposited at the foot of Parnassus, near Pytho, for a memorial. He proceeded now to dcthrone his father. The oldest sons of Uranus and Terra, the hundred-handed giants, and the Cyclops, were fast bound in Tartarus, and the monstrous Campe kept guard over the prisoners. Jupiter killed the monster by the advice of Terra, and sct free the prisoners. Out of gratitude, they armed Jupiter with the lightning, which, until that time, had lain concealed in the earth; Neptune with the trident; and to Pluto they gave a helmet which rendered the wearer invisible. He then dethroned his father, and castrated him with the same weapon which the former had before used on Uranus for a similar purpose. The Titans were not contented with this change of goverminent, and there arose a 10 years' war between them on one side, and the children of Saturn and the hundredhanded giants on the other. (See Briareus.) The theatre of battle was the hills of Olympus and Othrys. From the latter fought the 'ritans, from the former the new gods. At length the latter conquer-
ed, and the Titans were huricd down to Tartarus. Jupiter, having how obtained full possession of the sovereignty, shared his father's kingdom by lot with lis brothers; he himself receiving the hearcn and the earth, Neptune the kingdom of the sea, and Pluto the infernal regions. But fearful monstcrs threatened the new gods with destruction. Terra, angry that her children, the Titans, should be kept imprisoned in the depths of Tartarus, gave birth to the dreadful giants who rebelled against the new gods. These were conquered by the aid of Hercules. But Terra, still retaining her anger, bore to Tartarus, Typhœeus (Typhaon, Typhon), the most frightful of all the monsters, whom Jupiter conquered with the greatest difinculty. According to some, Jupiter pursued him with his lightnings and sickle, until, at length, on a hill called Casius, they joined battle. Typhœus wound about Jupiter with lis dragon folds, flung him upon the ground, and with his own sickle cut out the tendons of his hands and feet, dragged him into the Corcyrean cavern, and stationed a dragon to keep watch over him. But Mercury and Egipan (a son of Jupiter and Æga, Pan's wife, or a foster brother of Jupiter) freed Jupiter by stealth from the dragon, curcd him, and set him upon a winged chariot, from which he hurled his lightnings down upon Typhæus. At Nisus and upon Hæmus, they fought with each other; but at length Jupiter gained the victory, and crushed the bleeding monster bencath Ætna, or the island Pithecusa. Jupiter now found himself in quiet possession of the sovcreignty, which was solemnly surrendcred to him by the other gods, to cach one of whom he therefore gave a reward. From this time he was king of the gods-an idea which seems to have originated when Greece had as yet only her smaller kings. And even as these often chose from among themselves a universal king or governor, who should hold the first rank (as, for cxample, Agamenlnon in the Trojan war), so also, according to the representations of the pocts, did the gods. They chose Jupiter their king and leader: he had therefore the right, on important occasions, to assemble them in his palace. In the Trojan war, he forbade the deities from taking further part in it, and threatened to hurl any transgressor of his cominand down to Tartarus. The king Jupiter is formed, by Homer, after the exact fashion of the Grecian kings of the period, and his whole character is painted in exact accordance with the characters of
the old Greek heroes-rude, wild and passionate. A scourge is even ascribed to him, with which, as king, he may administer chastisement. This idea was borrowed from the Egyptians, amongst whom the scourge was an emblem of kingly power. As ruler of the earth, Jupiter particularly directed his attention to the race of men, which he exterminated, because it had become corrupted and vicious, and then created another and better from the trees. He caused Prometheus, who had stolen fire from heaven for men, to be bound by Vulcan on the Colchian Caucasus, whilst his liver was to be cver preyed on by a vulture. He killed Esculapius with his lightnings, because, by his arts of healing, he had unpeopled the realm of Pluto; and when Phoebus, to avenge his son, slew the Cyclops who had forged his lightnings, he banished him a long time from leaven to earth. He punished with death Salmoneus, who imitated lis thumder; Idas, who wished to slay Pollux; Capaneus, who was the first to scale the walls of Thebes; and afterwards, also, the Curetes, who, at the pcrsuasion of Juno, had concealcd the young Epaphus, and the Achaian river-god $\npreceq s o p u s$, who had endeavored to regain lis daughter, whom Jupiter had carricd off. He went through the world, punishing the wicked, and rewarding the good. His peculiar scrvants were the Horæ and Mercury. Ganymede, who took the place of Hebe, was cup-bcarer to him and the other gods. His palace is on Olympus. Themis or Dike sits on a throne beside lim. His first wife was Metis, a daugliter of Oceanus, the wisest of all the deities. But when Uranus and Terra foretold to him that she would bear a child who should deprive him of his sovereignty, he devoured her during lier pregnancy; and thence it came to pass that Minerva, some time after, was born from his head. His second wife was Themis, a daughter of Uranus and Terra, who bore him the Hore and Parcæ. His third wife was Juno. Among the goddesses, he also loved Dione, a daughter of Æther and Terra, and was by her the father of Aphrodite. At a later period, Mnemosyne, daughter of Uranus and Terra, borc lim the nine Muses, he having spent nine nights in her embraces ; Ccres, his sistcr, became by him the mother of Proserpine; Eurynome, daughter of Occanus and Thetis, became mother of the Graces; Latona, daughter of a Titan and Phoebc, mother of Apollo and Diana. Among his nortal mistresses were Danaë, daughter of

Acrisius, and mother of Penseus ; Niobe, daughter of Ploroneus, the first one among mortals whom Jupiter loved, mother of Argus, the third king of Argos; Maia, daughter of Athas, and mother of Mcreury ; her sister Taygete, mother of Lacedremon, and the third sister Electra, mother of Dardanus ; besides these were Scmele, daughter of Cadmus, and nother of Bacclus ; Europa, daughter of Plownix or Agcnor, aud sister of Cadmus, mother of Minos, Sarpedon and Rhadamanthus ; Callisto, daughter of Lycaon or Nyctcus, mother of Arcas ; Io, daughter of Inachus or Argus Panoptes, mother of Epaphus; Leda, daughter of the Etolian king Thestius or Glaucus, mother of Helen and Pollux ; Ægina, daughter of the river-god Asopus and mother of Æacus; Antiope, daughter of Nyctcus, and mother of Amphion and Zethus; Elara, daughter of Orchemenus, and mother of the giant Tityos. The last of his mistresses was the beautiful Alcmene, the mother of Herculcs. The Nymphs arc also regarded as the daughters of Jupitcr. At a later period, by his rape of the beautiful Ganymede, he gave the Greeks the first example of the love of boys. Jupiter had nany oracles in Greece ; for instance, at Dodona, at Olympia, altlough the latter after a short time ceased, and one in a holy grotto on mount Ida in Crete. His most fannous temple in Greece was that of Olympia or Pisa. He was also especially honored at Dodona in Epirus, on mount Casius in Egypt, in the city Nemea in Argolis, on Ætna, on mount Athos and Dicte, and many other places. In this way we have many of the surnames of Jupiter explained. By the Romans he is called Feretrius, Elicius, Stator, Capitolinus, and the like. His most usual attribute is the thunderbolt, which he either holds himsclf in lis hand, or which the eagle bears at his side. He is always attended by the eagle, and sometimes by the beautiful Ganymede. He is usually represented with a crown aud sceptre. His countenance displays seriousncss and majesty, mingled with benevolencc and serenity. Of the statues of Jupiter, we have received but a fcw from antiquity, and none of the first rank. By far the most bcautiful representations of him are found upon gems, which present to us the king of the gods in the different scenes of his history; sometimics only the bust, sometimes the whole figure; sometimes alone, at others grouped with other figures. That celebrated nastcrpiece of Grecian art, the statue of Jupiter

Olympius, by Phidias, is indecd lost to us. But it is highly proballe that in the excellent licads on gems, the principal traits of it are preserved. Upon a gem in the cabinet of Stosch, the beholder admires the deep seriousucss mingled with a hcavenly mildness, which is spread over his whole countenance, and the beautiful growth of hair falling down, not like the crisped locks of youth, but in gentle undulations of a ripe, manly age, closely resembling the mane of the lion, the king of beasts. Upon another gem, Jupiter is enthroned in an arm-chair, as king of heaven and earth. The moon and stars are round about him, the globe is in his right hand the sceptre in his left, and a diadem on his head, to point him out clearly as the supreme ruler. The lower part of the body is covered. The eagle at his feet sits looking up to him, awaiting his commands. When Jupiter stands, he is generally naked, because he is then occupied in a way which makcs clothing an incumbrance. Bulls and eagles were usually offered to him; the oak and beech-trees were sacred to him. In the second month of every fifth year, the Olympic games were celcbrated in honor of him. Besides the IIomeric and Orphic hymns in honor of Jupiter, we have one by Callimaclus and Cleanthes. We would remark that the ancients reckoned many different Jupiters. Varro gives 300 of that name, and Cicero three, as the most distinguish-ed-the sons of Ather, of Coelus, and of Saturn. To the last, the actions of all the rest were finally attributed.

Jupiter Ammon. Sufficient has been said for the limits of this work, on this great deity of the Egyptians, in Ammon, and in Egyptian Mythology, in the article Hicroglyphics. We will only add, that in the Transactions of the American Philosophical society (rol. 4, new scrics, No. 1), a publication not yct out when the abovementioned article was prepared, Mr. Ilodgson directs the attention of the etymologist for the origin of the word $\sqrt{ } / m$ mon to the Berber word Iman, water (the very contrary to ${ }^{\alpha} \mu \mu o s$, sand, the word from which Ammon is generally derived). (Sce also Champollion's Tableau Général, prefixed to his volume of plates, No. $39, a$.) Jupitcr, in astronomy. (Sec Planets.)
Jura; one of the Hebrides, or Western Islands of Scotland, situated to the northeast of the island of Islay, and opposite to the district of Knap-dale, in Argyleshire, to which county it is anmexed. It extends fully 26 miles in length, and is on an average 7 broad, containing 58,500 Scots

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acres, of which only 3000 are arable. It is the most rugged of the Western Isles, being composed ehiefly of huge rocks, piled on one another in the utinost disorder, naked, and incapable of cultivation. The monntainous ridges terminate in four similar pcaked mountains, called the paps of Jura. The only crops are oats, barley, potatoes and flax; the chief manure is the sea-weed, which is cast ashore. There is only one small village, called Jura. Thic Gaclic is the only language spoken in the island. Population, 1264.

Jura ; a chain of mountains about 60 leagues in length, and 15 in breadth. It is a continuation of the Savoy Alps (q.v.), cxtending from the Rline, near Bàle, to the Rhone, about 10 miles below Geneva. By the low range of mountains in the Pays de Vaud, the Jura is connccted with the lofty Alps of Berne. It stretches towards the north in several long ridges betwcen France and Switzerland; the ridges then separate, and the eastern one, which is the principal, is continued through Neufchâtel and the canton of Soleure, and terminates on the eastern side of the Frickthal, in the canton of Aargan, on the Rhine, where, on the Gerinan sidc, the Scliwarzwald or Black Forest is a continuation of it. The western branclı extcuds farther to the north, and takes the name of the Vosges. Jura has neither the pointed summits nor the perennial snows of the highest pcaks of the Alps. One of the highest peaks, mount Reculet, is elevated 5310 feet above the level of the sea, and the Dole, 5185 feet. The French department of the Jura, a portion of Franchc-Conté, on the Furicuse and the Doubs, furnishes silver, copper, iron, lead, marble and salt. The chicf town is Lons-le-Saulnier:
Jurgura (anciently, Mons Ferratus); a mountain of Africa, in Algicrs, supposed to be the highest in Barbary; 24 miles S. of Dellys, 60 S . E. of Algiers. It is at lcast 24 miles long; and, if we except a pool of good water, bordered round with arable ground, that lies near the middle of it, the whole, from one end to the other, is a continued range of naked rocks and precipices. In the winter season, the ridge of this mountain is always covered with snow.
Jury. [Written by a civilian.*] The

[^14]right of punishing is inseparable from the executive power in a state; but, sinee the penal authority has to decide respecting the property, freedom and life of citizens, the executive or lighest power may easily degenerate into despotism, and the relation of the citizen to the government into slavery, if it can punish at will. It consequently beeomes an object to deprive the government of the will and power to punish unjustly. Now, since, in every case of punishment, a double question is to be answered-first, whether the accused committed the act with whieh he is charged, and, seeondly, if he is guilty, what consequences do the laws attach to the deed, and what punishment must be inflicted-the executive power will be suffieiently restrieted, if we leave it to answer merely the last question, and leave the decision of the first to a separate, independent authority. This can neither be limited to single individuals, nor to a permanent eollege. Both are too mueh subject to the influences of the supreme power. The mass of the people, alone, is not to be corrupted. But, since the mass of the people cannot sit in judgment, and it is also known how little impartial justice is to be expeeted from the multitude, when their own interest is concerned, this agency must be cominitted to sworn substitutes, ehosen for single eases, or only for short periods, in order that the popular tribunal may not degenerate into an established office. These substitutes, as they are not determined beforeland, cannot become the object of corrupting influences, which, though they may fiud aceess with some, hardly can with all. In these views lie the foundation and essence of juries; namely, of the petty jury in England, and of the jury de jugement, in imitation of it, among the French. In the former eountry, the love of freedom proeeeded still farther, and, on aceount of the miselief that may be produced by complaints, invented the grand jury, eonsisting, likewise, of sworn representatives of the people, whose function it is to deeide respeeting the admissibility of eomplaints, and whether, in eonformity with them, a criminal proseeution is to be instituted against any one. Its counterpart existed in France till 1809,
duced at all, has been imperfectly administered. It has been retained, because it has been thought that the views of the continental jurists on ihis subject would be curious and instructive. 'The writer, it will be seen, considers the trial by jury almost solely with reference to criminal cases.The remainder of the article was written by an eminent American jurist.
under the name of jury d'accusation. To this essential eharacter of a jury are united several properties necessary to its perfeetion. (a.) Not only must eitizens sit in judgment on citizens, but the greatest possible equality of rank is to be sought, between the judges and the party to le judged, in order that the interests of different ranks may not give rise to iujustiee, partiality, or false decisions. In England, where all ranks, below the hereditary peers, are by law equal, and without exelusive prerogatives of rauk or birth, all persons not born peers of the land (for they, as an intermediate part of the liereditary government, between king and people, have their equals, and, consequently, their jury, only in the house of lords) are tried by the same jury. In the aneient German courts, whieh, in substance, were juries, the equality of birth between the judge and eriminal was inost strietly observed; not, however, so muel that no inferior person could be judged by a higher, as that 110 higher could be judged by an iuferior. (b.) The jurors cannot well be ehosen otherwise than by a publie offieer-in England, by the sheriff. To guard against all danger of partiality and undue influence, the person arraigned has the right of rejeeting a portion of the jurors empanneled. The right allowed to the prosecutor is more limited. In England, the former may [in capital cases] rejeet 20 , and in erimes of high treason, 35. The publie prosecutor eannot ehallenge any one without declared cause. (c.) $\boldsymbol{\Lambda}$ jury, whieh, in most eases, must consist of men of little education, eannot be guided in their eonelusions by legal rules of evidence, but only by their general impressions from the whole train of eircumstanees; and, on this account, its verdicts are not proper subjects of revision. In England, trial by jury is extended even to civil eases, espeeially for settling certain matters of fact ; for instance, of possession, of estimating the amount of damage, \&c. (d.) All the operations, examinations, and other proeesses necessary in a eriminal trial, are to be performed in the presence of the jury. To referthem forinforination to a protoeol, or to the reports of an officer, would involve diffieulties, and, at all events, leave them exposed to the errors which might arise from the subjeetion of the reporting offieer to foreign influenees, and thus defeat the essential object of trial by jury. With the Freneh constitution, the trial by jury was spread on the continent, and exeited, in many persons, high admiration. It has been proved by Feuerbach, in his classical
work on this subject (Landshut, 1813), that, in a political view, trial by jury has a value only in particular constitutions, in which its political advantages may induce us to overlook its defects, when considered merely in reference to criminal jurisdiction. Political objects make the trial by jury necessary in democracies. Intrusted to a single magistrate, or to a permanent authority, the criminal power would open an immediate avenue to sole dominion, or to aristocracy. Equally indispensable is it to a mixed constitution, like the English; for it would become either a pure monarchy, democracy or aristocracy, if the immense preponderance of the penal power should be comrnited solely to the monarch, or to one of the powers counteracting and restricting him, the people or the body representing the national sovereignty. On the other hand, it is apprent, that in a constitution where the monarch is absolute, the political advantage of a jury disappears. No constitution, no personal freedom of individuals can, in such case, be defended by juries, siuce the ruler can abolish it at any moment, or, in particular cases, render it inefficacious by a special commission. The inost eloquent example is that of France in late years. The establishment, moreover, of trial by jury in a pure monarchy, already confirined by long permanence, is not only null, but superfluous, inasmuch as the ruler can gain nothing more by injustice, but may losc cvery thing. But how far does the trial by jury satisfy the demands which are made of criminal jurisdiction? How far is a certain determination of guilt or innocence to be expected of it? 1. Can we believe the juryman, who is accustomed to move only in the circle of common intercourse, can we believe him possessed of sufficient sagacity to look through the most complicated relations, which often occur in criminal trials, permitting neither aversion nor predilection to influence his verdict? Certainly not. But to attempt to abolish the evil by means of permanent jurors, who should acquire ability by practice, would be to destroy the essential character of juries. Add to this, that in the oral proceedings in the presence of the jurors, every means is afforded for the operation of sophistry, and the excitement of the passions, and that the various grounds of defence or accusation, often infinitely numerous, can in no wise be fairly examined and compared with cach other-a process possible ouly when the judge forms his opinion from written documents. In every case,
the last impression of a jury will be the decisive one. The charge, by which, after the termination of the debates, the presiding judge, versed in the law, seeks to guide the deliberations of the jury, and aid their untaught judgment, may contribute, indeed, to remove this and the dcficiencies remarked below, but the effect of it is very inconsistent with the object of jury trials; for it makes him, in most cases, master of the judgment. One may generally foretell, in England, the verdict of the jury from the charge of the judge. 2. Experience confirms it, and it lies in the nature of things, that the jury regularly hesitate, even against their conviction, to give a verdict of guilty, when it exposes the party to a punishment, in the public opinion, more severc than just To common penctration, it is extremely difficult to separate the fact from its legal consequences. This evil is seen to be in some degree necessary, especially in England, where the criminal code has not kept pace with the times, and a very slight theft is punished with the halter. 3. The question of guilt or innocence is not one of pure fact, but also a legal question, and presupposes, in cvery case, a knowledge of criminal law. To be able to say whether any one has cominitted a violent robbery, it must first be known whether he has donc the act which the accuser asserts, and, secondly, whether this act liad those characteristics, which the laws require to constitute the crime. But if, to reinedy this evil, the jury should be restricted to the question whether a certain act liad been committed or not, its object would be destroyed, and the authority to which is committed the decision of the point of law would be left to its free will, since it might make that act any crime it pleased. In England, recourse has been had to the dangerous practice of allowing the jury, when they find the accusation in a legal view but partially founded, or regard the crime cominitted as less heinous than the one charged, to give a verdict partly of acquittal, partly of condemnation, such as guilty of manslaughter, but not of murder. If the jury agrees on the point of fact, but cannot remove their doubts respecting its legal character, they have to leave the decision to the judge. But will not the jury trust to their penetration more than is just? Does not the presiding judge become absolute? Some might, indced, be inclined to make it a decided advantage of juries, that the accused is tried by judges who are his equals, and from whom, it would seem, may be expected a juster decision,
more conformable to his pecular sitnation, than from others. But, in the first place, the poorer class of people, who, above all others, fill the annals of criminal trials, must be excluded from the jury by reason of their want of information and comparatively small interest in the public welfare, by which means that equality is, in most cases, destroycd (thus, in England, to be a juror, a person must have a certain income; the same is the easc in France, where attention is also paid to particular circumstances of rank) ; so that, from the infinite gradations and varieties of property, education, opinions, and innumerable outward circumstances, instead of full equality, the greatest inequality often subsists between the jurors and the accused. The various means by whieh it has been attempted, in France, to remedy the dcfects of the jury, and which, nevertheless, have produced no better criminal jurisdiction, satisfactorily prove their entire insufficiency in this respect. (See Assizes, and Appeal.) I. History of the Institution. It has evidently been, from the beginning, a truly popular trial, and not, as Rogge has lately asserted (Geriehtswesen der Germanen, 1820 ), a modification of the ancient process of compurgation. These institutions -compurgation and jury-have, indeed, many extcrnal similarities, and may, in some rascs, have become blended with cach other; but, in their nature, they are entirely separate. 'This appears evident from the cireumstance that, in England, juries and compurgations occur at the same timc. Criminal actions against the rlergy were prosccuted under the direction of the bishop, with 12 of the clergy as jurors, but were begun by the accused, with 12 compurgators swearing to his innocence, and commonly ended in his acquittal, till an end was put to this disorder by law, in 1576. (See Blackstone's Comment. on the Laws of England, vol. iv.) It has long been known in Germany, and has lately been proved by Feuerbach (Betrachitungen über die Mündlichkeit und Oeffentlichkeit der Gerichtigkeitspflege, 1821), that the most ancient constitution of the German laws, and in Bavaria as late as the fifteenth century, consisted in the men of the communes finding judgment nuder the gnidance and protection of an officer. As there must be some fixed number, that of 12 is as good as any other, and has bcen preferred from time inmemorial ; but the agreement of the 12 jurors consisted, at first, in many cases and places, in the circumstance, that the votes of all the inen present, and capable of giv-
ing an opinion, were asked, and the matter decided as sooll as a majority of 12 votes was obtained for an opinion. One persorn could, therefore, cancel the votc of another juror, by declaring limself of another opinion, and commanding the juror to leave his seat. Some traces of this regulation are still to be found in England. In the housc of lords, thic whole body of nobles votes; but a valid condemnation is obtained only when a majority of 12 votes is declared for conviction. But in the courts of assizes, the place of absent jurors is inmediately supplied from the people present, and if these 12 caunot agrec, aceording to the original constitution, the trial inust be by new jurors, who are chosen from time to time till a unanimous vote of 12 is obtained. In important causes in the county courts, all the freemen of the commty were, in former days, summoned, which is termed judgment per omines comitalus probos homines. (Rceves' History of the English Law, 1814, vol. i, 84.) But it was very naturally soon found better to sun:mon only a fixed number of men to this scrvice, and this arose the number of $1 \%$, who could only unanimonsly give a valid decision. The oldest vestigc of this elange is found muder Henry II, in the constitutions of Clarendon, in 1164, and of Northampton, in 1174. Contests about landed property, as well as criminal necusations, were to be decided by the oath of 12 respectable men of the ncighborhood (per saeramentum duodecim militum de hundredo, or liberorum legalium hominum de vicineto). From this tine, the trial by jirry has remaincd essentially unaltered in England, and has gradually become the only form of proeess, partly by the abolition of the criminal courts which judged without jury, partly by the abrogation of the methods of criminal prosecution in which no trial by jury existed. Of the last, there remains only the pronouncing of pumishment in the way of legislation, terined an attainder (attinetura), or bill of pains and penalties. Thcre werc, besides, several other ways of terminating a criminal trial without jury, but between which, not the accuser, but the accused, was entitled to choose. In the times of the Anglo-Saxons, the ordeals of red hot iron and boiling water were in vogue, besides which there was the consccrated brearl. The clergy prepared a picce of bread or cheese, an ouncc in wcight, which was easily swallowed by the innocent, but which stuck in the throat of the guilty, and choked him. Of such a morsel, Godwin, earl of Kcnt, died in the reign
of Edward the Confessor ; and, according as the accused was suspected or hated, it was well known how to prepare the inorsel. Under the Norman dominion, this ordeal was supplanted by the wager of battle. The wager of battle (vadiatio duelli) was used even in civil cases, and, according to the most ancient custom, it depended on the accused, if the accusor had supported his accusation by witnesses, to choose whether he would have recourse to this means, or swear to his innocence with twice as many compurgators as the accuser had produced, though not above twelve. This was called vadiatio legis (wager of law). In civil causes, the wager of battle disappeared in the thirteenth century, when Henry II introduced into the assizes a trial by jury. But in penal prosecutions, on the contrary, it continued much longer. The accused is still asked how he will be tried; and, though the answer-" by the law of the land," or "by the country" (per legem terre, or per patri$a m$-has become a mere formality, yet, as late as 1819 , a singular trial for murder took place, in which it stood at the option of the accused to challenge the accuser to the wager of battle. (See Kendall's $A p$ peal of Murder, London, 1819, and Appeal.) A court of justice, moreover, formerly existed in England, which judged without jury, called the star-chamber (camera stella-(a)-a name respecting the derivation of which antiquarians are not agreed. It consisted of some lords, both temporal and spiritual, members of the privy council, and two judges of the supreme court of Westminster, and had properly jurisdiction only of some particular cases, rebellion, perjury, the official misconduct of sheriffs, \&cc., but extended its jurisdiction farther and farther, and became, especially under IIenry VII and Henry VIII, an instrmment of the most arbitrary power. After it had loug been a sulbject of terror and hatred, it was entirely abolished under Charles I, in 1641. The trial hy jury las since been regarded in England as one of the fundamental pillas of the constitution. By the Habeas Corpus act (see Habeas Corpus Act) of the reign of Charles II, greater security has been provided, that the trial ly jury shall be withheld from no one; it is only to be lamented, that the petition for such an order is attended with extraordinary expense.II. History of the Jury in France. In the article France, some of the cruelties are mentioned, which are chargeable to the administration of penal justice in France before the revolution. Judicial despotism,
quently retained in its fundamental principles, though not without modergoing essential alterations, by which a portion of the benefits, that are ascribed to the constitution of Euglish crininal courts, was lost again, and the influence of the offieers of the government on the administration of justice (it is said) improperly enlarged. The criminal courts were at first derived from the district courts, the judges sitting alternately in the criminal courts of the department. One of the judges was direetor of the jury, drew up the indietment, and assembled the jurors. The jury of accusation (d'accusation) consisted of eight members, three voices for the accused being suffieient to reject the complaint. This jury of accusation is now entirely abolished in the new criminal ordinance of Nov. 17, 1808. (See Codesles Cinq.) The criminal courts for more important causes (cours d'assises) are now deputations of the king's court (cour royale or cour d'appel), and the decision respeeting complaints is committed to a division of the cour royale. The liberty of the accused to hold consultation with counsel is less restrieted by the new laws than by late practice. According to a very doubtfil interpretation of the article 302 of the act of 1808 , to regulate criminal process, the counsel is allowed access to the accused only a few days before the beginning of the public prosecution. And, in some cases, as in libels, the definitive decision is taken from the jury, and given to the police courts. To require the unanimous agreement of the jurors to a verdiet, which, even in England, is often attended with great difficulties, and leads to striking inconsistencies, was soon found eutirely impossible in France. The simplicity of the English process, whieh, at the end of the proceedings, leaves to the jury the verdiet of guilty or not guilty, it was found in France impracticable to imitate. In England, only the most important witnesses are brought forward, and a day, or, in very complicated cases, three or four days are sufficient to complete a trial, and consequently no uncommon powers of mind are required to retain the testimony in the memory. But, in France, even the most unimportant testimony is admitted. Hence several hundred witnesses are sometimes brought forward, and more weeks spent in a case than there would be days employed in England. It having been found absolutely impracticable to insist onl unanimity in the jury, it has been resolved to assume the simple majority of seven against five, as decisive. But in that case the court
itself is obliged to deliberate on the same points, and an aequittal takes place, if the majority of the judges coincide with the minority of the jurors, so as to make the numbers of voices in favor of the acquittal equal to those for condenmation. The comrs have also the right to set aside the verdict of the jury, if it appears to then to rest entirely on an error; but this must be their own free act, and cannot be proposed by any one. A simple majority of jurors decided the case of Fonk, and, at Paris, in 18\%3, that of doctor Castaing, indicted on a charge of poisoning. Among the objections made to the new French criminal process is the excessive power cominitted to the president. In England, the examination of witnesses is carried on by the prosecutor, and the counsel for the defendant, but in France, by the president alone. And there is frequently seen a very striking exercise of this privilege, as well as a hostility to the defendant, which ill comports with the judieial office. But the loudest complaints that at present are made, are of the sclection of jurors (which belongs to the prefect alone), and the restriction of the right of challenging. The prefect draws up a list of sixty jurors, of which the president of the assizes strikes out twenty: the defendant (or defendants colleetively, however many there may be of them) and the attorney-general, each, can strike out twelve, and the rest constitute the jury. In this way it is possible to collec.t a jury consisting of the enemies of the accused, and it is asserted that this is often done in the case of prosecutions for political offcrices. The best French jurists (Dupin, Berenger, P'ailler, Bavoux, \&e.) are therefore fully agreed, that the French jury contributes little towards a pnre administration of justice. Even in England, its value is very doubtful. It may seem rash to attempt to assail the general convietion, not only of the English, but of the French also, and other nations that recognise, in this popular institution, the palladium of all genuine civil freedom, and place entire eonfidence in their trinal by jury. But it is only the eases of political prosecutions, or those in which the innocent lave been pursucd by the revenge of the great, which give to the trial by jury its reputation; and there is still another question, not only whether the jury always merits this reputation, but whether the desired advontage cannot be attained equally well, and eveu better, by a proper organization of the judicial office. But to return to what we were saying on the value of the jury: This body in Eng-
land was not able to prevent the infamous judge Jeffreys (chief-justice under James II) from gratifying his private hatred, nor has the French jury been able to oppose any obstacles of importance to such an abuse of the judicial office. Algernon Sydney and lord Russell were condemned to death by the verdict of a jury. For common criminal cases, there can hardly be any more uncertain, fluctuating form of decision than the trial by jurors, who, without imparting to others the grounds of their verdict, or even settling any just grounds in their own minds, decide on the honor, freedom and life of their fellow citizens. In the first place, the actual existence of a crime need not be proved according to fixed rules. Suppose the case of a man being missed, or of a corpse being foundthe jury are persuaded that a murder must have been committed, and pronounce some suspected person guilty, when it is possible that the missing man still lives, or that the dead man perished without personal violence. Some years since, David Evans was executed in London as the murderer of his wife, because an apothecary, who had never practised as a surgeon, maintained that the woman died in consequence of a wound on her head, while a surgeon in actual practice asserted, on the contrary, that the wound had nothing to do with her death, and that this was occasioned by an inflammation of the bowels. (Morning Chronicle, 1818, Feb. 24.) In the second place, the jury give their verdict on the slightest and most remote evidence, when the offence in question is an injury to property, a theft, robbery, fraud, or the like. The instances in which the immocence of persons condemned for such offences subsequently appears are therefore constantly increasing, and the explanation of this circumstance is to be found in the chatacter of the jury, who are taken mostly from men of business in the middle classes, who feel more hostility to a thief or a swindler than to a murderer. The jury act, in fact, the part of legislators: when the penalty inposed by the law appears to them too severe,-as, for instance, the punishment of death for stealing property to the amount of 40 shillings,-they settle at their own pleasure the degree of the offence, so as to avoid the strictness of the law; and it has happened that a jury has declared a man who had stolen 10 guineas ( 210 shillings) guilty of theft to the amount of 39 shillings. The personal feelings of the jury towards the accused, and the light in which they regard the offence, ofteu determine what
the rerdict will be, before the trial is begun. It has been proposed, in Germany, to make juries give their reasons for their verdicts; but this only proves that the nature of this institution is not understood. An exhibition of their reasons comports as little with their nature as a further examination by a different tribunal. The verdict of the jury comes like a decree of destiny, without being capable of justification, examination or amendment; for the whole of the decision rests on things which cannot be a second time exhibited in exactly the same modifications-the deportment of the accused and the witnesses, the individual and momentary dispositions of the jurors. Even in England, doubts of the importance of the trial by jury are by degrees excited, and there is an approximation to the fundamental views of the German eriminal process, which aims at exciting the moral feelings of the criminal by solitude and examination, and producing a confession, which makes the accused his own judge. No criminal is so hardened as never to experience a state of mind when the burden of conscience is too heavy for him, and he desires to reconcile himself to the law and his inward judge. To produce this effect is the aim of the criminal judges of Germany ; and certainly it is at least as conformable to the high dignity of the administration of justice as the trial by jury. The abridgnent of the length of the process, and the publicity of the administration of penal justice, are different things, and, though they are commonly united with the trial by jury, are advantages which may be imbodied with any other system.

The views suggested in the previous part of this article, written, as has been already observed, by a civilian unaccustomed to the practical operation of the trial by jury, deserve the consideration of minds accustomed to a different course of jurisprudence, not only from their theoretical acuteness, but from their developement of. supposed practical defects in the trial by jury. It seems fit, therefore, to give another exposition of this subject, which is maintained by persons educated under the common law, and to suggest some of the reasons why it is deemed the bulwark of public liberty, and the best safeguard of private rights under our forms of free government. The remaining part of this article is to be considered asindependent of the foregoing ; not so much as presenting a counter view, but as presenting the true grounds on which the institution was established, and is still dear to the free inlabitants of England and

America.-I. The Origin of the Trial by Jury: It has been traced back by antiquarians to a very carly period in English history, and seems, indced, in sone form, if not coëval with the origin of the civil government in England, at least to have been used time out of mind in that kingdom. It is lost anong the early Saxon colonies ; and probably was derived frons the mode of administering justice by the peers of the litigant parties in the feudal institutions of Italy, France and Germany. Mr. Justice Blackstone (3 Comm. 349,350 ) considers that this tribunal was universally established among all the northern nations, and so interwoven with their very constitution, that the earliest accounts of the one give us also some traces of the other. Mr. Wyme (Eunomus, Diag. $3, s .50$ ) seems to entertain a different opinion, and, after stating that its origin is obscure (caput inter nubila condit), he asserts, that it is the noblest form of policy that was ever invented on earth, and comes nearest the impartiality of heaven. But, whatever may be the origin of the trial, it is of very liigh antiquity. And Magna Charta (ch. 29) referred to it as an existing institution, and provided that no person should be hurt, either in his person or property, unless by the judgment of his peers or the laws of the rcalm (nisi per legale judicium parium suorwon vel per legen terra).-II. The different Kinds of Juries. Juries are of two sorts, viz. grand juries and petty juries. The former may consist of any number more than twelve, and less than twenty-four persons. The office of the grand jury is to accuse persons who are supposed to be guilty of an offence. It may, therefore, properly be called the jury of accusation. The petty or petit jury consists of twelve persons only, and may properly be called the jury of trials, both in civil and criminal cases.III. We shall first consider the organization, functions and proceedings of the grand jury. The mode of accusation is by a written statement in solemn form, describing the offence, with all the proper accompaniments of time and circumstances, and certainty of act and person, which is called an indictment, or by a mode less formal (which is usually the spontaneous act of the grand jury), called a presentment, and which is afterwards put into solemn form by some proper officer. No indictment or presentment can be made except by the concurrence of at least twelve of the jurors. The grand jury may accuse upon their own knowledge ; but it is generally done upon the testimony of wit-
nesses under oath, and other cvidence produced and heard before them. The proceedings of the grand jury are, in the first instance, at the instigation of the govcrmment or other prosecutor, and are ex parte, and in secret deliberation. The accused las no knowledge of, nor right to intertere with, their proceedings. If they find the accusation true (which is usually drawn up in form by the public prosecutor'), they write upon the indicturent the words "a true bill," which is signed by the foremau, or chief of the grand jury, and is presented to the court publicly, and in the presence of all the jurors. If the indicturent is not proved to the satisfaction of the grand jury, the word "ignoramus" (we are ignorant), or " not a true bill," or "not found," is written on it by the grand jury, or by their forcman, and it is then, in common parlance, said to be ignored, and the accusation is dismissed, as unfounded. When the grand jury return an indictment as a trne bill (billa vera), the indictment is said to be found, and the party stands indicted, and may be required to be put upon his trial. When the indictment is not found, or is declared to be not true, the accused, if he is in custody, or lias been in any way required to appear at the court, and answer to any accusation against him, is entitled to be discharged, or dismissed from any further inquiry or attendance before the court. Every public offence may be properly the sulject of an indictment, and taken cognizance of by the grand jury of the county within which it is committed. But there is another mode of proceeding at the common law, at the suit of the king, called aut information, which is similar to an indictment, except that it is not found by the grand jury, and is filed, ex officio, by the proper officer of the government. An information camnot be filed except in cases of mere misdemeanors, or offences not capital ; for, whenever any capital offence is charged against a party, he cannot be put upon his trial unless the accusation be made by the grand jury by indictment.-IV. The Organization of the Grand Jury. The functions being such as we have stated, it is obvious that the duties require great care in the selection of the persons who are to serve as grand jurors. A precept, commonly called a $e$ nire facias, issues to the shcriff of every county, some time before any court of criminal jurisdiction is held therein, requiring him to summon twenty-four good and lawful men of his county, to attend the court, to inquire into, and present all
offences committed within the body of the county. At the common law, these grand jurors are required to be freeholders of the county, and in England, where the sheriff makes the selection, they are nsually gentlemen of the first respectability in the county. In the U. States, different modes prevail in different states in the selection of grand jurors. In some, the grand jurors are chosen, as in England, hy the sheriffs ; in others, as in the New England States, the grand jurors are drawn by the town officers, from boxes containing the numes of all the persons qualified to seive, from time to time, and in such numbers as are required; and the names so drawn are returned to the sheriff; and by lim to the court. But, in whatever way the grand jurors are selected, their names are returned on a pieee of parelıment or paper, by the sheriff, which is ealled a panel, and as many of them as appear in court are sworn on the grand jury, not exceeding twenty-three, so that twelve may constitute a majority. Their oath is, in substance, that they will diligently inquire and true presentinent inake of all offeuees committed within the county; that the govermment's counsel, that of their fellows, and their own, they will keep secret; that they will present no nan for envy or maliee; neither will they leave any one unpresented from fear, favor, affection, or hope of reward; but that they will present things truly as they come to their knowledge, according to their best understanding. Usually, the presiding judge of the court instructs then in the natters which are within their jurisdietion, by delivering to them a charge, containing a summiny of the offences and other businees which may come before them. They then retire to their room, and sit, as has been said, in seeret, hearing evidence in favor of the prosecution only, as the main question before them is, whether the party aceused ought to be put upon his trial to answer the aceusation. But they are always bound to act upou legal evidence, and are instrueted that they ought not to find an indietment umless upon their oaths they are persuaded, so far as the evidence goes, that the accusation is true. It has been already stated, that the grand jury is to inquire only into crimes committed in the county for whiel they sit. And this is regularly true at the common law, for no inan was bound to answer for any erime but before his peers in the connty and neighborhood where it was committed. But, by sundry statutes, both in England and America, some offernces, not commit-
ted within a county, have, to prevent a defect of justice, been made cognizable therein. To enumerate these offenees would occupy too large a space; and probably no two states in the Union have enacted precisely the same provisions. There are proper powers vested in the courts to compel the attendance of grand jurors; and if any are returned who are not qualified, they may be excluded from the panel; and if an indictment be found by persons not qualified, the accused may except to it on this account. Thus careful has the law been, in the original selection of grand jurors, who are supposed, and indeed required, to be men of integrity, impartiality and intelligence, and above all just objection. And thus a body of men, brought together for the oceasion, and for that only, are placed between the govemment and the eitizen, as a shield against oppression and injury, and to afford a reasonable protection to him, if he be not justly suspected of a erime. V. As to Petty or Petit Juries, or, as they are sometimes called, Traverse Juries. These consist, as has been already said, of 12 persons, and no more, for the trial of all crininal offences, and of all issues of fact in civil cases at the common law. There are some peeuliar modes of trial by jury in England, where a larger number than 12 is required, which may be ealled the extraordinary trial by jury; as, for instance, a grand assize for the trial of issues in writs of right, which consists of 4 knights and 12 other persons; and the jury of attaint, to convict a former jury of a corrupt verdict, which consists of 24 jurors. But these modes of trial are, at present, wholly disused in America; and, in England, that of a jury of attaint has fallen into neglect, since the general use of the remedy of moving for a new trial, where the verdiet is unsatisfactory. And first, as to the trial by jury in civil cases. This is generally confined to issues of fact in proceedings at common law, as contradistinguished from proceedings in equity and admiralty. When, then, the parties have, in their written pleadings, or allegations, come to a fact whieh is denied on one side, and affirmed on the other, in a regular mode, the cause is said to be at issue, and the fact in controversy is to be aseertained by a jury. For this purpose, in England, a precept issues to the sherifi of the proper county, requiring him to select and summon to the court at which the trial is to be had, a suitable number of jurors, for the trial of the cause; and he accordingly makes return of the nanes
of the jurors, on a piece of parchment or paper (thence, as before stated, called a panel), who are compellable to attend at the time and place appointed. If the sheriff have any interest in the case, or is not impartial, or is related to the parties, the jurors are selected by some oilier proper officer, and usually by the coroner of the comnty. The qualifications of petty jurors do not differ, generally, from those required as to grand jurors, their duties being equally important, and requiring equal intelligence. When the cause is called for trial, if all the jurors do not appear, or any of thein are justly objected to and set aside (of which we shall speak hereafter), the deficiency may be supplied from among the by-standers, having suitable qualifications, which is called taking jurors de talibus circumstantibus, from which circumstance the persons thus selected are denominated talesmen. The jury, being thus full, and above objection, are sworn (severally or together, according to the local usage in each state) well and truly to try the issue between the parties, and a true verdict to give "according to the evidence" (or "according to the law and the evidence given them," by the local usage of some states). In some cases, special juries are allowed to be selected, in a particular mode, for the purpose of rying particular causes; in other cases, the trials are by a jury chosen in the ordinary manner, and thence called a common jury. But these distinctions are unknown in some of the states of America, though they are very important in the practice in England. After the jury is sworn, the cause is then tried in open court, the evirence is offered, and the witnesses publicly sworn and examined in the presence of the judges, the counsel on each side, the jury, and all other persons in attendance. The question, whether any evidence is compctent to be given to the jury, is, if any objection is made, first decided by the court. If rejected, it is never heard by the jury; if admitted, it is then read, or, if given by a witness, he is then examined before the jury. The party who calls a witness first examines him, and he is then liable to be cross-examined by the other side ; and if any question is asked, which either party deems improper, the opinion of the court is taken on it before the witness is allowed to give his answer. So, also, it is, in respect to any written evidence or document offered at the trial. And if either party requests it, the judge who presides at the trial makes a note, in writing, of the objection, so that the party
may avail himself of it afterwards, upon a motion for a new trial, or by a wit of error, in a suitable manner. Before the evidence is offered, the counsel for the party who opens the cause, on each side, inakes a sloort introduction, stating the case, the points in controversy, and the facts which le expects to prove, so that the jury may more clearly understand the bearing of the evidence, as it is produced. After all the evidence is gone through, the counsel on each side argue the casc to the jury, at large, commenting upon every part of it, and each insisting upon a verdict in his favor. If any questions of law arise (as in most instances they do), the judge is requested, and is bomd, publicly to state his opinion on all the points of law applicable to it. This he ordinarily does in summing up the case, after the arguments of the counsel are over; but he may do it bcfore, if he chooses. When the arguments are finished, the presiding judge, in England, and in most of the states in America, procecds to address the jury, stating to them the questions, recapitulating the evidence, and commenting on it in such a manmer as he deems conrect, for the purpose of enabling the jury to understand it well, and to apply the law properly to it. In these addresses, he often freely expresses his opinion as to the weight of evidence, the sufficiency of the proofs, the force of particular objections, and the comments of the counsel. Rut, it being a principle of law, that the jury is to respond as to inatters of fact, and the judgea as to matters of law (ad qucestiones facti respondent juratores, ad qurestiones legis respondent judices), it is always understood, that these comments on matters of fact are not binding on the jury, and that they are given solely with a view of enabling the jury to exercise their functions more perfectly, and that the jury are at liberty to disregard them if they please. But, generally speaking, they do receive great weight from the jury, who naturally place confidence in the judges, from their talents, experience and impartiality, and thercfore, unless the judgc obviously cxhibits some improprieties, or betrays some unjustifiable feeling, they consider him as a friend, aiding and assisting them in their duty; and, his addresses being always in public, and open to the criticism of the public, as well as of the profession, it rarely occurs that his conduct is deemcd exceptionable. Still the jury have a right to form, and do form, an independent judgment upon matters of fact; and their judgment is often conclusive. After the judge has
finished his summary, the jury withdraw into a private room, where they are kcpt together for the purpose of deliberation, until they have all agrced in a verdict (veredictum) upon the point in controversy. They are not permitted to have any intercourse with any other persons, and are allowed, during their continuance in secret session, to have only such food and other necessaries as are indispensable. Indeed, by the old law, they were to be kept without ineat, driuk, fire or caudle, until they were agreed, unless by permission of the court, which soon, however, hecame almost a matter of course. When they are agrecd, they come into open court, and, their names being called, they deliver in their verdict, which is recorded by the proper officer, who then reads it aloud to the jury, and asks them if they agree to it as recorded, to which they all publicly assent. If either party doubts it, the jurymen are severally asked if they agree, which is called polling the jury. Sometimes, when the facts are very complicated, or involve questions of law of great difficulty, the jury, instead of finding a general verdict, that the issue of fact is for the plaintiff or for the defendant, state all the faets at large, and ask the court to decide upon those facts, whether the issue ought to be found for the plaintiff or for the defendant. This is called a special verdict. It rarely occurs in criminal cases, and is not very common in civil eases. But the jury are never obliged to find a special verdict, and may, in all cases, give a general verdiet, if they choose. If the jury, after being kept together a considerable time, cannot agree, they are usually brought into court by the proper officer, and the court, if their difficulty is about any matter of law, often inakes additional explanations. But if, after every reasonable effort, the jury continue to disagree, they are diselarged by the court, and the cause must then he tried anew. In criminal cases, and especially in capital cases, the court with great reluctance allow the discharge of a jury, after the cause is onee committed to them.Next, as to the trial by jury in criminal cases. Here the qualifications of jurors do not difier from those required in civil cases. But the law, with a view to prevent the uudue influence of the governnent in the seleetion of jurors, and the undue prejudiees arising from public opinion, has thrown additional guards round the party aceused. He is not only entited to be tried by good and lawful men, of the neighborhood where the erime is allcged to have been committed, but to be con-
fronted with the winesses, and to have, in capital cases, some privilcges, which are not allowed either in civil cases or in offences of a subordinate character. And, in the first placc, the right of eliallenge, which, though it exists for many purposes in civil trials, is of far more consequence and extent in criminal trials. A challenge is, properly speaking, an objection or exeeption to a juror, or to the whole jury, as incompetent to sit in a trial. It is of two sorts: the first is a ehallenge to the array, or an exception to the whole panel or list of jurors, as they are arrayed or set in order by the sheriff in his return. And it inay be taken on account of the partiality of the sheriff, when he selects the jury, or of some default, onission or illegality of himself or of some other officer or functionary concerned in arraying or ${ }^{\circ}$ returning the panel. These exceptions are, or may be, various in their nature and extent, in differcnt states; and the particular exceptions, at the common law alone, would not, indcpendently of those provided for or disallowed by statute, be very instructive. This challenge may be eitlier for a principal canse or to the favor, the former of which is founded upon positive proof or presumption of impropricty; the latter is founded upon less strong presumption or suspieion, and therefore properly to be inquired into, or to be deeided by the sound diseretion of the triers. Secondly, the other sort of challenge (which also may be for a principal cause or to the favor) is a challenge to the polls, that is, an exception to particular jurors, answering in some degree to the recusatio judicis of the civil and canon law. Challenges to the polls, at common law, have been reduced to four sorts: 1. Challcnge propter honoris respectum, or in respeet to nobility; as, if a lord or peer of tlie realm in England be empanneled on a jury, he may be challenged by either party, or may challenge himself. This cause, of course, does not exist in the U. States, where we have no nobility. 2. Challenge propter defectum, or for want of proper qualifications ; as if a person be an alien or a slave; or in cases where he is required to be a frecholder, if he is not such; or is not of a suitable age, as a minor ; or is a female, for females are not allowed to be jurors; or is conviet of an infanous crime, or is otherwise disqualified. 3. Challenge propter affectum, for suspicion of bias or partiality. This may be a principal challenge, or to the favor. It is a prineipal elallenge, as has becn already stated, when there is pregnant
proof or presumption of pariality or of malice, as that a juror is of kiudred to either party (at the common law, in the ninth degree); that he has already prejudged the cause, as an arbitrator; that he has an interest in the cause ; that he has taken money for his verdict; that he has formerly, as a juror, tried the same cause; that he is the servant, master, attorney or counsel of one of the parties. A challenge to the polls for favor (which supposes a doubt of impartiality) is where the party has no principal cause of challenge, but has suspicion of favor, and offers circumstances in support of such suspicion. In such a case, the validity of the objeetion is, by the eommon law, left to the determination of triers, whose office it is to decide whetler the juror who is objected to is favorable or unfavorable, or, rather, whether he stand indifferent between the parties. The triers, in case the first man called as a juror is challenged, are two indifferent persons, named by the court; and if they try one man, and find hiin indifferent, lie is sworn, and then he and the two first triers try the next who is objected to; and when a second is found indifferent, those two who are sworn as jurors becone the triers of all the others who are objected to, in lieu of the two triers first chosen. This course of proceeding is still common in England and in several of the U. States. But in other of the states, the usual eourse is for the court to decide upon the indifferency of the persons objected to as jurors. 4. Challenge propter delictum, or on account of some crime, of which the person called as a juror has been guilty, and which imports a disability and discredit as a juror. This applies to cases of a capital nature, and other infamous crimes, such as treason, felony, perjury, conspiracy, and other species of the crimen falsi. A person called as a juror may be called to say the truth (whence he is said to be interrogated voir dire, veritatem dicere) in respect to such causes of challenge as are not to his discredit or dishonor ; but he cannot be called upon to acknowledge himself guilty of any crime, or other thing which renders him infumous. These are all the causes, strictly speaking, of challenge by the parties. But many persons are entitled to be excused from serving on juries, and, on this account, may plead the excuse for themselves, though the parties naay not take the exception. Among these are magistrates, aged persons, and persons holding particular offices, and others having special exemptions, The challenges
above mentioned cqually apply to civil and criminal cases. But in favor of life, in capital trials, the accused is indulged the privilege of challenging a certain number of persons, called as jurors, without assigning any cause ; and this privilege is thence called the right of peremptory challenge. This is a provision founded in great humanity and tenderness towards persons capitally accused. The reasons commonly assigned for it are, 1. that every person is liable to strong dislikes and prejudices, in respect to particular persons, merely from their appearance, manners and gestures, although they are strangers to him, and that even a caprice or feeling of this kind may, in the course of the trial, embarrass the party in his defence; 2. that upon a challenge for cause shown, the reason may prove insufficient, and, if the party had no right of percmptory challenge, he might be tried by a juror who, from the very circuinstance of being objected to, might conceive a prejudice against the accused. On these accounts, he is at liberty to challenge the juror peremptorily, after he has, for an insufticient reason, clallenged him for cause; and, as the object of all trials is to allow a fair and full defence, the accused ought, at least, to have his wishes consulted so far as to exclude those whom he distrusts in the first instance. But as it is obvious that the right of peremptory challenge, if not limited by some known boundary, might forever prevent a trial, the law has fixed a definite number, to which the party is confined. The common law fixed this number at $3 \overline{5}$, or one short of three full juries; and that still remains the rule in all trials for treason. But in other capital offences, the right is now generally restrained, by statute, to 20, botlo in England and Arnerica. If a person attempts to challenge beyond this number, his challenge is disregarded. If, by reason of peremptory or other challenges, a suffieient number of jurors are not found, talesmen are appointed, as in civil cases. If several persons are tried at the same time, upon one indictment, each one is entitled to his full number of challenges, and one may clallenge a juror not oljected to by the others, and he must be excluded altogether ; for every juryman must be above any objection by any of the persons tried. We have thus far treated of challenges by the party accused. The govermment has, strictly, no right to challenge, except for cause shown; but for cause shown the government may either challenge the array, or the polls, in the same mauner as
a private person. However, it is usual, at least in England, if a juror is objected to by the government, not to call upon the government to show causc until the panel is gone through, and then, if sufficient jurors are not found and sworn, the cause of the challenge may be inquired into; for, if there is a full jury without the persons objected to by the government, there is no strong reason to insist upon their being sworn, although no good causc has been shown. There are some other provisions favorable to prisoners accused of capital offences, and especially of political offences, which deserve notice. In England, in cascs of treason, the prisoner is entitled to a copy of the indictment five days before his arraignment for trial, and a copy of the panel of jurors who are summoned, and their professions and places of abode, ten days before his trial, and a list of the names of the witnesses to be produced against him, the like lengtl of time before the trial. He is also entitled, at the expense of the government, to have witnesses summoned in lis behalf, to cstablish his defence, and to have counsel assigned to assist him in his defence. In America, in cases of treason, similar provisions in substancc exist, with a difference only in respect to the length of time allowed for the copy of the indictment, and lists of jurors and witncsses. And in many of the states, an equally liumane provision exists in respect to all other capital offences. By the laws of the U. States; the prisoner is entitled to have counsel assigned to him, and to have his witnesses summoned at the expense of the government, in all capital cases. In cases of trcason, a copy of the indictment is required to be delivered thrce days before the arraignment, and also a copy of the list of jurors and witnesses sumnnoned by the government, three days before his trial. In other capital cases, the time is two days, instead of three. The right to employ counsel in defence, is also secured to all persons accused of any crimes in the U. States. But in England, it is coufined to cases of treason, and to mere misdcmeanors. In capital cases, not of treason, counsel are not permitted to be employed in England, except in arguing questions of law. The quaint and unsatisfactory reason given for this exclusion is, that the judges are counsel for the prisoner,-a rcason which, if good in any, is sufficient in all cases. But there is more of spcciousness than of truth in the remark; for, though the judges ought to take care that the prisoner has a fair and inpartial trial,
it is impossible that they can act as counsel for the prisoner exclusively; and the importance of counsel, exclusively for the prisoner, is admitted in all cases of treason. Why not equally so in other capital cases? Such is a very general outline of the trial ly jury under the common law. It is deemed of immense value in England, and among the dearest rights of the people. In America, it is quite as dear, and is deemed of such high importance, that the right to a trial by jury, in all criminal cases, is secured by the constitution of every state in the Union, and is also provided for, in all civil cases at common law, where the amount in controversy is of any considerable value. The constitution of the U. States has provided, "that the trial of all crimes, except in cases of impeachment, shall be by jury; and such trial shall be had in the state where the said crimes shall have beell committed. But when not committed within any state, the trial shall be at such place or places as the congress may by law have directed." And farther, "that no person shall be convicted of treason, unless on the testimony of two vitncsses to the same overt act, or on confession in open court." And again, "that no person shall be held to answer for a capital or otherwise infamous crime, unless on a presentment or indictment of a grand jury, except in cascs arising in the land or naval forces, or in the militia when in actual service in time of war or public danger. Nor shall any person be subject, for the same offence, to be twice put in jcopardy of life or limb; nor shall he be compelled, in any criminal case, to be a witness against himself, nor be deprived of life, liberty, or property, without due process of law." And again, "tlat in all criminal prosecutions, the accused shall enjoy the right to a speedy and public trial, by an impartial jury of the state and district wherein the crime shall have been cominitted, which district shall lave been previously ascertained by law; and to be informed of the nature and cause of the accusation; to be confrouted with the witnesses against him; to lave compulsory process for obtaining witnesses in lis favor; and to have the assistance of counsel for his defence." And again, "that in suits at common law, where the value in controversy shall excced twenty dollars, the right of a trial by jury shall he preserved; and no fact, once tricd by a jury, shall bc otherwise reexamined in any court of the U. States than according to the rules of the common law." Provisions of a similar nature, in
substance, will be found in most, if wot in all, the state constitutions of the Union. They demonstrate the extreme jealousy of the people of the right of trial by jury, and their extreme solicitude to place it beyond the reach of the passions, and prejudices, and political objects, of those who, as rulers, nay be called at any time to administer the government. This strong attachment to the trial by jury, both in England and America, after the experience of it for centuries, furnishes no small argument in favor of its efficacy as a security of right, and a redress of wrongs. It is perpetually spoken of as the palladium of our public rights and liberties; and in all the various fluctuations of public opinions, it has remained untouched and unsuspected. It is not surprising that those, who know it only in theory, or who at present see the administration of its powers and duties in a very imperfect state in the civil law countries, or who are accustomed to a jurisprudence foreign to its principles, should entertain doubts of its advantages, and should feel a deep sense of its defects. The first part of this article slows how difficult it has been found to transfer to France the trial by jury, and to administer it with the same beneficial effects as in England. The errors in France nay have resulted, in part, from the imperfect knowledge of the courts, as well as of the juries, from the novelty of this mode of trial, and their want of experience in the management of it. Perhaps, too, there may be something in the other institutions of France, or in the temperament and character of the pcople, which may disturb its proper operation. It may he useful for us, before concluding this article, to review some of the grounds on which the trial by jury has been hitherto vindicated, and to glance at some of the defects which it is supposed to involve, as well as at some of the objcetions to which it is supposed to be liable-Fas est et ab hoste doceri. And, in the first place, it is not necessary to contend that, as an instrument of public or private justice, it is an institution absolutely nerfect; that it is incapable of abuse; or that it never occasions error. That would be to require of it what helongs to no human institution whatsoever. Every work of man is, by his very nature, imperfect. Every form of government involves some inconveniences, and errors, and abuses. Every effort to adininister justice must necessarily fall short of perfect correctness, from defects of evidence, from the infirmity of judges, from
the wrong biases of human opinion, from errors in reasoning, from ignorance, and passion, and prejudice, independently of all intentional wrong, or corrupt motives, or malicc, or dishonesty, or deliberate baseness. The only question is, what, on the whole, is the best means of administcring justice, taking liuman nature as it is, and human infirmity as it must ever operate. If crimes are to be tried and punished, if rights are to be enforced and wrongs redressed by judicial tribunals, what is the best structure of the institution for the purpose of trial and decision? There seems to be but a narrow circle of means, out of which the choice is to be made. Shall the tribunal be composed of executive officers of the government, or of judges appointed by the government for each case, or of judges holding their office at the pleasure of the government? Or shall the tribunal be composed of judges holding their offices permanently, and independently of the government? Or slatl the tribunal be composed of jurors chosen at large, pro hac vice, or chosen permanently for that duty, without any previous qualifications of legal experience, learning or superior ability? And if so, by whom, and in what manner, shall they be chosen? Or shall the tribunal be of a mixed character, composed of judges learncd in the law, permanent in rank and station, and of jurors selected for the occasion in an impartial manner, and the trial be had before the judges expounding the law, and the juries deciding the facts? In cases of crimes, the object is to protect the innocent and to punish the guilty. Wherc does the danger chiefly arise? In political accusations, the government not only is a party, hut has a strong motive to produce conviction. In other cases, it may not have so strong a 1 notive, but it may be subject to influences of an equally fatal character. If the king or other executive, or officers selected hy him for that purpose pro hac vice, are to decide upon the guilt or innocence of the party, according to their own discretion and such proofs as are satisfactory to themselves, there is no securitywhatsoever against unjust convictions. The decision will be arbitrary, and according to the will of the prince or his favorites, or according to state policy, or perhaps public prejudice, actuated by strong resentment. If the trial be by judges solely appointed by the government, and lolding their offices permanently, there nay be dangers arising from other and different sources, from their political opinions, from
their state interests, from their irresponsibility to public opinion, and from influences of character and profession, which insensibly warp the judgment. If the trial be by permanent jurors, there will be still greater dangers from their want of the proper learning, and general weight of character, added to the other objections. So that any of the proposed substitutes does not furnish more safety or certainty, in the administration of criminal justice, than that of a trial by jury. On the other hand, the trial by jury, as known to the common law, affords some checks upon arbitrary power, and enlists many just feelings and reasonable guards against oppression. 1. The jurors are selected from the mass of intelligent citizens, of suitable qualifications, and of the same rank, and having the same general interests, as the accused. They are not permanently employed, and have no common connexion with each other, and no habits of fixed coöperation. They are, or may be, strangers to eacli other, and to the accused, until the moment when they are empanneled. They are subject to no reasonable exception, either in point of character or influence, for that would exclude them, at the will of the accused. They are subject to the same laws, and liable to the same prosecution, as the party on trial, and therefore have a natural tendency to sympathize with lim. 2. The trial is had in open court, before judges who hold their offices permanently, and who are bound to administer the law, and to give their opinions publicly to the jury. From the moment that they are empanneled, they are excluded from all intercourse with evcry person except what takes place in open court ; and their subsequent deliberations are private and secret. 3. They are under oath to decide the case upon the evidence given in open court. No testimony can be heard by then, except what is admitted and delivered in open court; so that the court, the counsel, and the by-standers, have a perfect knowledge of every part of it. Thus the whole public become the ultimate judges of the sincerity and justice of their verdict. 4. If they find a verdict against the party, and there has been any error of law or fact, or any misconduct in the jury, the court will grant a new trial; but if they acquit him, there can be no new trial, for the law will not allow a man to be twice put on trial for the same offence, and thus his life, liberty or linıb be put in jeopardy. Here we see the humanity of the common law, which leans in favor of the accused, and disables the
government from practising oppression upon any citizen, by successive vindictive prosecutions. 5. Again, if the evidence is doubtful, the party is entitled to an acquittal, and the court will so direct the jury; for the common law will not tolerate that any man should be punished, unless there be satisfactory proofs of guilt to the minds of 12 of his peers or equals. 6. It has been said that the facts are often complicated, and the guilt is compounded partly of facts and partly of law. This is true; but here again the wisdom of the common law has provided that the judges shall state to the jury what the law is, as applicable to the various postures of the facts, as they may find them. They are also generally assisted by the arguments of the counsel on each side, in arranging and comparing the facts; and the judge, in his summing up of the evidence, brings the whole in review, and points out to them the bearings of every part, and strips off the false glosses, if any, which have been made by counsel. But he still leaves them to decide upon it according to their own conscientious belief of it. 7. It is said that the arguments of counsel may deceive them, and blind them to the truth. But the answer is, that they have an equal opportunity to hear the opposite side, and that, generally, the judges assist them, when there is any attempt to misstate the cvidence, by referring to their own notes of it, as given in open court. And from long habits, and expcrience in human life, jurymen learn to disregard the mere efforts of eloquence, and, under a sense of their religious and social obligations, consult the real truth and justice of the case. Would there be more security if no counsel were allowed? No person will say so. 8. It is also said that the judges may have an undue influence with the jury. This is certainly possible, and has actually occurred in corrupt times. In the case of chief-justice Jeffreys, referred to in the preceding part of the article, it should be remembered that he held his office during the pleasure of the crown, and not, as the judges of England now hold, during good behavior, or life. He was a devoted partisan of the crown, and has become infamous by his corrupt administration of the law. But it should be considered, that the jury could scarcely have been free from improper biases of some sort, otherwise they could not have found a verdict against the accused. In our day, and, indeed, at any time since the arbitrary times of king James II and the revolution of 1688 , such conduct in a judge would be
sure to meet with universal reprobation, and would generally produce an acquittal of the prisoner, and a public inpeachment of the judge. Nay, it is well known, that such is the jealousy of juries in this particular, that any undue interference or solicitude for conviction, exhibited on the part of a judge, would destroy his influence, and produce an opposite verdict. It is his supposed impartiality that gives weight to his opinion; and the jury know that they have a right to disregard it, if they please. 9. It is said, that juries may be influenced by improper motives, and sometimes disregard the law, and give a false verdict. This is possible, and, indeed, has probably sometimes happened. But the occasions are rare; and where there is a suspicion of that sort, it always injures the character of the jurymen, and subjects them to public scorn and odium. Generally, juries are scrupulous in respecting the law, because it is the only protection of their own rights. Where the law is very harsh, and the punishment is disproportioned to the offence, they have sometimes exhibited a repugnancy to convict; but they rarely have acquitted the party, unless there were circumstances of great doubt, or of great mitigation ; and if their conduct, in such cases, is not strictly justifiable, it is generally not such as produces any reproach, either from the court or the public. These occasions, however, are rare, and constitute exceptions of no great moment in the general administration of justice. 10. It is not true, as is sometimes supposed, that juries are ready to convict on slight proofs, or insufficient evidence. Our law declares, on the contrary, that in such cases they ought to acquit the party; and it is always laid down to the jury by the court. Indeed, the judges, in this respect, always act as counsel for the prisoners, and give their advice to the jury, in respect to every reasonable doubt in the evidence. There are so many checks upon juries, in cases of this sort, that it can scarcely happen, that an unjust conviction, at least by the improper bias of the jury, can take place. If there be any error, it is usually on the side of mercy. 11. It is objected, that the jury sometimes find the party guilty of a part, and not of the whole offence, as of manslaughter when he is accused of murder. Certainly the jury do so; and for the best reason, that the law requires it. A jury ought not to find a man guilty of the whole of a charge, unless it is wholly proved. If what is proved amounts to a crime of the
same nature, but of inferior enormity, or more mitigated than what is charged, they find their verdict according to the proofs, and the court inflict only the moderated punislıment. And any other course would be flagrant injustice. But a jury cannot, upon a trial for one offence, fiud a man guilty of another offence, not of the nature of the one charged; for instance, upon a charge of murder, they cannot find him guilty of forgery; but if he is charged with stealing two watches, they may find him guilty of stealing one only. 12. It is also objected, that juries often favor criminals. But this is not generally true, except to the extent that the lav favors them. There may be cases of a popular cast, or of an odious nature, where juries have occasionally shown improper biases for the accused; but this objection applies to all tribunals, and is founded on buman infirmity generally. Juries do not, even in cases of this sort, often depart from their duty ; and the exceptious are so few, that they are seldom felt or urged in free govemments. 13. But an objection the most pressed by those who are not practically acquainted with the trial by jury, is, that unanimity is required in pronouncing a verdict of acquittal or condemnation. It is true, that no verdict can be receiverl, which has not the assent of all the 12 jurors ; and there are 110 means of compelling an assent ; and yet, practically speaking, fow cases of disagreement occur, except where there is a solid foundation for real doubts and difficulties. Unanimity is more common than, at first view, might be suspected. In the first place, the jury reason with each other upon all doubtful points, and if they at first differ, the differences are often removed by further discussions. Pride of opinion is not enlisted on either side, and sometimes each recedes from the first limits of his own opinion. In the next place, the differences of opinion are more often upon inferences and conclusions from known facts than upon the facts themselves; and more often upon doubts as to the proper application of the law to those facts; and still more often upon mere collateral questions, where there is no common standard of measure, as in assessing damages. In criminal cases, fewer difficulties ordinarily arise than in civil cases, because doubts weigh favorably for the accused, and often produce an acquittal. But, after all, there is not probably one in twenty cases, tried by a jury, in which there is a final disagreement; and it is by no means sure, that a decision could be had more just or fair
by requiring a majority, or any other number, than by requiring unanimity. The jurors might then be equally divided, or the struggles of the minority to prevent a verdict night be equally violent. Most trials give rise to diffcrences on several points; and, in such cases, the unanimity of a majority, in a general verdict, must be produced in the same manner as unanimity in the whole jury. But the best answer to the objection is, that experience is in favor of requiring unanimity of the whole jury. No practical evil has, as yet, been fclt from the rule. And it is no small recommendation of it, that it gives a satisfaction and confidence to the public mind, in England and the U. States, that the decision of a mere majority could scarcely ever give. If unanimity is less easily obtained in France, that proves nothing as to the value of the principle elsewhere. The failure may be from the novelty of the trial in France, or from the habits and character of the people, or from the imperfect comprehension of the proper duties of the judges and the jury.-Most of the remarks above made refer especially to juries of trial in criminal cases; but they are, in a great degree, applicable to civil cases also. It remains only to add, that the other preliminary guards, interpused by the common law in criminal cases, are of inestimable value to every citizen. He cannot be accused, nor be brought to trial, unless upon an indictment found by a grand jury. He is thus saved from prosecutions founded in malice, hatred, political opposition, personal feeling and popular prejudice. The government cannot touch him; the people cannot make hini the victim of their jealousy or suspicion. A grand jury of incorruptible and impartial men, who arc his equals, must first accuse him, upon the hearing of legal proofs and sworn witnesses, before he can be called to answer for any offence. 12 men, good and true (probi et legales homines), must concur in the indictment; and 12 more must concur, upon his trial, in asserting his guilt, before he can be punished. When lis guilt is ascertained, the punishment rests, not in the discretion of the king, or of the goverminent, or any mere cxccutive officer; it is to be declared by the judges, before whom he has been tried, or in the same court, according to laws previously passed, and regulating the nature and extent of the punishment. It is not too much, then, to affirm that the trial by jury is justly the boast of England and America; and we may liope that, hy the goodness of Providence it may be perpetual.

Jury, Grand. (See the preceding article.)
JURY-mast; a temporary or occasional mast erected in a ship in the place of one that has been carried away by tempest, battle, \&c. Jury-masts are sometimes erected in a new ship, to navigate her down a river, or to a neighboring port, where her proper masts arc prepared for her.

Jus (Latin) signifies, 1. that which is right or conformable to law ; also the obligation which the law imposes; 2. a body of laws, decrees and usages; 3. a man's privileges, singly or collectively ; 4. the place where justice is administered; 5 . the power which originates from the law. Hence the word is of very frequent use in law.-Jus divinum is that which is ordered by a revelation, in contradistinction to that which is ordered by reason; but as the right must be one and the same, it is evident that the distinction exists only in the form, and not in the essence, because that which is ordered by our reason is to be referred to God, as its origin, equally with that which is decreed by revelation. A law may have both a human and a divine origin ; for instance, "Thou shalt not kill." This rule may be adopted because it is ordered in the decalogue, or because it is the dictate of reason, and is established by most nations, unacquainted with the decalogue. The division, however, is rather antiquated, and the philosophical lawyer will refer all law to a conmmon origin. (Sec Tliomasius, De Jure Div.)-Jus Italicum signified the lowest degree of privileges enjoyed by citics under the Romans. -Jus Latii, or jus Latinum, denoted the privileges granted by the Romans to the inhabitants of Latium, according to the various significations of the word. (See Latium.) It held a rank between the jus Italicum and the jus Romanum.-Jus Quiritium (civitas optima lege, optimo jure) ; the fullest enjoyment of Roman citizenship, the privilege and obligations of Roman freeborn citizcns, including, in the flourishing times of the commonwealth, 1. public privileges-libertas (security of personal liberty), militia (participation in the scrvice of the legions), census (registration on the list of property: see Census), jus tribus (the incorporation in a tribe), jus suffragiomm (the jus Quiritium in a narrower sense, the right of suffrage), jus honorum (participation in public lonors), jus sacrorum (participation in religious celebrations, sacra publica and privata); 2. private privileges-jus gentilitatis et agnationis (thic privilege of fani-
ly and clan; e. g. successio and tutcla agnatorum), jus legitimi dominii (the privilege of lawful property), jus connubiorum (privilege of lawful marriage), jus patrium (unlimited power over the persons and property of real or adopted ehildren). Heineecius and others mention only two jura Quiri., and, besides them, jus civitatis or civitas Romana. Conradi (De Jure Quir. a Civitate Romana non diverso, Helmstædt, 1742, 4to.) is of a different opinion. Still different is the opinion of Cramer (De Juris Quiri. et Civitatis Discrimine, Kiel, 1803, 4to.). At all events, the jus civitatis was of a more limited eharacter than the jus Quiritium. Thus newly admitted citizens received it.
Jussiev, Antony and Bernard, de ; two brothers, born at Lyous, in the latter part of the seventeenth century, eminent as physicians and botanists.-Antony made a botanical tour, and brought from Spain a large colleetion of plants. After this, he wrote upon subjects connected with natural history and medieine, and died in 1758, in the 72d year of his age, much lamented, on account of his phi-lanthropy.-Bernard, born in 1699, was appointed professor of botany in the royal botanieal garden. We are indebted to him for a new edition, in two volumes, 12mo., of Tournefort's Mistory of Plants in the Neighborhood of Paris (Histoire des Plantes qui naissent aux Environs de Paris), published in 1725. Jussieu's scholars used to bring him flowers which they had mutilated or compounded with others, for the purpose of testing his knowledge, and he always recognised them immediately. Some of them liaving made the same experiment on Linmæus, he said, "God or your teaelier (Jussieu) can alone answer your questions." Jussieu, after having been a long time employed upon a systematie division of the vegetable kingdom, died in 1777, aged 79. Cuvier, in a biographical memoir on Richard, calls Bernard de Jussien "the most modest, and, perhaps, the most profound botanist of the eighteenth eentury, who, although he searcely published any thing, is, nevertheless, the iuspiring genius of modern botanists."-Antony Laurence Jussieu, nephew of Bernard, born at Lyons, in 1748, physieian, member of the academy of seiences at Paris, and of the royal medieal seliool, made a report, in 1804, on the results of captain Baudin's voyage to New Holland. In the anatomy of plants, he has distinguished himself by baving made known the diseovery of a
substanec enclosed in the keruel, called by him perisperma.

Justice of the Peace. The word justice is applied to judicial magistrates; as justices of such! a court, and, in the English1 laws, justices of the forest, humdred, of the laborers, \&e.; and hence the appellation justice of the peace-that is, a judicial magistrate intrusted with the conservation of the peace. A great part of the civil offieers are, in fact, the conservators of the peace, as their duty is to prevent or punish breaches of the peace. Thus the judges, grand-jurymen, justices of the peace, mayors and aldermen of municipal corporations, sheriffs, coroners, constables, watehnen, and all offieers of the police, are institnted for the purpose of preventing, in different ways, crimes and disturbances of the peace of the community, or for arresting, trying and punishing the violators of the laws and good order of society. In England and the U. States, the justice of the peace, though not high in rank, is an offieer of great importanee, as the first judicial proceedings are had before him in regard to arresting persons accused of grave offences; and his jurisdietion extends to trial and adjudieation for sinall offences. In case of the commission of a crime or a breaeh of the peace, a complaint is made to one of these magistrates. If he is satisfied with the evidenee of a commission of some offence, the cognizanee of which belongs to him, either for the purpose of arresting, or for trying the party accused, he issues a warrant direeted to a constable, or other executive offieer designated by the law for this purpose, ordering the person eomplained of to be brouglit before him, and he thereupon tries the party, if the offence be within lis jurisdietion, and acquits him or awards punishment. If the offence charged be of a graver character, the adjudication upon which is not within the justice's jurisdiction, the question then is, whether the party complained of is to be imprisoned, or required to give bonds to await his trial before the tribunal having jurisdietion, or is to be diseharged; and on these questions the justice decides aecording to his view of the law and the faets. In England, there are sonn officers, as the master of the rolls, some municipal authorities, \&c., who are justices of the peace by preseription, in virtue of their other office ; but, in general, the appointment is by commission; and, in England, when a new comnission issues to justiees in a certain county, this supersedes former commissions for the same county, of
coursc. In the U. States, the office is held only by special appointment, and the tenure is different in different states, the office having been held, in one state at least, during good behavior; but the commission is more usually for scven years, or some other specific limited period. These magistrates have usually also a civil jurisdiction of suits for debts, on promises, or for trespasses (where the title to real estate does not come in question, and with some other exceptions), to an amount varying, in the different states, from $\$ 13.33$ to $\$ 100$. In some states, a party may appeal from the decision of the justice to a higher tribunal, whatever may be the amount in question, in a civil suit, and whatever may be the judgment. In other states, no appeal is allowed, except in case of an amount in question exceeding four dollars, or some other certain, but always inconsiderable sum. So an appeal is usually allowed to the accused party in a criminal prosecution before a justice of the peace, in case of the judgment being for a penalty over a certain specified and small anount, or an inprisonment over a certain numbei of days. It is evidently of the greatest importance to the peace and good order of a community, that the justices should be discreet, honest and intelligent. (For thic French justices, see Peace, Justices of the.)

Justiv, surnamed the Martyr; one of the earliest and most learned writers of the Christian church. He was the son of Priscus, a Grcek, and was born at Flavia Ncapolis, anciently called Sichem, a city of Samaria, in Palestine, towaids the close of the first century. He was educated in the pagan religion, and, after studying in Egypt, becamc a Platonist, until, in the year 132 , he was led, by the instructions of a zealous and able Christian, to embrace the religion of the gospel. He subsequently went to Fiome, in the beginning of the reign of Antoninus Pius, and drew up his first Apology for the Christians, then under a sevcre persccution, in which le shows the cruclty and injustice of the proccedings against them. He was also equally zealous in opposing alleged heretics, and particularly Marcion, against whom he wrote and published a book. He not long after visited the East, and, at Eplicsus, had a conference with Trypho, a learned Jew, to prove that Jesus was the Messial, an account of which conference he gives in his Dialogue with Trypho. On his rcturn to Rome, he had frequent disputes with Crescens, a Cynic philosopher, in
consequence of whose calumnies, he puhlished his second Apology, which seems to have been presented to the cmperor Marcus Aurelius, in 162. Crescens preferred against hinn a formal charge of impicty for neglecting the pagan rites, and he was condemned to be scourged, and then behcaded, which sentence was put into execution, in 164, in the 74th or 75th year of his age. Justin Martyr is spoker: of in high terms of praise by the ancient Christian writers, and was certainly a zealons and able advocate of Christiauity, but mixed up too much of his early Platonism with its doctrines. The best editions of his works are those of Maran (Paris, 1742, folio), and of Oberthur (Würtzburg, 1777, 3 vols., 8 vo.).
Justin ; a Latin historian, who probably lived at Rome, in the second or third century. He made an epitome of the history of Trogus Pompeius, a native of Gaul, who lived in the time of Augustus, and whose works, in 44 books, contain a history of the world, from the earliest ages to his own time. His history of Macedonia was particularly complete. To judge from the epitome (for the original is lost), there were many errors in the work, especially in the Jewish history; hut this epitome, which corresponds to the original in its title and arrangement, having compressed into a brief space so much of the important matter of the old listories, has obtained a considerable reputation, and even now is often used in schools. The style is, on the whole, elegant and agrecable, but it is destitute of that noble simplicity aud classical correctness which distinguish the work of a master. The best editions are those of Grevius (variorum), Hearne (Oxford, 1705), Fischer (Leipsic, 1757), and Wetzel (Lcignitz, 1806). (See Heeren, De Trogi P. Fontibus, in Comm. Soc. Gott. xv.)

Justinian I, sumamed the Great, nephew of Justin I, enneror of the East, celebrated as a lawgiver, was born in 483 . of an obscure farnily. He shared the fortunes of his uncle, who, from a common Thracian peasant, was raised to the impcrial throne. While consul (521), he exhibited splendid games to the people. He likewise flattcred the scuate, and sought thicir favor; in consequence of which that body conferred on him the title of nobilissimus. His uncle, infirm from agc, and suffering from a wound, admitted hin to a share of his power. Yet it was not till after lis death, about August 1, $5 \% 7$, that Justinian was pro-
claimed emperor. He now married Theodora, whom he raised from the condition of an actress and a public prostitute to the throne of the Cæsars. She acquired an absolute mastery over her husband. Under his reign, the parties of the circus contended with great animosity, and, under the names of the Greens and the Blues, occasioned many bloody scenes in Constantinople. The violent means which Justinian used to quell the tumult only served to increase it, and a conflagration, which broke out in consequence, laid the greatest part of Constantinople, and his own most beautiful buildings, in ashes. Justinian's own life was in peril. After the turbulence of these parties was extinguished by streams of blood, and a multitude of executions, Justinian finished the war with the Isaurians, and his general, Belisarius, in 523 and 529, obtained three glorious victories over the Persians. This great general destroyed, in 534 , the empire of the Vandals in Africa, and carried Gelimer, their king, a prisoner to Constantinople. Spain and Sicily were reconquered, and the Ostrogoths, who possessed Italy, were vanquished. In 536, Belisarius made his entry into Rome, and the eunuch Narses, another of Justinian's generals, in 553, put an end to the dominion of the Ostrogoths in Italy. These successes restored to the Roman empire a part of its former vast possessions. Justinian now turned his attention to the laws. IIe commissioned 10 learned civilians to form a new code from his own laws and those of his predecessors. To this code Justinian added the Pandects, the Institutes and Novels. These compilations have since been called, collectively, the body of civil law (corpus juris civilis). (See Corpus Juris, and Tribonianus.) Justinian was also intent upon building new cities, and upon fortifying others, and adorning them with new edifices; but he was particularly desirous of establishing peace in religious matters. Amongst other churches, he rebuilt that of St. Sophia at Constantinople, which had been burnt in the quarrel of the Greens and Blues. It is esteened a masterpiece of architecture. The altar in it was made entirely of gold and silver, and adorned with a vast number and variety of precious stones. This church, a part of which is now standing, and is used by the Turks as a mosque, was so magnificent, that Justinian, when, on the day of its dedication, he beheld it for the first time, in its full splendor, cried out for joy, "To God alone be the glory!

I have outdone thee, Solomon !" But it was his unhappy fortune, as it was that of the Jewish king, to outlive himself. Towards the end of his life, lie became avaricious, without losing his love of splendor, suspicious and cruel. He oppressed the people with taxes, and lent a willing ear to every accusation. (For his treatment of Belisarius, see Belisarius.). He suffered his own servants to commit the most flagrant crimes unpunished. He died in 565 , in the 83 d year of his age, after a reign of 38 years. His love of the monks, of saints, and of theological questions, did not protect him from the censure of the divines, who esteemed him a heretic. Much that was great and glorious was accomplished during his reign, but he had little slare in it.

Justitia (justice) ; called, by the Greeks, Astraa, Themis, Dike. With the Romans, this goddess was an abstract rather than a personal deity. She is frequently represented upon coins as a maiden, with a fillet or a diadem; sometimes with a sword and scales; sometimes with a cup in one hand and a sceptre in the other.
Jutland; a province in Denmark, bounded on all sides by the sea, except towards the south, where it is bounded by Sleswick. It is about 180 miles in length, and from 70 to 90 in breadth, and, of all the territories belonging to Deninark Proper, is the largest, and yields the greatest revenue. Square miles, 9500 ; population, 440,000 . It is divided into four bishoprics-Aalborg, Wiborg, Aarhuus and Ripen. The country is indented by bays and inlets, but has few rivers, and none large. The north coast is an immense range of sand-banks, dangerous to navigation. The country is generally low, having no mountains. On the east coast there are extensive forests of oak, fir, birch, \&c.; on the west are hardly any species of trees but alder and willow. The kind of grain most cultivated is rye, great quantities of which are exported to Norway. The pastures are extensive and rich; horses and cattle numerous. Iron, marble and limestone are found ; also excellent turf. Most of the inhabitants speak Danish ; the gentry also German. The religion is Lutheran. Agriculture and education are in rather a backward state. (See Denmark.)

The Peninsula of Jutland, anciently called Cimbrica, or Chersonesus Cimbrica, includes both the province of Jutland and the duchy of Sleswick in the south.
Juvenal. Decimus Junius Juvenalis, a
native of Aquinum in the Volscian territory, flourished at Rone in the latter half of the first century. He studied rhetoric for his amusement, but afterwards devoted himself to poetry, especially satire. Having severely lashed the favorite pantomime Paris in his seventh satire, he was appointed by Domitian, under pretence of honor, prefect of a cohort (prafectus cohortis) in the most distant part of Egypt. Under Trajan, he returned to Rome, in the 82 d year of his age. He was one of the most powerful and caustic of the Roman satirists. He wrote 16 satires (the genuineness of the last, however, is doubtful), in which he chastises the follies and vices of his times. His style is not so elegant, nor his disposition so mild and humorous, as that of Horace, nor yet so gloomy and stern as that of Persius, and he often betrays the rhetorician. The best editions are those of Henninius (Utrecht, 1685, 4to.; Leyden, 1695, 4to.), and the latest by Ruperti (Leipsic, 1801, 2 volumes), and abridged (Göttingen, 1804, 2 volumes). Gifford's translation, with a preface and notes, is very valuable. Johnson's imitations of the third and tenth satires are deservedly celebrated.
Juvencus, Caius Vettius Aquilinus; presbyter in Spain; a Latin poet who flourished about 325 A. D., in Spain. He translated the history of Christ, chiefly after Matthew, in hexameters (Historice evangelicre Lib. iv.). A. R. Gebser published a critical edition of Juvencus in Jena (1827, 2 volumes), which makes, at the same time, the begimning of a Bibliotheca Latina Poetarum veterum Christianorum. In this edition an enumeration of all other editions is to be found. Juvencus also turned the book of Genesis into hexameters (in Martini's Nova Collect. vet. Moniment. vol. iv, page 15 seq.).
Juventa (Juventas with the Romans); the goddess of youth, but not to be confounded with Hebe; for she had not an individual, but only an abstract existence. She had a chapel near the capitol, and a festival established in honor of her was celebrated by the youth. She is repre-
sented upon coins holding a censer in her left hand, and with her right strewing incense upon a tripod, because the youth, when they came to consecrate the first growth of their beards, brought an offering of incense.
Juxon, William, bishop of London, and subsequently archbishop of Canterbury, a prelate of distinguished mildness, learning and piety, was born in the city of Chichester in 1582, and educated at Oxford. The law appears to have been his original destination. The friendship he contracted with his fellow collegian Laud, might have induced him to take orders. In 1621, he was made president of St. John's college, Oxford, and, by the continued patronage of his friend, dean of Worcester (1627), clerk; to the royal closet (1632), bishop of Hereford (1633), and that of London before the expiration of the same year. In 1635, he was appointed lord high treasurer of England. The nomination of a churchman to this dignified and responsible situation excited a strong sensation among the puritanical party, who made it the ground of severe invective against the government and primate; but, on his resignation of the office, after having held it something less than six years, the integrity and ability with which he had discharged its various duties, were admitted on all hands. During the whole progress of the unhappy contest which followed, he maintained an unshaken fidelity to the king, whom he attended during his imprisonment in the Isle of Wight, and on the scaffold, on which occasion he received from the hand of Charles, the moment previous to his execution, his diamond George, with directions to forward it to his son. After the king's death, the parliament threw him into confinement for contumacy in refusing to disclose the particulars of his conversation with the king; but he was soon released, and continued to live in privacy until the restoration. He was then called again into public life, and was raised to the prinacy. He survived bis elevation little more than two years, dying June 4, 1663.

## K.

K ; * the eleventh letter of the English alphabet, representing a close articulation, produced by pressing the root of the tongue against the upper part of the mouth, with a depression of the lower jaw, and opening of the teeth, and differs, in most ancient and modern languages, from $g$ hard only by a stronger pressure of the tongue, and a stronger expiration. (See G.) K, by the Greeks called kappa, is probably of later origin than $G$, as its most ancient form on monuments seems to be a contraction of gamma, i. e. in its first straight and its second bent form (IC). On the ancient coins of Crotona, Corinth, Syracuse, we find this sign, $P$, from which the Roman $Q$ originated. Both signs, according to Payne Knight, originated from the union of the doublebent gamma. In Latin, the $k$ was superfluous, its place being supplied by c. The Greek k was not adopted by the Latins before the time of Sallust, and was only used in words which began with $c a$, as kaput, kalumnia, kalumniator: hence a K was branded on the forehead of calumniators. As an abbreviation, in Latin, itsignifies Kaso (a name), and several other words, kalende, \&c. The Greek k stands, on coins, for Kaıtaр, Cæsar, Kגavঠıos, Claudius, Kанпагиа, Campania, \&c. It often also signifies Carthage. As an abbreviation, it often stands for кas, and кoivov, common, кo入ûva, colony, кopn, virgin, \&c. The Greek k signifies 20 , and, with a perpendicular stroke under it, $\mathrm{K},=20,000$. K , in Latin, is equal to 250 ; with a horizontal dash over it, $\bar{K},=250,000$. In Hebrew, it answers to kaph or koph. The Italians, Spaniards and Portuguese have banished the letter entirely from their alphabet. The French use it only in words originally German, Breton, \&c.; but, of late, it has become frequent in proper names of Oriental origin, on account of the numerous translations from Oriental languages into the Frencl. In English, most modern writers drop it at the end of

[^15]words of Latin origin, as public, music, \&c., formerly publick, \&c; but, in monosyllables, it is retained on account of their derivatives. In Swedish, Danisl, Dutch, Polish, $k$ sounds as in English. $K$ signifies, on French money, Bordeaux, and, on money coined at Cremnitz, $\boldsymbol{K}$ and $\boldsymbol{B}$ signify the mines of Kermecz and Bánya. $\boldsymbol{K}$, beforc a vowel, is one of the easiest sounds children learn; but it is difficult, if it precedes another consonant. The $k$, at the begimning of a word, does not always belong to the root, but is, like other aspirated letters, often a mere prefix. In German, it often originates from the reduplication ge and $g$ (see $\boldsymbol{G}$ ), particularly before a consonant.

Kasba ; originally a temple at Mecca, $^{\text {a }}$ in great esteem among the heathen Arabians, who, before they embraced Mohammedanism, called a small building of stone, in the same temple, kaaba, which has, in turn, bccome an object of the highest reverence with the Mohammedans. They say it was built by Abraham and Ishmael. On the side of it is a black stone, surrounded with silver, called brak$\tan$, set in the wall, about four feet from the ground. This stone has served, since the second year of the Hegira, as the kebla, that is, as the point towards which the Mohammedan turus his face during prayer. The pilgrims, or hadgis, touch and kiss this stone seven times, after which they enter the kaaba, and offer up their prayer. The Mohammedans first turned their face towards Jerusalem, until Mohammed ordered the present direction. Burckhardt (q. v.), in his Travels in Arabia, says "The holy kaaba is the scene of such indecencies, as cannot, with propriety, be more particularly noticed. They are not only practised with impunity, but it may be said publicly; and my indignation has often been excited at what drew forth only a laugh from other passengers." We find, therefore, that the Mohammedan pilgrimages produce the same disorders as those which attend Catholic pilgrimages that attract great numbers of people, and which
have led to the prohibition of such pilgrimages in most Catholic countries. In some places, however, they still exist, with all their disorder and licentiousness, as, for instance, at Einsiedeln, in Switzerland. The same results take place in the numerous assemblages of other sects, of which instances might be cited from Europe; and camp-meetings have not unfrequently been charged with a like tendency. The evil is the natural consequence of assenbling a multitude in a state of excitement.

## Kabbala. (See Cabala.)

Kabul. (See Afghanistan.)
Kempfer, Engelbrecht, a famous traveller, born at Lemgo, in 1657, and excellently educated by his father, a clergyman, studied medicine at Kőnigsberg, performed a journey, in 1683, as secretary to a Swedish embassy, by land through Russia to Persia ; after which he visited Arabia, Hindoostan, Java, Sumatra, Sian and Japan, in which last country he resided two years. In 1692, he returned, was appointed private physician of the count of Lippe, in his native city, and died in 1716. Of his writings, his History and Description of Japan is deserving of mention. This work was translated into English, from the manuscript, in 1727, published at London in two folio volumes; and, in the German language, it appeared first at Lemgo, in 1774, edited by Dolm. The greater part of his manuscripts, rich in important observations, have not yet been printed. Sir Hans Sloane purcliased them from Kæmpfer's heirs, and they are now to be found in the British museum.

Kestner, Abraham Gotthelf, a celebrated inathematician and epigrammatist, born at Leipsic, in 1719, never attended a public school. From his tenth year, he received instructions in jurisprudence from his father, who was professor in Leipsic; and in his eleventh, he joined a debating society of several youth studying law. He applied himself to philosophy, physics and mathematics; metaphysics in particular, according to his own statements, lad peculiar attractions for him. It is remarkable, that he found addition and multiplication very difficult, even after he had made considerable progress in mathematics. He continued also the study of law. In 1739, lie held disputations, and began to deliver lectures on mathematics, philosophy, logic and jurisprudeuce. He also attended to belles-lettres. Having obtained a professorship extraordinary in 1746, he was, in 1756, established on advantageous terms, in Göttingen, as professor of
natural philosophy and geometry: The study of mathematics was greatly promoted by his means. Among his numerous writings, which fill nine pages in Meusel's Gelehrte Deutschland, his Geschichte der Mathematik (1795) is the best. In general, his acute mind seems to have been too much directed to single points to allow him to grasp, and exhibit happily, the whole of the mathematical and physical sciences. He was not less celebrated for lis wit than for the cultivation of the severer sciences. His epigrams, however, involved him in many quarrels. He died in 1800.

Kaffraria, and Kaffres. (See Caffraria, and Caffres.)

Kain, Le. (See Le Kain.)
Kaiserslautern; a town on the river Lauter, with 4550 inliabitants, a gymnasium and seminary for teachers, in Rhenish Bavaria, on the Hardtgebirge, famous, in modern times, for the battle of Nov. 28, 29 and 30,1793 , between the duke of Brunswick and a divisiou of the French arny of the Moselle, under Hoche, which attempted to relieve Landau. Another battle was fought near Kaiserslautern, May 23, 1794, and a third, Sept. 20, 1794, iin both of which the French were unsuccessful. The passes leading from the Vosges to Landau and Mentz, both of which are German frontier fortresses, are situated here.

Kalaf (Arabic, a fort); a word which enters into the compositions of many geographical names of the East. Kelat has the same meaning.

Kalamata. (See Greece.)
Kaland (probally from Kalend $\infty$ ); a lay fraternity, which originated in Germany in the thirteenth century. The members assembled on the first of each month, to pray for their deceased friends, after which they took a repast in common. In the course of time, the religious purpose of the assenbly was forgotten, and the meeting became one of mere festivity, so that, at last, the fraternity was abolished on account of its excesses. The word kaland exists to this day in proverbs, \&c.
Kalb, baron de, a major-general in the American army, was born in Germany, about the year 1717. When young, he entered into the service of France, in which he continued for 42 years, and obtained the rank of brigadier-general. In 1757, during the war between England and France, he was sent, by the French government, to the American colonies, in order to learn the points in which they were most vulnerable, and how far the seeds of discontent might be sown in
them towards the mother country. He was seized, while in the performance of this commission, as a suspected person, but escaped detection. He then went to Canada, where he remained until its conquest by the British, after which he returned to France. In 1777, during the war of thc revolution, he came a second time to the U. States, and offered his services to congress. They were accepted, and he was soon after made a major-general. At first, he was placed in the northern army, but when the danger which threatened Charleston from the formidable expedition under sir Henry Clinton, in 1778, rendered it necessary to reinforce the American troops in the south, a detachment was sent to them, consisting of the Maryland and Delaware lines, which were put under his command. Before he could arrive, however, at the scene of action, general Lincoln had been made prisoncr, and the direction of the whole southern army in consequence devolved upon the baron, until the appointment of general Gates. Aug. 15, Gates was defeated near Camden by lord Rawdon, and, in the battle, baron dc Kalb, who commanded the right wing, fell, covered with wounds, while gallantly fighting on foot. A tomb was erected to his memory, by order of congress, in the cemetery of Camden.

Kalckreuth, Frederic Adolphus, count of, Prussian field-marshal, born at Eisleben, in 1737, entered the army in 1751. In the seven years' war, he served with distinction as aid of prince Henry, ascended, step by step, to the office of general, and was made a count in 1788. In the war with France, he manifested equal courage and ability. In 1793, he took Mayence. He contributed essentially to the victory of Möllendorf at Kaiserslautern, May 23, 1794. He soon after drove the French from Deux Ponts, and pressed forvard to Saar Louis. Towards the end of 1795, he received the chicf command of the troops in Pomerania, and, in May, 1806, was appointed governor of Thorn and Dantzic, and inspector-general of the cavalry. In the autumn, he joined the main army in Thuringia, but took no part in the battle of Jena and Auerstädt, being stationed in the rear. Junc 25, 1807, he concluded with Berthier, at Tilsit, the truce between Prussia and France, after which, in conjunction with Golz, he concluded a peace with Talleyrand. He was immediately after appointed fieldmarshal. In January, 1810, the king appointed him governor of Berlin. In the last war, count Kalckreuth was gor-
crnor of Breslan, and returned to Berlin in 1814, where he entered anew upon the government, and dicd in 1818. Hc was a man of rare qualities of mind and hcart.

Kaleidoscope; an instrument for creating and exhibiting an infinite varicty of beautiful forms, pleasing the eye by an ever-varying succession of splendid tints and symmetrical forms, and enabling the obscrver to render permanent such as may appear appropriate for any branch of the ornamental arts. This instrument, the invention of doctor Brewster, in its most common form, consists of a tin tube, containing two reflecting surfaces inclined to each other, at any angle which is an aliquot part of $360^{\circ}$. The reflecting surfaces inay be two plates of glass, plain or quicksilvered, or two metallic surfaces, from which the light suffers total reflection. The plates should vary in length, according to the focal distance of the eye: five, six, seven, eight, nine and ten inches, will, in general, be most convenient ; or they may be made only one, two, three or four inches long, provided distinct vision is obtained at one end, by placing at the other an eye-glass, whose focal length is cqual to the length of the reflecting planes. The inclination of the reflector that is in general most pleasing is $18^{\circ}, 20^{\circ}$, or $22 \frac{1}{2}^{\circ}$, or the $20 \mathrm{th}, 18$ th and 16 th part of a circle ; but the planes may be set at any required angle, either by a metallic, a paper, or cloth joint, or any other simple contrivance. When the two planes are put together, with their straightest and smoothcst edgc in contact, they will have the form shown in figure 1, where A B C is the apcrture or angle formed by the plates. In this figure the plates are rectangular; but it may often be more conrenient to give them the triangular form, shown at M figure 2, or N figure 3.

Figure 1.


Figure 2.


Figure 3.

N

When the instrument is thus constructed,
it may be either covered up with paper or leather, or placed in a cylindrical, or any other tube, so that the aperture A B C may be left completely open, and also a small aperture at the angular point D . If the eye is now placed at D , and looks through the apcrture A B C, it will perceive a brillinint circle of light, divided into as many sectors as the number of times that the angle of the reflectors is contained in $360^{\circ}$. If this angle is $18^{\circ}$, the number of sectors will be 20 ; and, whatever be the form of the aperture A B C, the luminous space seen through the instrument will be a figure produced by the arrangement of 20 of these apertures round C as a centre, in consequence of the successive reflections between the polished surfaces. Hence it follows, that, if any object, however ugly or irregular in itself, is placed before the aperture A B C, the part of it that can be seen through the aperture will be secn also in every sector, and every image of the object will coalesce into a form mathematically syminetrical, and highly pleasing to the cye. If the object be put in inotion, the combination of images will likewise be put in motion, and new forms, perfectly different, but equally symmetrical, will successively prescut themselves, sometimes vanishing in the centre, sometimes energing from it, and sometimes playing around in double and opposite oscillations. When the object is tinged with different colors, the noost beautiful tints are developed in snccession, and the whole figure delights the cye by the perfection of its forms and the brilliancy of its coloring. The eye-glass placed inmediately against the end of the mirrors, as well as another glass similarly situated at the other end, are of commor transparent glass. The tube is continued a little beyond this second glass, and, at its termination, is closed by a ground glass, which can be put on and ofi. In the vacant space thus formed, beads, pieces of colored glass, and other small, bright objects, are put. The changes produced in their position, by turning the tube, give rise to the different figures.

Kall; a gemus of marine plants, which are burnt to procure alkali. (See Alkali, and Kelp.)

Kallipygos. (See Venus.)
Kalma; a beautiful North American genus of shrubs, having coriaccous, evergreen and cup-shaped flowers, of a fine rose or purple color, disposed in large corymbs. The corolla is provided with 10 litthe pits, prominent externally, and in which the antliers are confined. It is naturally
allicd to rhododendrum. The K. iatifolua, commonly called mountain laurel, or calico $b_{l u s h}$, is a large shrub, growing most abmudantly on and about the Alleghany mountains, but sometimes in the vicinity of the ocean, in the Middle and Eastern States, as far north as lat. $43^{\circ}$. The truuk is sometimes three inches in dianeter, and the wood is very hard, susceptible of a fine polish, aud more nearly resembles box than any other North American wood. This shrub is in great request in the European gardens, from the beauty of its flowers and foliage. The other species of kalmia, four in number, are much inferior in stature and the size of the flowers, though still highly ornamental.

Kalugs ; an extensive government of European Russia, bounded by those of Moscow, Smolensko, Tula and Orel, lying between $35^{\circ} 48^{\prime}$ and $37^{\circ} 22^{\prime}$ E. lon., and $51^{\circ}$ and $54^{\circ} 30$ N. lat. Its territorial extent is 8500 square miles. Its population was, in $1796,853,000$, and is now about $1,176,000$. The chief products are corn, hemp and flax. The chicf rivers are the Oka, the Upa and the Schisdra. This province contains iron mines.

Kaluga ; capital of the above government, on the Oka. It has some very good public buildings, such as the high church, govermment louse, \&c. ; but, in other respects, it is irregular, most of the houses being of wood, and ill built. Population, 25,000; 107 miles south-west Moscow; lou. $36^{\circ} 5^{5} \mathrm{E}$. ; lat. $54^{\circ} 3^{\prime} \mathrm{N}$.

Kamen, or Kamien ; a Sclavonic word, signifying rock, stone, and found in many geograplicical names, as Kamin, Kamientz, Kaminietz, \&c.

Kamtsciation ; a large peninsula on the north-eastern coast of Asia, forming a district. On the east, it has the North Pacific ocean, and on the west that large gulf of it called the sea of Okhotsk. It extends from the 5 Ist to the 62 d degree of north latitude, and from $155^{\circ} 10^{\circ}$ to $173^{\circ} 20$ east longitude, and is reckoncd upwards of 600 miles in length, and nearly 300 in breadth ; square miles, 85,000 . It is remarkable for its extreme cold, which is heightened loy a range of very lofty monntains, cxtending the whole length of the peninsula. Several of these mountains are volcanic ; but the most rentarkable is one situated near Nijni Kantselatsk, the volcano of which is very active, and two years seldom elapse without some violcut eruption. Kantschatka scarcely enjoys three months of an inperfect summer, and is very deficient in regetable productions, particularly
grain. It has a great variety of animals which produce the ricliest and inost valuable furs. The sable is more plentiful here than in Siberia, though its fur is not quite so beautiful. There are several varieties of the Arctic fox, or fire fox, in Kamtschatka. Other cominon animals are the beaver, the hare, the marnot, and the argali or wild sheep. The bear is the most formidable wild animal, and the hunting of it the most serious occupation of the Kamtschadales. The coasts and rivers swarin to a inost extraordinary degree with fish, which form the main article of food of the inhabitants. Tre excellence of the salinon, herrings and different kinds of shell-fish, is particularly remarked. The air also is filled with game, particularly woodcocks, snipes, grouse, wild geese and ducks, the eggs of which last are collected by the natives, and preserved in the fat of fish. The only vegetable productions are stunted birch, and dwarf pines and cedar. Shrubs are more plentiful, such as the mountain ash, wild rose and raspberry. There is also a variety of berries. Copper and iron are worked. Sulphur abounds; and many ininerals are found in the inountains. The trade of Russia with Kamtschatka is carried on from Irkoutsk by the difficult and tedious route of Okhotsk. The imports, besides brandy, are nankeens and other Chinese stuffs, together with various commodities of Russian and foreign manufacture, as ribhous, handkerchiefs, stockings, caps, shoes, boots, and, in general, all articles of European consumption, but in small quantity, and bearing a very high price. The only export is furs, thic amount of which is valued at from 50,000 to 100,000 roubles. The capital is Nijni Kamtschatsk, with 300 inhabitants. The inhabitants are, in general, below the common licight, have broad shoulders and large lieads. The face, and particularly the nose, is long and flat, the eyes sinall and sunk, the lips thin, and they have scarcely any bcard. In 1690, the Russians had some knowledge of this country. In 1696, they sent thither a detacliment of Cossacks, under Morosko. The next year, part of the country was rendered tributary ; but it was not till 1706 , that all Kamtschatka was surveycd and occupied by the Russians. The sway which they have established is by no means severc; notwithstanding which, the Kamtschadales, like all savage nations coming in contact with civilized, have suffered deeply from the connexion. The number of inhabitants now amounts to only about 4500 , of
which about 1500 are Russians and Cossacks. 1 century siuce, the number was 20 or 30 times larger. This diminution is to be ascribed to their bloody struggles to shake off the Russian yoke, to the small pox, the unnatural practices of the women to procure abortion, and to their excessive indulgence in spirituous liquors. There is besides a class of criminals banished to this inloospitable region, and a varying population of merchants, hunters and scamen. The Kamtschadales are an ugly branch of the Mongol race, and call themselves Itelmes. They are good natured and hospitable, but given to the grossest sensuality. They are exccssive caters, practise lascivious dances, and are very dirty. Every Kantschadale village (ostroschok) consists of several summer dwellings, built on piles, rising several feet from the ground; the occnpants enter by ascending notched trunks of trees. In winter, the occupants of half a dozen of these balagans, as they are called, collect into a jurla, or winter dwelling, five feet deep, covered by a conc-shaped roof, and which cannot be entcred, except by ascending the roof, and going down the climncy through the smoke. The elothing of the Kamitschadiales is prepared froin the skins of reindeer or dogs, but much of the Russian style of dress has been introduced. The Kamtschadale women alone perform the houseliold oceupations, while the men take their ease, if necessity does not drive them to hunt, or to fish, or to prepare tools for both these occupations, or to build sledges and houses. The objects of the chase are the fur-bearing animals and the reindeer ; the principal fish taken are the whale and the seal. Barley, potatoes, turnips, cabbage, hemp, cucumbers, horseradish, are mostly cultivated only by the Russians. The chief food of the Kantschadales consists of fisl, seasoned with whale and seal fat, and a kind of paste prepared of the tender birch bark. Their favorite drink is the juice of the birch. The chief domestic animal is the dog, which serves for draught, and the skins furnish clothing. To prepare the dogs for draught, they are castrated, and four to cight are attached to a little sled, 16 pounds in weight, and capable of carrying a nan, at the rate of four or five miles an hour. These dogs require to be fed only in the winter ; in the summer, they live on the fish which they pick up on the shores of the sea and the rivers. The Kamtschadale does not tame the reiudeer, although all the neighboring people do. Since 1820.
swine and hens have been found here. The religion of the Kamtschadales was, and is still among the few who have not embraeed Christianity, Shamanism. But even the Christian Kamtschadales have not relinquished their soreerers or shamans. They believe in an almighty God, creator of the world, called Kuitka, but do not worship him, becanse their innumerable fetiches absorb all their attention. They believe in the immortality of the soul, which they also ascribe to the meanest brute. They give to animals speech and reason, and believe that dogs are making inquiries of strangers when they bark at thein. They relate also that, ages ago, a universal deluge covered the earth, out of which only one pair of liuman beings were saved.
Kangaroo (macropus, Shaw). These extraordinary animals, which are peculiar to Australasia, belong to the inarsupial order of quadrupeds (those with an abdominal pouch), from the other genera of which they differ by laving but two kinds of teeth, the canine being wanting. Their incisors are six in the upper jaw, and lut two in the lower ; the former short, and the latter long. The molars, whieh are separated from the incisors by a large vacant space, are 10 in number, in each jaw. The limbs of the kangaroo are strangely disproportioned ; the fore legs being small and short, whilst the hinder are long and powerful. The tail is very thick at its base, gradually tapering, and appears to aet as a supplemental limb, when the animal assumes its usual crect or sitting posture, in which position it is supported by the joint aetion of the tail and linder legs. This conformation also enables it to take amazing leaps. The fore feet are furnished with five toes, each terminating in a moderately strong and hooked claw. The hinder feet, on the contrary, are provided with only four toes, one of which is long, of great strength, and terminated by a large and powerful claw, like an elongated loof. The head and npper parts are small and delicatc, and appear disproporioned to the posterior parts of the animal, which are robust and powerful. They use their tails and hinder feet as weapons of defence. When they are pursued and overtaken by dogs, they turn, and, seizing them with their fore feet, strike then with their hinder extremities, and often tear them to such a degree as to destroy them. The kangaroos fecd entirely on vegetable substances, chiefly on grass. They associate in small herds, under the guidance of the older males.

The female lias two mamma in the abdominal pouch, ou each of which are two teats; the younger at birth are very diminutive, not excecding an inch in length. At this time, the inouth is merely a round hole, just capable of cinbracing the extremity of the nipple; but it gradually enlarges, till it cau receive the whole of this part into its cavity, where it lies in a groove formed in the middle of the tongue. The young continues to reside in the pouch, till it has attained maturity, occasionally leaving it for exercise or amusement, but immediately seeking refuge in it on the least alarm. The flesh of these animals is said to be nutritious and savory, somewhat resenbling mutton. They are capable of being domesticated, in which state they are harmless and even timid. The species of these singular animals have not hitherto been satisfactorily determined, as the differenees on which the distinguishing characters of each have been founded, are nerely those of size and slight modifications of color.
Kansas. (See Indians.)
Kansas, or Kanzas, or Kansez; a river of North America, which rises in the Rocky mountains, and, after an easterly course of about 1200 miles, unites with the Missouri, 340 miles from the Mississippi, in lon. $94^{2} 20^{\prime} \mathrm{W}$. ; lat. $38^{\circ} 31^{\prime} \mathrm{N}$.

Kant, Immanuel, born in Königsberg, in Prussia Proper, A pril 22, 1724, was the son of a harness-maker, in the suburbs of lis native place-a man of integrity and respectability, though of a humble station. Kant's mother was a woman of great piety, and nuch attached to the strict tenets and diseipline of doetor Schultz, a professor of theology at the university of Königsberg, a distinguished divine in his day. Though far from being in easy circumstances, liis parents resolved to bestow upon their son Immanuel the advantage of a liberal education. After having learned to read and to write in the charity school of the suburb, Kant was sent, in 1732, to the Collegium Fredericianum, at the suggestion of doctor Schultz, who, evell at that early period, had the penetration to discover the talents of the boy. At this sehool, he contracted an intimate friendship with Rhunken, afterwards so celebrated as a plilologist. Both were indefatigable students, and read and studied much together. It is remarkable that, at this period, Kant devoted his attention principally to philological studies, while his friend Rhunken seemed to have more fondness for philosophy. In their maturer years, they exchanged pursuits. Iu

1740, Kant repaired to the university of lis native city, and, at first, studied thicology, in consequence of the necessity of depending entirely on his profession for future maintenance. But at no period did lie neglect philosophy and mathematics. Hardly liad he arrived at the age of manhood, when he lost both his parents, who, indeed, had never been able to afford hini much pecuniary assistance; but he was fortunate enough to meet some relations, whose aid, together with his own industry and economy, enabled him to continue his studies. His application was uncommonly great, as is proved by his bold and successful attacks on the doctrines of Leibnitz and Wolf, and his skilful use of the weapons of dialectics against the authority of the most eminent metaphysicians of the day, when he was but 22 years of age. After a residence of about three years at the university, he acted in the capacity of a private tutor in several fanilics, and lived about nine vears with count Hüllesen, at Arnsdorf. Kant read much in this retirement, and traced the outlines of sercral of those philosophical treatises, which were soon afterwards published in rapid succession. In 1755, he returned to Königsberg, took the degree of M. A., and produced, on this occasion, in the form of an inaugural dissertation, lis treatise, entitled Principiorum primorum Cognitionis metaphysicie nova Dilucidatio. In the same year, he puhlished his celebrated work on the Universal Natural History and Theory of the Heavens, or an Essny on the Constitution and Mechanical Structurc of the whole Globe, according to the Newtonian system. In this treatise, he anticipated several of the subscquent discoveries of the astronomer Herschel, particularly the planet called after his name. Kant began to lecture, as doctor docens, on logic, metaphysics, mathematics and natmral philosophy, to which, at subsequent periods, he added natural law, moral philosophy, natural theology, and physical geog. raphy. He soon became popular with the students; but it was long before he obtained a professorship. He had no annbition beyond that of being useful in the sphere which he had chosen, nor could his noblc and strictly upright character resort to any kind of art to promote his worldly interest. In 1756, the professor extraordinarius of philosophy, Mr. Knutzen, died ; but Kant solicited in vain the vacant chair. In 1758, the professor ordinarius of philosophy died; but Kant was not appointed in his stead, though zealously aided by doctor Schult\%. In 1766, he accepted the
unsolicited situation of second keeper of the royal library, to which a small salary was attached; and, at the same time, he undertook the managernent of a private cabinct of curiosities. But these offices he resigned in 1772, oll account of the interruptions to which he was exposed hy the necessity of slowing the books anid rarities to strangers. In 1770, he was at length advanced to the ordinary professorship of logic and metaphysics in the university, to the lustre of which he had already so long contributed. He was now placed above the fear of want, and could employ his talents in a manncr satisfactory to limself. Upon this occasion, he produced his celebrated inaugural dissortation, De Mundi sensibilis atque intelligibilis Forma et Principiis. In 1787, Kant was made a member of the royal acadciny of sciences at Berlin. Having once attained independence, his wish to improve his wortdly concerns seems to have aspired no higlier. He declined varions advantageous proposals to transfer his talents to other universities, and, at length, died by a gradual decay, F'eb. 12, 1804, in the 80th year of his age, laving witnessed the great sensation which his philosophy produced among his countrymen, though his patieuce was exposed in this particular also to severo trials. Six years clapsed before much notice was taken of his great work, the Critique of Pure Reason ; and it is even said, that the publisher of it was about to use the numerous copies of the work which remained on hand as wastcpaper, when the demand suddenly increased, and three editions were disposed of in quick succession. Kant never went farther from Königsberg than to Pillan, seven German uniles (about 32 English) distant. In the earlier part of his life, lie used to dine at the ordinary of the principal tavern; to which custom he was nndoubtedly indebted in part for his knowledge of mankind. Reichardt, in the Urania (a German souvenir) of 1812, describes Kant as an extraordinarily lcan, small man. "Leaner, nay, dricr," lie says, than his small body, none prohably ever existed, and no sage probably ever passed his life in a more tranquil and self-absorbed inanner. A high, serene foreliead, a fine nose, and clcar bright eycs, distinguished lis face advantageously. But the lower part of lis countenance was marked with a strong expression of sensuality, which was conspicuous in his habits at table. He loved a mirthful company at a good dinner, and was himself an agrecable companion, who never failed to entertain and culiven the
company by his extensive knowledge, and an inexhaustible store of pleasing anecdotes, which he used to tell in the driest way, without ever laughing himself; and by the liumor of his repartees and observations. Kant's company was sought for by the first families of Königsberg, the more as lie stood in the greatest estcem for lis virtue and a noble pride, which well became the most distinguished man of the city, and one of the deepest philosophers who have ever lived. He was, in his exterior, always neat, and cven highly dressed. Kant was also fond of playing at cards, and he did not like to spend an evening without a gamc of ombre. He considered it as the only certain means of withdrawing his mind from deep thought, and tranquillizing it. He possessed a boundless memory, which added much to the interest of his lectures, as he interspersed them with many illustrations, with which his immense reading in history, biography, travels and novels, in fact, all works which could add to the stores of his knowledge, nmply supplied him. Though he had his notes before him, he seldom looked at them, and often quoted whole lines of names and dates from memory. His library was very small, but he had made a contract with a bookseller, who sent him all new publications, which, after reading, he sent back. He lectured the greater part of the forenoon, allowing himself 20 minutes rest between each lecture. In the afternoon, he lectured seldom. He rose early, and studied then most ardently. His lecturcs on abstract philosophy were much easier to be understood than his works, because, in the former, he added many clucidations, examples and explanations, which he thonght unnecessary in his printed works. Besides the great merits of Kant in regard to intellectual philosoply, we owe him much for his virtue and inflcxible morality, which he placed again on their true elevatel basis, after they had becn referred exclusively to intcrest by Helvetius and others. As to the philosophy of this profound thinker, a full account cannot be expected in a work of this sort ; a glance at it will be all which we can give. The inquirer into Kant's philosophy should be careful not to reject immodiately what he cannot understand, and ought not to expect to understand, without deep study aud strict mental discipline. To form an opinion of a whole philosophical system from the pages of a review, is more casy than satisfactory or profitable. In fact, a man can hardly hope to acquire a good idea of

Kants philosophy without reading him in the original. When Kant appeared, two philosophical systems were most in vogue-the sensualisin of Locke and his followers, and the idealism of Leibnitz, Wolf, \&c. Kant saw that little aid was rendered to the canse of truth by a dogmatic plinlosoplyy, whether founded on sensualism or idealism. He wislied for certainty in the field of philosophy, and put to himself the questions-What can I know? What is it that I know originally? The acute skepticism of Hume had had its influence upon him. Hume proved very satisfactorily, that our ideas of cause and effect are not derived from experience ; but he rashly concluded, as Kant observes, "that they are the spurious offspring of the imagination, impregnated by custom." Kant discovered that Hume had been led to this hasty inference in consequence of having taken too limited a view of the great problem which he had thus partially attempted to solve. He perceived that the idea of cause and effect is by no means the only one which the mind makes use of with the consciousness of its necessity, yet without having derived it from experience. This he found in his endeavors to ascertain what we can know, whelı led him to the fundamental laws of the mind. Having arrived at this conclusion, he strove to ascertain the exact number of these original or transcendental ideas, or imperative forms ; that is, such ideas as we do not derive from cxperience, but by which, on the contrary, we acquire experience. In the first rank of these, are space and time. Kant shows that all our perceptions are submitted to these two forms: hence he concludes, that they are within us, and not in the objects; they are necessary and pure intuitions of the internal sense. Trutlis acquired by expericnce never carry with them that absolute certainty ; for instance, experience teaches us that the sun rises every day; that all men are mortal ; yet we may imagine a day when the sun does not rise, and a man who does not die ; but imagination itself cannot suppose any thing unconnected with space and time. This primitive intuition must have, as its basis, the primary laws of the understanding, without which we can comprehend nothing. As far as the transcendental ideas, or, as Kant calls them, categories, extend, so far extends the knowledge of the understanding a priori. Kant was at great pains in endeavoring to ascertain the number of these categories, and he found them to be all comprehended under the four classes
of quantity, quality, relation and modality. The categories themselves are 12 in number. Under the first head are comprised unity, multitude, totality; under the second, rcality, negation, limitation; under the third, substance and accident, cause and effect, action and reaction; under the fourth, possibility, existence, necessity. 'These categories are nccessary and indispensable for our understanding, as the forms of space and time were for our perceptions ; we cannot figure to ourselves any thing without the relations of cause and effect, of possibility, quantity, \&c., which, with other words, is, we cannot perceive any thing except by thesc original, necessary, unchangcable forms of thonght. Hence the demonstrative certanty of inathematics, the objects of which--space, time, quantity, \&c.-lie in the necessity of the forms of thought, and not in the range of error to which experience is subject. To produce results, the categories are applied to exterior objects, objects of experience, in which application they are subject to crror. The threc origimal faculties, througl the medium of which we acquire knowledge, are sense, understanding, reason. Sense, a passive and receptive faculty, has, as lias been already stated, for its forms or conditions, space and time. Tnderstanding is an active or spontaneons faculty, and consists in the power of forming conceptions, according to the categories already given, which catcgories are applied to objects of experience through the mediun of the two forms of perception, space and time. Reason is the third or highest degree of mental spontaneity, and consists in the power of forming ideas. As it is the province of the maderstanding to form the intuitions of sense into conceptions, so it is the business of reason to form conceptions into ideas. The work in which Kant endeavored to ascertain these categories and the province of certain human knowledge, is his Kritik der reinen Vernumft--Critical Inquiry into the Nature of Pure Reason (lst cdition, Riga, 1781 ; Gth edition, Leipsic, $1818{ }^{\prime}$ ). Far from rejecting experience, Kant considers the work of all our life but the action of our imate faculties on the conceptions which come to us from without. The philosophy thus stauted was called critical philosophy-a very poor name, but which has now become scttled. Kant proceeds in a similar way with morality; the idea of good and bad is a necessary condition, an original basis of morals, which is supposed in every one of our moral reflections, and not obtained by ex-
perience. He treats this part of his philosophy in his: Kritik der praktischen Ver-munf-a Critical Inquiry into Practical Reason (1788; 5tl edition, Leipsic, 1818). Kiant plaecs unreservenly on two paralle! lines all the arguments for and against human liberty, the immortality of the soul, the transitory or eternal duration of the world; and resorts to the feelings to make the balance incline, because the inetaphysical proofs on the opposite sides are equally great. Thesc opposite arguments on great questions are called, in the works of Kant, antinomies. In esthetics, also, he pursues a similar comrse, and treats it in his Beobachtungen ruber das Gefühl des Schönen und Erhabencn (Riga, 1771)-Observations on the Foeling of the Beautiful and Sublime. Another inportant work of his is the Kritik der Ur-theilskraft-Critical Inquiry into the Faenlty of Judgment (Berlin, 1790; 3d edition, 1799). We must also mention Metaphysische Anfangsgründe der Reehtslehre-Metaphysical Elements of Legal Scieuce (1797; 2d edition, 1803); Metaphysical Elements of Ethics (1797;2d edition, 1803); Metaphysical Elements of Natural Science ( 1886 ; 3d edition, 1800); a Pragmat ical Treatise on Anthropology (1798; 3d edition, 1821) ; Of Perpetual Peace (1\%96); Religion considered within the Limits of Reason (1793); the only possible Evidence for demonstrating the Existence of the Deity (1763; last edition, 1794). Most of Kant's smaller treatises, full of acnte remarks, are contained in his K7eincre Schriften-Smaller Works (Königsberg and Leipsic, 1797, 3 vols.), and in the colleetion edited by Tieftrunk (Halle, 1799, 3 vols). Infeland, the physician, published Kant's work, Of the Power of the Mind, by mere Resolution, to control its morbid Feelings, with notes ( 2 d edition, Leipsic, 1824). Kant, of course, met with many opponents, the most prominent among whom were Mendelssohn, Hamann, Feder, Garve, Platner, Flatt, Jacobi, Herder, and particularly G. C. Sluntze, as Ænesidemus (1792), and in his Kritik der Theoretischen Philosophie (Hamb), 1801, 2 vols.). But his adherents were the more numerous party, and lis philosophy has been tanght in all the German universities, excepting some Catholic oncs. A very good enumeration of Kant's works, and those of his opponents, as well as of his commentators and followers, is to be fonnd in Tennemann's History of Philosophy, or Cousin's Manuel de l'Histoire de la Philosophie traduit de l'allemand de Temnemann (Paris, 1829, vol. 2).

Kapnist. (See Capnist.)
KARA, in the Tartar languages; black, as Karamania (black people, country of the). In opposition to another word of the same idiom which signifies white and free, kara has been used to signify tributury, e. g., kara Kalpacks (tributary Kahpacks).

Karaives. (See Caraites.)
Karamsin, Nicolas, imperial Russian historiographer, born in 1765 , educated at Moscow, in the house of professor Schaflen, entered the military service, and travelled, from 1789 till 1791, through Middle Europe. He is esteened by many the first original prose writer of Russia. Of his History of the Russian Empire, 11 volumes had appeared in 1824. It has been translated into French, both at Paris and St. Petersburg. This history extends to 1613 , to the louse of Romanoff. Ilis other writings are Letters of a Russian Traveller, Aglaia, a collection of tales (Moscow, 1794, 2 vols.), \&e. His songs are too scntimental. The emperor Alexander conferred on lim the order of St. Anne, and gave him 60,000 rubles for the publication of his great work. A free residence was also allowed him in a pleasure castle of the empress Catharine II, and all the archives opened to him. The third edition of Karamsin's works appeared in 1815, in nine volumes. Of his History of the Russian Empire, in the original, the second edition appeared in 1818. When on the point of making a journey into foreign countries, he died, June 3,1826 . Just before his death, the emperor had granted him a pension of 50,000 rubles, which was continued to his widow and children. Mr. Bowring has translated some of his poens.

Karifal; a French city on the coast of Coromandel, surrounded by the English territories, 26 leagnes from Pondieherry, under the jurisdiction of which it is. It produces a net revenue of 300,000 franes a year. Population, 15,000 ; population of the territory, about as many more.

Karla; the German name for Charles, appearing in many gengraphical names, as Karlstadt, Karlsruhe, Farlsbad. Karl is of the same origin as kerl, which means, at present, a strong, sturdy fellow, formerly a valiant, powerful man. It is the same with the English ceorl or churl.

Karlsbad, Karlsruhe, Karlstadt, sc. (See Carlsbad, \&c.)

Karschis, Anna Louisa (properly Karsch), a German poetess, was born Dec. 1, 1722, near Scliwibus, on the frontiers of Silesia. Her father kept an alehouse.

He died white she was young, and her mother, fearing that the eagerness for reading and writing which she displayed woutd nake her neglect domestic occupations, withdrew her from the house of her uncle, who had undertaken the care of her education, and employed her three years in taking eare of the cows; but she still contrived to gratify her desire of knowledge ; for, having become acquainted with a shepherd boy who brought her books, mostly poor ones, she read them secretly. Her mother married her to a weaver, whom she never had seen. This union was unhappy, and, after eleren years, was terminated by a divorce. She was now utterly destitute; and, a year after, her mother inarried her to a drunken tailor, Karsch, whom Karsehin hated. She now supported herself by selling occasional poems of her own composition, and by exhibiting as an improvisatrice about the country; but her drunken husband spent all her money. She finally attracted the attention of some influential man, and went to Berlin, where Ramler, Mendelssohn, Gleim, \&c., encouraged her. Sulzer, who called her the German Sappho, published some of her poems in 1764 , which produced her a considerable sum. She was admitted into the first society, and received several small pensions, but was not able fully to support herself, her two children and her brother. Frederic II took no interest in her, and did not give her the pension he had promised; but his successor, Frederic William II, ordered a convenient house to be built for her, which, however, she did not enjoy long, as her death took place in Oct., 1791. Her daughter published part of her poems, with her life, in 1792; new edition, 1796.
Kasan ; an extensive province or government of European Russia, lying between $46^{\circ} 20^{\prime}$ and $49^{\circ} 40^{\circ}$ E. longitude, and $54^{2}$ and $57^{\circ} \mathrm{N}$. latitude, and surrounded by the goveruments of Viatka, Orenburgh, Niznei-Novgorod, and Simbirsk. Its territorial extent is over 22,000 sq. miles; its population about $1,000,000$, partly Russians, and partly Tartars, though of very mixed origin. The rivers are the Wolga, the Kama, the Sura, the Viatka, and the Kasanka, besides smaller streams, and a great number of lakes.
Kasas ; a city of Russia, on the Kasanka, about four miles above its junction with the Wolga. Many Mohainmedan Tartars still reside there, engaged in business. It is a bishop's see, and the seat of a small university; founded in 1803. It has also several other schools. Herc are
large soap-works and tanneries; also manufactures of woollen, cotton, lace, and carthen ware. It carries on an extcnsive trade. The caravans to Bucharia and China pass through Kasan. At a little distance from Kasan is a new admiralty establishment, with a navigation school, magazines, and a dock-yard, where galliots are constructed, and sent down the Wolga to the Caspian sca. Population, 25,000. 208 miles E. by S. Niznei-Novgorod ; lon. $49^{\circ} 21^{\prime} 9^{\prime \prime} \mathrm{E}$.; lat. $55^{\circ} 47^{\prime} 51^{\prime \prime} \mathrm{N}$.
Katahdis; a mountain in the state of Maine, situated between the castern and western branches of the Penobscot river. It is a detached mountain, stecp on all sides, and extremely rugged. It was rcputed, by the aborigines, to be the residence of supernatural bcings. But few persons have visited its summit. It commands a very extensive view, embracing no less than 63 lakes. Its height, as ascertained by barometrical obscrvations, is 4685 fcet above the lcvel of the west branch of the Penobscot at its base, and about 5335 feet above the occan. It may be seen, in a clear day, from Bangor, a distance of 70 miles, and from Dixmont, 80 miles distant.

Katt. (Sec Frederic II.)
Katzbach; a small river in Silesia, passing near Leignitz, famous for the victory which the Prussians and Russians under Blücher gained, Aug. 26, 1813, over the French under Macdonald, Ney, Lauriston and Sebastiani. It rained from August 24 to the 28th. Fire-arms could not be used, and the battle was fought hand to hand. It was short, and was terminated by a furious struggle between the Prussian cavalry under Blücher and the French inder Lauriston, together 8,000 men. The French were broken, and were driven, horse and man, into the raging Neisse and Katzbach. Great numbers perished in the swollen streams. The result of the battle was more surprising, as a great part of the Prussian troops were raw militia. It is one of Blu'cher's grcatest victories. During the battle and the following days, 103 Frencl cannon werc taken, two eagles, and 18,000 prisoners. Silesia was dclivered, and the consequences were most important, particularly for Boliemia. The battlc of the Katzbach took placc on the samc day that Napoleon repelled the attack of the allics on Dresden.

Kacfuann, Angelica, a distinguished painter, born at Coire, in the Grisons, in 1741, received her first instruction in drawing and painting from her father,
who, at the time of her birth, was painter to the bishop. Ifer admiration of the beautiful was carly developed. She loved music, and made great progress in painting, under the guidance of her father, whose talents were but moderate, and whom slie soon cxcelled. On her first journcy to Italy, where she resided from hicr 13th ycar till 1769, in Milan, Florence, Rome and Naples, slie acquired great skill ; and her subscquent visit to London, where she painted the whole royal family, increased her reputation and improved her circuunstances. Herc she was elected a member of the royal academy, and here, also, she contracted an unfortunate marriage, of which the following circuinstances arc related. An English artist, who had paid his arddresses to her, offended by her refusal, determined on vengeance. A handsoune young man, chosen from the lowest class, was enabled to appear in the house of Angelica, and to become her suitor. She suffered herself to be deceived, and became his wife. The rejected artist now disclosed the deceit. Angclica obtaincd a divorce, but was obliged to settle an amnuity on her husband. He, however, soon dicd. After her return to Rome in 1782, slie was marricd a second time, more happily, to a Venetiau painter, Zuccli, but she never had any children. Zucchi, likewise, died long before her. Angelica then devoted hersclf to painting till her death, in 1807. Her lust was placed, in 1808, in the Pantheon. She left a select library, some beautiful original paintings of old masters, and a considerable fortune, which she divided among scveral individuals and charitable institutions. She paiuted many portraits and historical picturcs, the latter chicfly after antiques. She prcferred ideal fcmale figures. Her works are remarkable for grace, though the critic may discover in them incorrectness of style and sameness of plan and exccution.
Kaunitz, Wellceslaus Anthony, prince of, kuight of the golden flecce, fifth son of count Kaunitz, and one of ninctcer1 children, was born in Vienna, in 1711, and was at first destined for the church, but, after the death of all his brothers, engaged in political life. His talents, aided by a favorable cxterior, opened a brilliant career to lim. After having studied at Vienna, Leipsic and Leyden, he entered upon his travels, in 1732., In 1741, he was sent to pope Benedict XIV, and to Florence, on a secret mission, by Maria Thercsa. In 1742, he went as Austrian ambassador to Turin, where he accom-
plished his mission to unite Sardinia more closely with Austria against the Bourbon courts so successfully, that, in 1744, he was appointed minister at the court of Charles, duke of Lorraine, then governorgeneral of the Austrian Netherlands. He conducted the most difficult affairs, in a higlily critical state of the Netherlands, to the greatest satisfaction of the empress; but his feeble health obliged him to ask his dismission, and he returned to Vienna. Soon afterwards, however, he appeared as minister plenipotentiary at the congress of Aix-la-Chapelle (q. v.), where he laid the foundation of his fame as a diplomatist. From 1750 to 1752 , he was minister at Paris, and prepared the union of Austria and France, which took place in 1756. In 1753, he had been made court and state chancellor, and, in 1756, was created chancellor of Italy and the Netherlands. Thus he not only managed the foreign affairs of Austria, under Maria Theresa, but had also the greatest influence ujon the domestic concerns. In 1764, the emperor, Francis I, raised him to the dignity of prince. As long as Maria Theresa lived, her confidence in Kaunitz was unbounded; but the cmperor Joseph did not implicitly follow his advice; of which the unsuccessful attempt to open the Scheldt and to exchange Bavaria, as well as the unfortunate war with Turkey, were consequences. Under the reign of Leopold II, the influence of prince Kaunitz was still less. When Francis II ascended the throne, his advanced age induced him to resign the office of court and state chancellor. He made up his opinions slowly, and after mature consideration. Voltaire was his favorite author, and he had much esteem for Ronsseau, who had been for a few weeks his private secretary at Paris. In Lombardy and the Netherlands, he instituted academics. Learned mon found free access to him, and he cultivated the arts. The school of art at Viema is almost entirely his work. Several painters and engravers were indebted to him for his patronage. His love of dress was considered extravagant. He was strictly honest and fuithful. He rarcly laughed, yet he was affable to all below him in rank. Under Joseplh's government, Kaunitz ceased to appear at court, but the emperor often went to visit him, and received much assistance from him in his ecclesiastical reforms; hence he was called, by the court of Rome, il ministro eretico; yet, when the pope was at Vienna, he gave him, as a matter of policy, not the back, hut the palm of his hand to kiss, which was for-
merly considered the highest favor; but the prince, pretending not to understand this etiquette, took the hand of the pope in his, and gave it a hearty shake. He died in 1794, with the reputation of one of the ablest ministers Austria had ever produced, and the still greater faine of a man of noble character. No minister was ever treated with a longer and more intimate confidence, which was founded equally on his talents and lis strict integrity.

Kean, Edmund; a famous English actor, born in London, Nov. 4, 1787. His father, a poor builder or tailor, procured a situation for him as a figurant in the pantomimes at Drury-lane theatre, when he was only two years old; but here, by the unnatural and forced positions which he liad to practise in order to make his limhls more pliable, he became deformed. Some of the actors procured him surgical assistance, his limbs were supported, and he finally outgrew his bodily defects. At seven ycars, his mother sent him to a little school; but order and obedience were not in his character, and he engaged himself as cabin-boy in a vessel going to Ma deira. This situation, however, equally displeased him, and, to deliver himself, in Madeira, he feigned deafness, and played his part so well, that the captain sent him home. In London, he could not find out his mother; but a woman who had had him under her care recommended him to Miss Tidswcll, an actress at Drury-lane theatre, who gave him muclı assistance. At one period, after his return to London, he exhibited as a droll, in a booth. After this, he was placed in one of the minor theatres, and was much applauded in Rolla's address to the Peruvians. From this period, he commenced reading dramatic productions. His protectress recommended him to a company of players in Yorkshire, where he appeared under the name of Carey. Although not more than 13 years old, he performed the parts of Hamlet, Lord Hastings, and Addison's Cato, well cnough to please a provincial audience. In Windsor, his talent was applauded by the royal family, in Satan's address to the sum, from Paradise Lost, and the first soliloquy in Slaakspeare's Richard III. About this time, he was fortunate enough to attract the attention of doctor Drury, who sent him to Eton, where he remained three years, and is said to have made much progress in classical studies. On leaving Eton, he again took the name of Carey, and went from stage to stage. Playing Hamlet in the
island of Guernsey, a journal there abused him ; and when he afterwards performed Richard, he was received with exclamations of displeasure. Kean, for a while, patiently submitted, but very significantly addressed a passage from lis part to the pit-"Unmannered dog, stand thou, when I command." Upon this, the disorder increased, and, instead of apologizing, he addressed his audience to the following effect:-"You have shown some symptoms of understanding in applying the words to yourselves." He had to pay dear for this impudence; was obliged to leave the town, and remained in great distress, till some of his friends interceded for him with the governor of the island. Kean afterwards went to Dorchester. In the mean time, doctor Drury, his old patron, had recommended him to the directing committee of Drury-lane, as fitted to revive this declining theatre. He was, in consequence, engaged for three years at Old Drury. Kean appeared for the first time on the London boarls, Jan. 26, 1814, in the character of Shylock. The first evening was deeisive; but his Richard III made him the idol of the Londoners. In Othello, also, and sir Giles Overreach, he has been unequalled by any contemporary. When he performed Massinger's Jew the first time, the actors, and others of his admirers, presented him with a gold cup, as a token of their estcem (June 2.5, 1814). In 1820, he visited the United States, and performed in New York, Philadelphia, Baltimore, and Boston, on the whole, with great success. After his return to England, the extravagance and dissoluteness which had always disgraced his character, involved him in great embarrassments, and a second visit to America, in 1825, was attended with little credit or advantage.

Keats, John; a young English poet, of humble origin, born Oct. 29, 1796, at a livery-stable kept by his grandfather in Moorfields. He was sent to school at Enfield, where he remained till the age of fifteen, and was then bound apprentice to a surgeon; but his inclination to poetry having been cultivated by his teachers at school, he gave way to the ambition of locoming a poet. Keats's first volume of poems, many of which were written in his teens, made its appearance in 1817, when he was in his twenty-first year. This was followed by Endymion, a Poetic Romance, in 1818; and, in the year 1820, he published his last and best work, Lamia, Isabella, and other Poems. Being in feeble health, he was prevailed upon to try
the climate of Italy, where he arrived in Novenber, 1820, and died in Rome, oll the 27 th of December following. His death has been attributed to the attacks of crities; but it was, in fact, owing to a consumptive eomplaint of long standing. Mr. Keats had great sensibility and inagination. His Endymion, with all its faults, has innch beauty. The fragment of Hyperion, his last performance, obtained tho admiration of lord Byron.

Kebir; an Arabian word, which signifies large, and is found in many geographical naines.

Kebla. (See Kaaba, and Koran.)
Kedge, or Kedger; a small anchor, used to keep a ship steady and elear from her bower-anchor, while she rides in a harbor or river, partieularly at the turn of the tide, when she might otherwise drive over her principal anehor, and entanglo the stock or flukes with her slack cable, so as to loosen it from the ground. The kedge-anchors are also used to transport a ship, or remove her from one part of a harbor to another, being carried out from her in the long-boat, and let go by nearss of ropes fastened to these anchors. They are also generally furnished with an iron stock, whieh is easily displaced for the convenience of stowing. (See Anchor.)
Keel; the principal piece of timber in a ship, which is usually first laid on the blocks in building. By comparing the carcass of a ship to the skeleton of the human body, the keel appears as the back-bone, and the timbers as the ribs. The keel supports and unites the wholes fabric, since the stem and stern-posts, which are elevated on its ends, are, in some measure, a continuation of the keel, and serve to connect and enclose the extremities of the sides by transoms, as the keel forms and unites the bottom by timbers. The keel is generally composed of several thick pieces placed lengthways, which, after being scarfed together, are bolted and clinched upon the upper side.
False Keel ; a strong, thick piece of timber, bolted to the bottom of the keel, which is very useful in preserving its lower side. The false keel is provided when the thick pieces which form the real keel cannot be procured large enough to give a sufficient depth thereto. In large ships of war, the false keel is composed of two pieces, called the upper and lower false keels. The lowest plank in a ship's bottom, called the garboard streak, has its inner edge let into a groove or channel, cut longitudinally on the side of the keel: the depth of this channel is therefore reg-
ulated by the thickness of the garboard streak.
Keel-Hauling; a punishment inflicted for various offences in the Dutch navy. It is performed by suspending the culprit by a rope from onc yard-arm, with a weight of lead or iron upon his legs, and having another rope fastened to him, leading under the ship's botton, and through a block at its opposite yard-arm. He is then suddenly let fall from the one yardarm into the sea, where, passing under the ship's bottom, he is hoisted up on the opposite side of the vessel to the othcr. This punishment is not altogether unlknown in British ships; but, as it is dangerous, it is very rarely, or, indced, scarcely ever, now practised.
Keclson, or Kelson; a piece of timber forming the interior or counterpart of the keel, bcing laid upon the middle of the floor timbers immediately over the keel, and serving to bind and unite the former to the latter, by means of long bolts driven from without, and clinched on the upper side of the keclson. The kcelson, like the keel, is composed of several pieces scarfed together; and, in order to fit with more security upon the floor timbers and crotchets, it is notched about an inch and a half deep, opposite to cach of those pieces, thereby scored down upon them to that depth, where it is secured by spike-nails. The pieces of which it is formed are only half the breadth and thickness of those of the keel.

Keeners; the name of the Irish siuging mourners. The Irish have always been remarkable for their funeral lamentations, and once were celebrated for their musical art, in the last sad offices to their departed friends. Formerly, these duties were performed by dressing the body of the deceased in grave-clothes, ornanenting it with flowers, and plaeing it on a bicr ; when the relations and keeners, ranging themsclves in two divisions, one at the hicad and the other at the feet of the corpse, the chief bard of the head chorus, softly accompanied by the harp, sung the first stanza of the caoinan, or funeral song. This being ended, the foot semi-chorus began the lamentation, or u $l^{l}$ laloo, in which they were answered by the head serni-clorus, and then both united in one general chorus. After this, the chief bard of the foot semi-chorus began the serond gol, or lamentation, in which he was answered by that of the head; and then, as before, both united in the general full chorus. Thus, alternatcly, were the song and choruses soleminly performed
during the night. But whatever merit or decorum there might formerly be in these vocal obsequies of the Irish, they have, at present, little to boast, either of melody, harmony or dignity. The keeners noiv generally consist of a motley multitude of men, women and children, and the cavinan is degenerated into a wild and hideous howl.
Keep, in ancient military history; a kind of strong tower, which was built iu the centre of a castle or fort, to which the besieged retreated, and made their last efforts of defence. It is also called the donjon, or dungeon.

To keep; a tern used, on several oceasions, in navigation; as, to keep the land aboard, is to keep within sight of land as much as possible.-To keep the luff, or the wind; to coutinue close to the wind; i. e. sailing with a course inclined to the direction of the wind as much as possible. -To keep off; to sail at a distance from the shore or a ship, \&c.

Keeper of the Great Seal (see Chancellor, Lord Migh, of England; for the office and privileges of the French keeper of the scals (garde des sceaux), before the French revolution of the last century, see Chancellor). The garde des sceaux, or keeper of the seals, in France, is at present always minister of justicc. On the continent of Europe, the department of justice is directed in the same way as the finances, \&c., at the head of which stands a chef, or minister.
Keeper of the Privy Seal,in England, is a lord by virtue of his office, through whose hands pass all charters signed by the king, before they come to the great seal.
Keeper of the King's Conscience. (See Chancellor.)

Boat Keeper; one of the boat's crew who remains as a sentinel, in his turn, to take care of the boat and her contents when she is ashore, or along-side of a ship, or is towed astern of her.
Keeping, in painting, is a technical term, which signifies the peculiar manascment of coloring and chiaro oscuro, so as to produce a proper degree of rclievo in different oljects, according to their relative position and importance. This may be effected either by shadc or color, either by throwing a shadow across the inferior objects, or by tinting them with a color less bright than that given to others, and, in very skilful hands, it may even be done by the directly reverse practice. As the objects recede in the ground plane, the hue of the atmosphere, intermixing with their proper or local color, as it is termacd,
will assist in their keeping. On kecping, relievo entirely depends; for, if the lights, shadows and half tints be not kept in thelr exact relative proportions of depths, no rotundity can be effected, and, without due opposition of light, shade and colors, no apparent separation of objects can take place. The celebrated Raphael has, in two instances, totally failed of proper keeping-in the Transfiguration, and the miraculous Draught of Fishes.-The word keeping is also sometimes used of works in other branches of the fine arts, as of a drama, to denote the just proportion and relation of the various parts.
Kehl; a village in the grand-duchy of Baden, formerly a fortress of the Gerinan empire, situated at the influx of the Kinzig into the Rhine, over which there is a bridge to Strasburg, about two miles distant. The fortress was built by the French, towards the end of the seventeenth century, and was intended to aid Louis XIV's plans of conquests on the right bank of the Rhine. By the peace of Ryswick, in 1697, Kehl was ceded to the margrave of Baden-Baden, the empirc retaining the right to garrison it. In the middle of the last century, the fortifications werc demolished, and Kehl became the seat of manufactures. Here Bcaumarchais established his printing press, from which proceeded his edition of Voltaire and other magnificent editions. During the revolutionary war, the fortifications were rebuilt. Kebl has sustained several sicges (the severest in 1796), has been alternatcly in French and German hands, and has been three times burnt down. In 1808, it was included in the department of the Lower Rhine: in 1814, it was restored to Baden. In 1815 , the works were again demolished. It has 980 inhabitants.

Keiser, one of the earliest German opera composers, born at Leipsic, in 1673, died 1739. He left 118 operas, besides much church-music, full of originality, and distinguished by a noble and pure style. Being, besidcs, self-formed, hc descrves to be ranked among the first composers.

Keith, James; a brave and experienced warrior, as well as an able and successful politician, field-marshal of Prussia, and the confidential fricnd of its sovereign. He was descended of a noble house in Scotland, being the youngest son of William Keith, earl-marshal of that kingdom, and was born in 1696 . The breaking out of the rebellion, in 1715, developed his nilitary propensities, and gave the future color to his fate. His inother, warmly
attached to the house of Stuart, added her persuasions to the dictates of his own inelination, and, at the age of 19, he joined the Pretendcr's standard. 'The issuc of the battle of Sheriffinuir, so unfortunate to thic cause he had embraced, drove him into voluntary exile; he escaped frow the conflict wounded and with difficulty, and effected a retreat to France. Herc he applied hinself with grcat diligence to the study of mathematics and military tactics, having previously made considerable progress in classical and general litcrature, under the auspices of the celcbrated Ruddiman. In 1717, he quitted Paris for Italy, whence he proceeded to Spain, in the capital of which kingdon he was fortunate enough to obtain the fricndship of the dukc of Liria, who procured him a command in Ormond's Irish brigadc. He subsequently accompanicd his patron, when appointed ambassador to Russia, where, through the duke's recommendation, he obtained the rank of lieutenantgeneral from the czarina, who also conferred on him the order of the black eagle. In the Russian service, he continued several years, distinguishing himsclf as well in the ficld as in the cabinet, during the wars with Turkcy and Sweden. In the revolution, which cnded by the elevation of the czarina Elizabeth to the throne, he also took a prominent part ; but, at length, on some disgust, he obtained his dismissal. On lcaving Russia, he went to Berlin, where the king of Prussia, to whom his abilities were well known, received him with open arms, and raiscd him to the post of governor of his metropolis, and field-marshal of his forces. He made him also his confidential companion, sclecting him as his associate in a tour which he made incognito through part of the north of Europe. In the subsequent wars of that martial monarch, ficld marshal Kcith continued to display the greatest military talents as well as zeal in his service, till his earcer was fimally closed by a cannon-shot, in the unfortunate battle of Hochkirchen, Oct. 14, 1758.

Keleer, John Balthasar, was born at Zurich, and studied the art of casting in metal, during the most flourishing time of Louis XIV. Kcllcr soon distinguished himself by the boldness with which he undertook to cast the most importaut works. Towards the end of the 17 th century, Girardon made the model of an equestrian statue of the king, 21 feet high. The statues of Marcus Aurelius, Cosmo de' Medici, Henry IV and Louis XIII had been cast in several pieces; but

Keller undertook to cast the statue of the king in one piece. The work was successful, and did as much honor to Teller as to Girardon. The king rewarded him, and gave him the direction of the foundery of the arscnal. He died in 1702. His brother, Joln James Keller, born 1635, was likewise a skilful founder. He died at Colmar, in 1700.

Kellermann, duke of Valmy, marshal and peer of France, born at Strasburg, in 1735, entered the Conflans legion as a hussar, in 1752, and performed in it the first campaigns of the seven ycars' war. He went through all the degrees of service, up to the rank of maréchal de camp. At the breaking out of the revolution, he so distinguished himself by patriotism and judgment, that the citizens of Landau, in the garrison of which he was stationed, presented him with a civic crown. At the commencenient of the war, he received the command of the army of the Moselle, formed a junction, in September, with the main arny under Dumouriez, and sustained, Sept. 20, 1792, the celebrated attack of the duke of Brunswick. This cannonade of Valmy, as it is called, caused the allies to retreat, and perhaps decided, not inerely the whole campaign, but also the fate of Europe and the supremacy of France, till 1813. In the following wars of France, Kellermann received various general commands. Napoleon loaded hin with honors, and gave him Johannisberg. After the restoration of the Bourbons, he was appointed a member of the chamber of peers, where he espoused the liberal sidc. He died Sept. 12, 1820, 85 years of age. In his last will, he had ordered that his heart should be buricd on the field of Valmy, and his simple monument be markel by the following inscription: Ici sont morts glorieusement les braves qui ont sauvé la France au Sept. 20, 1792. Un soldat, qui avait l'honneur de les commander dans cette mémorable journée, le maréchal Kcllernann, duc de Valmy, dictant, après 28 ans, ses dernières volontés, a voulu que son cceur füt placé au milieu d'cux. This ccremony was performed in a solemn manuer, Oct. 28, 1820.

Kellgren, Henry, a Sivedish poet and savant, was born in 1751, in Sclonen, and studied at the university of Abo. Gustavus III protected him against the assaults of envy in Stockholm, and placed him beyond the reach of want. He was one of the first members of the academy of sciences, established by the same monarch, at Stockholm. Kellgren's assiduous study
was too much for his weak frame. IIe died in the Swedish capital, in 1795. On his tomb-stone are the words Poete, philosopho, civi, amico lugentes amici. He is considered as a poet of a very rich imagination. His complete works appeared after his death at Stockholn. As editor of the literary part of the Stockholm Journal, he labored much to improve the taste of his countrymen, and his criticisms made him many enemics.

Kelp, in commerce ; the ashes of seaweeds or fuci. (See Fucus.) F. serratus and $F$. vesiculosus, the species used in the manufacture of this article, grow attached to rocks between ligh and low water mark, and are often termed rock-weed. On the Scottish coast, the sea-wecd is cut close to the rocks, during the summer season, and afterwards spread out upon the shore to dry, care being taken to turn it occasionally, to prevent fermentation. It is then stacked for a few weeks, and sheltered from the rain, till it becomes covered with a white saline efflorescence, and is now ready for burning. This is usually accomplished in a round pit, lined with brick orstone; but the more approved form for a kiln is oblong, about two feet wide, eight to eighteen long, and from two to three dcep: the bottom of this is covered with brush, upon which a little dried sea-weed is scattered, and firc is applied at one extremity; the sea-weed is now throwa on gradually, as fast as the combustion reaches the surface, and, should there be much wind, it is necessary to protect it by covering the sides with sods; after the whole is burnt, the mass gradually softens, beginning at the sides, when it should be slowly stirred up with a heated iron bar, and incorporated, till it acquires a semifluid consistence. This part of the process requires considerable dexterity ; and, if the mass continues dry, a little common salt should be thrown on, which acts as a flux. When cold, it is broken up, and is now ready for sale.-Notwithstanding that kelp contains but two or thrce per cent. of carbonate of soda, while Spanish barilla often contains twenty or thirty, the manufacture of this article has increased prodigiously on the northern coasts of Grcat Britain and the neighboring islands. Sinall farms in the Orkneys, which formerly rented for $£ 40$ a year, have now risen to $£ 300$, on account of their kelp shores; and so much importance is attached to this branch of business, that, along sandy shores,stones have been placed within the flood-mark, which, in a short time, become covered with sea-weed. Many
thousand tons are thus manufactured annually, and are sold in the various ports of Great Britain, at the rate of from 7 to £10 per ton. One of the products of kelp we have not yet adverted to, is iodine. (q. v.) The uses of soda are, in gencral, the same with those of potash, but there are certain branches of manufactures to which it is indispensable, as to the making of plate and crown-glass, and all hard soaps. Both alkalies are consumed inimmense quantities by soap-boilers, bleachers and glass-makers ; but it is said that in France the use of potash has very much diminished since the culture of barilla has been introdueed. New England, being the only part of the U. States which has a rocky coast, would seem to be the only part of our country fitted for the manufacture of kelp. The greater rise of the tides north of cape Cod, and especially in the more eastern parts, is also a favorable circumstance; indeed, this branch of business has been carried on in the state of Maine. On the other hand, the thonsand sounds and estuaries of the more southern coast open all almost unlimited field for the culturc of barilla. It is well known that the shores of the sea, and saltinarshes, as well as the margins of interior salt lakes and salines, and, in general, all places to which water holding muriate of soda in solution gains access, are inhabited by peculiar plants. Several entire genera arc confined to such situations. In these maritime plants, soda replaces the potash, which is always present in those growing in ordinary situations, and it is even said that if they are removed to a distance from the sea-shore, they gradually lose their soda, and acquire potash in its stead. The barilla obtained in France from the salicornia annua yiclds 14 or 15 per cent. of soda; and that from salsola tragus, S. kali, statice limonium, atriplex portulaccoides, \&ce., yields only from 3 to 8 per cent. The Spanish barilla is the most esteemed, particularly that from Alicant, and is obtained from the salsola sativa, which is carefully cultivated in light, low soils, embanked on the side next the sea, and furnished with flood-gates, through which the salt water is occasionally admitted. So anxious are the Spaniards to monopolize this trade, that the exportation of the seed is prohibited under pain of death. (See Barilla.) Carbonate of soda is also found abundantly in a mincral state in many countries, as in Hungary, the southern parts of Siberia, Persia, China, North Africa, and the environs of Smyrna; but the native salt has not hitherto
become important as an article of courmerce.
Kemble, John Philip; one of the most eminent tragedians of the British stage since the days of Garrick. He was the eldest son of Roger Keinble, manager of a company of comedians at Prescot iu Lancashire, in which conuty he was born, February, 1757, and reccived the rudiments of education at the Roman Catholic seminary of Sedgeley park, Staffordshire. With the view of qualifying him for one of the learned professions, he was afterwards placed by his father at the college of Douay, where he early distinguished hinself by his proficiency in elocution. On his return to England, haviing completed his academical pursuits, he entered immediately upon the profession of an actor, for which he had long exhibited a decided predilection. At this period, he produced a tragedy on the story of Belisarius, which was acted at Liverpool, and printed a volume of Fugitive Pieces, ill verse, with which he was, however, so dissatisficd, that, on the day after their publication, he destroyed every copy he could recover. Mr. Kemble appeared, for the first time in Loudon, on the Drury-lane boards, Scpt. 30, 1783, in the part of Hamlet, and was received with great applause. It was not, however, till the retirenent of Smith from the stage, in 1788, that he took a decided lead in tragedy. He afterwards obtained the management of Drury-lane theatre, which he enjoyed, with only a short interruption, till 1801. In 1794, he brought out a musical entertainment of his own, entitled Lodoiska, which had a great run, and has since been revived with benefit to the theatre. In 1802, he visited the continent, and having passed 12 months at Paris and Madrid, returned to London, when he purchased a sixth share of Co -vent-garden theatrc, and became manager of that establishment. Here he continued his carcer with great success, till the dcstruction of the theatre by fire in 1809. In the autumn of the same year, the present edifice, being constructed, opened with an increase of prices, which, together with certain obnoxious arrangements in regard to the private boxes, created, for a series of nights, the disturbances known by the name of the $O P$ riots. Mr. Kemble took his farewell of the stage July 23, 1817, on which oceasion he was complimented with a public dinner and other honorable tokens of csteem, and shortly after rctired to the continent, where he died at Lausaune, in Switzerland, Feb. 26, 1823, of a paralytic attack, after a few hours' ill-
ness. As an actor, Kemble was distinguished for dignity, precision, and studious preparation. His merits were differently appreciated, but by all hc was rcgarded as a highly gifted actor, and the impression which lie made in characters more inmediately adapted to his style of excellence, such as Cato, Coriolanus, Hamlet, John, Jaques, Penruddock, was very great. His management both of Drurylane and Covent-garden theatres, but especially of the lattcr, was also marked by the exhibition of much refined and accurate taste, in the rectification of scenic decoration, and the adoption of appropriate costume, adding thereby both to the splendor and illusion of the drama. The learning, elegant manners and accomplishments of Mr. Kemble introduced him into the best company, by whom he was at once courted and esteemed. (See Boaden's Life of Kemble.)
Kempelen, Wolfgang, baron von, famous as the inventor of the automaton chess-player, was a native of Presburg in Hungary. He displayed much talent, when young, as a mechanic; and, as early as 1769, he announced the completion of his automaton or androides, which has since attracted so much attention. In 1783, the chessplaying figure was first exhibited at Paris; and it afterwards made its appearance in London, where it surprised and puzzled those who witnessed its performance. Baron Kempelen or his assistant was always present, to direct, by some incomprehensible method, the motions of the machine. It consists of a figure in a Turkish drcss, seated at a table, the top of which is marked as a chess-board. The arm of the automaton, by means of internal machinery, is capable of executing about a dozen motions, which it appears to perform spontaneously, so as to play a game at chess with any visitor. While the movements are taking place, the noise of a fly-wheel is hcard; and, after a certain time, the machinery requires winding up like a clock, before it can again be brought into action. Various conjectures have been advanced as to the means by which the action of this machine is dirceted. The most probable of which is, that a child or small man is concealed in a drawer under the table which supports the chess-board. It is true that the whole cavity beneath the table, as well as the body of the figure, is opencd and exhibited to the spectators previously to the commencement of an exlibition; but as the inside of the automaton and the spacc under the table are not shown at the same
time, an individual within might move from one part to the other, so as to deceive those who witness the performance. It is easy to conceive that, by means of some audible signal, the evolutions of the automaton may be directed. This very ingenious man also constructed a speaking figure, of which he published an account in a curious work, entitled Le Mécanisme de la Parole, suivi de la Description d'une Machine parlante, et enrichi de 27 Planches (Vienne, 1791, 8vo.), also printed in German. He contrived, likewise, a printingpress, for the use of mademoiselle Paradies, a famous blind musician. He also published German poetry; a drama, called Perseus and Andromeda; the Unknown Benefactor, a comedy, \&cc. He died at Vicnna in 1804. The chess-player is now in the possession of Mr. Mälzel, who has himself invented several ingenious automata, whicl, together with the chess-player, have been exhibited for some years past in the U. States.

Kempis, Thomas à. (See Thomas à Kempis.)

Ken, Thomas, a learned and pious dignitary of the English church, was educated at Oxford. About 1679, he went to Holland to officiate as chaplain to the princess of Orange, and afterwards to Tangier, as chaplain to the earl of Dartmouth. In every station which he held, he exhibited a conscientious propriety of conduct and unyielding morality, which procured him the respect of the licentious court of Charles II, and, strange as it may appear, conciliated the favor of that profligate prince ; for, residing at Winchester when the king, attended by his female favorites, visited that city, his house was destined by his majesty's harbinger for the lodging of Nell Gwynn; but doctor Ken, thinking such an inmate unsuitable for a man of his function, positively refused to admit her. When the king was informed of his conduct, he coolly said, "Mrs. Gwynn must find lodgings elsewhere;" and, to the surprise of his courtiers,he took the first opportunity to promote this conscientious supporter of the dignity of his character. Doctor Ken became a chaplain to Charles II, in whose reign he was made bishop of Bath and Wells. He was one of the seven bishops sent to the Tower for resisting the dispensing power claimed by king James, and for petitioning in behalf of their own and the people's rights. After the revolution, bishop Ken refused to take the oath of allegiance to king William, in consequence of which he was deprived of his preferment. Hc
was, however, liighly respected by those of opposite sentiments, and queen Anne bestowed on him a pension. He died in 1711. His works, consisting of sermons, poems, \&c., were publishcd in 4 vols., 8 vo., 1721, with an account of his life.

Kena wha, or Kenhaifa, Great ; a river in Virginia, which has its sources in the western part of North Carolina, flows through the western part of Virginia, in a north-westerly dircction, and joins the Ohio at Point Pleasant, 87 miles below Marietta, and 265 below Pittsburg. It receives Green Brier river in the western part of Monroe county, and, about 40 miles below the junction, it has a remarkablc cataract, falling perpendicularly 50 fect. There arc salt-works on the river, a little above the town of Cliarlestown. The river is navigable most of the year.

Kenawha, Littlee ; a river of Virginia, which runs west into the Olio, 178 miles below Pittsburg.

Kenilworth (called, by corruption, Killing10orth) ; a town in Warwickshire, England; 5 miles N. of Warwick, 6 S . S. W. of Coventry, and 101 N. W. of London. Lon. $1^{\circ} 35^{\prime} \mathrm{W}$.; lat. $52^{\circ} 21^{\prime} \mathrm{N}$. Population, 2279. It consists chiefly of an irregular street nearly a mile in length, and has considerable manufactures of horn combs, and a market on Wednesday. The town is chiefly noted for its magnificent castle, which, along with its extensive chase and park, formed at one time the pride and ornament of this part of the kingdom. It was originally founded by Geoffrey de Clinton, chamberlain and treasurer to Henry I. Most of the buildings, of which remains are yet visible, were erceted by John of Gaunt, father of Henry IV. It continued in the possession of the crown till the time of Elizabeth, who conferred it on Robert Dudley, earl of Leicester. He enlarged and adorned it at the expense of $£ 60,000$, and afterwards entertained the queen here for 17 rlays, in a style of extraordinary magnificence. The area within the walls of the castle contained 7 aeres, and the circuit of the walls, manors, parks and chase, was 19 or 20 miles. The building was greatly injured during the civil wars; and the remains of the castle now present one of the most splendid and picturesque wrecks of castellated strength in England, and impart a melancholy grandeur to the town and neighborhood. The romance of sir Walter Scott has given it additional interest.

Kennebec; the largest river in Mainc, after the Penobscot. It has two principal
branches-the eastern and the western. The former rises from Moosc-head lake ; and the latter, called Dead river, interlocks with the sources of the Chandicre, with which it is commected by a portage of only five miles. The two branches unite about 20 miles below Moose-liead lake, and the river afterwards pursucs a southerly course. It is joined by the Androscoggin 18 miles from the sea. The tide flows up as far as Augusta, and the river is navigable for ships to Bath, 12 miles, for vessels of 150 tons to Hallowell, 40 miles, for sloops to Augusta, 2 iniles farther, and for boats to Watervillc, 18 miles above Augusta. There are a number of handsome and flourishing towns on the river, among which are Bath, Gardiner, Hallowell, Augusta.

Kennicott, doctor, and professor of theology at Oxford, born in 1718, at Totness in Devonshirc, where his father was a poor shocmaker and sexton, has become known by his extensive and valuable collection of readings from about 580 manuscripts, and 12 printed editions of the Hebrew Bible, which he annexed to his edition of the Hebrew tcxt. This work is entitled Vet. Test. Hebr., cum variis Lectionibus (2 vols., fol., Oxford, 1776-80). To the 2d volume is prefixed a Diss. gener. in V. T. Hebr. In this laborious and expensive undertaking, Mr. Kennicott was assisted by a subscription of several thousand pounds, and thus enabled to send several scholars to Spain, Italy, Germany, \&c., to collate manuscripts and editions. The work has many typographical errors. 'The author's plan, too, was defective, and lie was not sufficiently acquainted with the Eastcri languages and the true principles of criticism; but he rendered great service to the causc of science and religion by opening the way in this department of biblical criticism. At the time of his death, he was employed in preparing Remarks on select Passages in the Old Testament, which werc subsequently published, accompanied by eight sermons.

Kensington; a large and populous village of England, in the county of Middlesex, nearly two miles from Hyde-park corner, and cliefly distinguished for its royal palace and gardens. In former times, Kensington palace was a favorite royal residence; and king William III, queen Mary, quecn Anne and George II, died here. Kensington gardens, attached to the palace, are well known, and much frequented as a fashionable promenade in summer. They form a great ormament to the metropolis. These gardens contained
originally 26 acres, and 20 acres were added by queen Anne. Population, 14,428.

Kent, Edward, duke of, fourth son of George III, king of Great Britain, was born Nov. 2,1767. He was educated in England, at Göttingen and Geneva, where he remained until 1790, when he proceedcd in a military capacity to Gibraltar. He subsequently went to America, and, in 1796, becarne lieutenant-general, and returned to England. In 1799, he was created duke of Kent and Strathern and earl of Dublin, and the same year revisited America, but returned again in 1800. In 1802, he was made governor of Gibraltar; but his rigid discipline produced a mutiny, and he was recalled the following year. In 1818, he married the youngest daughter of the duke of Saxe-Coburg, and the widow of the prince of Leiningen. In May, 1819, the duchess bore him a daughter, who was called Alexandrina Victoria, who is now heiress presumptive of the crown. The duke of Kent died Jan. 23, 1820. His widow, with her brother, prince Leopold, the husband of the late priucess Charlote, at present assumes the principal guardianship of the infant princess, who is likely to becoune the future sovereign of Great Britain.
Kent, William, an ingenious artist, was born in Yorkshire, in 1685. He was apprenticed to a coach-painter, but, conscious of superior talent, repaired to London, where he was enabled, by some gentlemen, to repair to Rome, and to study painting under cavalier Luti. In this art, however, he never obtained celebrity: his talent lay chiefly in ornamental architecture, some specimens of which at Holkham, Stowe and other places, are much admired. He is regarded by Horace Walpole as the inventor of modern gardening, which he rendered more natural, graceful and pleasing. He leaped the sunk fence, says the last-mentioned writer, and saw that all nature was a garden. He broke up the old uniformity of straight lines and corresponding parts, and threw wood, water and ground, into the bcautiful shapes presented by nature. The taste of Pope is supposed to have aided that of the artist. He died at Burlingtonhouse in 1748, aged 63 , and was buried at Chiswick.

Kent ; a county of England, bounded north by the Thames, which separates it from Essex, east and south-cast by the English channel, south by Sussex, and west by Surry ; abont 60 miles in length from east to west, and from 30 to 38 from
north to south; square miles, 1460. It is divided into 63 hundreds, which contain 2 cities (Canterbury and Rochester), and 24 inarket-towns. Its aspect is rich, diversified and beautiful ; its climate mild, and its soil generally fertile.

Kentueky ; one of the U. States, bounded north by the river Ohio, which separates it from Ohio, Indiana and Illinois, east by Virginia, south by Virginia and Tennessee, and west by the river Mississippi; lon. $81^{\circ} 50^{\prime}$ to $89^{\circ} 20^{\prime}$ W.; lat. $36^{\circ}$ $30^{\prime}$ to $39^{\circ} 10^{\prime} \mathrm{N} . ; 300$ miles long, and from 40 to 180 broad; square miles, 42,000: population, in 1790, 73,677; in $1800,220,959$; in 1810, 406,511; ị 1820, 564,317; and in 1830, 688,844 ; free white persons, 518,678 ; free colored persons, 4816 ; and slaves, 165,350 . The first permanent settlement in Kentucky was begun by colonel Daniel Boone, in 1775. The country formed a part of the state of Virginia until 1790: in 1792, it was admitted into the union as an independent state. Frankfort is the seat of govermment. Lexington and Louisville are the largest towns. There is a penitentiary at Fraukfort, in which are confined over 100 convicts. At Lexington, there is a lunatic asylum; at Danville, an asylum for the deaf and dumb; and at Louisville and Smithland on the Ohio, hospitals for sick and disabled boatmen. The most prominent literary institution is Transylvania university, at Lexington, which has about 150 students, besides the students of the law and medical schools, and of the preparatory department. There is a Roinan Catholic college at Bairdstown, called St. Joseph's college; Centre college, at Danville, established by Preshyterians; and a college at Augusta, established by Methodists. There is also a Baptist college at Georgetown, and a Presbyterian college, called Cumberland college, at Princeton. The legislature has several times taken steps for establishing a system of common schools, but nothing effectual has been accomplished. There are two banks in the state, called the bank of Kentucky, and the bank of the commonwealth. There are also branches of the United States bank at Lexington and Louisville. The legislature is conposed of a senate, consisting of 38 inembers, chosen by districts, for four years, and a house of representatives, not exceeding 100, chosen annually. The governor and lieutenantgovernor are chosen by the people for four years, but are not eligible for the sueceeding seven years. The legislature meets ou the first Monday in November. The princi-
pal rivers of Kentucky are the Ohio, which flows along the state 637 miles, following its windings; the Mississippi, Tennessee, Cumberland, Kentueky, Green, Licking, Big Sandy, Salt and Rolling. The Cumberland mountains form the southeast boundary of this state. The eastern counties, bordering on Virginia, are mountainous and broken. A traet from 5 to 20 miles wide, along the banks of the Ohio, is hilly and brokeu land, interspersed with many fertile valleys. Between this strip, Green river, and the eastern counties, lies what has been called the garden of the state. This is the most populous part, and is about 150 miles long, and from 50 to 100 wide. The soil is excellent, and the surface is agreeably diversified, gently rising and descending. These lands produce black-walnut, black-cherry, honeylocust, buekeye, pawpaw, sugar-maple, mulberry, elm, ash, cottonwood, whitethorn, with an abundance of grape-vines. There is a tract of country in the southwestern part of the state, east and north of Cumberland river, and watered by Green and Barren rivers, about 100 miles in extent, called the barrens, which, a few years since, was a beautiful prairie, destitute of timber. It is now covered with a young growth of varions kinds of trees. These, lowever, do not prevent the growth of grass, and an alnost endless variety of plants, which are in bloom during the whole of the spring and summer, when the whole region is a wilderness of the most beautiful flowers. The soil is of an exeellent quality, being a mixture of elay, loam and sand. Through this country there runs a chain of conieal hills, called knobs. It is also distinguished for some stupendous eaves. Ancient fortifications and mounds of earth are found in almost all parts of Kentucky. The caves in the south-western part of the state are great curiosities. One, styled Mammoth cave, 130 miles from Lexington, on the road leading to Nashville, is said to be 8 or 10 miles in length, with a great number of avenues and windings. Earth strongly impregnated with nitre is found in most of these caves, and there are many establishments for manufacturing it. From 100 pounds of earth, 50 pounds of nitre have frequently been obtained. A number of the rivers in this state have excavated the earth, so as to form abrupt precipices, deep glens, and frightful gulfs. The precipices formed by Kentucky river are, in many places, awfully sublime, presenting perpendicular banks of 300 feet, of solid limestone, surmounted with a steep
and difficult ascent, four times as high The banks of Cumberland river are less precipitous, but equally depressed below the surface of the surrounding country. -Wheat, tobaceo and hemp are the staple produetions. Indian corn is, however, the prineipal grain raised for home consumption. Rye, oats, barley, buckwheat, flax, potatoes, \&e., are eultivaterl. Apples, pears, peaehes, cherries and plums are the most common fruits. The domestic animals are large and beautiful, particularly the horse. Great numbers of swine, horned eattle, horses and mules are annually driven to the neighboring states for a market, and large quantities of pork, bacon and lard are exported. The fattening of animals is the chief mode of consuming the surplus grain, on account of the expense of conveying it to market. Considcrable quantities of whiskey are made. Marble, of excellent quality, abounds, and the whole state may be suid to repose on a bed of linestone. Salt and iron are among the ininerals of this state. The most extensive works for the manufacture of salt established west of the Alleghany mountains, are on the waters of Kentucky. These supply not only this state, but a great part of Ohio and Teunessee. Kentucky, from its position, has become a manufacturing state. (See United States.)

Kentucky; a river in Kentucky, which rises in the soutl-east part of the state, and runs north-west into the Olio, 77 miles above the rapids at Louisville. It is navigable, in the winter, for sunall boats, about 180 miles. The current is rapid, and the banks are high and rocky.

Kepler, John, a great mathematician and astronomer, to whom astronomy is indebted for muel of its present perfection, was born in 1571, at Weil, in Wûrtemberg, and was deseended from a noble family. Poverty, and the vieissitudes of lis father's fortune (who was an inn-keeper), were the causes of the neglect of his education, and of the unlappiness of his youthful days. But, in his 18th year, after the death of his father, he left the monastic school of Maulbrunn, and sueceeded in entering the university of Tübingen. Here he studied the course then prescrib-ed-first philosoplyy and mathematies, and then theology. At the same time, he indulged his inelination for astronomy, and devoted himself especially to the investigation of the physical causes of the motion of the celestial bodies. From Tübingen, he was invited, in 1593, to become professor of mathematics and morals at Grastz, in Stiria, where he pursued his
astronomical studies. For the sake of freedom of conscience, he fled to Hungary, but returned some time after. Meanwhile the astronomer Tycho de Brahe had come to Germany, his acquaintance with whom had au important influence on Kepler's life. He resolved to relinquish his situation, and to prepare, at Prague, with Tycho, the famous Rodolphine tables, called after the reigning emperor Rodolph, which were first printed at Ulm, in 1626, and which Lalande (Ast. i, p. 474) calls an Ouvrage essentiel, et qui fut le fondement de tous les calculs de l'astronomie pendant un siecle. At Tycho's recommendation, he was established in that place; but, as his office and science did not afford lim a subsistence, he studied medicine, in order to gain a livelihood by the practice of it. The emperor had assigned him a salary, but, in the period of trouble which preceded the thirty years' war, it was not paid. Even when he was appointed imperial mathematician, by Rodolpl's successor, Matthias, his hope of recovering his arrears was disappointed. Controversies with the clergy, and the disturbed state of the Austrian dominions, made his situation very uncomfortable. He left Lintz, repaired to Ratisbon, declined an invitation to England, and was confirmed by the succeeding emperor, Ferdinand, in the office of imperial mathematician, and afterwards went to Ulm, in order to print his Rodolphine tables. In 1627, he returned to Prague, and received from the emperor 6000 guilders. He finally becaune a professor at Rostock, on the recommendation of Albert, duke of Walleustein, at that time duke of Mecklenberg, but did not receive the pronised compensation. He therefore went to Ratishon, where he died, in 1630. Kepler was small of stature, thin, and of a weak constitution, and short-sighted. His manners were frequently gay and sportive. He was attached to his science with the deepest love: he souglit after truth with eagerness, but forgot, in the search, the maxims of worldly prudence; and there was a certain love of mystery about him, which too often manifested itself in idle astrological visions. He had but a small share of what are commonly esteemed the pleasures of life, but lie endured all calamities with firmuess. "Kepler," says Lalande, "is as famous in astronomy, for the sagacious application which he made of Tycho's numerous observations (he was not himself an observer), as the Danish astronomer for the collection of such vast materials." The laws of the courses of the
planets, deduced by Kepler from those observations, are known in astronomy under the name of the three lavos of Kepler (regula Kepleri), and on them were founded Newton's subsequent discoveries, as well as the whole modern theory of the planets. The first of these laws is, that the planets do not move, as Copernicus had imagined, in circles, but in ellipses, of which the sun is in one of the foci. For this, Kepler was indebted to the observations which Tycloo had made on the planet Mars, whose eccentricity is considerable, and agrees particularly with this rule, in determining which, Kepler went through an indescribably laborious analysis. (See the astronomical works of Lalande, Schubert, and others.) The second law is, that an imaginary straight line from the sun to the planets (the radius vector) always describes equal sectors in equal times. By this rule, Kepler calculated his tables, imagining the whole plane of revolution divided into a number of such sectors, and, from this, investigated their respective angles at the sun. This was called Kepler's problem. The third law teacles that, in the motion of the planets, the squares of the times of revolution are as the cubes of the mean distances from the sun; one instance of the application of which law, in the want of other means, is in the determination of the distance of the planet Herschel from the sun, it having beell ascertained, that its time of revolution amounts to little more than 82 years. Kepler's services in the cause of astronomy have placed him high among the most distinguished men of science on record. In Ratisbon, a monument was erected to his memory in 1808, by Charles Theodore von Dalberg. It consists of a Doric temple, in which is placed the bust of Kepler. The inost important of his works is his $\mathcal{A}$ stronomia nova, seu Physica Celestis tradita Commentariis de Motibus Stelle . Martis (Prague, 1609, folio)-a work which secures immortality to the author, and is still regarded as classical by astronomers. An account of Kepler's life is prefixed to his Letters (printed at Leipsic, in 1718, in folio). We annex the epitaph which he composed for himself:
Mensus eram coelos, nunc terrue metior umbras: Mens ceelestis erat, corporis umbra jacet.
(See the article Harmony of the Spheres.)
Kepper, Augustus, an English admiral, the second son of William earl of Albemarle, entered the sea service at an carly age, aud accompanied admiral Anson round the world. In 1778, he was appointed to the command of the Channel
fleet. July 12, in that year, he fell in with the French fleet, under count D'Orvilliers, off Ushant, when a short but warn engagement ensued. A short delay becoming necessary to repair damages, when that labor was accomplished, the admiral made sigual for his van and rear divisions to assume their proper stations. Sir Hugh Palliser, commanding the rear, took no notice of the signal, and refused to join his commander, until night prevented a renewal of the battle. The conduct of the rear-admiral being fiercely attacked, and Keppel refusing a disavowal of the charges brought against him, Palliser immediately exhibited articles of accusation against him. Keppel was honorably acquitted, and received the thanks of both houses of parliament for his services. Palliser was next tried, and reprimanded; but the public indignation was so great, that he was obliged to resign his seat in the house of commons, and to vacate several offices which he held under government. In 1782, admiral Keppel was raised to a peerage, under the title of viscount Keppel, baron Elden, and was, at two different periods, appointed first lord of the admiralty. He died in October, 1786, unmarried. He was regarded as very able in his profession, and a man of great iniegrity and humanity.

Keratry, August Hilarion, member of the French chamber of deputies, celebrated, as a writer and orator, for his spirit and liberality, was born at Rennes, 1769, of a noble family, studied at Quimper, and afterwards in his native city, where he became acquainted with general Moreau, at that time (1787-88) an instructer in the law school in that city. During the session of the constituent assembly (1789), Kératry, who had inherited a patrimonial estate in the department of Finisterre, presented a petition in favor of the equal division of estates in noble families, and the abolition of the privileges of primogeniture. During his residence in the capital, lie became connected with many distinguished literary men. He was arrested, on his return home, by the terrorist Carrier, but was liberated at the request of the commune. From this time, he devoted himself to the sciences, and held many municipal offices. In 1818, he was closen deputy of the department of Finisterre by a unanimous vote. Here he defended the fundamental principles of the revolution, although its excesses had never received his approbation. All cfforts to undermine the foundations of the furdamental laws, found in him a firm
and bold opponent. It was in this spirit that he wrote his Documens historiques; La France telle qu'on la faite, and Sur la Loi des Municipalités. This last work, which was written (1821) in connexion with Lanjuinais, was directed against a proposition, which threatened to cut off one of the best guarantees of the rights of the people, by a limitation of the municipal privileges. As an orator in the chamber of deputies, he belonged to the moderate liberal party. Among his writings, which are political, poetical and philosophical, are his idyls and tales (after the mauner of Gesner); his Inductions morales et philosophiques; his Voyage de 24 Heures; his Habit mordoré (a description of manners, in the spirit of Sterne); his excellent Traité de l'Existence de Dieu; his commentary on Kant's observations on the sublime; his work Sur le Beau dans les Arts de l'Imitation (Paris, 1822, 2 volumes). His works prove him to be a man of a cultivated mind, and a close thinker. His Les demiers des Beaumanoirs, ou la Tour d'Helvin, is a true picture of the manners and character of the "good old times" in France.
Kerguelen Tremarec, Ives Joseph de; an eminent French navigator, borm at Brest, about 1745. He entered young into the navy, and obtained the rank of lieutenant in 1767. After being cmployed on an expedition to the coast of Iceland, to protect the whale fishery, he was sent, by his government, on a voyage of discovery, to the South sea. On lis return, he gave a flattering account of a supposed continent towards the south pole, some points of which he had visited. He was sent, in 1773, to make farther discoveries; but the result of his researches only served to show the little value of the country he discovered; and he was arrested and confined in the castle of Saumur, after his return to France, on the charge of having ill-treated one of his officers. In his prison, he wrote several memoirs relative to maritime affairs; and, having at length obtained his liberation, he again engaged in the sea service. He died in 1797. Kerguelen published accounts of his voyage to Iceland, and likewise of his southern expeditions. His name is preserved in the appellation of an island in the southern hemisphere-Kerguelen's Land, or the Isle of Desolation.
Kerke, or Kerque (the Flemish corruption of the German Kirche, the Scottish kirk); a church. It occurs in proper names; for instance, Steenkerque, Dunkerque, \&c.

Kermes, in zoölogy. (See Coccus.) Kermes Mineral. (See Antimony.) Kertsch, or Kerch; a fortress on a peninsula of the same name, in Eastern Taurida, on the bay of Taman, with a safe harbor, important for the cominerce of the Black sea and the sea of Azoph, and which Alexander ordered to be opened in 1822. Kertsch and Jenikale, not far distant from it, have a common municipal administration, and contain together 4000 iwhabitants, mostly emigrant Greeks. The environs are very fertile, and produce the caper tree without cultivation. The best wine of the Crimea is also made there. Horses, Angora and Astraelian goats, black and Astrachan sheep, are raised. Considerable quantities of salt are manufactured. This new place enjoys equal privileges with Taganrock and Feodosia. (Sec Caffo.) In the neighborhood are the ruins of Panticapæum, where Mithridates the Great died, and Nymphæum. Even to this day, the lighest hill near Kerch is called the Chair of Mithridates, and the whole peninsula Taman, where the opulent eities of Cimmeria and Phanagoria formerly flourished, contains a treasure of antiquities for future investigators.

Kesselsdorf ; a village about five miles distant from Dresden, celebrated for the battle fought there Dec. 15, 1745, in which the Prussians, commanded by prince Leopold of Dessau, defeated the Saxons. (See Frederic II.) Near the village are cousiderable coal mines.

Kerch ; a vessel equipped with two masts, viz. the main-mast and the mizzenmast, and usually from 100 to 250 tons burden. Ketches are principally used as yachts for conveying princes of the blood, ambassadors, or other great personages, from one place to another. Ketches are likewise used as bomb-vessels, and are therefore furnished with all the apparatus necessary for a vigorous bombardment.-Bomb-ketches are built remarkably strong, as being fitted with a greater number of riders than any other vessel of war; and, indeed, this reinforcement is absolutely necessary to sustain the violent shock produced by the discharge of their mortars, which would otherwise, in a very short time, shatter them to pieces.

Ketchup, or Catsup, Mr. Todd defines as " a kind of Indian pickles imitated by pickled mushrooms." Doctor Kitchiner, in his Apicius redivivus, devotes 10 pages to different varieties of receipts for this sauce. There we may become acquainted with the composition and virtues of numerous catsups, whether they be
walnut, mushroom, quintessence of mushroom, quintessence of oysters, cockle, muscle, tomato, white cucumber or pudding. "Mushroom gravy," says the doetor, " approaches the flavor of meat gravy more than any other vegetable juice, and is the best substitute for it in meagre soups and extempore gravies." Again, "What is commonly called catsup is generally an injudicious composition of so many different tastes, that the flavor of the mushroom is overpowered by a farrago of garlic, shallot, anchovy, mustard, horseradish, lemon-peel, beer, wine and spices. Readymade catsup is little better than a decoction of spice, and salt and water, with the grosser part of the mushrooms beatell up into a pulp."

Kew is situated on the Thames, about seven miles from London, and one and a half mile from Richmond. Kew palace was improved by Kent, and contains some pictures; but the gardens are the principal object of attraction. They are not very large, nor is their situation advantageous, as it is low, and commands no prospects; but they contain the finest collection of plants in the world, and are decorated with various ornamental buildings, most of which were erected by sir W. Chambers, about 1760 . The first building which appears is the orangery, or green-house, 145 feet long. Near it, in a grove, is the temple of the sun, of the Corinthian order. There is also a physic garden, and, contiguous to it, the flower garden, of which the principal entrance forms one end. The two sides are enclosed with high trees, and the other end is occupied by an aviary of vast depth. From the flower garden, a short winding walk leads to the menagerie, the centre of which is occupied by a large basin of water, stocked with curious water-fowl, and enclosed by a range of cages for exotic birds. The gardens also contain the temple of Bellona, the temple of the god Pan, the temple of Eolus, the temple of Solitude, the house of Confucius, a Chinese octagon, painted with historical subjects relating to Confucius, and the Christian missions in China, near which is the engine that supplies the lake and basins in the garden with water, contrived by Mr. Smeaton (two horses raise upwards of 3600 hogsheads of water in 12 hours), the temple of victory, the great pagoda, (designed as an imitation of the Chinese Taa.) The base is a regular octagon, 49 feet in diameter; and the superstructure is likewise a regular octagon, of 10 stories, measuring, from the base to the top of the
fleuron, 163 feet. The walls are composed of very hard bricks; the outside of graystocke, laid with such care, that there is not the least crack or fracture in the whole structure, notwithstanding its great hcight. The staircase is in the centre of the building, and from the top is a very extensive view, in some directions upwards of 40 iniles, over a rich and variegated country. There are also the mosque, besides a Gothic building, representing a cathedral, and the gallery of antiques, the temple of Arethusa, and a bridge from one of Palladio's designs. The ruin, which forms a passage for carriages over one of the principal walks, is built in imitation of a Roman antiquity. These gardens are opened every Sunday, froin midsummer to the end of autumn.
Key, or Key Note, in music ; a certain fundamental note or tone, to which the whole of a movement has a certain relation or bearing, to which all its modulations are referred and accommodated, and in which it both begins and ends. There are but two species of keys; one of the major, and one of the minor mode, all the keys in which we employ sharps or flats, being deduced from the natural keys of C major and A minor, of which they are mere transpositions.

Keys of an organ ; movable projecting levers in the front of an organ, so placed as to conveniently receive the fingers of the performer, and which, by a connected movement with the valves or pallets, admit or exclude the wind from the pipes. (See Organ.)

Keys, are also certain sunken rocks lying near the surface of the water, particularly in the West Indies, from the Spanish cayo (an islet, rock).

Key-Stone of an arch or vault; that placed at the top or vertex of an arch, to bind the two sweeps together. This, in the Tuscan and Doric orders, is only a plain stone, projecting a little ; in the Ionic, it is cut and waved somewhat like consoles; and in the Corinthian and Composite orders, it is a console, enriched with sculpture.

Kex West; a small island, sometimes called Thompson's island, belonging to the U. States, situated within the reef extending from the Tortugas islands to cape Florida, in lat. $24^{\circ} 25^{\prime} \mathrm{N} . ; 60$ miles from cape Sable, the nearest main land of Florida, and 70 miles from the northern shore of Cuba. It is 10 miles long, and has an area of about 2000 acres. It has a good soil, which has been yet but little cultivated, and the climate has in general proved
extremely healthy. It has, however, in certain seasons, been subject to desolating fevers, which have been attributed to accidental causes. The first settlement upon it was made about the year 1820 , after the cession of Florida to the U. States. It has now about 100 buildings, some of which are large and commodious, and 300 inhabitants. It has a good harbor, easy of access, and of sufficient water for vessels of the largest size. It is advantageously sitnated for commerce, and it is already the seat of a considerable trade with the island of Cuba. The commerce between the Atlantic coast and the islands of Cuba and Jamaica, and the ports on the gulf of Mexico, all passes near the island. It is a military post of the $\mathbf{U}$. States, and is frequently visited by the ships of war on the West India station. It is the seat of the territorial court of the southern district of Florida, which has frequent jurisdiction of cases of wreckers. It has a marshal and attorney of the U. States, and a collector of the customs. The name Key West is said to be derived from cayo hueso (bone islet), a name given to this island by the Spaniards, on account of its shape.
Khalif. (See Caliph.)
Khan ; the Turkish name for caravansary. (q. v.) We will only add, to what was said under that article, that the caravansaries in towns are of two kinds, those for travellers and pilgrims, where a lodging is furnished gratis, and those -for traders, which are usually handsomer and more convenient, and have doors to the apartments, which are well secured, but a small charge is made for each chamber, usually not more than a half-penny or a penny per day. There is also a droit of entry, which is more considerable, and a duty on whatever is sold in the caravansary. These establishments belong either to government, or to private individuals, and each is appropriated to some particular country, or to the dealers in some particular kind of merchandise.

Khan is also the name of an officer in Persia, answering to governor in Europe. There are khans of countries, provinces and cities, who have different additions to distinguish them. In the north of Asia, this title expresses the full regal dignity.

Кнон; a Persian word for bald. It has been suggested that the name Caucasus may be from khoh kasp (bald mountain), having the summit without vegetation. This metaphor is very frequent in geographical names. Chaumont, in France, Kahlenberg, in Germany, signify the same.

Klachita; a town of Siberia, in the government of Irkoutsk (q. v.), on the river Kiachta, which forms the boundary between China and Russia, situated in a barren country, destitute of water and wood. Population, 4000 , in 450 liouses. Kiachta and the Chinese town of Maimatchin, situated opposite, on the other bank of the river, are the medium of the Russian over-land trade with China, as settled by the treaty of 1727 . The duty on the trade yields an annual income of $7,000,000$ roubles to Russia. The whole amount of import and export is estimated at about $30,000,000$ of roubles annually. $3,000,000$ pounds of tea are imported. Kiachta is 1532 versts from Pekin, and 6512 from St. Petersburg. A commercial outfit and return, between Kiachta and St. Petersburg, requires generally two years. The Chinese government often interrupts the commerce, when it thinks it has any cause of complaint against Russia. China lays a duty of five per cent. on all exports and imports.

Kiang; a Chinese word signifying river; e. g. Kiang-yuen (country of rivers). Kiangeu. (Sce Yangtse.)
Kidderminster; a market town of England, on the Saffordshire and Worcestershire canal, which was finished in 1774, and passes within 100 yairds of the marketplace. Kidderminster has long been noted for its manufactures. That of broadcloth prevailed in the reign of Henry VIII. But the carpet manuficture is that which has taken the firmest root herc, las flourished best, and promoted most essentially the trade, wealth, and population of the town. Population, 10,709.

Kidnapping is the forcible and wrongful seizing upon any person, with intent to carry him away out of the country or jurisdiction within which he is seized, or to confine him, or sell him into slavery. This is a licinous offence, and was punished by fine, imprisonment and pillory, by the common law. The statute of 11 and 12 William III, c. 7, provides a punisliment by inprisonment for three months, in case the captaiu of a merchant vessel shall, while abroad, force any person on shore, and wilfully leave him behind, or shall refuse to bring home any one whom he may have carried out, when the person shall be able and desirons to return. The laws of the $U$. States, also, provide that the captains of vcssels shall not, unnecessarily and purposely, against the will of any sailors, leave them on shore in a foreign port. But this is not equivalent to kidnapping or
manstealing, which is applied to the forcibly seizing upon persons, with intent io sell them into slavery. This crime is punishable by the laws of every one of the U. States, though it is not made the subject of so specific provisions in all of them, as its enormity, and the temptations to committing it, in many of the states, would scen to require. It is the subject of a specific provision, in the revised code of New York (Part IV, c. 1, a. 2, 5, 28), whereby it is provided, that every person who shall, without lawful authority, forcibly seize and confine any other, or shall inveigle or kidnap any other, with intent to cause such person to be sccretly confined or imprisoned in the state, against his will, or sent out of the state, against his will, or to cause such person to be sold as a slave, or in any way held to service against his will, shall, upon conviction, be punished by imprisonment not excceding ten years.
Kidney ; one of the abdominal viscera, consisting of two voluminous glands, the office of which is to secrete the urine from the blood. One of these glands lies on the right, and the other on the left, of the vertebral column (or back bone). They are both contained in a fatty, cellular substance (suet), and are situated behind the peritonceum, and beforc the diaphragm and the quadratus lumborum. They are penetrated with blood-vessels and nerves, are of a reddish color, and more consistent than the other glands. An external cellular mennbrane, and an internal fibrous membrane, envelope each kidney, which is divided into the cortical substance and the tubulous substance. The former constitutes the exterior part of the kidney, aud extends between the concs formed by the latter. It secretes the urine, that is, scparates its elements from the blood, and combines them, while the latter pours it into the pelvis, a meinbranous bag situated at the iniddle of the kidney, from which it is conveyed by the ureter, a membranous tube, into the bladder. From the bladder, the urine is evacuated by the urethra, a membranous canal passing through the penis. The kidneys are not mere filters or sieves, as was anciently supposed, and as some modern physiologists have maintained; they are true glands, that is, a vascular nervous apparatus, having a particular action for the production of a peculiar fluid. The kidneys are sulject to an inflammation, called nephritis, and to a nervous pain, called nephralgia. The kidney sometimes contains stones, gravel or sand in the pelvis,
and also in the cortical and tubulous substances (see calculus), which occasion the most excruciating pain. Diseases of the kidncys are generally occasioned by excess in eating and drinking, particularly in subjects addicted to vencry, or accustomed to violent riding, or inuch walking. Temperance, vegetable diet, warm batliing, abstaining from equitation, \&ic., are preventives.
Kidney Beans. (See French Beans.)
Kiel; a city and finc harbor on a bay of the Baltic, in the Danish duchy of Holstcin, until 1773 the chief place of the Gottorp (or Imperial Russian) part of Holstein. It contains 7000 inhabitants, and 800 houses. Lat. $54^{\circ} 19^{\prime} 43^{\prime \prime} \mathrm{N}$.; lon. $10^{\circ} 18^{\prime} 20^{\prime \prime} \mathbf{E}$. Its university was established in 1665, by Christian Albert, duke of Holstein; hence its name, Christiana Albertina. It has, at present, over 250 students, a library of 100,000 volumes, at observatory, and a museum of natural history. There are, also, a seminary for teachers, and other excellent institutions. The cuvirons of Kiel arc picturesque. The inhabitants are engaged in commercc. The peace of Kiel, between Denmark and Sweden, and between Denmark and Great Britain, Jan. 14, 1814, was connected with the treaties of Hanover, Feb. 8, 1814, between Denmark and Russia, and that of Berlin, Aug. 25, 1814, between Denmark and Prussia. Denmark ceded Norway to Sweden, and received in return Swedish Pomerania, with the promise of 600,000 Swedish dollars. Great Britain gave back all the Danish colonics, but retained the flcet and Heligoland. Denmark contracted to send 10,000 men against Napoleon, for which England paid $\{33,333$ per inonth subsidies. Prussia ceded Saxc-Lauenburg to Denmark, and undcrtook to pay the 600,000 Swedish dollars already promised by Sweden, and 2,000,000 more of Prussian dollars, at certain pcriods, besides $3,500,000$ of Prussian dollars to Sweden; in return for which she received Swedish Pomerania with Rugen. (See Schőll's Hist. des Traités de Paix, x, 219, seq.; xiv, 215 , seq. ; and xi, 144 , seq.)

Kien-Long, emperor of China, distinguished for his love of literature, was born in 1710, and succeeded his father, Yuntschin, in 1735. He favored the Christian religion in private, but, in 1753 , interdicted its exercise by a formal order; and he had previously even persecuted those who openly professed it. The missionaries were, in consequence, obliged to proceed with great caution, although sevcral of them were in the emperor's servicc, and
treated witl great respect as inch of science and learning. On the suppression of the Jesuits, in 1774, China was less visited by scientific persons than formerly, which induced Kien-Long to send to Canton, and invite artists and learned men of all the European nations, and particularly astronomers. This sovereign possessed, on his own part, a taste for poetry and natural listory. Resolving to inmortalize the remembrance of his victorics by the graver, he engaged French artists to copy some Chinese paintings, in which they were represcuted; but Louis XV had thein cngraved for him at his own expense. The larger Clinesc collection on agriculture contains several pocins of this monarch on rural occupations and incidents; and lic established a library of 600,000 volumes, containing copies of all the most interestiug works in Clima. Into this collection he adinittcd tliree books, written by tho Jesuits, on the Cliristian religion. A description of the Chinese empire, which appeared in Busching's Magazinc, was also compiled by his order. He died at Pekin, in 1786, after a reign of 50 years.

Kılda, St. Under this general name is comprised a group of islands belonging to the Hebrides. The principal island gives its name to the rest, and is about threc miles long, from cast to west, and two broad, from north to south, and about nine miles and a half in circumference. The islands, altogether, are supposed to be capable of pasturing 2000 sheep; but the quantity maintained scarcely amounts to onc third of this. St. Kilda is about 140 miles from the nearest point of the mainland of Scotland. Population, 1692.

Killigrew. Three brothers of this name, distinguishcd by their loyalty, wit and talents, flourished under the two Charleses. They were the sons of sir Robert Killigrew.-William, the eldest, was born in 1605, at Hanworth, Middlesex, and, after going through the usual course of a university education at St. John's collcge, Oxford, madc the tour of Europc. On his return to England, he obtained a place at court, as one of the gentlemen nshers of the privy chamber to Charles I. During the civil wars, he suffered materially, both in purse and person, in consequence of his adherence to the royal cause; in recompense for which he received, after the restoration, the honor of knighthood, and, on the marriage of Charles II, obtained the post of vicechamberlain. IIc composed four playsSelindra, the Siege of Urban, Ormasdes, and Pandora (Oxford, folio, 1666), popu-
lar in their day．His other writings are， Midnight and Daily Thoughts，and the Artless Midnight Thoughts of a Gentle－ man at Court（8vo．）．He died in 1693．－ Thomas，the second，was born in 1611， and died before his elder brother，in 1682. He was onc of Charles I＇s pagee，aud accompanied the prince of Wales into exile．During his absence from England， he visited France，Italy and Spain，and， after the restoration，was appointed by the new king（with whom he was a great favorite），one of his grooms of the bed－ chanbler．A vein of lively pleasantry， combined with a certain oddity，both of person and manner，placed him high in the good graces of Charles，who would frequently allow him free access to his person，when characters of the first digni－ ty in the state were refused it，till Killi－ grew，at length，became alnost the insep－ arable companion of his monarch＇s famil－ iar hours．He wrote cleven pieces for the stage，whicl have been collected and printed in one volume folio（ 1664 ）；but we look in vain in them for traces of that facetiousness and whim，which，together with the encouragement he received from royalty，procured him the appellation of king Charles＇s jester．He lies buried in Westminster abbey．－Henry，the youngest of the threc，was one year younger than his brother＇Thomas，whom he survived about six years．He was educated for the church at Clrist－church，Oxford，and acted as chaplain to the cavaliers．In 1642，he graduated as doctor in divinity，and ob－ tainerl a stall at Westminster．On the re－ establishment of monarchy，he obtained the living of Wheathamstead，Hcrts，and the mastership of the Savoy．He wrote a tragedy when only 17 years old，çalled thic Conspiracy．In 165̃2，he published a cor－ rected version of this piece，changing the name to that of Pallantus and Eudora．－ The females of this family were also dis－ tinguished．－Dame Catharine Killigrew， wife of sir Henry，was celclurated as one of the most accomplished scholars of lier day．She was the daughter of sir An－ thony Cooke，born about the year 1530， and，to a faniliar acquaintance with the classical，as well as some of the Oriental languages，united considerable poetic tal－ ent．Her death took place in 1600．－ Anne Killigrew，daugliter of the divine already mentioned，was born in 1660. She gave strong indications of genius at an early age，and became equally emi－ nent in poetry and painting，as well as distinguished for her piety and unblein－ ished virtue anidst the seductions of a
vol．vil．
licentions court．She fell a victim to the small－pox，in the summer of 1685，and has becn characterized by Wood as ＂a grace for beauty，and a muse for wit，＂ and celebrated by the greatest of her lite－ rary contemporaries，John Dryden．
Kıng（Old Frankish，chïnig，chunig， kuning ；Anglo－Saxon，cyning，cynig， cyng；German，könig；Danislı，konge； Swedish，konung；Finlandish，kuningas） is a word of uncertain derivation．The title of majesty belongs exclusively to kings and cinperors；other privileges， likewise，principally of a ceremonial kind， are connected with the regal title，included in diplomacy under the name of royal honors（honneurs royaux，honores regii）． These honors，however，are sometimes en－ joyed by states，where the princes do not bear the royal title；thus the late republics of Venice and of the United Netherlands （and now that of Sivitzerland），the electors （as the elector of Hesse），the grand－dukes， posscssed them，at least in part．Previ－ ous to the Frencli revolution，the follow－ ing comntries gave their princes the regal title：Germany，France，Spain，Portıgal， Naples and Sicily（or the Two Sicilies）， Sardinia，Prussia，Bohemia，IIungary， Galicia and Lodomiria，Poland，England， Ireland，Scotland，Sweden，Deumark and Norway．After the French revolution loroke out，France was struck out from the list of kingdoms，and，soon after，Poland； and，on the other liand，while Napoleon stood at the head of France，new king－ doms arose，though some of them enjoyed only an cphemeral cxistence．Thus the kingdom of Ilctruria was formed from the ancient grand－duchy of Tuscany，and a new kingdom of Naples sprung into being， while the old fanily in the Sicilies still retained the royal dignity（not acknowl－ edged，indeed，by Napoleon）．Thus there was a kingdon of Italy，a kingdom of Holland，and，at the beginning of 1806 ， the kingdoms of Bavaria and Würtem－ berg，which were followed，in 1807，by the kingdoms of Saxony and Westphalia． The son of Napolcon was called king of Rome，in imitation of the custom which prevailed in the German empire，where the person elected，during the life of the emperor，to succeed at his death，was styled king of the Romans．The existence of Hetruria and Holland as kingdoms， however，was soon terminated by France itself；and of Westphalia by the enfran－ chisement of Germany from the dominion of the French．After the fall of Napoleon， the kingdoms of the Netherlands and of Hanover were established．In place of the
kingdom of Italy, arose the LombardoVenetian kingdom, under the sovereignty of Austria.-In early times, the chief of an independent state was called king; at a later period, the pope and emperor, as spiritual and secular heads of Christendom, pretended to have the right to make kings, until Frederie III, eleetor of Brandenburg and duke of Prussia, deelared himself king of Prussia. Like other subjects of conmon interest in European politics, the general acknowledgment of the royal title, in any partieular instance, is dependent, to a considerable degree, on the will of the most powerful governments. The following monarchs have the titles enumerated below, in addition to those by which they are usually known. The emperor of Austria is titular king of Jerusalem, actual king of IIungary, Bohemia, the Lombardo-Venetian dominions, Dalmatia, Croatia, Selavonia, Galicia and Lodomiria ; the emperor of Russia has the title of king of Moseow, Kasan, Astracan, Poland, Siberia and the Taurian Cliersonesus; the king of Portugal-calls limself, also, king of Algarve; the king of Spain, king of Castile, Leon, Arragon, the Two Sicilies, Jerusalem, Navarre, Granada, Toledo, Valencia, Galicia, Majorea, Seville, Sardinia, Cordova, Corsica, Murcia, Jaen, Algarve, Algeziras, Gibraltar, the Canary Islands, the East and West Indics, of the Islands and Tcrra Firma beyond the sea; the former kings of France called themselves, also, kings of Navarre ; at present, like Louis XVI in the time of the revolution, they have the title king of the French; the king of the Two Sicilies calls himself, also, king of Jerusalem; the king of Great Britain (i. e. England and Scotland) is also king of Ireland, and the Brunswiek house are kings of Hanover; the king of Dcnmark calls himself, also, king of the Goths and Vandals, as docs, also, the king of Sweden and Norway. Where we have used the plirase "is king," we mean that the countries from which the title is derived are actually existing, distinct states, under one head, as Bohemia and Hungary, which have nothing in common, exeept their nonareh. The same is the case with Sweden and Norway. Many of the titles are empty, antiquated designations, retained from a eliildish love of pomp. Down to the union of England and Ireland, the kings of England bore the title of kings of France. For information respecting the prerogatives and limitations of the king of England, sce Great Britain, division English Constitution.)

King, William; a learned Irish prelate, who was a native of Antrim, but of Scottish extraction. His zealous opposition to the measures of the Roman Catholic party, in the reign of James II, ensured his preferment after the expulsion of that prinee. After holding sevcral inferior offiecs, he was made, in 1702, archbishop, of Dublin. ILe died May 8, 1729, aged 79. IIe was distinguished for his wit as well as his lcarning. Having been disappointed in lis expeetations of being raised to the primacy of Ireland on the death of archbishop Lindsey, it being assigned as a reason for passing him over, that he was too far advanced in years, he received doctor Boulter, the new primate, at his first visit, without paying him the customary eompliment of rising to salute him, apologizing for the apparent ineivility by saying, "My lord, I am sure your graee will forgive me, because you know I am too old to rise." Arehbishop King is prineipally known at present as the author of a treatise De Origine Mali, the object of which is to show that the presence of natural and moral cvil in the world is not incousistent with the power and goodness of the Supreme Being. This work provoked the animadversions of the celebrated Bayle, as it impugned his arguments on the Manichean systen. Soine remarks on it were likewise published by Leibnitz, whose objections, as well as those of other opponents, are considered in the additions to an English translation of the work, by Law, afterwards bishop of Carlisle.

Kıng, Rufus, a distinguished American orator, statesman and diplomatist, was born in 1755, at Searborough, in the district of Maine, where his father was an opulent merehant. He was entered at Harvard college, Cambridge, in 1773; but, in 1775, his collegiate pursuits were interrupted by the commencement of the revolutionary war, the buildings appertaining to the institution having become the barracks of the American troops. The students were, in consequence, dispersed until the autumn of the saine year, when they re-assembled at Concord, where they remained until the evacuation of Boston by the British forees, in 1776. In 1777, he received his degrec, and immediately afterwards entercl, as a student of law, into the office of the celebrated Theophilus Parsons, at Newburyport. Before he was admitted to the bar in 1778, lie volunteered his services in the enterprise conducted by general Sullivan and count d'Estaign against the British in

Rhode Island, and acted in the capacity of aid-de-camp to the former. In 1780, he began the practice of his profession, and soon after was elected representative of the town of Newburyport, in the legislature or General Court, as it is called, of Massachusetts, where his success pared the way to a seat in the old congress in 1784. His most celebrated effort in the legislature was made in that year, on the occasion of the recommendation by congress to the several states to grant to the general government a five per cent. impost, a compliance with which he advocated with great power and zeal. He was re-elected a member of congress in 1785 and 1786. In the latter vear, he was sent by congress, with Mr. Mouroe, to the legislature of Pennsylvania, to remonstrate against one of its proceedings. A day was appointed for them to address the legislature, on which Mr. King rose first to speak; but, before he could open his lips, he lost the command of his faculties, and, in his confusion, barely retained prescuce of mind enough to request Mr. Monroe to take his place. Mean while, he recovered his selfpossession, and on rising again, after complimenting his audience by attributing his inisfortune to the effect produced upon him by so august an assemblage, proceeded to deliver an clegant and masterly speech. In 1787, when the general convention met at Philadelphia for the purpose of forming a constitution for the country, Mr. King was sent to it by the legislature of Massachusetts, and, when the convention of that state was called, in order to discuss the system of government proposed, was likewise chosen a member of it by the inhabitants of Newburyport. In both assemblies, he was in favor of the present constitution. In 1788 , he remored to New York city. In 17e9, he was elected a member of the New York legislature, and, during its extra session, in the summer of that year, general Schuyler and himself were chosen the first senators from the state, under the constitution of the U. States. In 1794, the British treaty was made public, and, a pullic mecting of the citizcus of New York having been called respecting it, Mr. King and general Hamilton attended to explain and defend it; but the people wcre in such a ferment, that they were not allowed to speak. They therefore retired, and immediately commenced the publication of a scries of cesays upon the subject, under the signature of Camillus, the first ten of which, relating to the permanent articles of the treaty, were written by
general Hamilton, and the remainder, relative to the commercial and maritime articles, by Mr. King. The most celebrated speech made by Mr. Kiug, in the semate of the U. States, was in this ycar, concerning a petition which had been presented by some of the citizens of Pemnsylvania against the right of Albert Gallatin to take a seat in the senate, to which he had been choseu by that state, on the ground of want of legal qualification, in consequence of not having been a citizen of the $\mathbf{U}$. States for the requisite number of ycars. Mr. King spoke in support of the petition, and in answer to a speech of Aaron Burr in favor of Mr Gallatin. Mr. Gallatin was excluded. In the spring of 1796 , Mr. King was appoiuted, by president Washington, minister plenipotentiary to the court of St. James, liaving previously declinad the offer of the department of state. The functions of that post he continued to discharge until 1803, when he returned home. In 1813, he was a third time sent to the senate lyy the legislature of New York, at a period when the nation was involved in lostilities with Great Britain. His speech oll the burning of Washington by the enemy, was one of his most eloquent displays, and teened with sentiments which had echoes from all partics. In 1816, whilst engared with his senatorial duties at Washinyton, he was proposed as a candidate for the chicf inagistracy of the state of New York, by a convention of delegates from several of its counties. The nomination was made without lus knowledge, and it was with great reluctance that he acceded to it, at the carnest solicitation of his friends. IIe was not, however, elected. In 1820, he was reelected to the senate of the U. States, where he continued until the expiration of the term, in March, 182J. Several of the laws which he proposed and carried, in that interval, were of great consequence. In the famous Missouri question, he took the lead. On his withdrawal from the senate, he accepted from president Adams, the appointment of minister plenipotentiary at the court of London. During the royage to England, his health was sensibly impaired. He remained abroad a twelvemonth, but his illness impeded the performance of his official duties, and proved fatal soon after his return home. He died like a Christian plilosopher, April 29,1827 , in the 73 d year of his age. The name of Mr. King is conspicuous in the annals of the Anerican Union, in connexion, not merely with the history of
parties, but with that of the formation and cstablishment of the federal republican system. Politicians of every denomination bore testimony to the value of his public serrices, and the eminence of his talents and virtues.

King at Arme, in beraldry; an officer formerly of great authority, whose business is to direct the heralds, preside at their chapters, and have the jurisdiction of armory. The origin of the title is doubtful. There are three kings at arms in England-Garter, Clarencieux, and Norroy; the first is called principal king at arms, the two others provincial kings. Clarencieux is said to be derived from Clarence, brother of Henry V, first king at arms for the south of England. Norroy (Norman French, northern king) is King at arns for the north of England. There are also Lion king at arms for Scotland, and Ulster king at arms for Ireland.

Kıng-Crab (limulus polyphemus). This well known inhabitant of the northern coasts of the U. States is distinguished from its kindred species by having seven spines on the upper part of the thorax and three on the upper part of the abdonen: the superior surface of the tail is also provided with numerous spines. The femalc, including the tail, is about two feet in length, the male somewhat less. It should be noticed that the spines on the thorax and abdomen, although very acute and prominent when the animal is young, become morc obtuse as it advances in age, so that, when full grown, they are obsolete, their situation being designated by a tubercle somewhat browner than the surrounding shell. They occur in great profission in Delaware bay, in the inlets of the New Jersey coast, \&c. These crustaceous aninals never swim, but change their situations by crawling slowly along on the bottom. The feet are completely hidden by the shell. If, when cast on shore by the waves, they should unfortunately be thrown on their back, they camot recover their proper position. 3 logs are very fond of them, and it is said that these animals appear to know of the inability of the king-crab to escape if it be tumed on its back, and take advantage of the circumstance by reversing as many as they can before they proceed to satisfy their appuetite. When irritated, they elevate their tail, but are incapable of using it as a weapon of defence. They are never eaten by man, though the eggs are said to form an article of food in Clina. These are deposited by the female in a hole of considerable width, but little depth,
which she forms between high and low water mark. The eyes of this animal, according to the obscivations of Mr. André, consist of a great number of very sumall cones.

Kingrisuer (alcedo, Lin.). This genus of birds is distinguished by having an elongated, rolust, straight, tetragonal, acute bill, with its margins fincly cre-nate-fimbriate; feet robust ; wings rather slort; body thick and compact; head large and elongated ; plunnage thick and glossy. They orcur in all parts of the world, especially in warm climates, there being but one species in Europe and one in the U. States. The kingfisher frequents the banks of rivers, and is alnost always found alone, perched on a branch of a tree projecting over the water, where it remains motionless for hours, watching till some fish comes mader its station, when it dives perpendicularly downwards into the water, and brings up its prey with its feet, carries it to land, where it beats it to death, and swallows it entire, atterwards casting np the scales, and other indigestible parts, in the form of balls. There is, perhaps, no aninal respecting which the inagination of mankind has invented more fables than respecting this bird. The ancients supposed that it built its nest upon the ocean-
Incubat halcyone pendentibus cequore nidis. Ovid.
But, as this floating cradle would be likeIy to be destroyed by storms, they endowed the bird with powers to lull the raging of the waves during the period of incubation: lience those tranquil days near the solstice were termed halcyon days; and, that the royager might want no accomplishment, they attributed it to the charm of song.* But these were not all the wonderful attributes of the kingfisher. Whatever branch it perched on becane withered; the body, when dried, preserved clothes from the moth; and, still more extraordinary, it preserved, where it was kept, the peace of fanilies, and was not only a safeguard against thunder, but also augmented hidden treasures. But it is not to the fanciful genius of the ancients alone, that this bird is indebted for wonderful attributes. According to Gmelin, the feathers of the kingfisher are employed by the Tartars and Ostiaks for many superstitious practices. The former pluck them, cast them into the water, and carefully preserve such as float, pretending that if with one of these feathers they

[^16]touch a woman, or even her clothes, she must fall in love with them. The Ostiaks preserve the skin about their persons as an amulet against every ill. But it is not these barbarous nations only that entertain extravagant notions in regard to this bird. It is believed by some persons, that if the body of a kingfisher be suspended by a thread, by some magnetic influence, its breast always turns to the north. The species inhabiting the U. States (A. alcyon) is distinguished by being of a bluish slate color, with a ferruginous band on the breast, and a spot before and behind the eyes, a large collar round the neck, and the vent white: the head has an elevated crest. It inhabits the whole continent, from Hudson's bay on the north to the equator, and perhaps even still farther south, migrating in cold and temperate regions. (See Wils. Am. Orn., vol. iii, p. 59.)

King's Advocate. (See Advocale of the Crown.)

King's Bench. (See Courts of Justice, division Courts of England.)

King's College (London). This new institution received the royal charter August 14, 1829, and was brought forward under the patronage of the government and the church. The course of education in King's college is divided into a higher and a lower department. The latter division consists of a school for the reception of day scholars, and is distinct from the higher, and intended to afford an education preparatory to it. The studies pursued are the classics, elements of mathematics, English litcrature and composition, and some modern languages, if desired. In the former are comprehended religion and morals, classical literature, mathematics, philosophy, logic, political economy, history, English litcrature and composition, foreign languages, and subjects comnected with parficular professions. No person, not a inember of the established church, can hold any office of government or instruction in the college, except the professorships of Oriental litcrature and modern languages. The building forms the easten wing of Somerset house, comprising a chapel, hall, library, lecturc rooons, residences for the professors, \&c. (Sce Universities, and London University.)-King's college is also the name of one of the colleges at the university of Cambridge, England. (See Cambridge.)

King's Theatre, or Italian OperaHouse, is a fashionable place of anusement in the British metropolis, Haymarket.

The performances consist of Italian operas and ballets, and the performers are the most celebrated from the Italian and French stages. The interior is very magnificent, and is nearly as large as the celebrated theatre of La Scala, at Milan. The stage, within the walls, is 60 feet long and 80 broad, and the space across from the boxes on each side, 46 feet. Each boxis enclosed by curtains, according to the fashion of the Neapolitan theatres, and is furnished with six chairs. There are five tiers of boxes, all of which are private property, or are let out for the season to persons of rank and fashion. The boxes will accommodate about 900 persons, the pit 800 , and the gallcry 800 . The opera usually opens for the scason in January, and continues its performance, on Tuesdays and Saturdays, till August.

Kingston; a seaport on the south coast of Jamaica, constituted a city in 1802, situated on a bay or inlet of the sea, in which there is safe anchorage. It was founded in 1693 , after the destruction of Port Royal by an earthquake in the preceding year. It has been of late greatly cxtended, and has many handsome houses. It has two churches, one Episcopal, the other Presbytcrian. There is, besides, a theatre, a free-school, established in 1729, a poor-house, and a public hospital. Population-whites, 10,000 ; people of color, 2500 ; free negroes, 2500 ; slaves, 17,000 ; total, 33,000. 10 miles east of Spanish Town. Lon. $76^{\circ} 33^{\prime}$ W.; lat. $18^{\circ} \mathrm{N}$.

Kingston, Elizabeth, duchess of, was bom in 1720 , and was the daughter of colonel Chudleigh, governor of Chelsea college, who, dying while she was young, left her almost unprovided for. She resided with her mother, who, through the interest of Pultency, afterwards earl of Bath, procured her the post of maid of honor to the princess of Wales, the mother of George III. Her wit and beauty procured her many admirers, and, in spite of the levity of her manners, a scrious offer of marriage from the duke of Hamilton. But while that nobleman was on the continent, Mrs. Hanmer, the aunt of miss Chudleigh, with whom she was on a visit, persuaded her niece to marry privately captain Hervey, a naval officer, afterwards earl of Bristol. She soon conceived a violent dislike of her husband, heightened by the discovery that she had been deceived into an opinion that the duke of Hamilton had forgotten her. Her marriage, which took place August 4, 1744, was kept a secret ; and her refusal of ad-
vantageous proposals of marriage whieh she subsequently reeeived, offended her mother, and subjeeted her to reproaehes, whieh induced her to go abroad. She went in company with a major in the army, with whom she proceeded to Berlin, where they parted. She is said to have been well received by the king of Prussia, and also at the eourt of Dresden ; and, on her return to England (as miss Chudleigh), she resumed her situation as maid of honor. Desirous of breaking off her union with eaptain Hervey, she adopted the infamous expedient of tearing the leaf out of the parish register, in which her marriage was entered; but, repenting of this step in consequence of her husband's sueceeding to the peerage, she eontrived to have the leaf replaced. Not long after, the duke of Kingston made her a matrimonial offer, on which she endeavored to proeure a divorce from lord Bristol. He at first opposed her scheme; but at length he assented to it, and she obtained the wished-for separation. Marel 8, 1769, she was openly married to Evelyn Pierrepont, duke of Kingston, on whose death, in 1773, she found herself left mistress of a splendid fortune under the condition of her not again becoming a wife. But she did not enjoy her riches undisturbed. The heirs of the duke eommenced a suit against lier for bigamy, as having been divoreed by an incompetent tribunal. She was tried before the house of lords, and was found guilty; but, on her pleading the privilege of peerage, the usual punishment of burning in the hand was remitted, and she was diseharged on paying the fees of office. Her property had been so secured that it was not affeeted by this proeess. The remainder of her life was spent abroad, and she died at her seat near Fontainebleau, in Franee, Aug. 28, 1788.

Kinsbergen, Jolın Henry van, a Dutelı admiral, born May 1, 1735, at Doesborg in Guelderland, died 1820, 84 years old. From his 9th year, he served in the army, and from the age of 14 in the navy, in whieh he made lis way with uneommon rapidity, from the rank of a cadet to that of a vice-admiral. With the permission of the Duteli government, he entered the Russian service in 1767, at the commeneement of the war against the Turks. Kinsbergen enjoyed the unlimited confidenee of Catharine II, of which he proved limself worthy, by his brilliant suceess in an engagement on the Black sea, when, with five sluips of 40 guns , and some smaller men of war, he eaptured the
whole Turkish fleet of 13 slips of the line. In this battle, several celebrated naval movements were first attempted by him, whiel have since been generally adopted. IIs memorial to Catharine, Oı the Free Navigation of the Black Sea, reeommended his political talents to the notiee of the empress, who loaded lim with marks of esteem. Kinsbergen returned to his eountry in 1776, and was employed to negotiate a treaty with the emperor of Moroeen, in whielı he was successful. Ont the famous day of the Dorger-bank (August 5, 1781), so honorable to the Dutelı marine, Kinsbergen eomnanded, minder admiral Zoutman, seven ships of the line, and had the prineipal merit of the vietory over the English admiral Parker. After the peace of Paris of 1783 , the empress of Russia and the king of Denmark endeavored to induee Kinsbergen to enter their respeetive marines; but he refused every offer. Diring the war of the Freneh revolution, le was of great assistanee to his eountry, partieularly in the eampaigns of 1793 and 1794. After the unsuccessful campaign of 1795 , and the change of administration, Kinsbergen remained in retirement, deelining the most brilliant offers. Even Schiminelpenninek, his personal friend, could not tempt him from his retreat, where he oecupied himself in study, agricultural pursuits, and the edueation of the lower elasses. King Louis Napoleon appointed him first ehaunberlain, count of Doggerbank, counsellor of state, and gave lim the grand eross of the order of the union. But he could not induee him to leave his eountry-seat in Guelderland, in the neighborhood of Appeldoorn, nor to accept any of the salaries whieh were eonneeted with these appointments. After the union of IIolland with France, in 1810, Napoleon also endeavored to gain him over, and appointed him senator. Kinsbergen could not refuse the dignity, but he declined the income conneeted with it. Master of a large fortune, he applied it to benevolent and useful institutious. Few men have left a name equally deserving esteem. He was a member of many orders, and a member and correspondent of the principal learned soeieties. As a writer on navigation and tactics, he is an authority. His maps, including those of the Crimea, are excellent.

Kıosk ; a summer-house, with a tentshaped roof, open on all sides, and isolated. It is supported by pillars (conimonly placed in a square), round the foot of whieh is a balustrade. It is built of wood, straw, or
similar materials, and is chiefly erected to afford a free prospect in the shade, but it also serves to embellish a rural or garden view. The word kiosk is Turkish. This kind of pavilion has been introduced from the Turks and Persians into the English, Frencl and German gardens.

Kıppis, Andrew, a dissenting divine, was born at Nottingham, March 28, 1725; in 1746 , became minister of a dissenting congregation at Boston in Lincolnshire, and, in 1753 , pastor to a dissenting congregration in Westminster. In 1763, he was apjointed classical and philological tutor to the academy supported in London by the funds of William Coward. In 1767, he received the degree of doctor of divinity from the university of Edinburgh, and, in 1778 and 1779 , became a fellow of the society of antiquaries and of the royal society. He died in 1795. Doctor Kippis laid the foundation of the New Annual Register. He devoted his principal attention during the later years of his life, to an improved edition of the Biographia Britannica. This work was conducted on a plan so elaborate, that no termination of it on the same scale is likely to be attempted. The labors of doctor Kippis extended only to five folio volumes, forming a small part of the plan.

Kirche; a German word for church, which appears in a great number of geographical words.

Kırcier, Athanasius; a learned German Jesuit, born at Fulda, in 1602. He was professor of mathematics, philosophy, and the Oriental languages, at Würtzburg, when the arms of the Swedes disturbed his repose, and he repaired to Avignon, where lie continued several years. He wished to return to Germany, but the pope called lim to Rome, where he at first taught mathematics in the collegium Romanum, and afterwards occupied himself in the study of the Egyptian hieroglyphics. Father Kircher was a good Orientalist, as well as an excellent mathenatician; but the fanciful nature of some of his studies has cansed most of his productions to be considercel rather curious than useful. In his attenupts to unravel the hieroglyphics, he occasionally fell into some singular absurdities. His industry as a writer was nnwearied, the whole of his works occupying no fewer than 20 volumes in folio, 11 in quarto, and 3 in octavo. Among these are his CEdipus Fgyptiacus (4 vols., fol., 1652-55), which contains fanciful explanations of a great number of hieroglyphics. In this work, and in his Prodromus Coptus (Rome, 1636, 4to.), and his

Lingua .Egyptiaca restituta (Rome, 1644, 4to.), he made investigations respecting the Coptic language. He wrote also Obeliscus .Egyptiacus ; Phonurgia Nova; Ars magna sciendi seu Combinatoria; Pralusiones Magnetica (folio) ; Itinerarium extaticum (4to.); Mundus subterraneus ( 2 vols.); Musurgia universalis ( 2 vols., folio); Turris Babel; China illustrata; Primitice Gnomonice catoptricce (4to.) ; Arca Noë; Polygraphia (folio) ; Organum Mathematicum; Ars magna Lucis et Umbre (folio), \&c., \&c. In lis Musurgia, he lays claim to the invention of the Æolian harp; and in his Phonurgia Nova, to that of the speak-ing-trumpet. He was afterwards professor of Hebrew and mathematics at Rome, where he died in 1680 . His writings embrace the departments of philosophy, mathematics, physics, mechanics, cosmograply, natural history, philology, history and antiquity. They exhibit great learning, but are disfigured by many extravagances.

Kirghises, or Kirguis, or Kirgese, or Kirguses, or, as they call themselves, Sara-Kaisaki (Cossacks of the steppes); a widely extended people of Independent Tartary, occupying a great part of the southern frontier of Asiatic Russia. They are generally considered as the descendants of the most ancient Mongols, who formerly dwelt in the neighborhood of the Clinese wall. When they were first discovered, at the time of the Russian conquest of Siberia, they were dwelling on the upper Yenesey. Since that time, they have been known as a restless and dangerous people. They now inhabit the wastes between the Ural and the Irtisch,called, by the Russians, the Kirghise steppes. These wastes are bounded west by the Caspian sea and the province of Caucasia, north by the governments of Ufa and Tobolsk, and east by that of Kolivan. They have been long divided into the Great, the Middle and the Little Hordes. The first, on account of their valor and the inaccessible mountains in which they dwell, long remained independent, until their sultan, in 1819, acknowledged the sovercignty of Russia. The Middle and Little Hordes have recognised the dominion of the Russians since 1731 , but have always shown themselves faithless, and disposed to pillage; on which account, lines of small fortresses have been erected along the streams on their frontiers. The Little Horde occupy the westernmost position, and wander over the plains south and east of the Ural, and between the Caspian and Aral. The Middle Horde live farther east,
on the vast plains north of lake Aral. These two hordes subsist entirely on their flocks, and have no agriculture. The Great Horde live farther to the east and south, beyond the Aral, and on the Sirr ; some of them are pastoral, but a considerable proportion cultivate the land, and inhabit fertile, mild and well watered countries. In the lofty ranges between Cashgar and Siberia, there is a race called Wild or Mountain Kerghises, free, fierce and warlike, amounting to about 50,000 . There is another detachment south of Cashgar, an agricultural people, and more civilized than the rest. The Little and Middle Hordes are said to consist each of about 30,000 tents or families, each of about 10 persons; total, about 600,000 . Their constitution is entirely free and independent. The khan of the Little Horde is indeed appointed by Russia, but he has scarcely any influence. The Russian government, instead of cxacting any tribute, pay regular pensions to all the principal chiefs, in consideration that these turbulent warriors shall not exercise upon the Russian empire those predatory habits for which they have always been famous. The Kirghises profess the Mohammedan religion, practise polygany, and live in tents of felt, superior to those of the Calmucs. Their articles of trade are cattle, furs, leather, and coverlets of felt.
Kirwan, Richard, a distinguished modern writer on chemistry, geology, and the kindred sciences. He was a native of the county of Galway, in Ireland, and was educated at the university of Dublin, where he took the degree of LL. D. He devoted himself with great ardor to chemical and mineralogical researches, and became a member of the royal Irish academy, and also a fellow of the royal society. He published in the Philosophical Transactions for 1781, 1782 and 1783, Experiments and Observations on the Specific Gravities and Attractive Powers of various Saline Substances ; which important subject he farther prosecuted in the Philosophical Transactions for 1785. In 1784 appeared his Elements of Mineralogy ( 2 vols., 8 vo.), which was translated into German by Crell, and subsequently republished, with additions and improvements. In 1787, he published an Essay on Phlogiston and the Constitution of Acids, designed as a defence of the theory of chemistry advanced by doctor Priestley. This very ingenious production was translated into French by the advocates for the anti-phlogistic hypothesis, and published,
with animadversions on the rival system, which made a convert of doctor Kirwan, whose rejection of the principles he had so ably supported, lad a considerable influcuce in producing the revolution which took place in chemical science. He produced, besides the foregoing works, an Estimate of the Temperature of different Latitudes ( 1787,8 vo.) ; a treatise on the Analysis of Mineral Waters (8vo.), and another on Logic ( 2 vols., 8 vo.), to which may be added various communications to the learned societies to which he belonged. At Dublin, he founded an association for the express purpose of cultivating mineralogy ; and, as a geologist, he advocated what has been called the Nepturian theo$r y$ of the earth, in opposition to that of doctor James Hutton. His death occurred in 1812.

Kirman, Walter Blake; an Irish divine, eminent for his popularity as a preacher. Ile was born at Galway, in 1754, and educated at the English Catholic college of St. Omer's, whence he removed to Louvain, where he took priest's orders, and became professor of philosophy. In 1778, he was appointed claplain to the Neapolitan embassy in London, and attained some fane by lis exertions in the pulpit. In 1787, he resolved to conform to the establishment, and preached to his first Protestant congregation in St. Peter's church, Dublin. In 1788, he was preferred to the prebendary of Howth, and to the rectory of St. Nicholas, Dublin, and finally presented to the deanery of Killala. Wonders are told of his attraction as a preacher, and it was often necessary to keep off the crowds from the clurches in which he preached, by guards and palisadoes. He died exhausted by his labors, Oct. 27, 1805, leaving a widow with two sons and two daughters, to the first and last of whom was granted a pension of $£ 300$ per annum. In 1814, a volume of his sermons was published, which is the only work of his which reached the press.

Kiss. The mutual touching of the lips and the mingling of the breath is one of the most natural expressions of affection among men. The child expresses its love by a kiss, and men in all stages of refinement do the same. Inferior creatures express tenderness in a similar manner, as the billing of doves; and many creatures touch objects of love with the mouth, or rather tongue. The faithful dog cannot show his affection to his master more clearly than by licking his hand. But man puts the restraints of reason and decoruin on the demoustrations of affec-
tion, and the kiss lias been subjected to various restrietions among different nations ; so that, to this day, a kiss given contrary to the will of the person kissed, may, in Germany, be punished as an injuria ( $\mathrm{q} . \mathrm{v}$.), whilst, on the other hand, it has entered largely into various ceremonials, civil and religious. Kissing the forehead of a person, is a sign of condescension and good will, the parental blessing being sealed with the father's kiss on the forehead of the child among many nations. Kissing the shoulders, is an expression of inferiority ; still more so kissing the hand or the foot ; and the sign of the greatcst humiliation among the Poles, Bohemians, Russians and Asiatics, is to kiss the ground, as a symbol that the place where the foot of the honored person has trod is dear to them. The word kissing is the usual expression, in Helrew, to signify adoration ; and adoratio literally means touching with the mouth. In the article Adoration, mention has been made of the custom of kissing the hand, anong the ancients, and of kissing the foot, originally of every lishop, and, at prescht, of the pope. The stem Romans held it indecent for a husband to kiss his wife in presence even of a daughter. With some nations, as the Germans and French, it is customary for men to kiss each other after a long absence, \&c. In the most ancient times, it was customary to impress kisses on one's own hand, and then make the sign of throwing them to the sun, moon, the stars (Job, xxxi, $2 \mathrm{i}^{\circ}$ ), and even to Baal. Homer makes Prianı kiss the hand of Achilles. Among the Romans, the ligher magistrates gave their hands to be kissed by the lower officers, and, under the emperors, the nonareh gave his hand to be kissed to the superior officers, whilst the lower officers paid their homage on their knees, toueling the gown of the emperor, or their otvn hand, \&c. Kissing the hand of the sovereign, now forms part of the ceremonial of all European courts. It is considercd a particular mark of grace. Officers are allowed this privilege when they set out on inportant expeditions, or return from them. 'In Prussia alone, the king's hand is never; or, at least, very rarely kissed, as a matter of settled ceremonial. In Spain, the grandees perform this ceremony on certain court days. In England, it is customary for certain officers to kiss the king's hand, at their first audience. When the emperor of Russia dies, his body is laid out in statc, and every one who approaches him kisses his hand.

Catholics kiss the bislop's hand, or rather the ring which he wears in virtue of his episcopal office. Kissing the hand was formerly yery customary on the European continent, and still is so to a certain degree. A gentleman may kiss a lady's hand; and pcople of the lower class, to express great gratitude, will not unfrequently kiss the hand of a benefactor. In Russia, all persons have a right to kiss each other on Easter day-the day of rejoicing in the Greek Catholic church. When the wives of European monarehs appear, people generally make a motion as if to kiss the gown, and they offer the hand to be kissed. In England, on the first presentation of young ladies of high families at court, the queen salutes them on the cheek. In the same way, she salutes a hostess if slie pays a visit. Kissing the foot is a common Oriental sign of respect. The later Roman emperors, whose court ceremonial was mixed with so many servile customs, first introduecd this practice into the West. The popes have required it as a sign of respect from the secular power since the eighth century. Pone Constantinc I first had his foot kissed by the emperor Justinian II, on his entry into Constantinople, in 710. Valentine 1 , about 827 , required every one to kiss his foot ; and, from that time, this mark of reverence appears to have been expected by all popes. When this ceremony takes place, the pope wears a slipper with a cross, which is kissed. In French, this is called le baisement des pieds, the word baisement is not used in any other relation. In more recent times, Protestants have not been obliged to kiss the pope's foot, but merely to bend the knee slightly. Even Catholic princes sometimes perform only the genuflexion. When the pope is elected, he is placed on the altar, and the cardinals, first of all, perform the adoration. Each approaches the newly elected pope, and kisses his foot, then his knee, and is then enibraced by the pope, and saluted on the cheek. The clergyman sometimes kisses the woman inmediately after marriage. The kiss of peace, in the Catholic church, forms part of a religious rite. St. Peter and Panl end their epistles-"Salute one another with a holy kiss." And it was at first customary anong the Christians to give each other the kiss of peace-a syınbol of concord and unity-particularly at the agapes. (q. v.) Many fathers of the church mention it, as St. Justin, Tertullian, St. Cyril, \&ic., and in the apostolic constitutions and all old liturgies, mention is made of it. The lieathens, on this ac-
count, reproached the Christians with licentiousness, as, from misunderstandilig, they also accused them of sacrificing human victims, when the sacrifice of Christ was meant. That these kisses may have had an objectionable tendency, we do not deny, as we know ourselves, that, in Berlin, where a certain sect had reintroduced these kisses with the agapes, govermment found it necessary to prohibit then. In the Greek church, the kiss of peace is given before the oblation, and after having dismissed the catechumens. In the Latin church, the kiss of peace is given immediately before the communion. The clergyman who celebrates mass kisses the altar, and embraces the deacon, saying, Pax tibi, frater, et ecclesice sancte $D_{\text {ei }}$; the deacon does the same to the sub-deacon, and says, Pax tecum; the latter salutes the other clergy. Kissing must have been common with the Jews, since Judas used it as a sign to betray the Savior.

Kitchiner, doctor, was the son of a Middlesex justice, who was for many years a coal merchant in the Strand. He acquired a handsome fortune, which he bequeathed to his son. Doctor Kitchiner was educated at Eton, after which he settled in London as a plysician. Early in life, he married; but a separation from his wife soon after took place hy mutual consent, and he was left at liberty to employ his ample fortune in experimental cookery. He treated eating and drinking as the only serious business of life; and, having caught the attention of the public by the singularity of his conduct, he proceeded to promulgate, under the title of the Cook's Oracle, the laws of the culinary art, professedly founded on his own practice. He was accustomed to assemble his friends at a conversazione at his house on 'Tuesday evenings, and, for the regulation of these meetings, placed a placard over his chimney piece, containing these words, "At seven come, at eleven go." He was a great stickler for punctuality, and kept a slate in his hall, on which his hours for receiving visiters were indicated. His appearance, liis dress, his usages, his person, were all quaint. Besides his Cook's Oracle, doctor Kitchiner wrote Practical Observations on Telescopes (1815, reprinted for the fourth time in 1825, under the title of Economy of the Eyes) ; Apicius redivivus, (1817); the Art of Invigorating and Prolonging Life (1822); also the 'Traveller's Oracle, published just after his death; \&c. In his private character, doctor Kitchiner is represented as having been an amiable man, respected
for his integrity, conciliatory manners, and social virtues.

Klaproth, Martin Henry, one of the most scientific German philosophors and cliemists, was born Dec. 1, 1743, at Wernigerode, and died Jan. 1, 1817, at Berlin. He was au apothecary till the year 1788. In that year, he became chemist to the acadeny of sciences, and sold his apothecary's establishment. He was the first who discovered, in the stone called zircon, and also, afterwards, in the liyacintl, from Ceylon, a peculiar alkaline earth, to which he gave the name of zircon earth, and which has since attracted much attention from the French chemists Morveau and Vauquelin. In 1797, he ascertained, by a masterly analysis, the existence of a distinct metal in the substance called platina, to which he gave the name telluriam. To the same period belongs, also, the discovery of another species of metal, the titanium , which is of frequent occurrence in combination with the oxide of iron and various earths. We are indebted to his analysis of pitclı blende for a third new species with which he enriched the class of metals-the uranium. He subjected meteoric stones to a very thorougli and careful analysis, and proved the interesting point of their identity of composition. The results of these, and other more inportant chemical investigations, are exhibited in his Contributions to the Chemical Knowledge of Mineral Bodies (Bcrlin, 1795-1815, tom. vi.) We have also a chemical dictionary published by him in conjunction with D. Wolff, of which five volumes, and four supplementary volumes, have appeared at Berlin, since 1807 , which may be regarded as the most complete and respectable chemical work, in alphabetical arrangement, that Germany has produced.

Klaproth, Henry Julius von, royal Prussian professor of the Asiatic languages, born at Berlin, Oct. 11, 1783, is a son of the celebrated chemist. He devoted himself, from his youth, to the study of the Asiatic languages, particularly the Chinese, had access to the libraries at Berlin and Dresden, published at Weimar, in 1802, the Asiatic Magazine, and was invited to Petersburg, as adjunct to the academy, in the department of the Asiatic languages. His inquiries were particularly directed to the history and geography of the interior of Asia, the migrations of its different races, and the connexions of their languages. In 1805, he accompanied count Golowkin, who went as ambassador to Pekin; but the expedition was obliged to
return after reaching the frontier. He then occupied himself in collecting vocabularies, and, at Irkutsk, had an opportunity of becoming acquainted with the Mantchoo tongue. After his return, the academy of Petersburg, on the recommendation of count John Potocki, employed him to pursue, in the region of Caucasus, his inquivies into the Asiatic races. He there discovered the descendants of the Huns, the Avars and Alans, and returned to Petersburg in 1809, with many important manuscripts, which he had collected. His Archives of Asiatic Literature (tom. i. 1810-14) were the result of this journey. He then drew up the catalogue of the Chinese and Mantchoo books and manuscripts in the library of the academy, the Chinese cliaracters for which were cut at Berlin. In 1812, he took his dismission, went, in 1814, to Italy, and fixed upon Paris, at last, as his permanent residence; where, with the assistance of the king of Prussia, who appointed him professor of the Asiatic languages, he published several works, as the Supplement to the Chinese Dictionary of Father Basil of Glemona (by De Guignes, 1813), No. 1. The continuation of it was rendercd unnecessary by the publication of that of Morrison (Macao, 1820 , tom. ii. 4 to.). He also published a catalogue of the Chinese and Mantchoo books and manuscripts in the royal library at Berlin (Paris, 1822), with extracts and chronological tables for the Chinese history; then a treatise upon the Oigurs, the first that contained specimens of the language of this ancient people, in the Oigur characters. In 1823 appeared, at Paris, his Asia Polyglotta (4to.), with an Atlas of Languages, in folio, in which he indicated the ramifications of the various Asiatic races, according to the relation of their languages, and ascertained the date of the commencement of certain history among the various Asiatic nations. This work also contains a translation of a Mongol legend of the life of Buddla, with remarks. In 1823, he published a translation, in French, of his Travels in the Caucasus, with many additions, in 2 volumes. He is also quite active in the service of the Asiatic society of Paris. The journal of that institution contains many papers by hin. He also published, at the expense of this society, a Georgian grammar, and Georgian and Mantehoo dictionaries. Since 1824, have appeared his Historical Tables of Asia, from the Monarchy of Cyrus to our Time ( 4 vols, 4 to, with an atlas, in folio). Klaproth is also
a member of the Asiatic society in London, and some time since undertook to publish there a Geographical, Statistical and Historical Description of China (2 vols., 4to.).

Kléber, Jean Baptiste, a French general, distinguished not less for his humanity and integrity, than for his courage, activity and coolness, was one of the ablest soldicrs which the revolution, so fertile in military genius, produced. Iis father was a common laborer, and young Kléber was himself peacefully occupied as an architcet, when the revolutionary troubles led him to the career of arms. He was born at Strasburg, in 1754, and had received some education in the military academy at Munich, through the agency of some German gentlemen, to whom he had rendered a service. From 1776 to 1783, he had served in the Austrian army against the Turks. Having entered a French volunteer corps as a simple grenadier in 1792, his talents soon procured him notice; and, after the capture of Mayence, he was made general of brigadc. Although he openly expressed his horron at the atrocious policy of the revolutionary government, his services were too valuable to be lost, and he distinguished himself as a general of division, in the campaigns of 1795 and 1796. In 1797, Kléber, dissatisfied with the directory, retired from the scrvice ; but general Bonaparte prevailed upon him to join the expedition to Egypt. Although no favorite of the general in chief, yet, such were the talents that he displayed in the campaign in Syria, and the battle of Aboukir, and such was the esteem in which he was held by the army, that Ponaparte left him the command, when he himsclf returned to France. His situation was difficult; the army was weakened by a series of laborious inarclies and sanguinary conflicts, and all communication with France was intercepted; yet he maintained himsclf successfully against the eneny, and introduced order into the government; but, in the midst of new prcparations for securing possession of the comutry, he was assassinated by a Turkish fanatic, June 14, 1800.
Kilein; a German word for small, prefixed to a grcat many geographical names.
Kleist von Nollendorf, Emilius Frederic, count, one of the most distinguished Prussian generals in the campaign of 1813 and 1814, against Napoleon, was born at Berlin, in 1762 , served in the campaign of 1778 , and rose by his cour-
age and military talents, so that, in 1803, he was made reporting adjutant-general to the king of Prussia. After the enterprise of Schill (q. v.), he was made commandant of Berlin-a post which required, at that time, much talent and skill. In 1812, Kleist commanded a eorps of Prussians, auxiliary to Napoleon's grand army. He distinguished himself in the battle of Bautzen (q. v.), May 20, 1813, and was one of the plenipotentiaries who coneluded the armistice. When Napoleon forced the allies to retreat from Dresden into Bohemia, after the battle of Dresden (August 26), Kleist followed the general retreat; but Vandanme had entered Bohemia before him, with 40,000 men, and Kleist had only the alternative of surrendering his army, or fighting for life and death. He took the bold resolution of throwing himself down from the mountains into the rear of Vandamme (August 30 ), and was vietorious at the village of Nollendorf. His success saved Bohemia, agaiust which Napoleon had directed his masterly demonstrations. Kleist was afterwards known by the affix of Nollendorf. Feb. 14, 1814, he was vietorious at Joillvillers, in France. In the engagement at Claye, March 29, he led a brigade to an assault in person. Kleist died in 1821.

Kleist, Ewald Christian von, born March, 1715, at Zeblin, in Pomerania, studied for nine years at the Jesuit college at Kron, in Great Poland, then at the gymnasium at Dantzie, and went, in 1731, to Königsberg to study law. Besides his aequisitions in mathematies, philosophy, literature and law, he made great proficiency in modern languages. Having tried in vain, several tines, to obtain a eivil appointment, he entered the army, and beeame, in 1736, a Danish officer. He studied, with zeal, the military art, and, when Frederic the Great, of Prussia, began his reign, Kleist entered his service. He always disliked the military profession, which, together with an unfortunate attachment, gave to his poems the tone of melaneloly which distinguishes them. Few German poems, from an author without previous reputation, have met with such immediate success, as his Frühling (Spring), which was first printed in 1749, for his aequaintance only. In 1757, Kleist was made major. In 1759, he lost his leg in the battle of Kunnersdorf: he lay, during the whole night, with his wounds exposed, on the field of battle. The next noon, he discovered himself to a Russian officer, who was passing by, and who had him carried to Frankfort.

Eleven days after the battle, the fractured bones parted, and tore an artery, and he died-August 24. Kleist was an amiable and upright man. He composed several war-songs, and liked to eall himself a Prussian greuadier. His admiration of Frederie the Great was decp, as many of his most beautiful compositions prove. Kleist enjoyed the friendship of many of the most talented men of his nation.

Klephtes, ( $\kappa \lambda \ell \phi$ tus, $\kappa \lambda \varepsilon \pi m$ ) ), properly a robber, is the name given to those Greeks who kept themselves free from the Turkish yoke, in the mountains, and carried on a perpetual war against the oppressors of their country, considering every thing belonging to a'Turk lawful prize, often, as may be casily imagined, exercising their profession on Greeks. Suel a population is very common in conquered countries, where there are mountains to afford a retreat to the vanquished. At the time of the conquest of Greece, many inhabitants of the plain retreated to the highlands, where they even formed кגєфroxwia (klephtes villages), from whenee they surprised and annoyed the Turks. By degrees, their independence was acknowledged by the Turks (as, for instance, in the case of the Mainots), and a militia acknowledged by the Turks was formed among them, whieh, under the pachas and other officers of the Porte, was intrusted with the maintenance of order in different parts of Greece. The members of this were called ддраатшдоi and $\dot{\dot{\rho}} \mu а т \omega \lambda о i$ (probably from the Latin and Italian word arma, as many words of this description have become incorporated in the modern Greek, partly through the conquest of the country by the Romans, partly by the predominance of Italian on the Mediterranean in later periods; or from ăppa, which is conneeted with the ancient Greek äopevov). The leaders were called capitani (q. v.), and their dignity appears to have been hereditary. These armatoloi, also ealled pallikaris, from the ancient $\pi \dot{a} \lambda \lambda a \xi$ or $\pi \dot{\alpha} \lambda \lambda \eta \xi$, returned to their profession of klephtes, when their rights were attacked; as, for instance, when Ali Paeha of Janina attacked the Albanians. They retained a proud feeling of independence, and Greece would never have been freed, had it not been for these robbers, who were the first to take part in the struggle against the Porte in 1821, and furnished the few good soldiers in the land-service of Greece, their leaders beeoming the best generals in the Greek service, as Niketas, Colocotroni, \&c. (See Greece.) Whole tribes are to be counted among the klephtes; as the

Suliots and Chimariots, in the ancient Epirus, and the Sphakiots on the island of Crete. Besides these, there were single klephtes in the Morea, \&c. (For their mode of attack, sce Hobhouse's Journey through Albamia, 1817.) The songs of the klephtes, composed anong theinselves, form part of the modern national Greek poetry, of which Fauriel (Chants populaires de la Grèce moderne, 2 vols., Paris, 1824 and 1825) has published sevcral. The same work gives, in a discours préliminaire, interesting details respecting the klephtes and armatoloi. The klephtes are hospitable towards those who are not tempting objects of plunder, as the writer can testify.

Klingemany, Augustus; doctor of philosophy and director of the national theatre at Brunswick; born Aug. 31, 1777, at Brunswick. Inspired by the example of Göthe and Schiller, who had raised the theatre of Weimar to a high degree of perfection, he devoted himself entirely to the theatre of his native place. In 1813, this was raised from a private to a national institution. Klingemann received the direction of it, and, under his superintendence, it became one of the first of the German theatres. Of his dramatic productions, Heinrich der Löwe, Luther, Moses, Faust, Deutsche Treue, are stock pieces. His Dramatische Werke were published at Brunswick, 1817-18, 12 volumes.

Klinger, Frederic Maximilian von, was horn at Frankfort on the Maine, in 1753. He fell, when young, into an exaggerated style of writing, but even then produced a great sensation. Few works have stirred the passions more than his Twins (Tuillinge). Göthc speaks favorably of his exterior, his disposition and his manners. What Klinger was, lic became through himself. Rousseau was a favorite author of his. After having studied at the gymnasium of Frankfort, he went to tie university of Giessen. His first productions were dramatic. In the war of the Bavarian succession, he entered the military service, and was made a lieutenant in the Austrian army. After the pcace, he went (1780) to St. Petersburg, and was appointed an officer and reader to the grand-admiral, the grand-prince Paul, with whom he afterwards travelled through Poland, Austria, Italy, France, Switzerland, Germany, \&c. In 1784, he was appointed an officer of the inilitary school at St. Petersburg, and rose, in the reign of Catliarine, to the rank of coloncl. In 1799, hc was made major-gencral by the emperor Paul, and director of the corps of cadets.
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He distinguished himself by an independent uprightness, at a time when the vagaries of Paul made such conduct dangerous. When Alexander ascended the throne, he received several other offices, as the direction of the university of Dorpat, the inspection of the body of pages, \&cc. After having received many ordcrs, and the income of a crown village for life, he was made lieutenant-general in 1811. He had served 40 years, when he retired. He died in Feb., 1831. In the midst of his many occupations, Klinger was ever alive in the field of poetry. His works are quite peculiar. He collected them in 12 volumes (Kőnigsberg, 1809 to 1810). Dor Weltmann und der Dichter is considered by many the best of his productions.

Klootz, Anacharsis. (Sec Clootz.)
Klopstock, Frederic Gottlieb, one of the most celebrated of the German poets, was born July 2, 1724, at Quedlinburg. His father, a senator of Quedlinburg, and an eccentric man, removed, after his birth, to Fricdeburg, near Wettin, on the Saal, where the young Klopstock spent his childhood, and was subsequently placed at the gymnasium of Quedlinburg. At the age of 16, he went to the Schulpforte, near Naumburg. Here he madc liinself perfect in the ancient languages, acquired a decided predilection for the classical writers, and formed the resolution of writing a great epic poem, though he was not deternined what subject to choose; and the reign of Henry the Fowler at that time attracted him inost. In 1745, he studied theology at Jena, and commenced, in solitude, the first canto of his Messiah. In Leipsic, where he went the next year, lie formed an acquaintance with Cramer, Schlegel, Rabener, Zachariä, and others, who then published the Bremischen Beiträge, in which the three first cantos of the Messial appeared, in 1748, and excited universal attention. Some revered the author as a sacred poet; others, particularly the old divines, imagined that religion was profaned by lis fictions. A country clergyman came to him, and seriously entreated him, " for the sake of God and religion, not to inake Abaddon (a fallen angel) blesscd." He likewise underwent some severe criticism, on account of the novelty and originality of the form and spirit of his poem. The work made the deepest impression in Switzerland. In the summer of 1750 , he went to Zurieh, wherc much excrtion was madc to induce him to remain. The people there viewed him with a kind of veneration. He trav-
elled for his amusement through several cantons. In Deninark, too, the three first cantos of his Messiah met with a very favorable reception; and Klopstock was invited by the minister Bernstorff to Copenhagen, with a small pension, to finish the poem. He departed in 1751, and travelled through Brunswick and Hamburg, where he became acquainted with a young lady, who was a great admirer of his poeins-the talented Meta (properly Margaretha) Moller, the daughter of a mercliant there. In Copenhagen, he was received with every mark of kindness and esteem. There he passed the winter, and was introduced, the next summer, by his firend Moltke, to king Frederic V ; and, as the king was to go to Holstein in the summer of 1752 , Klopstock took advantage of the opportunity to go to Hamburg, and visit Meta. He spent the whole summer there, and returned again with the king to Denmark. In the summer of 1754, he went back to Hamburg, and was married to Meta. The steps by which his acquaintance with this lady ripened into tendcrness, are described with great beauty and simplicity in his well-known letters, written when she had become his wife, to Samuel Richardson, and afterwards published in that writer's correspondence. But he soon lost her. She died in child-bed, in 1758. He buried her in the village of Ottensen, near Hamburg, and placed over her remains this simple and beautiful epitaph :

Saat gesceet von Gott, Am Tage der Garben zu reifen.
(Seed sown by God, To ripen for the harvest.)
From 1759 to 1763, he resided alternately at Brunswick, Quedlinburg and Blankenburg, and afterwards in Copenhagen. In 1764, he wrote his Hermann's Schlacht (Battle of Arminius), and sent it to the emperor Joseph, but not with the success which, in lis patriotic enthusiasm, he had promised himself. After this, he entered upon his investigations of the German language. In 1771, after Bernstorff had received his discharge, he left Copenhagen for Hamburg, under the character of Danish secretary of legation and counsellor of the margıaviate of Baden. In Hamburg, he finished his Messiah. In 1792, he married a second time. His principal amusement in winter was skating ; and he was once in imminent danger of losing his life by it. Klopstock died with calmness and resignation, without pain or a groan, March 14, 1803. His body was buried with great pomp and solemnity, in the
presence of thousands. Purity and noble fecling were the characteristics of his mind. He was gay and animated; but his sportiveness was always tempered with a sort of dignity, and his satircs were ever gentle. His disposition restrained him from intimacy with men of rank; for he hated the cliilling condescensions of the great more than an open insult. He loved to retire into the country, with the families of his friends, and was always pleased to be among children. In the private welfare and happiness of his friends, he took the deepest interest; but dearest of all to him was the memory of his poetical brethren, with whom he had becn associated in Leipsic, and whom he saw, one after another, dropping into the gravc. (Sec Henry Döring's Life of Klopstock, Weimar, 1825.) As a lyrical writer, Klopstock is, perlaps, among the most successful of any age. He may well be called the Pindar of modern poetry; but he is superior to him in richness and deep feeling, as the spiritual world which he paints excels, in intrinsic magnificence, the subjects celebrated by the Grccian poet. His religious odes, as the Festival of Spring, exhibit the elevation of the psalmist. 'The elegiac odes to Fanny and Ebert arc known to every refined reader, for the melancholy and elevated tone which reigns throughout them. In expressing jovtill feelings, as in the ode to the lake of Zürich, and when his strains are almost Auacrcontic, as in many small pieces to Cidli, lie never overstcps the limits of Platonic love. His patriotism is strong and ardent, and his latter odes, called forth by the French revolution, in which, at first, he took the warmest interest, and those in which he speaks of the German language and poetry, are distinguished by bold and original turns of expression. Owing to these, and to his frequent allusions to the northem mythology, he is often obscure to many readers; but the most illiterate cannot fail clearly to understand and gratefully to venerate Klopstock as a writer of sacred poetry. He gained, however, the brightest and quickest fame by his epopee; the first cantos of which, by their prophetic grandeur and the magnificence of their description, their genuine patriarchal tone, and unfeigned sincerity of love and devotion, announced him a rival of Milton. His Bardiete are dramatized epics, and lyrical scenes for the theatre, rather than tragedies. The choruses possess the highest lyrical beauty, and breathe the inost ardent patriotism aud independence of feeling.

He has idealized the German character as no other one has ever done. Klopstock created for the Germans a new, strong, free and genuine poetic language, and cssentially influenced the form, by introducing the ancient classic measures, and especially the hexameter; but he was unduly prejudiced against rhyme. He acquired much reputation by his grammatical works. His fragments on Language and the Art of Poetry, his Republic of Letters, and his Conversations on Grammar, explain many difficulties in German grammar and German poetry, although his innovations in orthography, and, on the whole, several peculiarities of his style, cannot meet with general approbation. Klopstock's works were published at Leipsic, 1798-1817, 12 volumes, 4to. They have lately appeared in a pocket edition. The 100 th anniversary of his birth was celebrated at Quedlinburg and Altona, July 2, 1824, and a monument has been erected to him in Quedlinburg.
Klotz, Christian Adolphus, was born Nov. 23, 1738, at Bischofswerda, in Lusatia. He studied at Jena, and, in 1762, was appointed professor of philosophy in Göttingen. His patron, Quintus Julius, recommended him to Frederic the Great, and he went, in 1765 , to Halle. The king esteemed him as an eminent scholar. Klotz distinguished himself chiefly by his Latin poems, his numismatic treatises, lis works on the study of antiquity, and on the value and mode of using ancient gems. After having contributed much to the Deutsche Bibliothek, under the signature E, he established a paper in opposition to it, called Acta Literaria. Lessing was the acutest and witticst of his opponents. His disputes with Lessing and Burmann took a tone of undue violence. Klotz was of an ardent temperament. Thorough in Greek and Latill, of modern languages he knew little. An irregular life hastened his death. He died Dec. 31, 1771.
Knee; a crooked piece of timber, having two branches or arms, and generally used to connect the beams of a ship with her sides or timbers. The branches of the knees form an angle of greater or smaller extent, according to the mutual situation of the pieces which they are designed to unite. One branch is securcly bolted to one of the deck-beams, and the other in the same manner strongly attached to a corresponding timber in the ship's sidc. By connecting the beams and timbers into one compact frame, they contribute greatly to the strength and solidity
of the ship, and enable her to resist the effects of a turbulent sea. In fixing these pieces, it is occasionally necessary to give an oblique direction to the vertical or side branch, in order to avoid the range of an adjacent gun-port, or because the knee may be so shaped as to require this disposition, it being sometimes difficult to procure so great a variety of knees as may be necessary in the construction of a number of ships of war. The scarcity of these pieces frequently obliges shipwrights to form their knees of iron.

Knees, in Russia; noblemen of the first class, who, however, have no more authority over their vassals than other landholders. A number of these nobles are descended from the former ruling families of particular provinces of the Russian empire. Of such families, there are 18 , as the Dolgorucky, Repnin, Scherbatow, Wazneskoy, Labanow, who are all descended from the family of Rurik. The czar allows them to retain the arms of the provinces which their forefathers ruled. Individuals of these families have been illustrious in the civil and military service of their country. There are also some nobles of this class sprung from collateral branches of the family of Ja gellons, which formerly ruled in Lithuania or Poland, and is extinct in its principal line. There are others, who claim a descent from independent Tartar khans. The last class of Knees consists of the descendants of noble members of Tartar tribes, who, after the subjugation of the tribes, enibraced the Christian religion, and received the above title from the Russian sovereigns.

Kneller, sir Godfrey, an eminent portrait painter, born at Lubeck about 1648, was designed for a military life, and sent to Leyden to study mathematics and fortification, but, showing a decided bent for painting, was placed under Bol and Rembrandt at Amsterdam. He visited Italy in 1672, where he became a disciple of Carlo Maratti and Bernini, and painted several historical pieces and portraits both at Rome and Venice. On his return, he was induced to visit England, in 1674; and, having painted a much admired family picture, which was seen by the duke of York, the latter introduced the painter to Charles II, by whom he was much patronised. He was equally favored by James II and William III, for the latter of whom he painted the beauties at Hampton court, and several of the portraits in the gallery of admirals. He also took the portrait of the czar Peter for
the same sovereign, who, in 1692, kuighted him, and made him gentleman of the privy chamber. Queen Anne continued him in the same office, and George I made him a baronet. He continued to practise his art to an advanced age, and had reached his 75th year at his death, in 1723. His interment took place in Westftininster abbey, under a splendid monument erected by Rysbrach, on which appears an epitaph by Pope. The airs of his heads are graceful, and his coloring is lively, true and harmonious; his drawing correct, and his disposition judicious. He displays a singular want of imagination in his pictures, the attitudes, action and drapery being insipid, unvarying, and ungraceful. (See Walpole's Anecdotes of Painting.)

Kniephausen, a lordship on the Jade, in the duchy of Holstein-Oldenburg, containing about 32 square iniles, and 2900 inhabitants, las belonged, since 1757 , to the counts of Bentink; was formerly a sovereign state, but was attached, in 1807 , to the department of East Friesland, in Holland; in 1810, to the department of Eastern Ems, in France ; and was sequestrated, in 1813, on account of the lord having taken part with the allies. Subsequently, it was occupied by Oldenburg, which deprived the lord of his sovereignty, but left him in possession of the revenue, \&c. In this condition he lias been obliged to remain, as the German diet would not recognise him as an independent prince. The name Kniephausen is derived from a castle, to which belong cight houses with 50 inhabitants, and in which the cliancery, archives, \&c., of this Lilliputian government are kept. At the congress of Aix-la-Chapelle, the lord of Kniephausen appeared, and gave rise to much ridicule, by assuming the airs of an independent prince.

Knigge, Adolphus Francis Frederic Louis, baron de, was born Oct. 16, 1752, at Brendenbeck, not far from Hanover. His father died in 1766, leaving him an estate deeply ennbarrassed. In 1769, he went to the university of Göttingen. In 1777, he was made a chamberlain at Weimar. He died at Bremen, May 6, 1796, after a rather unsettled life. Knigge wrote a variety of works. His novels were once very popular, on account of their easy style of narration, and a tinge of satire and popular philosophy. His Journey to Brunswick was, for a considerable time, much read. The work whicl gave him the greatest reputation was lis Ueber den Ungang mit Menschen (On Intercourse
with Men-a book which contains some good alvice, but is disfigured by a minuteness of petty precepts. Kuigge was also a member of the illunninati, and thus became implicated in some of the disputes relating to that order. (See Short's Biography of the Baron Adolphus von Knigge, Hanover, 1825.)
Knignt, Riclard Payne ; a patron of learning and the fine arts, to the study and encouragement of which he devoted a great portion of his time and ample fortune. His father, from a dread lest his son's constitution should be impaired by the discipline of a public school, kept him at lome till his 14th year ; but, on his decease, young Knight was placed at a large seminary, where he soon distinguished himself by his progress in classical literature, his favorite study. His splendid collection of ancient bronzes, medals, pictures and drawings in his museum at his house in Soho square, gave equal proofs of his taste and liberality. This collection he bequeathed, at his death, to the Britislı museum. Mis principal writings are, Remains of the Worship of Priapus, lately existing in Naples, and its Connexion with the Mystic Theology of the Ancients (4to., 1786); an Analytical Essay on the Greek Alphabet (4to., 1791) ; Analytical Inquiry into the Principles of Taste (8vo., 1805); and Prolegomena in Homerum, reprinted in the Classical Journal. He was also author of some poems. He died in 1824, aged 76.
Knight, in cliess. The move of this piece las given rise to an intercsting problem, in regard to the various modes by which the chess-board may be covered by the knight. The path of the knight over the board is of two kinds, terminahe and interminable. It is interminable whenever the concluding move of a series is made in a square, which lies within reach by the knight of that from which he originally set out, and is terminable in every other instance. Euler, in the Memoirs of the Academy of Berlin, for 1759, has given a method of filling up all the squares setting out from one of the corners. He has likewise given an interminable route, and has explained the method by which the routes may be varied, so as to end upon any square. Solutions of the same problem have also been giyen by Montmort, Demoivre and Mairan. Knighthood. (See Chivalry.)
Knights of St. John. (See John, Knights of Sl.)

Knights of the Shire, or Knights of Parliament, in the British polity, are two
knights, or gentlemen of estate, who are elected on the king's writ, by the freeholders of every comnty, to represent them in parliament. The qualification of the knight of the slire is, to be possessed of $£ 600$ per aunum in a freehold estate.

Knigits Templars. (Sec Templars.)
Kniphausen. (See Kniephausen.)
Knives. (See Cutlery.)
Knolese, Richard, author of a History of the Turks, was entered at the university of Oxford about 1560 , and became a fellow of Lincoln college, which he left to be master of the free school of Sandwich, in Kent. He composed his History of the Turks (folio, 1610), being the labor of 12 years. It has passed through several editions, and is executed in a manner which hastransmitted his name with honor to posterity. Several continuations have appeared, the last of which is that of sir Paul Rycaut. Knolles is also author of the lives and conquests of the Ottoman kings and emperors until 1610, and a Brief Discourse on the Greatness of the Turkish Empire. He translated Bodin's Six Books of a Commonwealth.

Kvout ; the severest punishment in Russia. The criminal, standing erect, and bound to two stakes, receives the lashes, which are inflicted with a leather strap, in the point of which wire is interwoven, on the bare back. Almost every lash is followed by a stream of blood. From 100 to 120 lashes are the highest number inflicted, and are considered equal to the punishment of death. If the criminal survives, he is exiled for life into Siberia. Formerly, the nose was slit up, aud the ears cut off, in addition, and a W (wor, rogne) cut in the skin of the forehead, and made indelible by rubbing in gunpowder. At present, the two former punishments, at least, are abolished. If the criminal is sentenced to a sinaller number of lashes, the last part of the punishment is not inflieted, and he is sent to Siberia for a few years only.

Knox, John, the chief promoter of the reformation in Scotland, was descended from an ancient family, and born at Gifford, in East Lothian, in 1505. He received his education at the university of St. Audrevs, where he took the degree of master of arts much before the usual age. Llaving embraced the ccclesiastical profession, he began, as usual, with the study of scholastic divinity, in which he so much distinguished limself, that le was admitted into priest's orders before the time appointed by the canons. He soon became weary of the theology
of the schools, and resolved to apply himself to that which was more plain and practical. This alteration of opinion led him to attend the sermons of Thomas Guillaumc, or Williams, a friar of eminence, who was so bold as to preach against the pope's authority ; and he was still more impressed by the instructions of the celebrated George Wishart, so that he relinquished all thoughts of officiating in the church of Rome, and became tutor to the sons of the lairds of Long Niddrie and Ormistoun, who had embraced the reformed doctrines. Here he preached, not only to his pupils, but to the people of the neighborhood, until interrupted by cardinal Beaton, archbishop of St . Andrews, who obliged him to conccal himself; and he thought of retiring to Germany. The persuasion of the fathers of his pupils, and the assassination of Beaton by the Leslies, encouraged him to remain. He took slelter, under the protection of the latter, in the castle of St. Andrews, where, notwitlistanding the opposition of the clergy of St . Andrews, he preached the principles of the reformation with extraordinary boldness, until the castle of St. Andrews surrendered to the French in July, 1547, when he was carried with the garison into France, and remained a prisoner on board the galleys until the latter end of 1549. Being then set at liberty, he passed over to England, and, arriving in London, was licensed either by Cranmer or the protector Somerset, and appointed preacher, first at Bervick, and afterwards at Newcastle. In 1552, he was appointed chaplain to Edward VI, and preached before the king, at Westminster, who recommended Cranmer to give him the living of Allhallows, in London, which Knox declined, not choosing to conform to the English liturgy. It is said that he refused a bishopric, regarding all prelacy as savoring of the kingdon of antichrist. He, however, continued his practice as an itinerary preacher, until the accession of Mary, in 1554, when lie quitted England, and sought refuge at Geneva, where he had not long resided beforc he was invited, by the English congregation of refugees at Frankfort, to become their minister. He unwillingly accepted this invitation, at the request of Johu Calvin, and continued his services until embroiled in a dispute with doctor Cox, afterwards bishop of Ely, who streuuously contended for the liturgy of king Edward. Knox, in his usual stylc of bold vituperation, laving, in a treatise published in England, called the
emperor of Germany as great an enemy to Christ as Nero, his opponents accused hiim to the senate of treason, botl against the emperor and queen Mary; on which he received private notice of his danger, and again retired to Geneva, whence, after a residence of a few months, he veritured, in 1555 , to pay a visit to his native country. Finding the professors of the Protestant religion greatly increased in number, and formed into a society under the inspection of regular teachers, he finally joined them, and produced so great an effect by his exertions, both in Edinburgh and other places, that the Roman Catholic clergy, alarmed at his progress, summoned him to appear bcfore them in the church of the Blackfriars, in that mc${ }_{\text {fropolis, May }} 15,1556$. This summons he purposed to obey, resting on the support of a formidable party of nobles and gentry, which so alarmed his opponents, that they dropped the prosecution. Thus encouraged, lie continued preaching with additional energy and boldncss, and was even induced to write to the queen regent, Mary of Lorraine, a letter, in which he earnestly exhorted her to listen to the Protestant doctrincs. While thus occupied, he was strongly urged to pay a visit to the English congregation at Geneva; and he accordingly departed for that place in July, 1556. He was no sooner gone, than the bishops sumnoned him to appear beforc them; and, as that was impossible, they passed sentence of death against him as a heretic, and burnt him in effigy at the cross at Edinburgh. Against this sentence he drew up an energetic appeal, which was printed at Geneva, in 1558 , previously to which, he was invited to return to Scotland, and had actually reached Dieppe on his way, when he received other letters recommending delay ; which epistles he answered by such strong remonstrances against timidity and backsliding, that those to whom he addressed them entcred into a solemn bond or covenant, dated December 3, 1557, " that they would follow forth their purpose, and commit themselves, and whatever God had given them, into his hands, rather than suffer idolatry to reign, and the subjects to be defrauded of the only food of thcir souls." Knox, in the mean time, had returned to Geneva, where he published his treatise entitled the First Blast of the Trumpet against the monstrous Regimen of Women, chiefly aimed at the cruel government of queen Mary of England, and at the attempt of the queen regent of Scotland to rule
without a parliament. A Second Blast was to have followed ; but the accession of queen Elizabeth to the throne of England, who was expected to be friendly tis the Protestant cause, prevented it. In April, 1559, he would lave visited England, but was prevented by the resentment felt by Elizabeth at lis late treatise. He therefore proceeded dircetly to Scotland, where he found a persecution of the Protestants just ready to commence at Stirling. He hurried to the scene of action to slare the danger, and, mounting a pulpit, inflamed the people by a vehcment harangue against idolatry. The indiscretion of a priest, who, inmediately on the conclusion of this discourse, was preparing to celebrate mass, precipitated his hearers into a general attack on the clurches of the city, in which the altars were overturned, the pictures destroyed, the images broken, and the monasteries almost levelled to the ground. Tlicsc procecdings were censured by the reformed preachers, and by the leaders of the party. From this time, Knox continued to promote the reformation by every means in his power, and, by lis corrcspondence with the secretary Cecil, was chiefly instrumental in establishing the negotiation between the congregation and the English, which terninated in the narch of an English army into Scotland. Being joined by almost all the chief men of the country, these forces soon obliged the French troops, who had been the principal support of the regent, to quit the kingdom; and the parliament was restored to its former independence. Of that body, the majority had embraced Protestant opinions, and no opportunity was omitted of assailing the ancient religion, until at length the Presbyterian plan, recommended by Kuox and his brethren, was finally sanctioned, the old ecelesiastical courts bcing abolished, and the exercise of religious worship, according to the rites of the Roman church, prohibited. In August, 1561, the unfortunate Mary, then widow of Francis II, king of France, arrived in Scotland to reign in her own right. She imniediatcly set up a mass in the royal clapel, which, being much frequented, excited the zeal of Knox, who was equally intolerant with the leaders of the conquered party; and, in the face of an order of privy council, allowing the private mass, he openly declared from the pulpit, "that one mass was more frightful to him than 10,000 arned enemies, landed in any part of the realm." This freedom gave great offence,
and the queen had long and angry conferences with him on that and other occasions, in whish he never paid the slightest homage either to sex or rank. He preached with equal openness against the marriage of Mary with a Papist; and Daruley, after his union, being induced to hear him, he observed, in the course of his sermon, that "God set over them, for their offences and ingratitude, boys and women." In the year 1567, he preached a sermon at the eoronation of James VI, when Mary had been dethroned, and Murray appointed regent. In 1572, he was greatly offended with a convention of ministers at Leith, for permitting the titles of archbishop and bishop to remain during the king's minority, although he approved of the regulations adopted in reference to their elcctions. At this time, his eonstitution was quitc broken, and he received an additional slock by the news of the massacre of St. Bartholomew. He had, however, strength enough to preach against it, which he desired the French ambassador might be acquainted with, but soon after took to lis bed, and died November 24, 1572. He was interred at Edinburgh, several lords attending, and particularly the earl of Morton, that day chosen regent, who, when he was laid in his grave, exclaimed, "There lies he who never feared the face of man, who hath been often threatened with dag and dagger, but yet hath ended his days in peace and lonor; for he had God's providence watching over him in an especial mauner when his life was sought." The character of this eminent reformer has been sketched by doctor Robertson, in his History of Scotland, who, in observing upon the severity of his deportment, impctuosity of temper, and zealous intolerance, observes, that the qualities which now render lim less amiable, fitted him to advance the reformation among a fierce people, and enabled him to cncountcr dangers, and surmount opposition, to which a more gentle spirit would have yielded. Jolm Knox was a man of exalted principles, great intellectual energy, undauted intrepidity, and exemplary piety and morality. He was twice married, and had two sons by his first wife. His writings, in addition to those already mentioned, arc, a Faithful Admonition to the Professors of the Gospel of Clirist in the Kingdom of England (1554); a Letter to Queen Mary, Regent of Scotland; a Stcady Exhortation to England for the speedy cmbracing of Christ's Gospel. Aficr his death appeared his History of
the Reformation of Religion within the Realn of Scotland, to the fourth edition of which (Edinburgh, 1732, folio) are appended all his other works. (See M'Crie's Life of Knox.)

Knox, Vieesimus, D. D.; an eminent divine, author of a variety of works, both in theology and polite literature. He was born December 8, 1752, and educated at Oxford. On the death of his father, he was chosen his suecessor in the headmastership of Tunbridge grammar school, over which he presided 33 years, till, retiring in 1812, he was himself, in turn, succeeded by his son. His works, many of which have been translated into various European languages, are, Essays, moral and literary (three volumes, 8ro. and 12 mo .) ; Liberal Education (two volumes, 8vo. and 12mo.); Winter Evenings (three volumes, 8 vo. and 12mo.); Personal Nobility, or Letters to a young Nobleman (one volume, 12 mo .); Christian Plilosophy (two volumes, 12mo.); Considerations on the Nature and Efficacy of the Lord's Supper (one volume, 8vo.), and a pamphlet On the national Importanee of classical Education, with a variety of sermons on different occasions; expurgated editions of Horace and Juvenal, and a series of selections from the works of the best English authors, generally known as Elegant Extraets, and Elegant Epistles. Doctor Knox wrote the Latin language with great purity and elegance, both in prose and verse. He died September 6, 1821.

K vox, Henry, a major-general in the army of the U. States, was born at Boston,July 25,1750 , and received the best education which the schools of his native town could afford. He commenced business, as a bookseller, when quite young, but relinquished it on the breaking out of the revolutionary war, in order to devote his energies to the cause of his country. He had previously, at the age of 18 , been chosen one of the officers of a company of grenadiers, and evinced a fondness and ability for the military profession. At the battle of Bunker hill, he served as a volunteer, and was constantly exposed to danger in recounoitring the movements of the enemy. He soon aftcrwards undertook the perilous and arduous task of procuring frons the Canadian frontier some pieces of ordnance, the American army being entirely destitute of artilleryau enterprise which he successfully aecomplished. He received the most flattering testimonials of approbation from the commander-in-chicf and congress,
and was intrusted with the command of the artillery department, with the rank of brigadier-general, in which he remained until the termination of the war. Throughout the whole contest he was actively engaged, principally near the commander-in-chief, whose confidence he eminently enjoyed. In the battles of Trenton and Princeton, Germantown and Monmouth, lie displayed peculiar skill and bravery, and subsequently contributed greatly to the capture of Cornwallis at Yorktown. Immediately after this event, he was created a major-general by congress, at the recommendation of Washington. The capture of that place having put a period to the war, he was named one of the commissioners to adjust the terms of peace-a duty which was satisfactorily performed. He was deputed to receive the surrender of the city of New York, and shortly afterwards was appointed to the command at West Point, where he had to execute the delicate and difficult task of disbanding the army, and inducing a soldiery, disposed to turbulence by their privations and sufferings, to resume quictly the character of citizens. In March, 1785, he was appointed by congress to succeed general Lincoln in the secretariship of war, and in this office he was continued by president Washington after the adoption of the present constitution of the U. States. His duties were subsequently much increased, when he received charge of the navy department; and America is greatly indebted to his efforts for the creation of our naval power. For 11 years, the functions of the war office were discharged by general Knox. At the end of that period, in 1794, he obtained a reluctant consent from Washington to retire, in order that he might adequately provide for his family, the salary attached to his office being insufficient for that purpose. He then settled in the District of Maine, where he possessed a large tract of land, in the right of his wife; but he did not abandon entirely public life, being repeatedly induced to become a member both of the house of representatives and of the council of the state. In 1798, when our relations with France wore a hostile aspect, he was called upon, amongst others, to command in our army ; but the peaceful turn which affairs took allowed him soon to return to his retirement. He died Oct. 25, 1806, at his seat in Thomaston, Maine, at the age of 56. His death was caused by internal inflammation, the consequence of swallowing the bone of a chicken. Gencral

Knox was as amiable in private as he was cminent in public life. His social and domestic qualities were of a kind to render him warmly beloved and admired by all who possessed lis affection and friendship. Iis imagination was ardent, and his understanding sound, and he had in1proved his mind greatly by study. His integrity was unimpeachable, aud his courage and perscverance were unsurpassed.

Kobold, in Germany; a spirit which differs from the spectre in never having been a living human crcature. It corresponds to the English goblin. The kobold is comected with a house, or a family, and appears in bodily shapc. Though inclined to mischievous teazing, they do, on the whole, more good than evil to inen, except when irritated. In the mines, they are thought to appear, sometimes in the shape of a blue flame, sometimes in that of a dwarfish child, and to indicate rich veins. They do the miners mischief when disturbed by them.

Koch, Christopher William, professor of law at Strasburg, and a writer well versed in the history of the middle ages, born 1737, at Buxweiler, in Alsace, conducted the school for teaching public law in Strasburg with such success, that scholars flocked thither from the most distant countries. In 1761, Koch published his Commentatio de Collatione Dignitatum et Beneficiorum ecclesiasticorum in Imperio Germanico, and, in 1789, his Commentary upon the Pragmatic Sanction. In Paris, he collected (1762) materials for the continuation of the Historia Zaeringo-Badensis, which appeared under the name of Schoepflin, who, however, had only composed the first volume. In 1780, Joscph II conferred upon Koch the rank of nobleinan. He remained a professor in Strasburg, until the university was broken up. In 1789, he was sent as deputy to Paris, by the Protestants in Alsace, in order to obtain the acknowledgment of their civil and religious freedom, which was effecter by the decrec of the 17th August, 1790. After the breaking out of the revolution, he was sent, by the department of the Lower Rhine, as deputy to the legislative assembly, where he showed himsclf a friend to constitutional monarchy. The anarchists threw him into prison, from which he was not delivered till after 11 months' confinement, and the overthrow of Robespierre. In 1802, he was appointed a member of the tribunate, in which capacity he did much for the restoration of order in church affairs, and the
reëstablishment of the Protestant university in Strasburg. After the dissolution of the tribunate, Koch refused to fill any other office ; but the govermment granted him, without any solicitation on his part, a salary of 3000 francs, and, in 1810, the title of rector in the university at Strasburg. He died Oct. 25, 1813. Besides the above-named works, he is the author of the following: Tables généalogiques des maisons souveraines de l'Europe (Strasburg, 1782-1784); Hist. abrégée des Traités de Paix depuis la Paix de Westphalie (Basil, 1791, 4 vols.; continued by Schőll, Paris, 1818, 15 vols.); Tableau des Révolutions de l'Europe depuis le Bouleversement de l'Empire Romain en Occident (Basil, 1802, Paris, 1814 et seq., 4 vols.); and Table des Traités entre la France et les Puissances etrangères depuis la Paix de Westphalie; with a new collection of diplomatic documents (Basil, 1802). Koch was a man of great acuteness, equanimity, patience, and nobleness of character.

Koenig; German for king; prefixed to many geographical names, as, Königsberg (king's mountain).

KOH; an Indo-Germanic word, signifying mountain; e. g. Hindookoh (mountains of India).

Kola; a seaport of Russia, the chief town in Russian Lapland (now called the circle of Kola), in Archangelskoe; 540 miles N. Petersburg; lon. $33^{\circ} 0^{\prime}$ E.; lat. $68^{\circ} 3 y^{\prime} \mathrm{N}$. ; houses, 50 ; churches, 2. It is situated near the North sea, on the river Kola, which forms a bay at its mouth, where is a considerable fishery for whales, sea-dogs, and other fish, which the inhabitants cure for sale. The circle, including the whole of Russian Lapland, is very dreary and thinly peopled, supposed to contain not more than 2000 inhabitants.

Kolberg. (See Colberg.)
Kolin. (See Colin.)
Koller, baron of ; Austrian field-mar-shal-lieutenant; one of the commissioners who accompanied Napoleon, in 1814, to Elba, after his abdication. Koller had to protect Napoleon against a rabble infuriated by pricsts and ultras, and always preserved the grcat coat of Napoleon, who had put on his (Koller's) uniform, in order to be less exposed to danger. When Koller returned from Elba, he fulfilled Napoleon's wish to conclude a treaty of commerce between Genoa and Elba. The conduct of Koller is highly praiseworthy, if we consider how much the passions of men were excited against Napoleon, and how much a liberal treatment of him was misconstrued. Gencral Koller afterwards
served with the Austrian army in Naples. He died Aug. 23, 1826. He left an excellent collection of antiques.

Kom, or Com, or Koom (ancient Choa$n a)$; a town of Persia, in Irak; 150 miles N. Ispahan ; lon. $51^{\circ} 14^{\prime}$ E.; lat. $34^{\circ} 20^{\prime}$ N. ; population, about 15,000 . It is said to have contained, formerly, 15,000 houses, but is now much reduced, and exhibits extensive ruins. It is esteemed by the Persians a holy city, and has a celebrated mosque, and an asylum for debtors, who are protected and supported. One of the mosques is highly esteemed by the Persians, because of the sepulchres of Shah Sophy and his son Shah Abbas II, and that of Sidy Fatima, grand-daughter of Mohammed. These tombs are frequented by pilgrims from all parts of Persia, who resort hither once a year to pay their devotions. Kom is celebrated for manufacturing the best sabres and poniards of all Persia. The walls of the town are lofty, and it has seven gates. The grand bazar crosses the town from one gate to the other; besides which, there are others well furnished with coffee-houses, and shops of various kinds. The country round about is fertile in rice and fruit.

Komorn, the capital of the county of Komorn, in Hungary, with 11,500 inhabitants, has a gymnasium, and carries on some commerce. On the island of Schütt, 2000 paces distant, between the Waag and Danube, is a fortress, recently erected, which is rendered almost impregnable by nature and art.

Königsberg (that is, king's mountain); the capital of Prussia Proper, seat of many civil and military authorities, and superior judicial tribunals ; 63,800 inhabitants ; 4108 houses; lat. $54^{\circ} 42^{\prime} 12^{\prime \prime} \mathrm{N}$. ; lon. $20^{\circ} 29^{\prime} \mathrm{E}$. It is situated on the Pregel, not far from the influx of this river into the Frische Haff. Königsberg is an important seaport of the Baltic, and formerly belonged to the Hanseatic league. It has some considerable buildings, as, for instance, the cathedral, with the tombs of the grand masters of the Teutonic order and the dukes. The university of Königsberg was founded in 1544, by the margrave Albert II, duke of Prussia, and has at present 300 students. It is largely endowed for poor students. The library contains 60,000 volumes. The astronomer Bessel is a professor of this university. Kant taught here a long time. Large vessels cannot sail up to the city, but they are obliged to remain at Pillau, the fortress and port of Königsberg. Its commerce has very much declined.

Kövigsmark, Maria Aurora, countess of, one of the many mistresses of Augustus II, king of Poland and elector of Saxony, born about 1678 , was descended from one of the oldest families of Brandenburg. She was one of the most celebrated women of her age, on account of her personal charms and uncommon talents, and of the part which she performed in politics. While a girl, she wrote and spoke Swedish, German, French, Italian and English, read the classics in the original, had an extensive knowledge of history and geography, and even composed poems in French and Italian. She played on several instruments, composed music, and sang and painted with great skill. Several proofs of her talent for painting still remain at Quedlinburg. She had also a delicate wit and fine powers of conversation. Thus gifted and accomplished, she arrived, in 1694, in Dresden, with her two sisters. The elector fell in love with her at first sight. She rejected, for a long time, all his offers, though he tried every means to gain her: at last she yielded, and appeared at court as his mistress. She bore him a son, the famous marshal Saxe. (q.v.) But when the passion of the fickle king cooled, the countess knew how to sustain her misfortune with dignity; and he always remained on terms of friendship with her. By his influence she was appointed, by the court of Vienna, superintendent of Quedlinburg (in 1700), where she resided, at intervals, until her death. The king's esteem for her talents appears from the circumstance that he sent her, in 1702, to Charles XII, to negotiate a peace; but Charles refused to see her. She died in 1728. She was beloved by all around her, and very benevolent towards the poor. Her brother, count Philip Christopher, the last male of this family, was assassinated, in 1694, in the castle of Hanover, by the order of the elector Ernest Augustus, because he had offered to assist the princess Sophia Dorothea (who died in prison at Ahlen, 1726) in her projected flight.

Königstein; a mountain-fortress, on the Elbe, in the kingdom of Saxony, not far from the frontier of Bohemia. It is impregnable. A solitary mountain of sandstone rises 1400 feet almost perpendicularly: the surface is more than a mile in circumference. But the fortress is of no military importance, as it cannot serve for a rallying point or point of support for an army, nor impede the march of an enemy. It is very useful, however, as a place of deposit for precious articles, for
instance, the invaluable pictures of the Dresden gallery, in times of war. It cannot be undernined, nor can it be reduced by cutting off its supplies, as the small garrison necessary to hold it, can raise grain enough for their subsistence on the top of the mountain. There is a well 1172 feet deep. About 600 people reside on the top. The cannon of the fortress command the town below it on the river Elbe. The Lilienstein (q. v.) is opposite.
Kopeck; a Russian coin. (See Copeck, and Coin.)

Kopf; German for head; appearing in many geographical words, for summit ; also, koppe.

Korals. (See Coray.)
Koran (Al-Koran, i. e. the Koran, which means originally the reading, or that which is to be read; also called al Forkan, because it is divided into 114 suras or chapters; also al Moshaf, the volume; al Kitah, the book; al Dhikr, the recollection) is the religious code of the Mohaminedans, written in Arabic by Mohammed. The parts were collected into a volume by Mohamined's father-in-law and successor, Abubekir. According to the Mohammedan doctrine, the prophet received the Koran from the angel Gabriel, written upon parchment made of the skin of the ram which Abraham sacrificed in the room of his son Isaac. The volume was ornamented with precious stones, gold and silver, from Paradise. According to other traditions, Mohammed is said to have drawn up the Koran with the assistance of a Persian Jew, rabbi Warada Ebn Nawsal, and a Nestorian monk, the abbot of the convent of Addol Kaisi, at Bosra, in Syria; but nothing certain is known respecting these two persons, though it appears beyond a doubt, less from the author's doctrines than from the expressions, his tales, and his mentioning several prophets, \&c., that he was well acquainted with the Old and New Testament, though he himself cites only the Pentateuch and the Psalms. In the 21st chapter, he represents the Almighty as saying, "I have promised, in the books of Moses and in the Psalms, that my virtuous servants on earth shall have the earth for their inheritance." A number of passages might be quoted which prove his knowledge of the whole Bible; and not only was he acquainted with the religious systems of the Jews and Christians, but also with those of the Sabæans and Magians, from all of which he seems to have drawn materials which he incorporated into a system, after the
idea of establishing a religion in his country. where numberless sects of pagans, Jews, Christians, Sabreans and Magians existed, had risen in his mind. He lived, as is well known, much in solitude, where he doubtless meditated on his doctrine, and the great mission which he thought himself callerl upon to accomplish. He does not reject the doctrines of any sect, but takes from all. He asserts that he wisles to restore the true faith to its purity. The unity of God is his fundamental doctrine, which is clearly laid down in the symbol of the Moslem-"God is God, and Mohammed is his prophet." The unity of God is the very aim of his mission, and, according to him, had been the essence and the basis of all true religion, with which ceremonies and customs were only accidentally connected. Thus he says, in the 11th chapter of the Koran, "We make no difference between that which God has taught us, and that which Abraham, Isaac, Ishmael, the twelve tribes, Moses and Jesus have learned from the Lord. We belicve in God, and are Moslem." And, in the 4th chapter, it is said, "God commands thee to receive the religion which he prescribed to Noah, which he has revealed unto thee, and which he imparted to Abraham, Moses and Jesus." Who can say whether it was the desirc of establishing pure monotheism in his country, or ambition, which led him to call himself a prophet? But even in the way in which he speaks of his inspirations, we may discern an endeavor not to deviate from ideas already adopted, or, at lcast, the evidence of his being strongly influenced by then. He professed to have nocturnal intercourse with the angel Gabriel, who brought him the Koran precisely as it stands, verse for verse, chapter for chaptcr, from heaven. In the doctrine of the Magians, the angel Gabriel is the angel of revelation. Besides the fundamental doctrine of the unity of God, the Koran establishes several other articles of faith. Thus, in chapters $4,6,7$ and 48 , the doctrine of good and bad angels is set forth, which was general with the Arabians before Mohammed. Mohammed returns nost frequently to the doctrine of the resurrection and the last judgment. The way in which he endeavors to set it forth has much similarity with that of St. Paul. He even borrows expressions from the Jewish and Christian scriptures, when he speaks of the last judgnent. In chapter 43 , it is said, "When the trumpet sounds the second time, they shall rise quickly
from the graves to appear before God ;" and further, "A sound of the trumpet of judgment will assemble all men before my throne, and every one shall there receive the reward of his deeds." In regard to the form of the last judgment, Mohammed followed the doctrines of the Jews and Magians; for instance, the passage of the narrow bridge Al-Sirat (q. v.), the book in which all the actions of men are set down, and the scale in which they are weighed. Mohammed's paradise, too, is quite Jewish and Magian. Another dogina is set forth in the Koran, yet not explicitly, that of the unchangeable decrees of God. Mohammed used the doctrine of predestination with great success, to infuse into his adherents undaunted courage, which elevated them above all perils. Probably he adopted, in this casc, views already widely spread. With the Sabæans, the belief in predestination was firmly established, and founded on the unchangeable course of the stars, and their influence upon the life and actions of men and the course of events. With the Magians this doctrine followed from their system of the good and cvil principles, and probably it had passed from both to the Arabians. In regard to religious exercises, too, Mohammed adopted such as he found, giving more universality and precision to those which were vague. The Koran prescribes prayer, fasting, alms, and the pilyrimage to Mecca. The first includes every thing relating to the purifications and ablutions, by which the faithful prepares himself for prayer. Mohammed considered this exercise of the greatest importance. When the Tayesites sent an cmbassy to the prophet to request him to absolve them from the troublesome observance of this exercise, his answer was, "Religion is nothing without prayer." "In another passage he calls prayer the "key to paradise." He surpassed the severity of the rabbis, and prescribed prayer five times a day, with the face turned towards Meccu. Turning the face, during prayer, toward a certain point, is a common custom with Orientals. It was particularly so with the Jews, Sabreans and Magians, who call the point to which they turn kebla. In the beginning, Mohammed adopted the same kebla with the Jews, i. e. the city of Jerusalem. In the second year, he changed the kebla to Mecca. The way which he prescribed for calling the people to prayer was at first that of the Jews and Christians, but he afterwards adopted another. To give alms, was always a particular trait of the

Arabians, but Mohammed made it obligatory. The pilgrimage, or something similar, had existed with most sects before hirn. In respect to the civil laws, relating to polygamy, divorce, inheritance, \&c., Mohamined followed, step for step, the laws of Moses and the decisions of the rabbis, only adapting them to the customs and prejudices of his countrymen. As for the propagation of his religion, Mohammed only requires from converts the pronunciation of the words of his fundamental doctrine; he enjoins no abjuration, no violent separation from a former faith. To the Jews he says, that he only comes to restore the faith of their fathers in its purity; to the Clristians, that Jesus is the best of prophets, and sometimes he wishes to pass with them as the Paraclete. Excepting the worship of idols, which was positively against his fundamental doctrines, he attacks few old customs; and, though he prolibits the use of inebriating liquors, and requires fasting, yet he says, "Godintended that his religion should be easy, else, as he well knew, you would only become hypocrites"-a sentiment probally caused by the state of the Christian and Jewish sects, with which he was acquainted. The description of his paradise is voluptuous and glowing. The language of the Koran is considered the purest Arabic, and contains such clarins of style and poetic beauties, that it remains inimitable. Its moral precepts are pure. A man who should observe them strictly, would lead a virtuous life. "From the Atlantic to the Ganges," says Gibbon, "the Koran is acknowledged as the fundamental code, not only of theology, but of civil and criminal jurisprudence; and the laws which regulate the actions and the property of mankind, are guarded by the infallible and immutable sanction of the will of God." The Koran repeatedly enjoins belicf in one God, and implicit obedience towards him, charity, mildness, abstinence from spirituous liquors, toleration, and ascribes particular merit to death in the cause of religion. It is ahout equal in size to the New Testament. It differs greatly from the Bible by forming one whole, instead of being a collection of very different books, unconnected with each other. The divisions sometimes have strange inscriptions. Many elevated passages adorn the Koran, but it often becomes tedious by its repetitions. The Koran is daily read once through in the mosques of the sultan and the adjoining chapels. (Sce Islann, and Mohammed.) It was first printed by Alex. Pagani-
nus Brixiensis, at Venice, according to some about 1509, according to others. in 1518, or as late as 1530 . In Thesei Ambr. Albonensii Introd. in Chaldaic. Lingıam (Pavia, 1539), this edition is mentioned, and a passage cited, with reference to the sheet and the page; it has, therefore, certainly existed, but no copy is to be found in any library. The earliest edition, at present known, is by Abr. Hinkelmama (Hamb., 1694, 4to.); another, with a Latin translation (Padua, 1698, fol.); still another was publislied by order of Catharine II, by Mollah Usman Ismael (Petersburg, 1787, small folio; new edition, 1790 and 1793; reprinted, Kasan, 1809, fol.; another ed., Kasan, 1803, large 4to.); Latin translations after that of Robertus Retinensis (Ketenensis) (Bale, 1543, fol. ; new ed., Zurich, 1550, fol.); one also by Reineccins(Leipsic,1721); an Italian translation, made after the Latin (Venice, 1547, 4to.) ; French translations by And. du Ryer (Paris, 1649; Leyden, $1672,12 \mathrm{mo}$. , and the Hague, 1683 or $1684,12 \mathrm{mo}$.), with the introduction by Sales, ( 2 vols., Amsterdam, 1770 or 1775, 12mo.); by Savary, (Paris, 1782, 2 vols.; new ed., Ainst., 1786 , 2 vols. ; and Paris, 1798 (an VII); English versions, by Sale (London, 1734, 4to., 1764, 1801, and 1812.) The edition of London (1649, 4to. ; new edition, 1688 ) is merely translated from the French translation of Du Ryer; German translation by Scliweigger (Nuremberg, 1616; 2d edit., 1623). The Italian translation has been followed in that of Megerlin (Frankfort on the Maine, 1722), that of Boysen (Halle, 1775), and that of Augusti (Weissenfels and Leipsic, 1798). A Dutch translation of the Koran appeared at Hamburg (1641), (after Schweigger's German Koran), and another by Glazemaker (Rotterdam, 1698). A vocabularium of the Koran was published by Willimet and Nodockum ool Foorkan (Calcutta, 1811, 4to.)

Kornach, in the East Indies; an elephant driver and keeper.

Körner, Theodore; a German poet, particularly celebrated for the spinited poems which he composed in the campaign against Napolcon (1813), in which he fell. He was born in 1791. His father often received Schiller and Göthe in his house at Dresden. Körner first studied mining at Freyburg. In 1810, he went to the university of Leipsic, where his ardent temperament led lim into acts of imprudence, which obliged him to leave Leipsic. He went to Vienna, where he wrote several dramas. In 1813, when all Germany took up arms against Napoleon

Körner served in the corps of Lützow, a Prussian officer. In the battle of Kitzen, he was severely wounded in the head, but recovercd during the armistice, and, Aug. 26, 1813, fell on the field of battle, pierced by a ball. An hour before, lic hrad finished lis famous song, the Address to his Sword, and read it to his comrades. An iron monument slows the place where lie rests under an oak tree, near the village of Wöbbelin, in Meckleuburg. His father has published 32 of his war songs, under the title Leier und Schwert-Lyre and Sword (Berliu, Gth editiou,1824). Many of these pooms have been set to music by Wcher, and, taken as a whole, are unique. Tliey have all become national in Germany. Körner's father also published his other works.

Kosciusko, Thaddeus, the last gencralissimo of the republic of Poland, one of the noblest characters of his age, was dcsecnded from an ancient and noble, though not rich family, in Lithuania, and was boru in 1756. He was educated in the military school at Warsaw. The priuce Adam Czartoriski, perceiving his talcnts and industry, madc hin second licutenant in the corps of cadcts, and sent him, at his own expense, to France, where hc studied drawing and the military art. After his return, he was made captain. But the consequences of an unlappy passion for the daughter of Sosnowski, marshal of Lithuania (who was afterwards married to the prince Jos. Lubomirski), obliged him to leave Poland. Solitary studies, particularly in history and mathematics, and an elevated character, prepared him for the struggle for freedon, in which lic engaged under Washington, who made him lis aid. Hc distinguished himeelf particularly at the siege of Ninety-Six, and was very lighly esteemed by the army and the commander-iu-chief. He and Lafayette were the only foreigncrs admitted into the Cincinnati. Kosciusko received the rank of general, and, in 1786, returned to Poland. When the Polish arny was formed (1789), the diet appointed lim a major-gencral. He declared himself for the constitution of May 3, 1791, and served under prince Josephi Poniatowski. In the campaign of 1792, he distinguished himself against the Russiaus at Zielencel and Dubicuka. At the latter place, under cover of some works which he had thrown up in the course of 24 hours, he repulsed, with 4000 men, three successive attacks of 18,000 Russians, who prevailed ouly after the loss of 4000 men. Kosciusko retired vol. vir.
without having suffered severcly. When king Stanislaus sulbmitted to Catharine, lie, with 16 other officers, left the arny', and was, therefore, obliged to retire from Poland. He went to Leipsic ; and the legislative assembly of France, at this tiuse, gave him the rights of a Frenclı citizeu. Thic Polcs becoming impatient under the oppression of Russia, some of Kosciusko's friends in Warsaw deternined to makc an effort for the libcration of their country: They chose Kosciusko their general, and made limn acquainted with their plans. Ile imparted them to the counts Ignatius Potocki and Kolontai in Dresden, who thought the enterprise injudicious. Kosciusko, lowever, went to the frontier, and sent general Zajonczeck and general Dzialynski into the Russian provinces of Polaud, to prepare every thing in silence. But when the Polish army was merged, in part, in the Russian, and the remainder reduced to 15,000 men, the insurrection broke out bcfore the time fixed on. In Posen, Madalinski forcilly opposed the dissolution of his regiment. All now flew to arms; the Russian garrison was immediately expelled from Cracow. Just at this moment, Kosciusko entered the city. The citizens now formed the act of confederation of Cracow (March 24, 1794), and Kosciusko, at their liead, called upon the Poles to restore the constitution of May 3. Kosciusko then advanced to meet the Russian forces. Without artillcry, at the head of only 4000 men, part of whom were armed only with scythes and pikes, he defeated 12,000 Russians at Raclawice (April 4, 1794). 1 is army was now increased to 9000 men, and he formed a junction with gencral Grochowski. In the mean time, the Russian garrisons of Warsaw and Wilna had been put to dcath, or made prisoners. Kosciusko cliccked the outbrcak of popular fury, scnt troops against Volhynia, and organized the govermment at Warsaw. He marched out of the city, with 13,000 inen, to oppose 17,000 Russians and Prussians, attacked them at Szezekocini Juue G, but was defeated after an obstinate conflict. He retreated to his entrenched camp before Warsaw. The Prussians took Cracow. Disturbances broke out, in consequence, in Warsaw, June 28. The people murdered a part of the prisoners, and hung some Poles who were connected with the Russians. But Kosciusko punished the guilty, and restored order. The king of Prussia now formed a junction with the Russians, and besieged Warsaw with 60,000 men. Kosciusko, however,
kept up the courage of his countrymen. After two months of bloody fighting, he repelled, with 10,000 men, a general assault. All Great Poland now rose, under Dombrowski, against the Prussians. This circuinstance, together with the loss of a hody of artillery, compelled the king of Prussia to raise the siege of Warsaw. Thus this bold general, with an army of 20,000 regular troops and 40,000 armed peasants, maintained himself against four hostile armies, amounting together to 150,000 men. His great power cousisted in the confidence which his fellow citizens reposed in him. The nephew of the king, once his general, served under him. Kosciusko had unlimited power in the republic, but he displayed the integrity of Washington and the activity of Cæsar. He attended to procuring supplics, superintended the raising and payment of money, and prevented plundering and fraud, and was equally active in the council and the field. His days and nights, all his powers were devoted to his country. He sccured the administration of justice, abolished bondage, and finatly restored to the nation, May 29 , in the supreme national council which he established, the great power which had been delegated to him. Catharinc at Iength decided the contest by an overivhelming superiority of nuinbers. Suwaroff defeated the Poles under Sierakowski at Brzec, in Volhynia, September 18 and 19. Repuin penctrated through Lithuania, and formed a union with Suwaroff; general Fersen was to support them with 12,000 men. To prevent this, Kosciusko marched from Warsaw with 21,000 men. Poninski was to have supported him with lis division ; but the Russians intercepted the messenger. The united Russian armies under Fersen attacked the Poles, who were not more than one third as strong as the Russians, October 10, at Macziewice (about 50 miles from Warsaw); they were three times repulsed, but, on the fourth attack, they broke through the Polish lincs. Kosciusko fell from his horse covered with wounds, exclaining, "Finis Polonia," and was made prisoner by the enemy. In losing him, his country lost all. Suwaroff storined Praga November 4; Warsaw capitulated on the Gth; Madalinski left Great Poland; an Austrian army appeared before Lublin. But the noblc efforts of the conquercd liad a wakened the regard of Europe towards the unhappy country, and the dearest hopes of the nation-the restoration of their monarchy, with a free constitution-found a
powerful support in public opinion. Catharine caused the hero and his noble colleagues, who were prisoners of war, to be thrown into a state-prison. Paul I gave them their liberty, and distinguished Kosciusko by marks of his estecm. IIc presented his own sword to the general, who declined it with these words-"I no longer need a sword, since 1 have no longer a country." To the day of his death, he ncver again wore a sword. Paul then presented lim with 1500 peasants, and his friend Nicincewicz, the poet, with 1000 . When on the Russian frontier, Kosciusko declined this present by a Icter. He and lis firend now went by the way of France and London, where Kosciusko was treated with distinction, to America (1797). His fortunc was very small. On his return to his native comntry after the war of the revolution, he had received a pension from America, and he now found there such a reception as he descrved. In 1798, he went to France. His countrymen in the Italian arny presented to him the sabre of Jolin Sobieski, which had been found (1799) at Loretto. Napolcon afterivards formed the plan of restoring Poland to its place among the nations, and thus, at the same time, injuring Russia and extending lis own power over the east of Europe. But Kosciusko would take no part in this struggle, which was conducted by Dombrowski, in 1807 and 1808, being prevented less by ill health than by having given his word to P'aul I never to serve against the Russians. To Napoleon's proposals he answered, that "he would exert himself in the cause of Poland, when lic saw the country possessed of its ancient territories, and liaving a free constitution." Fouché tricd every means to carry him to Poland. An appeal to the Poles, which appeared under his name in the Moniteur of November 1, 1806, he declared to be spurious. Having purchased an estate in the neighborhood of Fontaincbleau, he lived there in retirement until 1814. April 9, 1814, he wrote to the emperor Alcxander to ask of him an amnesty for the Poles in foreign lands, and to request him to become king of Poland, and to give to the country a frce constitution, like that of England. In 1815, he travelled with lord Stewart to Italy, and, in 1816, he settled at Soleure. In 1817, he abolished slavery on his estate of Siecnowicze, in Poland. Hc afterwards lived in retirement, enjoying the socicty of a few friends. Agriculture was his favorite occupation. A fall with his horse from a precipice, not
far from Vevay, occasioned his death, Oct. 16, 1817, at Soleure. He was ncver married. In 1818 , prince Jablonowski, at the expensc of the emperor Alexandcr, removed his body, which, at the request of the scnate, the emperor allowed to be deposited in the tomb of the kings at Cracow. A monument was also erected to his memory, and the women of Poland went into mourning for his loss.

Kosegarten, Louis Thcobul, a poet and prcacher, was born Feb. 1, 1758, at Grevesmúhlen, a small town of Mecklenburg, studicd at Greifswald, was for a long time a tutor in the family of a nobleman in Pomerania, became, in 1792, a preacher at Altenkirchen, in the island of Rugen, and was made, in 1793, doctor of theology. Upon this patriarchal island he lived in the enjoyment of nature, his family, poetry, literature, and in a faithful discharge of the duties of his office, a number of happy years, till he received, in 1807, an invitation to a professorship at Greifswald. He died there, Oct. 26, 1818, rector of the university, in the 61st year of his age. The frnits of his leisure hours-his romances, for instance, Ida von Plessen (2 vols.); his rhapsodies, his legends, his epic-idylic poems Jukunde, and the Inselfahrt ; his patriotic songs; several translations, of which Richardson's Clarissa is the most distinguished-have obtained for him no mean rank in German literaturc. His muse, often full of natural power and fire, frequently ruus into bombast and prolixity. His collected poems appeared at Greifswald, 1824, in twelve volumes.

Kosloff, Iwan, a Russian nobleman, born about 1780 , passcd lis youth in the great world. In the social cireles of the nobles of Moscow and St. Petersburg, he led an animated rather than a busy life. His genius was not as yet awakened; still he loved litcrature, was master of the French and Italian languages, and familiar with their classics. But he had recourse to these studies only when in want of occupation, and to recruit his mind exhausted by dissipation. His activity was mainly devoted to the pleasures of the world and the care of his family. When about 40 years old, he was attacked with a severe sickness, which deprived him of the use of his feet. Removed thus at once from the company which he loved, loneliness compelled him to seck in himself an indemnification for the loss of worldly plcasurc. 'This stroke did not prostrate him: on the contrary, his mind took a higher flight. He became a poet. The
ideal world which he now inhabited indemnified him fully for the reality of which he was deprived. Upon his bed of pain, he learnt to know himself, and discovered in himself a talent hitherto unknown to him. In a short time, be made himself familiar with the English language and literature. Yet a more severe trial awaited him: he lost his sight. This misfortune did not depress his courage: on the contrary, he made it a means of moral and spiritual elevation. With his blindness burst forth his poetic spirit. He soon commenced the study of the German language, and made hirnself acquaintcd with the classical poetry of Germany. Since then Kosloff has lived in the world of recollection and of fancy. He is endowed with an extrandinary memory, and retains every thing which he learns. He writes poetical epistles to his friends, who gather around him, not to clieer him, but to delight themselves with his conversition. That providence which veiled his eyes, said to lis soul, "Let there be light." His conversation is rich and full of spirit. Notwithstanding the trifling character of his early life, he takes a lively interest in all that is noble, great and manly. Kosloff has made some very good translations from English and Italian poetry. His Monk, in poetic power, reminds one of Byron's Giaour. His translation of the Bride of Abydos was published at St. Petersburg, 1826. Kosloff has of late been cmployed on a great work, the materials of which are taken from Russian history, in the time of the empress Anne.

Kotrah (Sanscrit, for divelling); the ending of a great number of Hindoo gcographical naines, like the German Heim (q. v.) and the English ham. (q. v.)

Kotzebue, Augustus Frederic Ferdinand von, a prolific German writer, was born May 3, 1761, at Weimar. At the age of 16 years, he entered the university of Jena, where his inclination for the drama, already awakened at Wcimar by the celebrated company of players in that city, was confirmed by his connexion with a private theatre. The marriage of his sister to a gentleman of Duisburg induced him to enter the university, then at that place; but, in 1779 , he returned to Jena, and studied law; without, however, ceasing to compose for the theatre. On leaving the university, he was admitted a lawyer. He imitated Schiller, Göthe, Wieland, Hermes, Brandes and Musreus. In 1781, he went to St. Petersburg, at the suggestion of the Prussian minister at that court, and became secretary to the gov-
ernor-general, Von Bawr, who died two years afterwards. He had, however, recommended Kotzebue to the cmpress, and she became his patroness. He was finally appointed president of the government of Esthonia, and, as such, was emnobled; in consequence of which he wrote his work On Nobility, in which he defended this institution, after having often attacked it as a poet. In 1790, on a journey to Pyrmont, he published his notorious Doctor Bahrdt with the Iron Forehead, under the name of Knigge, by which he sunk greatly in the public esteein. In 1795, he retired to a country place about 35 miles from Narva, in Esthonia, but soon after removed to Weimar, with a pension of 1000 guilders, and again returned to Petersburg, where his sons were educated in the inperial military school. Although he had i passport, yet, on his arrival at the firontiers, he was arrested, and sent to Siberia, without learning the reason. A small drana of his, an indirect eulogy of Paul I, was translated into Russian, and laid, in manuscript, before the emperor, who was so delighted with it, that he recalled Kotzebue, and took him into fivor. After the death of this emperor, he again went to Germany. In 1802, he was chosen member of the academy of sciences of Berlin,-ly what intrigues we do not know,-and, with Merkel, formed a party against Göthe and schlegel, in which contest the latter, of course, were much superior: In 1806, he went again to Russia, to avoid the French, and lived, from 1807, on his estate Scliwartze, in Esthonia, never ceasing to write against Napoleon. In 1813, as counsellor of state, he followed the Russian head quarters, constantly writing to excite the nations against Napoleon, and published, in Berlin, the Rus-siiu-Gerınan National Gazette (Volksblatt). In 1814, he produced a very poor history of the German empire. He had already proved himself totally unfit for a historian by his Early History of Prussia (Riga, 1809). In 1817, he reccived a salary of 15,000 roubles, with directions to reside in Germany, and to report upon literature and public opinion. Kotzebue, who, during the whole campaign, had written in favor of the Russians, even at the expense of his native country, was now considered by most Germans as a spy. He established the Literary Weekly Paper, in which he passed judgment on the publications of the day, and advanced political opinions equally dishonorable and obnoxious to Germany, ridiculing every attempt at liberal institutions. The
state of things before the Frencli revolution was his standard of perfection. Kotzebue was regardcd with aversion by the liberal party in Gcrmany, as an enemy to the freedom of his country; and among the young and ardent, his ridicnle of their noblest sentiments and most cherished hopes awakened bitter hatred. This feeling was so strong in the case of a young enthusiast named Sand (q. v.), that he formed the plan of putting Kotzebue to death, as the enemy of his country, and deliberately murdered him, March 23, 1819, after which he immerliately gave limiself up to justice. Kotzebue was threc times married, and left 13 children. His best productions are his comedies, which scem to be much more popular with foreigness than with Germans. A sickly sentimentality in his graver drannas, and the insipidity of his comedies, are seldom redecmed by higher excellences. Ife wrote 98 dramas. As a historian, he deserves to be mentioned ouly for a few documents reprinted in his Prussian Itistory.

Kotzebue, Otto von; soll of the preceding; captain in the Russian navy. He served as midshipman under Krusenstern (q.v.) on his voyage round the world. In 1814, he himself made a voyage round the world, at the expense of count Romanzoff, in the ship Rurik, and returned in 1818. In 1824, he undertook a third voyage round the wortd, as conmander of an imperial man-of-war, discovered two islands in the South sea, reached Kamtschatka in June, 1824, and retumed, in July, 1826, to Cronstadt. It docs not appear that Von Kotzebue's voyages have been of great service to science. (See Neue Reise um die Fcll in den Jahren 1823, 24, 25, und 26, von Otto von Kotzebue [English, London, 1830], 2 vols., Weimar and St. Petersburg, 1830.)

Kouli Khan. (See Nadir Shah.)
Kourd ; strong, robust ; a Persian word. Hence the name of Kurdes, Kourdes, or Curdes, and Curdestan.

Kraken, Kraxey, or, as some call it, Krabben ; that word, says Pontoppidan, bishop of Bergen, being applied, by way of cininence, to the fish otherwise called horven, soe-horven, ancker-troll and kreuzfisch, "incontestably," as observes the same naturalist (whose description of it we shall give in a translation of his own words), "the largest sea-monster in the world. It is round, flat, and full of branches. The Norwegian fishermen unanimously affirm, and without the least variation in their accounts, that, when they row out several miles to sea, particularly
in the hot summer days, and, by their situation (whieh they know by taking a view of certain points of land), expect to find 80 or 100 fathoms water, it often happens that they do not find above 20 or 30 , and sometimes less. At these places, they generally find the greatest number of fisli, especially eod and ling. Their lines, they say, are no sooner out, than they may draw them up with the hooks all full of fish; by this, they judge that the kraken is at the bottom. They say this creature causes these unnatural shallows mentioned above, and prevents their sounding. These the fishermen are always glad to find, looking upon them as a means of their taking abundance of fish. There are sometimes 20 boats or more got together, throwing out their lines at a moderate distance from each other, and the only thing they have to observe is, whether the depth continues the same, which they know by their lines, or whether it grows shallower, by their seeming to have less water. If this last be the case, they find then the kraken is raising himself nearer the surface, and then it is no time for them to stay any longer; they immediately lcave off fishing, take to their oars, and get away as fast as they can. When they have reached the usual depth of the place, and find themselves out of danger, they lie upon their oars, and, in a few minutes after, they see this enormons monster come up to the surface of the water. He there shows himself sufficiently, though lis whole body does not appear, which, in all likelihood, no human eye ever beheld, excepting in the case of one of the young of this species, which shall afterwards be spokeu of. Its back or upper part, which seems to be in appearance about an English mile and a half in cireumferencesome say more, but I choose the least for greater certainty-looks at first like a number of small islands, surrounded with something that floats and fluctuates like sea-weeds. Herc and there, a large rising is observed, like sand-banks, on which various kinds of small fishes are secn continually lcaping about, till they roll off into the water from the sides of it. At last, several bright points or horns appear, which grow thieker and thicker the higlier they rise above the surface of the water, and somctimes they stand up as high and large as the masts of middlesized vessels. It seems these are the creature's arms; and it is said, if they were to lay hold of the largest man-of-war, they would pull it down to the bottom. After this monster has been on the surface of
the water a short time, it begins slowly 10 sink again; and then the danger is as great as before, because the motion of his sinking causes such a swell in the sca, and such an eddy or whirlpool, that it draws every thing down with it." The arms above described are conjectured to be tentacula, and the kraken itsclf to be an enormous polypus. Besides these arms, "the great Creator has also given this ereature a strong and peculiar scent, which it can emit at certain times, and by means of which it beguiles and draws other fish to come in heaps about it." During many months, the kraken is continually employed in eating; during many others, in carrying on the very last process which succeeds digestion ; and this operation is so peculiarly agrceable to "the smell and taste of other fishes, that they gather together from all parts to it, and keep for that purpose directly over the kraken: he then opens his arms or horns, seizes and swallows his welcome guests, and converts them, after the due time, by digestion, into a bait for other fish of the same kind. I relate what is affirmed by many; but I cannot give so certain assurance of this particular as I can of the existence of this surprising creature, though I do not find any thing in it absolutely contrary to nature. As we can hardly expect an opportunity to examine this enormous seaanimal alive, I am the more concerned that nobody embraced that opportunity, whieh, according to the following account, once did, and perliaps never more may offer, of seeing it entire when dead. The reverend M. Friis, consistorial assessor, minister of Bodocn, in Nordland, and vicar of the collcge for promoting Christian knowledge, gave me, at the latter end of last year, when he was at Bergen, this relation, which I deliver again on his credit. In the year 1680, a kraken, perhaps a young and careless one, came into the water that runs between the rocks and cliffs in the parish of Alstahoug, though the general custom of that creature is to kcep always several leagues from land, and thercfore, of course, they must die there. It happened that its extended long arms or anteunx, which this creature seems to use like the snail, in turning about, caught hold of some trees standing near the water, which might easily have been torn up by the roots; but, besidcs this, as it was found afterwards, he entangled himself in some openings or clefts in the rock, and therein stuck so fast, and hung so unfortunately, that he could not work limself out, but perished and putre-
fied on the spot. The carcass, which was a long while decaying, and filled great part of the narrow channel, made it almost impassable by its intolerable stencl.". The animal seen by the reverend Donald Maclean, of Sinall Isles, and attested by him in a letter to the Wernerian Natural History Society of Edinburgh, though not quite so large as the Norwegian kraken, certainly tends to confirm a belief that, with due allowance for exaggeration, monsters of a larger size than philosophy has dreamed of, really do exist in the Northern seas, or, in the well-expressed phrase of doctor Barclay, in his paper relating to this amimal, that there are "grounds sufficient to a waken the curiosity of naturalists, who, it were to be wished, were always men of accurate discrimination and sound judgment, not prone to indulge in a passion for the marvellous, 110 rapt to be infected with the silly conceit, that their knowledge of nature is already so complcte, that little of importance remains to be discovered." (Transactions of W. .V. H. S., 430.) Mr. Maclean's account is not a little curious. "According to my best recollection," says he, "I saw it in June, 1808, not on the coast of Eigg, but on that of Coll. Rowing along that coast, I observed, at about the distance of half a mile, an object to windward, which gradnally excited astonishment. At first view, it appeared like a small rock. Knowing there was no rock in that situation, I fixed ny eyes ou it close. Then I saw it elevated eonsiderably above the level of the sea, and, after a slow movement, distinctly perceived one of its eyes. Alamned at the unusual appearance and magnitude of the animal, I steered so as to be at no great distance from the shore. When nearly in a line betwixt it and the shore, the monster, directing its head, which still continued above water, towards us, plunged violently under watcr. Certain that he was in chase of us, we plied hard to get ashore. Just as we leaped out on a rock, taking a station as high as we conveniently could, we saw it coming rapidly under water towards the stern of our boat. When within a few yards of the boat, finding the water shallow, it raised its monstcr-head above water, and, by a winding course, got, with apparent diffieulty, clear of the crcek where our boat lay, and where the monster seemed in danger of being embayed. It continued to move off" with its head above water, and with the wind, for about half a mile, before we lost sight of it. Its head was rather broad, of a form somewliat oval;
its neek somewhat smaller ; its shoul-ders-if I can so term them-considerably broader ; and thence it tapered towards the tail, which last it kept pretty low in the water, so that a view of it could not be taken so distinctly as I wished. It had no fin, that I could perceive, and secmed to me to move progressively by undulations up and down. Its length I believed to be from 70 to 80 feet. When nearest to me, it did not raisc its liead wholly above water, so that, the neck being under water, I could perceive no slining filiments thereon, if it had any. Its progressive motion under water I took to be rapid, from the slortness of time it took to come up to the boat. When the head was above water, its motion was not near so quick; and when the head was most elevated, it appeared evidently to take : riew of distant objects. About the timic. I saw it, it was seen about the island of Canua. The crews of 13 fishing boats, 1 an told, were so much terrified at its appearance, that they, in a body, fled from it to the nearest creek for safety. On the passage from Rum to Canna, the crew of one boat saw it coming towards them with the wind, and its head above water. Oue of the ercw pronounced its head as large as a littlc boat, and each of its eyes as large as a plate. The men were much terrified, but the monster offered them no molestation. (Id. 442).-The appearance described by Mr. Maclean calls to mind the sea-serpents which have been so often reported, of late years, as seen on the coast of New England. Whatever may be the animal which has given rise to these stories, the kraken described by Pontoppidan can hardly be supposed to be a real cxistence. The story probably grew out of the appearance of islands which have risen above the sulfacc of the sea, and become again submerged, or of rocks only visible at particular seasons, or of floating islands, \&c. The young kraken which he describes was probably some large sea-monster, whose appearance had become inuch exaggerated in the course of narration.

Krasach, Lucas. His proper name was Sunder or Sünder, but he was callel Kranach, from the place where he was bon (14\%2), in1 the bishopric of Bamberg. He went to Coburg, after having learned is hittle of the art of painting from lis father, who was a form-cutter and card-painter. The elector Frederic the Wise admitted him to his court. IIe acconpanied him on lis journey to Palestine, in 1493. In 1504, lie was appointed paintcr to the
elector and his brother, Juke Jolin Frederic, was made a noble, and, in 1537, burgomaster of Wittenberg, accompanicd the elector John Fredcric in lis captivity to Inspruck, returned with him, and died in 1553 , at Weimar. He painted much, and the quid pro quo of the stone-cutter, who put on his tomb-stone pictor celerrimuss (the quickest painter), instead of pictor coleberrimus (the most famous), was not inappropriate. -His son, of the same nane, who was also burgomaster at Wcimar, where he died in 1586, may have painted many of the pieces ascribed to Krauach. We are most indebted to Kranach for his portraits of Luther, Melanchthon, and other persons, famous at the time of the reformation. His historical paintings always seemed to us dull histories indeed, and his numerous representations of Adam and Eve are little better than libels on the work of creation.

Krasickı, Ignatius, count of Sietzen, archbishop of Gncsna, a poct and author, was born at Dubiecko, February 3, 1735. When the partition of Poland, in 1772, obliged him to give up his office in the senate of the republic, he turned his attention to science. He excelled in describing the ridiculous in the national customs of his country. His conversation was agrecable and witty. Frederic the Great once said to him, "I hope, Mr. Archbishop, you will carry inc under your cpiscopal cloak into Paradise." "No, sire," answered Krasicki, "your majcsty has cut it so short, that it will not serve for smuggling." Among the works of this poet are his mock-heroic poem La Mycheide, or La Souriade, in 10 cantos, translated into French, the subject of which is from the ancient chronicle of bishop Kadlubek, which describes how mice and rats eat up king Popicl; also his War of the Monks (La Monomachie), in six cantos, perhaps lis nasterpiece. Frederic the Great is said to have induced him to write it, when he lodged him in the room in Sans Sonci, where Voltairc had lived, with the intination that it would doubtless inspirc him with poctical idcas. His Antimonomachie, also in six cantos, has less merit. Several of his fables are classic; not so his satires. The War of Choczim, in twelve cantos, describing the victory of Choczkiewi over sultan Osinan, under the reign of Sigismund, has too much of a historical character. His prose works are full of spirit. The writings of Krasicki are classical among the Poles. He dicd at Berlin, March 14, 1801. Dmachowski collected nost of his works, and published
thein at Warsaw, 1803 et seq., in 10 volumes.

Kreml, in the Tartar languages, signifies a fortress. Hence the name of Kremlin. (q. v.)

Kremlin ; part of Moscow, in the centre of the city, containing only the royal edifices and churches, particularly the residence of the cinpcror. It is surrounded by three thick walls and a deep foss, with batteries. In the Kremlin are two convents, and many churches, particularly the cathedral, in which the coronation of the Russian emperors is performed. In the church of the archangel Michacl is the sepulchre of the emperors, and bchind it the liouse of the former patriarch, where the synod now assembles, and a library is kept, which is rich in Greek and Russian manuscrints. In the castle, the imperial colleges have their scssions; the arsenal is also there. In 181?, when Moscow was burnt by the Russian authorities, part of the Kremlin was also destroyed. Whicn Napoleon left Muscow, marshal Mortier received orders to blow it up. Alcxander restored it.

Kremnitz. (See Cremnitz.)
Kronstadt. (See Cronstadt.)
Krudener, Juliana, baroness of ; born about 1766, in Riga. Her father, baron Vietinghoff, one of the richest landcd proprietors in Courland, gave her a careful education. When a young girl, her parents took her to Paris, where her father's house was the resort of men of talents, and her wit, beauty and cheerfulness were admircd. In her 14th year, she was married to baron Krüdencr, a Livonian, about 36 ycars old. She accompanied her husband to Copenhagen and Venicc, where he was Russian minister. In these places, and in Petershurg, Marlame Krűdener, placed by rank and wealth in the first circles, was one of their most brilliant ornaments. She was surrounded by admircrs of her talents and beauty; but she was not happy. She became the mother of two children; but, as she herself indicates, in a letter to her son-in-law, her natural livcliness of temperament and the allurements of the world led her into levities, which finally caused a divorce from her husband. In 1791, she returned to her father's house in Riga, where she was universally considered one of the inost amiable and acconplished ladies, with a feeling heart and lively innagination. But Riga did not satisfy her, and she lived alternately in Paris and Pctersburg in Russia. Her love of dissipation involved her, in Paris
as well as in Pctersburg, in many difficulties. In the former plaec, the fierce Garat is said to have been master of her heart. In the midst of these eircumstances, she wrote a novel, of which she had formed the plan at an earlier period, Valérie, ou Lettres de Gustave de Linar $\dot{\text { ò }}$ Erneste de G., in whieh she delineated eertain scenes of her own life. The disasters of Prussia arrived, and madame Krïdener, being then about the person of the queen of Prussia, and partieipating in her aftlietion, turned her mind from the pleasures of the world to the subjeet of religion, though, perliaps, as is often the ease, little ehange may have been produced in the essentials of her charaetcr. Ambition, a lively sensibility, and love of excitement, seeni to have remained the great springs of her aetions. She was How attracted by the prineiples of the Moravians. She again went to Paris, where she found many diseiples-a fiet easily explained, from the circunstance, that the highest circles of Paris always contain a number of persons who, laving been acenstomed to live on exeitements from early youth, and having become siekened with those of fashionable life, turn with pleasure to those of devotion. On the commencement of the war of the northern powers against Napoleon, madame Krüdener went to Geneva (1813). In Carlsruhe, she became connected with the mystieal Jung. (q. v.) She began to believe herself ealled to preach the gospel to the poor. She therefore went into the prison at IIeidelberg, and preaehed to the eriminals condemned to death. In 1814, she returned to Paris. Here she beeame acquainted with Alexander, emperor of Russia, who had already for some time shown a disposition to rcligious contemplations. According to a late publication of a companion of madamc Krüdener, M. Empeytas, her conversations with the emperor had a great influence on liim. In Paris, she had prayer-meetings, attended by distinguished personages, where she was seen in the background of a suite of rooms, in the dress of a priestess, knecling in prayer. It is very generally believed, that her eonversations, in Paris, with Alexander, were mainly instrumental in suggesting the idea of the holy alliance (q. v.); it is eertain, that, in her later sermons, she held it upalmost as a new covenant. She gave a description of the feast celebrated by the Russian army in the plains of Chalons, under the title Le Camp de la Vertu (Paris, by Normand), in which she gives her views respecting the history of
the time. In 1815, slie went to Bale, where a small community of devout mysties was already colleeted. Here a young clergyman of Gencra, the above-mentioned Empleytas, followed her, and preached in the prayer-meetings whieh the baroness held every evening. Women and girls went ardently to these prayer-nicetings, and gave liberally to the poor, often to a degree mueh beyond what they could afford. These mectings, as is too oftcu the case under cireunistances of similar excitement, lad a bad moral effeet. Cases were reported which exeited great seandal, and a preacher named Fiiseh finally denomeed the priestess. The magistraey of Bàle obliged her to leave the city. She experienced the same treatment in Lörraeh, Larau, \&c.; yet, according to the common course of things, the number of her followers inereased, particularly among young females. At the same time, she earried on an extensive correspondence; money was sent her from great distanees. In 1816, with her daughter, she went to reside not far from Bâle, in Baden, on the Horn of Grenzach. Besides M. Einpeytas, slie was accompanied by professor Laehenal, of Bàle, and a Mr. Kellner. Here she assembled many poor people, great numbers of whom were vagabonds, whom she provided with food and lodging, without labor. These were very ready to profit by the kindness of the good, benevolent lady, who preached against the coldheartedness of the rieh, as the souree of all evil. The public peace was so muelı disturbed by thesc proceedings, that the 1 forn was surrounded by soldiers in 1817, and the disciples of madame Krüdencr carried away to Lörrach. She wrote, in consequence, a remarkable letter to the minister at Carlsruhe, in which she spoke of the "descrt of eivilization" through whieh she was obliged to wander, and reminded him of the law of God, requiring the authorities to take care of the poor. She now travelled about, preaching in the open air, often surrounded by 3000 people, and giving bountifully to the poor. Wherever she arrived, shc was under the surveillance of the policc. In Leipsie, poliee offieers were at length even placed at her door, so that nobody could be admitted to see her. Mr. Krug, professor of philosoply in the university of that city, published Gespräch unter vier Augen mit der Frau von Krudener (Lcipsie, 1818), according to which she appeared as an estimable enthnsiast, pouring out pious effusions, mingled with arrogant prophecies. At length the police
transported her to the Russian frontier, where she received orders not to go to Petersburg, nor to Moscow. In 1824, she went, with her daughter and her son-inlaw, to the Crimea, and died there the same year, Dec. 13, at Karafubasar. Madame Krüdcner is one more instance that ardent zeal and good intention (for it is probable that she considered herself to be doing right) are by no means sufficient to render one capable of effecting a greatreformation.

Krug, William Trangott, professor at the university of Leipsic, a very active writer on philosophy, was born June 22,1770 , at Radis, a village in the circle of Wittenberg, in Saxony, where his father was a wealthy farmcr. From 1782 to 1788 , he studied at the famous Schulpforte; and, from 1788, he studied, for four years, theology, philosophy, listory, mathematics, \&cc., at Wittenberg. In 1794, he settled there as adjunct of the philosophical faculty, and lectured for scven ycars, without salary. His Letters on the Perfectibility of Revealed Religion, which he mblished when a student, prevented him from receiving an appointment as professor extraordinarius, though lie lectured with great applause and success. He now abandoned theology and preaching, and lectured only on philosophy, philology, and scientific subjects. In 1801, he was appointed professor at the university of Frankfort on the Oder. In 1805, he was made professor ordinarius at the university of Konigsberg, in the place of Kant. Krug belonged to the Tugendbund. (q. v.) In 1809, he accepted an invitation to Leipsic, where he continues to lecture as professor ordinarius of philosophy. Krigg has written a great deal on philosophical and on political subjects, and slows himself inclined to liberal views, in opposition to Ancillon, Schmaltz, Von Haller, \&c. In the late cxcitements which have existed in Germany between the Catholics and Protestants, lie took part with the latter. He is now writing a Philosophical Dictionary, in 4 volumes. A list of his works would much exceed our limits. Among other works, he has written one on Faith and Knowledge. In 1826, he publishcd Ecclesiastical Law, represented according to the Principles of Reason and in the Light of Christianity (Leipsic); in 1823, a Ilistorical Representation of the Liberalistn of Ancient and Modern Times (Leipsic); in 1824, Dicropolitics, or the Latest Restoration of the State in the Way of Justice (Lcipsic). He has been a contributor to the Leipsic Literary Gazette since 1812.

Krunitz, John George, physician at Berlin, was born 1728, studied at Gőttingen and at Frankfort on the Oder. In 1759, he returned to Berlin, devoted his whole life to literary pursuits, and died in 1796. A great number of useful publications upon medicine, natural listory, geography, and other subjects, original and translated from various languages, are the fruits of his industry. His chief work is the Okonomisch-technologische Encyklopüdie, which lie began in 1773. It amounted to 73 volumes, and had just reached the article Leiche (corpse), when he was removed by death. The work is valuable, as containing much matter carefully selected. There is, however, a want of method and proportion in it. After his death, the brothers Flörke, and, siace 1815, J. W. D. Korth, liave continued the work, which, in 1828, amounted to 142 volumes, and reached as far as SCH. The abridgment of the large work, thus far, amounts to 32 volumes.

Krusesstern, Adam John, chevalier de ; since 1826 , royal Russian commodore, and sccond director of the marine corps of cadets, and well known for his voyage round the world, in 1803-6. Before him, indeed, the Russians had made many voyages of discovery; but Krusenstern's voyage surpassed those of his predecessors in its extent and its results. Before him, Russian navigators, in the Atlantic ocean, had never reached the tropics. Krusenstern sailed from lat. $60^{\circ} \mathrm{N}$. to $60^{\circ} \mathrm{S}$., in the western hemisphere, and, on this voyage of more than three years, he lost not a single man. The descriptions of this voyage of discovery have appeared in print. The emperor Alexander caused every thing to be done for the success of this scientific enterprisc, and, among other things, jurchased the best instruments of Troughton, Aruold and Pennington. He rewarded the navigator with great liberality. He bestowed upon Krusenstern's wife the income of an estate which anmounted to 1500 roubles yearly, in order, as lee expressed it, to comfort her husband during lis absence, in regard to the condition of his family. The honor of the enterprise, however, both in plan and execution, is due to the modest Krusenstern. No navigator has combined more philanthropy, care, and sacrifice of his own convenience, with a comprehensive knowledge of his own department. You Krisenstern had already made himself known in the literary world by an essay in Storch's Annals, in which he exhilbits the difficulties of trading by way of

Ochotsk to the islands and coasts of America, and showed that this trade could not become important, until ships should go to the North-West Coast of America by passing out of the Baltic round cape Horn or the cape of Good Hope. But, if Russia would take part in the direct trade with China and India, he saw that she must obtain seamen acquainted with the Indian ocean. Krusenstern had collected the necessary information on this subject in the war of 1793-1799, when he served on board the English fleet. Count Woronzoff, the Russian ambassador at the English court, now procured for him an opportunity to go to India, on board a British vessel, bound to China. He remained at Canton during 1798 and 1799, and there acquired a knowledge of the advantages which would accrue to the Russian possessions on the Anerican coast, from the direct transportation of furs to this place. As soon as count Romanzoff, the minister, and Mordwinoff, the admiral, directed the mind of Alexander to Krusenstern's proposal, he took up the subject, and intrusted this active seaman with the charge of making a eloser examination of the North-West Coast of America, according to instructions drawn up by count Von Romanzoff, then minister of commeree, afterwards ehancellor of the empire. A seeondary object was ultimately combincd with the same; viz. to renew the commercial connexions of Russia with Japan, at Naugasacki, which, since Laxman's royage to Japan, had been broken up. Two ships were intrusted to him-the Nadeshda and the Neva. He gave the command of the Neva to the lientenant-captain Lisanskoy. Oct. 5, 1803, he left the road of Falmouth. Nov. 26, the Russian flag waved for the first time on the other side of the equator. Aug. 19, 1806, he returned in the Nadeshda to Cronstadt. (See A Voyage round the World in the Years 1803-1806, by the Command of his Majesty the Emperor Alexander I, in the Ships Nadeshda (the Hope) and $\mathcal{N}$ eva, under the Command of A. J. Von Krusenstern, Captain of the royal Marine, Petersburg, $1810-12,4$ to.) The two first parts contain the narration of the voyage; the third part contains treatises upon natural history and physieo-nautieal subjects. The atlas contains 16 plates coneerning Japan, and representations of subjects in natural history and ethnography. $\Lambda$ second edition of this work appeared in Berlin (in 12mo., in 1811-12, with a portrait of the author, and with copperplates). An English translation of Krusenstern's voy-
age, by Goppner, is incomplete, and disfigured by a multitude of mistakes. Captain Lisanskoy lias also written an account of the royage, performed in the Neva, round the world, in the Russian language (Petersburg, 1813, in two parts). G. H. von Langsdorf has published Olservations upon a Voyage round the World, in the Years 1803-7 ( 2 volumes, 4to., with copperplates, Frankfort on the Maine, 1812); of which, however, only the first volume relates to Krusenstern's voyage, as Langsdorf, in 1805, left the expedition iir Kamtschatka, and returned home by land through Siberia. This work has also been translated into English. Krusenstern discovered the Orloff islands, and gave much information respecting the New Marquesas, or Washington's islands, especialty Nookahiva and the straits of Sangaar: He added particularly to the geography of Australia, of the coast of the islands of Japan and those in the Clinese sea. But the island lying east of Japan, which the Spaniards were said to have discovered in 1610, Krusenstern was as unsuccessful in findiug as Bries and Lapéyrouse before him. On the other hand, he carefully examined the western coast of the island of Jedso, the straits of Lapéyrouse, and the coasts of the island of Saghalien. Krusenstern's desire to reëstablish commercial connexions with Japan fialed of being gratified, and the clamberlain Von Resanoff, who had been appointed ambassador thither, was not reeeived. The result of this voyage will become truly important, in a cominercial view, if the proposed improvements, in the management of the Russian colonies on the Aleutian islands and the North-West Coast, to the abuses in whielı Krusenstern's attention was direeted, are carried into effect. Krusenstern's official report, concerning captain Golownin's voyage for the examination of the Kurile islands, contains the latest proofs of the odium which the Russians have brought upon themselves in Eastern Asia. Krusenstern's voyage therefore is interwoven, in more than one respeet, with the history of the Russian empire. Of his literary labors, which have particularly enriched nautieal geography, proofs are contained in the Universal Geographical Ephemerides; among others, the essay concerning Maldonado's supposed discovery of a northwest passage in the year 1588, and his Mémoire sur une Carte du Detroit de la Sonde et de la Rade de Batavia. He has also published Vocabularies of the Languages of several Nations of Eastern $\Lambda$ sia
and the north Coast of Annerica (Petersburg, 1813, 68 pages, 4to.) ; Contributions to the Hydrography of the great Oceans (Leipsic, 1819, 4to.); and a Recueil des Mémoires hydrographiques pour scrvir d'Explication à l'Allas de l'Océan Pacifique (Petersburg, 1894, 4to., with an atlas in 15 plates, folio). Captain von Kotzebue (q. v.) wass educated in his school. Krusenstern's invention for securing the magnetic needle against the influence of cannon, and other iron substances, by enclosing the compass in metallic plates, was introduced by the Russians, in 1825.
Kuh, Ephraim Moses, born 1731, of Jewish parents, showed early an uncommon strength of memory, vivacity of mind, and a restless desire of knowledge. His father, a rich trader, intended at first to oducate him in Jcwish learning ; and, when the result by no means answered his expectations, he desired to make him a merchant. He allowed him to receive instruction in the French, Italian and English languages, by which means he attained a knowledge of modern literature and poctry. After his father's death, he went to Berlin, as first clerk in the counting-house of lis uncle. Here his talents gained him the friendship of Mendelssolin, Raunler, Lessing, and other learned men, by intercourse with whom his poctical talent began to be developed. If possessed cousiderable property, besides a good salary; but his easy goodnature, which made him often the prey of the fraudulent, united with an extravagant love of books, in a few years, exhausted his means. He left Berlin, travclled through Holland, France, Italy, Switzerland and Gernany, and becaine, at last, dependent on his family. These circumstances produced in hin a fixed melancholy, which at length increased to insanity, from which he was restored ouly ly the activity of a skilful physician. In lis lucid intervals, he produced the best of his poems. In 1785, he was dcprived of strength and speech hy apoplexy, in which state lie died, 1790. Posthunous Poems, by Ephraim Moses Kul, appeared in Zurich, in 1792.

Kulm. (See Culm.)
Kunersdory. (Sce Cunersdorf.)
Kurds. (See Curds.)
Kuriles; a long range of small islands at the eastern extremity of Asia, extending fion the southern point of Kantschatka to the isle of Jesso, or Matsmai, which belongs to Japan. The whole length of the chain amounts to nearly 900 miles. Some of the islands are not inhabited, and
sevcral are even uninhabitable, on account of the absolute want of water. Others are fertile, well wooded, full of game and fish. Some contain volcanoes ; and they are all subject to frequent earthquakes. The number, without reckoning Jesso, is 25. They were successively discovered, iu the eighteenth century, by the Russians, and have been accurately known only since Krusenstern's voyage. The inhabitants are perlaps a thousand, and are known by the name of Kuriles, which is applied also to the people of the ncighboring coasts of Asia, and of the southern part of Kamtschatka. They are heathens, and some of them resemble, in language, shape and manners, the Japanesc. Others, on the contrary, resemble the pcople of Kamtschatka, many of whon, on the conquest of Kamtschatka by the Russians, fled to the Kurilc islands. Some of the islands have inhabitants descended from each of these stocks. The southern Kuriles are under Japanese government: the northern (21), on the contrary, are subject, in some measure, to Russia, and furnish, mostly under compulsion ouly, a tribute of sea-otter skins, fox skins, and other peltry. The chain extends from lat. $42^{\circ}$ to $51^{\circ} \mathrm{N}$.

Kutusoff (Golenischtscheff Kutusoff, prince Smolensky), Russian field-marshal, born 1745, entered the army, 1759, served in Poland from 1764 till 1769, and afterwards against the Turks, under Romanzoff. He stormed the fortress Shumla, and, at a later period, contributed greatly to the sulhjugation of the rebel Pugatscheff. In 1788, he was present at the siege of Oczakow, having been appointed governor-gencral of the Crinea the year before. At the siege of Oczakow, he was wounded near the right eye. He assisted the prince of Coburg to gain the victory of Fockschani, and, in the memorable conflict of Rimnik, Dec. 31, 1789, he performed miracles of bravery. After the storming of Ismail, under Sirwaroff, he was advanced to the rank of lieutenantgeneral, and, in the negotiations with Turkey, which took place shortly after, he gained the fame of an able diplomatist. In 1793, he was appointed ambassador at Constantinople, and, in the subsequent Polish war, we find him in the Russian army, under Suwaroff. Ife was particularly conspicuous during the memorable day of Praga. (q. v.) After the restoration of peace, Kutusoff was first appointed commander-in-clief of Finland; Paul afterwards named him governor-general of Lithuania. He re-
sided several years at Wilna, and cndeavorcd to retrieve, by study, the deficiencies of his early education. For a short time, he filled the situation of ainbassador to Berlin, but soon returned to Wilna, to his governor-generalship. After this, lie was appointed chief of the corps of cadets, and, in 1801, governor-general of St. Petersburg. In 1805, when he was at the age of 60 , the emperor Alexander gave him the chicf command of the first Russian corps against the French. He led it towards the Inn, but did not arrive there until after the capitulation of Ulin, upon which he united hinself with the small Austrian corps of general Kienmayer, and ehecked the whole of the French army. On the riglt bank of the Danube, to which he lad crossed over, he was closely pursued by the French, and had several engagements with them, especially that near Dürnstein, where he encountered marshal Mortier, on the 18th and $19 \mathrm{th}_{1}$ November, the issne of which contest was fortunate for him. 'The emperor of Gemnany sent him, on this oceasion, the grand cross of the order of Maria Theresa. Hercupon, having joined the other Rnssian colpus, he commanded the atlied army, under Alexander, at Austerlitz, where he was wounded. In the Turkish war, he received orders from Alexander to close the campaign on the Danube. This being done, Kutusoff returned to Russia, and, when Barclay de Tolly resigned the command, after the first retrograde movement, he received, at the age of 70 , the chief command of the Russian army, in the war of 1812. After the battle of Mosaisk, he adopted a new plan of warfare. (Sec Rus-sian-German War.) To commemorate his victories, he received from Alexander the surname of Smolenskoi. Foresecing the fate which awaited the retreating enemy on the banks of the Berezina, he pursued but slowly, and the campaign was already at an end, when he reached Wilna, where he received his emperor. This campaign had exhausted Kutusoff's strength. He was not in favor of a continuation of the war; for to him, a man beyond 70 years of age, it appcared too bold an enterprise to attack the enemy in the seat of his power. After having issued the celebrated Russian proclamation from Kalisch, he died at Buntzłau,

April 28, 1813. After the death of his widow, the emperor continued the pensiou of 86,000 roubles aumually to lier five daughters.

Kuyp, or Cuyp, Albert, a painter of great originality and merit, was born at Jort, in 1656 . He was the son of an able landscape painter, whom, however, he fir exceeded, and became one of the most agrecable artists that ever lived. He particularly excelled in the purity and brilliancy of light; and he was not surpassed, even by Claude or any other painter, in an accurate represcntation of the atmosphere, and of the lightsome effects of sumshine. 'The works of this artist, of whose lite very little is known, embellish some of the finest collections in England; and as they are very highly finished, that circunstance, added to the number of then, inplies a long life. The gallery of the marquis of Stafford, in particalar, contains some highly valued pietnres by Kuyp.

Kyau, Frederic Willian, haron of ; remarkable as a man who owed his success to his wit. Kyan was born in 1654, and, when 17 years old, entered the Brandenburg army, in which he rose, after ten years, to the rank of ensign. Some imprudences obliged him to leave Brandenburg. He went to Saxony, where the clector, and king of Poland, Augustus II, became acquainted with his humor, took lim into favor, made him his aid-de-camp, and, at length, adjutant-general and commandant of Königstein (q. v.), which he always used to call his stone vife. He remained faithful to her until his death, in 1733. He was an honest man, lating all flattery. He was a real scourge of the court nobility. There are two biographics of this man, whose memory is still popular in the north of Germany, and of whom a thousand sayings are afloat among the people.

Kyrle, John; surnamed by Pope the man of Ross; an English gentleman, who posscssed an estate of $£ 500$ a ycar, at Ross, in Herefordshire, where he died in 1754, at the age of 90 . Doctor Warton, in his Essay on the Writings and Genius of Pope, says Kyrle was the Howard of his age, and that he deserved to be celebrated beyond any of the heroes of Pindar. The splendid eulogium of the poet on the man of Ross is well known.

## L.

L, in the English alphabet ; the twelfih letter and the eighth consonant; one of those called liquids, or semi-vowels, because, like vowels, they may be pronounced for any length of time, which is not the case with the other consonants, called mutes, as, for instance, $p, c$. The sound represented by $l$ is produced by placing the end of the tongue against the fore part of the roof of the mouth, opening the jaws, and gently breathing out the air, which thus escapes from the corners of the mouth. The pronunciation of $l$, therefore, is not dependent upon the teeth; yet there are individuals, and even whole tribes, who do not pronounce it ; the former in consequence of some defect in their tongue ; the latter, because they always use $r$ instead of $l$, whilst others always use $l$ instead of $r$. It must be observed, that the rolling $r$ is different from the $l$ only in this, that the former is pronounced with a vibration of the tongue. Hence the constant interchange of $r$ and $l$, in many languages, which it is important for the etymologist to observe. Thus the Frencli orme, from the Latin ulmus; from the Latiu peregrinus, the Italian pelegrino, the Frencl pelerin, the German and English pilgrim. Of the Gcrman word kirche (Scotch, kirk), the Swiss make kilche. The much more frequent change, we presume, is from the $r$ to the $l$, as from the more difficult to the easicr, yet not always. Thus the lower classes in Rome say, instead of repubblica, repubbrica. How frequent the change of $\lambda$ and $\rho$ is, in Greek, particularly in the Ionian dialect, every philologist knows. In Greek, the letter was called lambda, analogous to the lamed of the Phœnicians and the Hebrews. It is remarkable, that, in all these alphabets, and in the Celtic oncs, $l$ is always composed, in some way, of two straight lines. We find, in the inost ancient Greek alphabets, the lambda thus, $\vee, \wedge, \vee$; in the Etruscan alphabct, $>$; in the Celtic, $<, \vee$. The Greek is $\wedge$; the Latin, L; the Hebrew, 7 : in short, two straight lines always forin this letter. In Spanish, $l l$ are vol. vil.
pronounced liquid, like the Italian $g l$ before $i$; and it is peculiar to this language, that it begins words with this sound, as, llaneros. In Portuguese, the same sound is expressed by $l h$. The French $l l$, if preceded by ai, ei, oui, is liquid (mouillée), which, in most parts of Francc, is pronounced like the Italian $g l$ in egli; but the Parisian pronunciation, originally a mere provincialism, is almost like our $y$ in you, as in travailler, veiller; and probably this pronunciation will finally prevail, though it is arbitrary, and against the practice of the majority of the people. In Polish, $l$ before $t$ is sounded by thrusting the tongue between the teeth. The Polish has also the common $l$, and another with a somewhat guttural sound, produced by pressing the tongue against the roof of the mouth, farther back than in the case of the common $l$. For the latter it has a proper sign. In English, $l$ is not pronounced at all in some monosyllables, where it intervenes between a vowel and a subsequent consonant, as in calm, half, balk, chalk, would, could, folks.-As a numeral, L signified, in Hebrew, 30; in Greek, $\lambda=11$, and $\lambda=30,000$. L, in Latin, signifies 50 ; hence two $L$ s, put upon each other, forming $\check{ }=100$, which, being rounded, became $\mathrm{C},=100$. $\widehat{\text { on Greek coins, }}$ means Locris, Laconia, Lampsacus, Laccdemonia, \&c.; on Ronian coins, it means Lucius, Lepidus, libertas, libra, ludos, libens, \&c. L, with a dash over it, meant, annoug the Romans, 50,000 . L, on French coins, signifies the mint of Bayome. On Dutch cloths, L signifies Leyden. On French hats, L means laine (made of wool only). L. $\Lambda$. Q. M. is an abbreviation for literarum artiumque magister; $f$, the English abbreviation for pound (sterling), from libra, the Latin for pound. In citations, $l$ is often used for book (liber). (See Abbreviations.)

La, in music; the syllable by which Guido denotes the last sound of each hexachord. If it begins in $\mathbf{C}$, it answers to our A; if in G, to E ; and if in F , to D.

Laaland, or Laland; an island of Denmark, at the entrance into the Baltic from the Greater Belt, about 60 miles in length, and 12 in its mean breadth, and reekoned the most fertile spot in the Danish dominions. This island produees plenty of all sorts of grain, partieularly very fine wheat, and excellent peas. It is also fanous for a kind of red fruit, called manna. The country lies low, the soil is damp, and the air is very unhcalthy. Of all the inlabitants of this island, the elergy are the best provided for, aecording to their rank. The nobility are numerous here, and many of them have very fine seats, and considerable estates. Naskow is the eapital. Population, 38,000 ; square niles, 459. Laaland, united with Falster, forms a bishopric. Lon. $10^{\circ} 59^{\prime}$ to $11^{\circ}$ $52^{\prime}$ E. ; lat. $54^{\circ} 40^{\prime}$ to $55^{\circ} \mathrm{N}$.
Laar, or Laer, Peter van, surnained it Bamboccio, a painter, born in 1613, at Laaren, a village near Naarden, in Holland, enjoyed, during 16 years, the soeiety of the most distinguished artists, viz. Poussin, Claude Gelee (Lorraine), Sandrart, \&e., and had eonsiderable influence on the taste of the Italians. In 1673 or 1674, he put an end to his life, probably from hypoechondria. He reeeived his surname during lis residence at Rome, aceording to some, on aeeount of his deformity ; aceording to others, from his humorous representations of objeets of common life, whieh he brought into favor. Even in his earlicst youth, it was his constant oecupation to draw every thing which he met with. His nemory served him so idmirably, that he eould represent objeets most strikingly, which he had only seen onee, or a long time previous. He was also one of the greatest musieians of his tine. He only attempted minor objeets, sueh as fairs, clildren's games, hunting scenes, landseapes, \&e., but his paintings possess great power and animation. The museun of Paris possessed several of his pieces.
Labarre, John Francis Lefèvie, chevalier de, grandson of a lieutenantgeneral in the French service, was one of the latest vietims of religious fanatieism in France. His father having spent his fortune, his aunt, the abbess De Villancourt, took eharge of his education, and the youth mado mucl progress in his studies. The command of a company of cavalry had been promised to linn, when the following horrible event put a stop to his career. In the year 1765, a wooden crucifix, on the bridge of Abbeville, had been defuced, and the bishop of Amiens,

De la Motte d'Orléans, issued a proelamation, demauding a diselosure of the perpetrators of the erime, under penalt of ecelesiastical eensures and excommunication. Duval de Saucourt, counsellor of the presidial of Abbeville, the private enemy of the abbess De Villaneourt, aceused the chevalier De Labarre of the erime. Several wimesses were heard. Labarre and Détallonde, a youth of the same age, were ordered to be arrested. The latter fled, and entered the serviee of Prussia, in whielı he distinguished himself; but Labarre was appreliended and brought to trial. The indictment elarged him with having passed a proeession without taking off his hat, of having spoken against the eucharist, and of laving snng impious and lieentious songs. The tribunal senteneed the young man to have his tongue eut out, his right hand eut off, and to be burnt alive. A decree of the parlianent of Paris, of June 5,1766 , passed by a small majority, eommuted the sentence into decapitation before burning. This decree was exeeuted July 1. Labarre, hardly 19 ycars old, was carried to the place of cxeeution in a cart, with the words impious, blasphemer, sacrilegious, abominable, and exccrable, written on his breast. Voltaire exerted himself as zealously against this infamous act as he had against the execution of Calas. (q. v.) Under the name of M. De Caseu, advoeate of the royal council, he published a Relation of the Death of the Chevalier De Labarre, whielı may be found in vol. xxxvi of his works, ed. Beaumarchais. "A Dominican," he says, " was appointed to attend him as confessor, a friend of his aunt, the abbess, with whoin he had often supped in the eonvent. This good man wept, and the ehevalier eomforted him. Dinner was brouglit to them; but the Dominiean was unable to eat. 'Let us take a little food,' said the ehevalier to hinn ; 'you will need strength to support the spectaele which I am going to exhibit.'" Ife aseended the seaffold with ealmness, without complaints, without anger, and without ostentation, merely saying to the monk who assisted liin, "I did not think that a young nobleman could be put to death for such a trifle."
Labarum; the name given to the imperial barner, upon which Constantine, after his eonversion, blazoned the monogram of Christ. Eusebius has described it with mueh partieularity. After the vision, in which the luminous cross was exhibited to the emperor, and while he was yet meditating on the meaning of that appari-
tion, a sudden night came on, "at which time," as he said, "the Christ of God appeared to him, when asleep, with that sign which had been shown him in the lieaven, and ordered him to get a standard madc, in imitation of that which he had seen in the heaven, which he should use as a protection in his engagements with his enemies. As soon as it was day, he arose, and declared the whole secret to his friends. Then he called together the workers in gold and precious stones, in the midst of whom he himself sate, and gave them a description of that standard, and ordered them to express its likeness in gold and precious stones, which standard we ourselves, also, happened some time to have a siglit of."
Labat, Jean Baptiste, a Dominican missionary and traveller, born at Paris in 1663 , took the vows at the age of 19 . He afterwards taught mathematics and plilosoplyy at Nancy, where, at the same time, he performed the duties of a preacher. In 1693, he returned to Paris, to the Dominican convent in the street St. Honoré. A letter arriving shortly after, from the superior of the Dominicans in the French Antilles, in which this ecclesiastic urged his brethren in Europe to come to his aid, an infectious disease having carried off many of the members of the order, Labat determined to carry into execution the plan he had long entertained of becoming a missionary. As the superiors of the order expected great benefit from his services in France, it was with difficulty that he succeeded in carrying his intention into effect. He embarked, with sevcral bretliren of the order, at Rochelle, in 1693, landed at Martinique in 1694, and immediately undertook the care of the parish of Macouba, which he superintended for two years, after which he was sent to Guadaloupe, for the purpose of building a mill, on an estate belonging to the order. His mathematical knowledge rccommended him to the governor there, whom he accompanied during a tour through the island, to assist him in selecting the points best adapted for works of defence. On his return to Martinique, Labat found his cure occupied by another, and he rcceived the office of procureurgentral of the mission, in which an opportunity was afforded him of displaying the whole cxtent of his usefil activity, at the same time that he served the government by lis mathenatical knowledge. During several voyages in the service of the mission, he visited all the Autilles, and, on the attack of Guadaloupe by the English, in

1703, he rendered his countrymen important services as an engineer. In 1705, he was sent to Europe on business of the order, and, landing at Cadiz, he embraced the opportunity to survey, geometrically and scientifically, the environs and the whole coast of Andalusia, as far as Gibraltar. He likewise went to Italy, and finally returned to Paris in 1716, where he occupied himself with the publication of a part of his works, and where he died Jan. 6, 1738. His Voyage aux Iles de $l$ 'Amérique, of which several editions have appeared, and which has been translated into several languages, contains an account of the natural history, particularly of some of the smaller and less frequented islands; of their productions; the origin, customs, religion and governments of the inhabitants, as well as the chief political events which occurred during the author's residence there. He also published a Description of the Countries on the Senegal, and betwcen Cape Blanco and Sierra Leone; Travels in Spain and Italy; and a translation of Cavazzi's work on Western Æthiopia. Besides these, Labat edited the Voyage of the Chevalier Demarchais to Guinea and to Cayenne, and the Memoirs of the Chevalier d'Arvieux, containing his Travels in Palestine, Syria and Barbary.

Labé, Louisa, known by the name of la belle cordiere, was born at Lyons, in 1526 or 1527. Her father had her instructed in music, in several languages, and also in riding and military exercises. This excited in her a desire to enter the army, and, in 1543 , she served at the siege of Perpignan, under the assumed name of captain Loys. She was commended for her strength and courage. The French being obliged to abandon the siege of Perpignan, Louisa renounced the military service, and devoted herself to literature and poetry. She married a rich rope-maker, Ennemond Perrin, by whicl 1 means she acquired an opportunity to follow freely her bent for literature. With many agreeable accomplishments,she combined a knowledge of the Greek, Latin, Spanish and Italian. Her house became the resort of men of learning, rank and wit. She excited the admiration of the poets, but at the same time the envy of the ladies of Lyons. Some contenporary writers have praised her for her virtue, while others have accused her of licentiousness. Several of her poetical effusions, particularly the 18th sonnet, certainly afford cause for suspecting her virtue. She appears to have passed through
all the degrees of love: commencing with faithful affection, she became a coquette, and finally an intriguante. We may find some excuse for her conduct in the character of the age, when gallantry was not considered dishonorable, and she herself was surrounded by a crowd of amiable but licentious admircrs. Her generosity, her taste for learning, and her acquirements, so extraordinary for the times, effaced this stain in the eyes of most of her contemporaries. The tribute which contemporary authors pay her, and the circumstance that the street in Lyons, where her house was situated, was named after her, prove how much slie was esteemed. The charm of her conversation, her accomplishments, her talents, the verses which she composed and sung to the lute, contributed to fascinate her numerous and distinguished admirers. Her works are, Epistle to Clemence de Bourges (written with great talent); the Dispute between Love and Folly, in prose (full of interest and originality) ; three elegies; 24 sonuets, the first of which is in Italian. The first cdition of her works appcared in 1555.

Labials are letters chiefly pronounced by the lips, as $b, p, f, m$.

Labor, in physiology, is the act by which a female of the genus mammalia brings one of herown species into the world. When the foetus has remained its due time in the womb, and is in a condition to carry on a separate existence, it is extruded from its place of confinement, in order to live the life which belongs to its species, indcpendently of the mother. The womb having reached its maximum of growth with the increasing size of the fotus, its peculiar irritability excites in the power of contraction; it thereby narrows the space within, and pushes out the mature foetus. The period of gestation is very different in different animals, but, in each particular species, it is fixed with much precision. In the womb, the corporeal frame of man commences existence as an embryo, after further developement, appears as a fætus, then as an immature, and, finally, a mature child. With its growth and increasing size, the membranes which envclope it enlarge, the womb also expanding to give room for it. At the end of the 39 th or the beginning of the 40 th week, the child has reached its perfect state, and is capable of living separate from the mother; hence follows, in course, its separation from her, i. e. the birth. Contractions of the woinb gradually come on, which are called, from the painful sensa-
tions accompanying them, labor-pains. These are of two kinds: first, the preliminary pangs, which begin the labor, do not last long, are not violent, and produce the feeling of a disagreeable straining or pressure. When the pregnant fentale is attacked by these, she is often unable to move from her place till the pang is over, after which she is often frec from pain for some hours. Then follow the true labor-pains; these always last longer, return sooncr, and are more violent. The contractions of the womb take place in the sanie order as the cnlargement had previously done, the upper part of it first contracting, while the mouth of the womb enlarges, and grows thin, and the vagina becomes loose and distensiblc. By this means the fortus, is the space within the womb is graduatly harrowed, descends with a turning motion towards the opening; the fluid contained in the membranes enveloping the fcetus, as the part making the greatest resistance, is forecd out, and forms a bladder, whiclt contributes much to the gradual enlargement of the opening of the womb. It is therefore injurious to the delivery if hasty or ignorant midwives break the membranes too soon. By repeated and violent throes, the membranes at length burst, and discharge their contents, and, some time after, the head of the child appears. As the skull-bones have not yet acquircd their perfect form and substance, but are attached at the crown of the head only by a strong membrane, and may be brought nearer together, the head, by the pressure which it undergoes, may be somewhat diminished in size, and squeezed into a morc oblong form, so as to pass through the opening of the matrix and the pelvis, in which it is contained, and, finally, through the external parts of generation; and when this is done, the rest of the body soon follows. The act of birth or delivery is accordingly, in general, not an unnatural, dangerous, and diseased state of the system, as many timid women imagine. It is a natural process of dcvelopeinent, which is no more a discase than the cutting of the teeth, or the coming on of puberty, although, like them, it may give rise to important changes in the body, and to various diseases. It is true, that the process of child-birth requires a violent exertion of nature, but this is facilitated by many preparatives and helps adapted to the purpose. If the birth succeeds in the way described, it is called a natural birth. For this, it is requisite that the pelvis should be properly formed, and that the opening should
permit a free passage to the perfect fœetus; that the growth and size of the feetus should be proportioned to the pelvis, especially that the head should have the size designed by nature, proportioned to the dianeter of the pelvis; also, that there slould be a proper situation of the womb, in regard to the axis of the pelvis, and a proper position of the foetus, namely, the head down, the back of the head in front, and towards the opening of the woinh, so as to appear first at birth ; and, finally, that the external parts of generation should be in a natural state. An easy birth takes place without any excessive strainings, and in due season. A difficult birth proceeds naturally, but is joined with great efforts and pangs, and occupies a long time-over six or eight hours. The cause of it is sometimes the stiffiness of the fibres of the mother, her advanced years, the disproportionate size of the child's head, and various other causes. Nature, however, finishes even these births; and women in labor ought not to be immediately dejected and impatient, on aecount of these difficulties. An unnatural (or properly an irregular) birth is one in which one or more of the above-mentioned requisites to a natural birth are wanting. An artificial birth is that which is accomplished by the help of art, with instruments or the hands of the midwife. Premature birth is one whielı happens some weeks before the usual time, namely, after the seventh, and before the end of the ninth month. Though mature has assigned the period of 40 weeks for the full maturing of the feetus, it sometimes attains, some weeks before this period has clapsed, such a growth that it may be preserved alive, in some cases, after its separation from the mother. That it has not reached its mature state is determined by various indications. Such a child, for instance, does not cry like full grown infants, but only utters a faint sound, sleeps constantly, and must be kept constantly warm, otherwise its hands and feet immediately become chilled. Besides this, in a premature child-more or less, aecording as it is more or less premature-the skin over the whole hody is red, often, indeed, blue, covered with a fine, long, woolly hair, especially on the sides of the face, and on the baek; the fontancl of the head is large, the skulllones easily moved; the face looks old and wrinkled; the eyes are generally closed; the nails on the fingers and tocs, short, tender and soft, hardly a line i: length; the weight of such a child is un-
der six, often under five pounds. The birth is called untimely when the feetus is separated from the womb before the seventh month. Such children can rarely be kept alive; there are instances, however, of five months' children living. A curious remark is found in good writers, that a seven months' child is more likely to live than one born a month later. Late birth is a birth after the usual periorl of 40 weeks. As this reckoning of the time from pregnancy to birth is founded, for the most part, solely on the evidence of the mother, there is much room for mistake or deception. The question is one of much interest in medieal jurisprudence, as the inquiry often arises whether a child, born more than 40 weeks after the death of the reputed father, is to be considered legitimate or not. The importance of the question and the uncertainty of the proof have occasioned a great variety of opinions among medical writers. Most of them doubt the truth of the mother's assertions about such a delayed birth, and give, as their reason, that nature confines herself to the fixed period of pregnaney; that gricf, sickness, \&c., cannot hinder the growth of the feetus, \&c. Others naintain, on the contrary, that nature binds herself to no fixed rules; that various causes may delay the growth of the child, \&c. Abortion and misearriage take place when a foetus is brought forth so immature that it cannot live. They happen from the beginning of pregnancy to the seventh month, hut most frequently in the third month. The oceasions especially, in those of a susceptible or smguine temperament, are violent slocks of body or mind by blows, falling, dancing, cramp, passion, \&c.

Labor, and Laborers. The two great sourees of income, in all communities, are labor and capital. The means of production are the land, utensils, stock, and all which constitutes capital, and the laborers who use this capital. In this general division of the means of production, the term labor is used in its broadest sense; fer the labor of the mind, or that of the artist, which depends morc upon skill than muscular exertion, is to be included in the general estimate of the productive power, if a price or narkct value is put upon its products in the general estimate. Nor should we, in estimating the general productive eapacity, confine oursclves to the species of labor which results in the production of articles of necessity or convenience merely; since, in the proflucts constumed by any community, it is not practi-
cable to draw a distinction between articles of mere utility and those of taste; utility and luxury being combined in a great part of the things used or consumed by a people, whatever may be its stage of civilization and refiuement. The land and the greater part of the utensils of production, are estimated, it is true, in a great degree, and, in many instances, wholly, by their mere utility for production. But it is othervise with respect to the products intended, not merely as the meaus of producing others, but as ultimate objects of use or consumption. Dwellings, furniture, clothing, food, all combine, in different degrees and proportions, both luxury and utility. The quantity of wool and cotton worn and used by two juersons in different ranks of life, and of different means of consumption, may be the same, and answer equally well as a protection of the person against the climate; and yet that used by one, owing to the better quality of the material, and the greater labor bestowed in fabricating it, may cost three or ten times as much as that used by the other ; and yet something is paid to taste and luxury even by this latter. The abstract utility of any article is of difficult estination, and, though it is a proper subject of inquiry and speculation, still, in estimating the productive power of labor, in comparison with capital, the more practical rule seems to be, to take the estimate put upon it by the community itself. If, for instance, the labor of a sculptor is, in the estimation of a community, worth that of 20 day-laborers, the distribution of the annual products of the labor and capital of that community will be governed by this rule of comparison, and the sculptor will be able to consume as much in value as the 20 common laborers. Hence the proportion of the income of labor and capital will rary in different communities, according to the different arts or kinds of production encouraged. To take the same examples, though the labor of a sculptor may be equal in value, as estimated by a community, to that of 20 laborers,-and the same may be equally true of the painter,-yet the capital or stock required for each of these 20 laborers may be, and, if they are employed in agriculture, will be, greater than is required for either of those artists. The proportion, then, of the value of the whole capital of a community, to that of the whole estimated aunual value of the labor of all sorts, performed by its members, will depend upon the kind of arts pursued, so that the proportions will not be uni-
form in different communities. The estimated anmual market value of the labor, will, however, in any community, be grenter, in proportion to its capital, than it would at first view appear to be. It has been estimated to be nearly one fiffll, exceeding or falling short of that ratio, according to the circumstances and pursuits of a community ; that is, supposing the capital to be stationary, the value of the whole capital, including lands, buildings, animals, furniture, utensils, and every vendible thing whatsoever, is consumed and reproduced every five years. It is evident, then, what a rapid change may be made in the wealth of a commminty, either for the better or the worse, by an impulse or check to its industry, or a general tendency to economy or prodigality in consumption. The arts, and employments, and habits of a people, then, are every thing, in respect to their prosperity ; and the actual amount of their present capital is of less importance, since, if it be too small, that is, if the people are in want of a sufficient stock to employ themselves to the greatest advartage, industry and economy may very soon supply the deficiency. The aggregate annual products of the same labor and capital are greater in one country than another. This is a distinction of great importance, whlich is overlooked in some economical speculations, or which, at least, has not always its just weight. The fact is, perhaps, too obvions to need proof or illustration. If, for instance, the people of one country liave better lands, domestic animals, roads, uteusils, or are more skilful and ingenious than those of another, the same anount of manual labor bestowed upon corresponding materials, with corresponding instruments of production, will produce greater results. The wages of labor, and the interest of money, may both, therefore, be higher in one country than in another. This we know to be a fact. In the U. States, for instance, the interest of money, and the wages of common labor, are both higher than in European countries. It does not follow, then, that, if the condition of the mere laborer is better in one country than in auother, that of the capitalist will necessarily be worse. To ascertain the condition of these two classes, possessing the productive capacity and means of a community, we first inquire into the angregate productiveness of capital and iudustry, and next into the distribution of the aggregate products between the two classes. And, in examining into the condition of the members of a community,
the next inquiry relates to the proportionate share of cach industrious class in the whole portion of the aggregate products allotted to industry, as distinguished from that which is allotted to capital. This distribution among the laboring classes themselves, of the products of their labor, will, of course, depend upon the estimation in which the various kinds of labor are held; and its effect on their condition will also depend very materially upon the arrangements, improvements and facilities possessed by the community, to render their labor effective ; for the conipensation to laborers, individually, may be small, and yet the expense of the whole class of the community to which they belong, very great. To take a familiar instance, if, from the thinness of the population, or other cause, the reccivers and distributors of the articles of production and consumption among the people, that is, the retail dealers, can transact but a small amount of business each, though the earnings of cach one may be small, their aggregate compensation must be large. In countries half civilized, and in which the arrangements and facilities for exchanges are rude and imperfect, the usual profits of trade are at an enormous rate per cent.; and yet the wealth of these traders will be very trifling, in comparison with that of the merclaauts and traders of a morc civilized, improved and populous commmity, though the per centage of profit of these latter may be much lower. The same distinetion will hold good in respect to every other pursuit and employment in a community,-the proportion of the whole products awarded to any one class, may not correspond, at all, to the individual advantage or disadvantage of the members of that class, in their pursnits, in comparison with that of those of any other class. The compensation of any one class of a comnunity, in comparison to any other, will evidently depend upon the course taken by the taste and luxury of the community ; for we may assume it as a gcueral doctrine, that when the taste and passions of a community lead to a large consumption of the articles produced by any class, or if the scrvices of its members are considered particularly beneficial, these members will be liberally compensated. If, for instance, as is, or, at least, las licen, the fact in some countries, the inlabitants suppose that their future welfare docs not depend so much upon their own characters and conduct as upon the prayers and good offices of their spiritual guides, they will deem it
impossible to reward these spiritual guides too liberally, seeing they have the salvation of the rest at their disposal. The same principle will hold true in respect to any other class: in proportion as its employment goes along with the tastes and passions of the community, will its members be rewarded for their labors. The effect will not, however, necessarily extend itself to all the members of the class. Suppose, for example, that the taste and vanity of a people appear very much in thcir apparel and personal ornaments : it will not follow that all cloth makers, tailons, jewellers, hatters and shoe-makers will have the highest wages in the community ; but the result will be, that a high price will be paid for excellence of material or superiority of skill in the manufacture of those articles. The moment, therefore, in which civilization commences,and some degree of it is coeval with the existence of every society,-excellence in some arts or employments will meet with extraordinary rewards. As arts and civilization advance, the objects of passion and taste will be multiplied, and with them the kinds and varieties of excellence of materials or skill, which will be esteemed of extraordinary value. The effect nccessarily is to produce a comparative depression in the value of all ordinary products and unskilful labor. Accordingly, the ordinary laborers, in all the arts, become by degrees a distinct class. In a refined community, abounding in arts, this class necessarily hecomes numerous, and the condition of its members is a subject of solicitude to the philanthropist, and of interest to the economist and statesman. The security and welfare of the whole community, will depend very materially upon the character and condition of this part of the population. The greater the distance between this class and the rest, the more effectually they are set off from the others, the more unnatural and distorted will be the state of society, and the more frequent will be scenes of disorder, distress and vicc. It is one of the first and most important maxims of policy and of economy, then, to sustain the members of this class, not by giving them the control and management of affairs, for which, of course, they are not the best fitted,-but by using all possible means, whether by legislation or social influence, to give them education, good habits and good morals; to inspire and maintain in them a respect for themselves, and secure to them the respect of others.

Labor-saving Machines. Montes-
quieu somewhere regrets the introduction of the use of water-mills for grinding corn, instead of the hand-mills formerly in use, as it threw a great many laborers out of employment, besides diverting the water from the purposes of irrigation. Upou this principle of throwing laborers out of employment, the English weavers were opposed to the use of power-looms. It is not remarkable that laborers themselves, who, for a time, feel the inconveniences of the introduction of any improvement, should oppose its introduction ; but it is singular that any man of enlarged and philosophical views should fall into such a notion. Nobody certainly would think it a misfortune to a community, that, in consequence of some improvement in agriculture, the same labor would produce a greater quantity of grain; on the contrary, every one consents to the praise bestowed, by Johnson, upon the inan who makes two blades of grass grow where only one grew before. And an improvement in machinery, whereby the same labor will produce twice the quantity of eloth, is precisely the same in its general effects upon the condition of the community, as an improvement in agriculture. But in a case of improvement in machinery, the effect is more apparent and more sudden, as it will spread rapidly, and, accordingly, the inconvenience to the laborers is, in fact, greater, though it can last only for a time. However, the circumstance that its effect in discharging laborers is only temporary, thougli it shows that the inconvenience to the community is very limited, while its advantages are permanent, yet affords no great consolation to the laborers themselves, if the population is dense, and employment difficult to be obtained, since, while this temporary effect is passing off, they may starve. To avoid producing distress, and consequent disorder, laborsaving machinery, therefore, should be introduced gradually among a community of laborers, like those of Eugland, to whom it is ordinarily difficult to find full employment, and who, if unemployed, are immediately reduced to distress. Hithcrto (1831) no inconvenience las been experienced in the U. States, in consequence of the introduction of improvements in machinery, since it is, as yet, the more general habit of all classes to save something, so that very few are reduced to immediate distress, though thrown out of employment; and there is usually less difficulty in obtaining full employment for the industrious elasses than in most other countries; and, accordingly, all
classes-are in favor of improvements and inventions whereby labor may be saved, or its products augmented.
Laboratory (laboratorium); a place fitted up for the researelies of the chenist. It bears the same relation to the science of chemistry as an observatory does to that of astronomy. Although the simple observation of nature is sufficient to teach us the properties of numerous conipounds, and to enable us to develope, in part, those forces which produce elienical changes, still the seience of cliemistry must ever lave remained exceedingly defective in facts, and faulty in theory, but for the light derived from experiment. It is by means of artificial fixtures and processes, that the chemist obtuins the clements in a state of freedom, and recombines them so as to produce, in many instances, not only their original compounds, but such as are altogether new. It is no exaggeration to say, that nime tenths of the facts of the science, and a majority of the arts depending upon it, have been derived from the laboratory. The constructions which first received this name consisted of under-ground apartments, seeluded from light and wholesome air of day-a situation it is impossible to account for, except upon the idea that it was copied from the alchemists, who are known to have preferred such places for thre purpose of secrecy. The inconveniences attending these situations, from the want of light and facilities for ventilation, as well as from the prevalence of noisture, caused them gradually to be exchanged for apartments above ground; and although, for a time, an unnecessarily gloomy and mysterious aspect was imparted to them, from their being built of stone or brick, and but imperfectly lighted, they have at lengtl come to resemble, in their gencral appearance, other structures intended for the cultivation of science. Besides laboratories intended for scientific research, there are those which are devoted to articles of chemical manufacture, as the alkaline, earthy and metallic salts, pigments, \&cc.; but as these possess considerable diversity in their construction, according to the kinds of manufacture for which they are employed, and cannot well be conceived of without the aid of drawings, we shall omit their description, and confine the present article to a very general aecount of a laboratory fitted up for the researches of one or two philosophical ehemists, int connexion with a theatre, or lecture room, for the public illustration of the science.

A building wholly devoted to this purpose, slould be but one story in height, in order to facilitate access to the apartinents, and to render more easy the bringing in of heavy articles, as wood, water, coals, and carboys, and, at the same time, to allow of openings in the roof for sky-lights and for ventilation. In some laboratories, the theatre and working-room are united in the same apartment ; in othcrs, they are separated by a partition. The advantage of the former construction is, that the furnace operations before a class are rendered more easy; but the disadvantages are, that the size of the room renders it an inconvenient place for private researches, especially in the winter, and the seats are continually subjected to the dust and litter of ordinary operations. We shall treat of a laboratory in which these apartments are distinct. The building may vary in length from 50 to 80 feet, and in breadth from 25 to 50 feet. It should be well pierced with windows latcrally, and also with sky-lights and openings in the roof. The lecture-room should occupy two thirds of the length of the building; and the partition whicll scparates it from the workingroom and other apartments, must contain the flues that are requisite for the furnaces of the whole establishment: these may be spread over the wall on both sides, and finally be carried out of the roof in one general chinney. The floor, from 8 to 12 fcet in advance of this wall, should be paved with stone, or brick; in front of which, and immediately before the seats for the class, a table, with occasional breaks for passages, gasometers, and a pneumatic cistern, should extend quite across the room, from side to sidc. At the ends of this spacc, enclosed by the tablc, cupboards should be erected against the wall, with glass doors, for the reception of the jars of the pneumatic cistern, measures, retorts, flasks, receivers, and the bottles and vials containing the chemicals employed for demonstration. The table should be abundantly provided with drawers of different sizes, in some places extending quite down to the floor, for the reception of substances employcd in a course of demonstration, and which it is not necessary to keep in vials and bottles, such as the cominon metals and many earthy and metallic salts; besides for the numerous tools, as knives, files, gimlets, forceps, and other indispensable articlcs, as corks, valves or glass plates, stirrers, strings, bladders, tow, matches, sand, tapers, glass, metallic and earthen tubes, stop-cocks, \&c., \&r. 'Two or three porta-
ble furnaces, of different sizes and shapes, may have a place near the wall for ordinary furnace operations; and a recess in the wall, centrally placed, and about four feet from the floor (similar in shape to a common fire-place), should be provided, with a strong draft, for those experiments which are attended with dangerous exhalations. The seats may be arranged as is usual in other lecture-rooms. The floor room upon the other side of the partition may be divided, lengthwise of the building, into two apartments, separated by a narrow space-way, one of the rooms having double the dimensions of the other ; the larger is the working-room; the smaller, an apartment for receiving delicate articles of apparatus, as balances, electrical machines, air-pump, \&c., and which would be liable to injury if exposed to the attacks of the damp and corrosive vapors that are continually floating about in the other roons. The entry communicates with the theatre by a door; a double door, also, connects the working-room and the lecture-room. The whole floor of the working-roon is paved with brick or stone. The first fixture of importance in this room is the general working furnace. Its use is partly domestic, partly chemical ; for it is intended to warm and air the place, occasionally to heat water, as well as to supply the means of raising a crucible to ignition, or of affording a high temperature to flasks and evaporating basins, through the agency of a sand-bath. It is built with a table top. The fire-place itself is constructed of brick-work, with iron front and fittings, and the flue, being carried horizontally for three or four feet, is afterwards carried off to, and connected with, the main flue existing in the wall. The fire-place and horizontal flue are covered with a large plate of cast iron, of from two to three feet in width; this is formed, in the middle, over the heated part, into sand-baths; a round, movable one over the fire itself, and a long, fixed one over the flue. The sand-baths supply every gradation of heat, from dull redness, if required, down to a temperature of $100^{\circ}$ or lower, whilst on each side of them exists a level surface, which answers every purpose of an ordinary table, and supplies extraordinary facilities to experiments going on in the sand-bath or furnace. This furnace may be advantageously placed directly against the wall which separates the working-room from the theatre. A large, flaring, wooden hood slould be suspended over the sand-bath, to receive the fumes evolved during the digestions
and solutions made upon it, and to conduct them away into the chimney. (For a particular description of this furnace, see Faraday, On Chemical Munipulations, p. 90.) Near by may be placed another furnace for heating a large copper boiler, intended to supply the laboratory with hot water; the boiler should also be fitted with a head, worm and refrigerator, in order to provide an occasional supply of distilled water. The tables should be as extensive as the room will allow, and be so placed as to admit of ready access; hence a large one, placed towards the middle of the room, and in such a situation as to be well lighted, is very useful. It should be made strong, and furnished with drawers, unless it be closed in with doors, so as to form cupboards. To protect it from corrosive fluids, as acids and alkalies, it should be covered with sheet lead. In a corner, and as much out of the way as possible, a sink of stone, or of strong wood-work lined with lead, must be provided. It must be supplied with water, if possible, from a cistern or aqueduct, since an unlimited supply of water is demanded in a laboratory. A place in its immediate neighborhood is to be appropriated to the cleansing accompaniments of a sink, such as pails, pans, sponges, brooms, brushes, \&c. Between the table and the working furnace may be placed the pneumatic cistern, which should be of larger dimensions than that employed in the theatre. If the surface of water be 19 inches by 28 , and a well be formed at one end of 14 inches by 10 , and 12 inches in depth, so as to leave a continuation of shelf surface, on three sides of the well, of $2 \frac{1}{2}$ inches in width, it will be found sufficiently large for almost any purpose. It should have shelf room sufficient to hold several jars of gas at once. It should be filled with water until it is 14 inch or $1 \frac{1}{2}$ inch above the shelf, and should be provided with a stop-cock, by which the water may be drawn off when it has become acidified or dirty. Such a trough is best made of japanned copper, and supported in a wooden frame, so as to stand about 39 inches from the floor; or it may be made of wood, and lined with sheet lead. Unless the establishment is very extensive, one mercurial cistern will answer for both rooms; it may be shaped out of marble or soap-stone, or be made of cast iron, and mounted upon a firm frame, fitted with rollers. Cupboards are very useful; and at least two large ones, with shelves, ought to be provided, in order to preserve chemical preparations,
and the neater sort of apparatus, from the dust and dirt which are constantly moving and settling in the laboratory. All parts of the walls within reach should be fitted up with shelves, in a firm namuer, to receive bottles and jars; also a tube-rack should be provided, to hold pieces of glass tube, from one to three feet long. A part of the wall should be furnished with long spikes, to hold retort and flask rings, large bent tubes, siphons, coils of wire, iron tongs for holding flasks, \&c. Among other indispensable furniture may be enumerated the following articles: one or two large wooden blocks, to serve as bases on which to put heavy mortars; an anvil, or spike with its foot-block; a vice affixed to a side table; hammers; cold clisels; a screw-driver; saws; cutting chisels; ginlets; brad-awls; half-round, flat, and small three-square files; forceps; a trowel; a soldering-iron, with its appendages; a glue pot ; nails ; screws; spatulas of silver, ivory, steel and wood; corkscrew; shears; blow-pipes; scratching diannond, \&cc. A number of filtering stands, supports for retorts and flasks, and wooden forms for holding glass evaporating basins, flasks and receivers, should be provided; also a great variety of common, kitchen, open furnaces. The cellar beneath the work-ing-room should contain the more bulky articles, and such as do not receive injury from a slight degree of moisture, as lutesand, charcoal, bricks, carboys of acid, voltaic troughs, \&cc. We do not go into a description of the common glass apparatus which is essential to a laboratory, as, Woulfe's and Nooth's apparatus, retorts, adopters, receivers, mattrasses, flasks, precipitating glasses, \&c.., \&c., since these articles have come to be well known, under their appropriate names, in every large city where philosophical apparatus is manufactured. Doctor Henry recommends that the painting of that part of the laboratory furniture which is exposed to the action of acids, be done with the sulphate of lead.

Laboratory, in military affairs, signifies that place where all sorts of fireworks are prepared, both for actual service and for experiments, viz. quick-matches, fuzes, port-fire, grape-shot, case-shot, carcasses and grenades, cartridges, shells filled, and fuzes fixed, wads, \&c., \&c.

Laborde, Jean Joseph de, a merchant distinguished for activity, enterprise, wealth and benevolence, of an ancient family in Bearn, born in 1724, amassed a large fortune at Bayonne, by cominerce with the West Indies and Spain. Wher,
in 1758, the French court wished to obtain a loan of $50,000,000$ of livres from the Spanish court, the latter would not close the transaction without Laborde's guarantee. Upon this, Laborde was made court banker, and the first minister, Choiseul, gave him his entire confidence. After the fall of this statesman, Laborde retired from the greatest part of his business. At the breaking out of the American revolution, he alone was able to furnish the government $12,000,000$ livres in gold, at Brest, which enabled the expedition under Rochambeau to set sail. At a later period, Laborde employed his fortune in useful and splendid buildings. The palaces of St. Ouen (since the property of Mons. Ternaux), of St . Leu (afterwards belonging to the duke of Orleans), of La Ferte Vidame (belonging to the duke of Penthière), and that at Méréville, near Paris, were built by him, as well as the finest houses in the Chanssée d'Antin, a street of Paris, which, in his time, was a large garden, belonging to his hotel. He devoted 24,000 franes, yearly, to the support of the poor. Towarls the erection of four large hospitals, at Paris (1788), he contributed 400,000 francs. With this truly royal beneficence he combined the most delicate manners. He never spoke of the good he had done, nor suffered those whom he harl served to feel oppressed by the obligation. Sutisfied in the possession of the love and esteem of his fellow citizens, he declined external marks of distinction. Louis XVI raised his estate of Laborde (his fanily name was Dort; his aucestors, who, in 1620 , had purchased the suall domain Laborde, called themselves Dort Laborde) to a marquisate; but he made no nse of this title. During the period of terror, Laborde lived in retirement on his estate at Méréville, but, like Malesherbes and Lavoisier, who resembled him in nobleness of character, he fell a sacrifice to the fury of the popular leaders. Gendarmes dragged the venerable old man to the tribunal of blood. His whole commune, consisting of 1200 , offered to defend their father and benefaetor ; but he declined it, and exhorted them to keep the peace. These worthy people sent a deputation to the convention, but in vain; the benefactor of thousands fell, at the age of 70 (April 18,1794), under the guillotine. Ilis crime was being rieh. Laborde had four sons. Three of these served in the navy; two accompanied the unfortunate La Peyrouse. They met their death, before the loss of La P'eyrouse's ressel, in an act of
heroism, which this navigator relates in the account of his voyage, and for which he had a monument erected to their memory, at Port Francois, on the coast of California. The oldest of these three, after laving retired from the navy, was appointed treasurer, and, in 1789 , member of the constituent assembly. His reports on the state of the finances were printed by order of the chamber. He died, 1801, a voluntary exile at London.

Laborde, Alexander Louis Joseph, count de, the youngest son of the preceding, born 1774, at Paris, entered the Austrian service, where, in consequence of a letter from his father to Joseph II, who entertained great esteem for the old Laborde, and had expressed the wish to see one of his sons in lis service, he was appointed lieutenant in the regiment Wen-zel-Colloredo, and was afterwards renoved to the light-horse regiment Kinsky, as captain. Laborde would willinglyhave served his country in the Frencli revolutionary war, but his name was on the list of emigrants. At that time, while lying womded at Heidelberg, lie made the acquaintance of general Oudinot (who had been taken prisoner by the regiment Kinsky) and others of his countrymen. This strengthened him in his resolution. As soon as the peace of Campo-Formio was concluded, he left the Austrian serviee, and obtained the erasure of his name from the list of emigrants. On his return to France, he devoted limself to science, made a journey to England, Inolland, Italy and Spain, and, on his return, published his splendid work, Voyage pittoresque et historique de l'Espagne ( 4 vols., fol.); his Itinéraire de l'Espagne ( 5 vols.); his Description of the Collection of Greek Vases belonging to Count Lamberg; his Voyage pittoresque on Autriche ( 2 vols., folio); and the commencement of his work on the monuments of France, in chronologieal order. He was elected a member of the institute, and Napoleon intrusted him with important business as counsellor of state. He likewise accompanied the emperor to Spain and Austria. In 1814, Laborde commanded a division of the national guard of Paris, and concluded, together with Tourton, in the name of marshal Moncey, the capitulation with the Russians. After the restoration, he made a second journey through England, and, on his return, published the first book in France on the system of mutual instruction. During three years, he was likewise first secretary to the central society for the extension of this method of education.

In 1818, he was again appointed counsellor of state, but was soon displaced on suspicion of liberal principles. In 1822, the departnent of the Seine elected him its representative. In this capacity, he has always opposed the encroacling spirit of the ultras with energy, and sometimes with success. His work on the prisous in Paris effected a material improvement in them. His treatise on the better construction of water-works, sluices, wells and pavements, drew the attention of the authorities to these objects.

Laboring of a ship implics pitching or rolling heavily in a turbulent sea-an effect by which the masts and liull are greatly endangered; because, by the rolling motion, the masts strain upon their shrouds with an effort which increases as the sine of their obliquity; and the continual agitation of the vessel often loosens her joints, and makes her extremely leaky.

Labrador; an extensive country of N. America, lying between Hudson's bay, the Atlantic ocean, and Canada, and extending from the 50 th to the 60 th degree of north latitude, or nearly 700 miles in lengtl, from north to soutl. It is about 500 miles in breadth, but has never been fully explored, and is little known, the severity of the climate and the barremness of the region confining the visits of foreiguers principally to the coasts. These are bordercd by inmumerable islands, so close together as to bear the appearance of main land, broken by inlets: this has given rise to much confusion in the charts. The summer is short, but extremely hot, and the winters are very rigorous. Great numbers of fish, of various kinds, particularly cod and salmon, are found on the shores, and in the small rivers. The islets are covered with flocks of sea-fowl, particularly eider ducks. Bears, wolves, foxes, hares, martens, \&c., are numerous. The population is sinall. The natives of the coast are Esquinaux. The tribes of the interior are little known. Labrador belongs to Great Britain, and is annexed to the government of Newfoundland. The Labrador fishery, in 1829, was calculated to employ 2108 vessels, and 24,100 seamen; 600 of the vessels, manned with 9110 men, and producing 678,000 cwt. of fish, and 6730 hhds. of oil, werc British; and 1500 vessels, manned with 15,000 men, and producing $1,100,000 \mathrm{cwt}$. of fish, and 11,000 hhds. of oil, were from the $U$. States. (See Fisheries.)

Labradorite, or Labrador Feldspar. This mineral scarcely differs from feldspar (q.v.) in the properties of its crys-
talline structure, except in having one of its cleavages somewhat less distinct. In hardness, also, it is nearly identical with that species; but its specific gravity is somewhat highcr, being 2.75. The remarkable opalescent and iridescent tints which it exhibits, constitute its most striking character. Its ordinary color is a dark gray. Its reflections, which, for variety and intenseness of color, vie with those of the opal, are visible only upon two opposite sides of any crystal or mass. Blue and green colors are the most common ; but occasionally these are intermingled with rich flame-colored tints. It is sawed into slabs by the lapidaries, and employed in inlaid work. The finest pieces are very highly esteemed. A square table, composed of two pieces of this stone, and whose dimensions were 13 inches by 20 , and 8 lines in thickness, was sold, in Paris, for 1800 francs. The Labradorite is composed of 54.6 silica, 29.0 alumine, 11.8 magnesia, and 4.6 soda. It was first distinguished by the reverend 13. Latrobe, among a number of specinens sent to lim from Labrador by the Moravian missionaries. It occurs, not only in peblles on the shore, but in spots in the rocks about Nain, and particularly near a lagoon about 50 or 60 miles inland. Its colors, darting through the limpid crystal of the lake, and flashing from the cliffs, more cspecially when moistened by a shower of rain, changing continually with every alteration in the position of the spectator, are described as almost realizing a scene in fairy land. Labrador fcldspar is also found upon the borders of the gulf of Finland, and at Fredericksvern, in Norway, and at some other places.

Labyrintii, with the ancients; a building containing such a number of clambers and galleries, one running into the other, as to make it very difficult to find the way through it. The Egyptian labyrinth, the most fanous of all, was situated in Central Egypt, above lake Mcris, not far from Crocodilopolis, in the country now called Fejoom. According to some writers, it was built by the Dodecarchs ( 650 B. C.) ; according to others, by Psammetichus; according to others, by Ismandes, who is also said to have been buried there. In all probability, it was a sepulchre. The building, half above and half below the ground, was one of the finest in the world, and is reported to have contained 3000 rooms, the arrangement of which scems to lave been symbolic of the zodiac and solar system. All these
rooms were encircled by a common wall and by columns; but thic passages were so intricate, that no stranger could find the way without a guide. It is said, that, in the lower rooms, the coffins of the builders of this immense fabric, and of the sacred crocodiles, were deposited, and that the upper rooms excelled, in splendor and art, all human works. At present, only 150 rooms are reported to be accessible: the others are dark, and choked with rublish. Respecting the interior construction and the destination of the labyrinth of Crete we know still less. The ancient writers consider this subterranean cavern to have bcen built by Diedalus, in imitation of that of Egypt, but on a smaller scale, by order of Minos, who confined there the Minotaur. According to others, it was a temple of the latter. The labyrinth at Clusium was crected by king Porsenna, probably for his own sepulchre. It was a square building of stone, 50 feet in lecight and 30 on each side. At each corner stood a pyramid, and also one in the centre, each 150 feet high, an' at the base, 75 feet wide. These edifices were not built for the purpose of making people lose their way; this was mercly an accidental peculiarity, on account of which every confused mass of things, difficult to be disentangled, has been called a labyrinth. The same name is also given to a part of the car. (q. v.)
Lac, Lak, Laak, and Lák'r, are different ways of spelling the vulgar derivatives from the Sanscrit words läkshà and lakshu, i. e. one humdred thousand; a name given by the Hindoos to the coccus lacca and gum-lac, for which they have six different terms; "but they generally call it laksha," says sir William Joncs (As. Res. ii, 364 ), "from the multitude of snall insects which, as they believe, discharge it from their stomachs, and at length destroy the tree on which they form their colonies." The gum-lae is probably discharged by the coccus, as a defence for its egge, which are deposited on the bilar tree. Four kinds are known-stick-lac, secd-lac, lump-lac, and slell-lac. The first is the gum beforc its separation from the twigs, which it incrusts ; and the best is of a red purplish color: the second is the gum in a granulated form, stripped from the twigs, and perhaps boiled, by which a portion of the color is lost : the third is the seed-lac, melted into cakes: and the fourth, the common form in which it is known in Europe, is the purified gum. The best is amber-colored and trauspatrent. In the East, it is much used for
vol. vir.
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trinkets. It is the basis of sealing-wax. It forms varnishce, furnishes a brilliant red dye, and, mixed with thrice its weight of fine sand, is made into polishing stones. (Sce Coccus.) Lac, in its original meaning, is applied to the computation of money in the East Indics. Thus a lak of rupees is 100,000 , which, supposing then to be sicca, or standard, equal $£ 12,500$.

Lacailee. (See Caille.)
Laccadire Islanos; a group of small islands in the Indian sea : the nearest is about 120 miles from the coast of Malabar; lon. $71^{\circ} 15^{\prime}$ to $73^{\circ} 30^{\prime} \mathrm{E}$. ; lat. $10^{\circ}$ to $12^{\circ}$ 40 N . These islands are supposed to he what Ptolemy called Insule Niumero XIX; but, in fact, they are 32 , all of them small, and covered with trecs. They are rocky on their sides, mostly us if laid on a bottom of sand, attended with reefs, and the clamnels between them very deep. They are commonly visited by English ships, in their way from India to the Persian gulf or Red sea. The principal traffic of the inhabitants is in the produce of the cocoa palin, such as the oil, the cables and cordage prepared from this plant; and in fish, which is dried and sent to the continent of India, from whence they get rice, \&c., in return. They also trade to Mascat, in large boats, and bring back, in return for their commodities, dates and coffec. Ambergris is often found floating off these islands. The inhabitants are mostly Mohammedans, called Moplays.

Lace is a species of net-work, made of silk, thread, or cotton, upon which, in old times, patterns were embroidered by the necdle, after its construction: they are now, for the most part, formed during the knitting itsclf. The best laces are nade at Mechlin, Brussels, Antwerp, Ghent and Valenciennes. In England, Buckinghamshire chiefly furnishes lace knit by hand, which requires much patience and assiduity. The lace made by machinery is largely manufactured at Notlinglam. The invention of lace knitting is attributed? by Beckmam (ii. 313) to Barbara, wife of Christopher Uttman of St. Annaberg, in 1561. Paulus Jeuisius, in his history of that town, states as follows: Hoc anno (1561), filum albam retortum in varias formas Phrygio opere duci ccepit ; and therc are many other authorities for the name of the workwoman. It may be, however, that shc introduced the manufacture, rather than invented it. Lace worked by the needle is of far older date. It is found richly and abundantly in church furniture of great antiquity, and is supposed to have been originally made in

Italy, particularly at Genoa and Venice. The Opus Phrygianum, to which allusions are made by Plautus (Menachmi, ii, 3 ; Aulularia, iii, 5), and by Pliny (viii, 74), is considered by Beckmann to have becn no more than needle-work; and so the expressions of the latter writer are understood by Holland: "As for embroderie itself, and needle-worke, it was the Phrygians' invention, and hereupon embroderers, in Latine, bce called Phrygiones." Point-lace is that embroidered by the needle, and, from the great labor required, is therefore most expensive. In the lace knit by hand, as many threads are employed as the pattern and breadth require. These are wound upon the requisite number of bobbins (made of bone, whence the name bone-lace), which are thrown over and under each other in various ways, so that the threads twine round pins stuck in the holes of the pattern-a stiff parclınent stretched on a cuslion or pillow-and by these means produce the openings which give the desired figure. In that made by machinery, the meshes are all formed by a continuation of a single thread. The coarsest is called Mechlin-net, the finest, bobbin-nct, from the cmployment of bobbins. Lace marle by the loom is generally known as British lace.

Lacedemon. (See Sparta.).
Lacépède, Bernard Germain Étienne, count Delaville sur Illon de, naturalist, pecr of Francc, born at Agen, 1756, was, from his youth, passionatcly attached to natural history and music : he consequently abandoned the military profession, for which he was destined, and devoted himself to the study of natural history. His teachers and friends, Buffon and Daubenton, procured him the important situation of keeper of the collections belonging to the department of natural history in the jardin des plantes. At the breaking out of the revolution, he was elected a member of the legislative assembly, and belonged to the moderate party. To withdraw from the storms of the period of terrorism, he resigned his situation, and retired to his country-seat Lenville. He again made his appearance under the directory, and was appointed one of the first members of the institution. Napoleon made Lacépède a meinber of the conservative senate, and conferred on him the dignity of grand chancellor of the legion of honor. Lacépède bccame one of the most zealous adherents of the emperor, and, during the 10 years of the imperial reign, few public celebrations occurred at
which he did not appear as an orator. His bencvolence and lis inattention to his own atlairs involved him in delot. Napoleon, thercfore, gave him a salary of 40,000 francs. Atter the first restoration, Lacépede lost his situation of grand chancellor of the lcgion of honor, but was raised to the pccrage by the king. During the hundred days, the cmperor appointed him grand master of the university ; but he declined this office, and devoted himself solely to the sciences. In 1817, he published a new edition of Buffon's works, and announced, at the same time, that, at the desire of lis deceased fricnd Lagrange, he intended to publish his Theory on the Formation of Comets. He likewise published a continuation of the work on the Cetacea, commenecd by his great predecessors. His History of Fishes ( 5 volumes, 4to.), is considered his principal work. The completc collection of his works, in which are included two small novels, which appeared anonyınously, and the opera Omphale, is voluminous. Lacépede could adorn the driest subjects with the graces of a brilliant style. He died Oct. 6, 1825, at his country-seat Epinay, near St. Denis, of the small-pox. Villeneuve wrote lis Éloge Historique (Paris, 1826). Of Lacépède's very dcfective Histoire Civile ct Militaire de l'Europe (from the end of the fifth, till the middle of the eightecnth century), in 18 volumes, the two first volumes appeared after his death (Paris, 1826).

Lachaise, François d'Aix de, confessor of Louis XIV, member of the congregation of Jesuits, was born in the chatteau d'Aix, in August, 1624. The fanily D'Aix de Lachaise was one of the most respectable in France, and a grand uncle of François de Lachaise, father Cotton, had been confessor of Henry IV. In the Jesuit college at Rohan, which had been founded by one of his anccstors, Lachaise commenced his course of studies, and finished it at Lyons. He was the provincial of his order, when Louis, on the death of his former confessor, father Ferrier, appointed Lachaise his successor. This appointment occasioned surprise, because, on the one hand, the disputes betwcen the parties of Jansenists, Molinists, \&c., divided the court of Louis XIV, already infected, by tho example of the king, with a sickly kind of devotion, as also the capital, which fluctuated, in imitation of the court, between licentiousness and bigotry; and, on the other hand, no Jesuit, since father Cotton, had been chosen to this important situation. The new confessor was soon
involved in a web of court intrigues. Mine. de Montespan and Mme. de Maintenon, the Janscnists and Jesuits, stood opposed to each other, and Louis, moved by scnsuality and superstition, wavered like a reed between these parties. Nevertheless, Lachaise maintained his ground, although he was equally obmoxious to Mme. de Montespan and Mmc. de Maintenon, who frequently expressed their dislike to him in bitter sarcasins. On every occasion-at the famous declaration of the French clergy respecting the liberties of the Gallicau church, at the revocation of the edict of Nantes, on occasion of the disputes of the Quietists, at the marriage of Mme. de Maintcnon with the king (1686), and similar inportant events of the time-father Lachaise, in consequence of his office, was more or less forced to play a part; and, although he reflected well on every stcp , he took, he constantly received the severest reproaches from both partics. The most intelligent men, however, never judged unfavorably of his private character and his conduct ; and St. Simon, who was no friend to the Jesuits, as well as Voltaire, in his account of the agc of Louis XIV, De Boza, Spon, and others, acknowledge, that the confessor of the vainest monarch, and the mediator betwcen the most exasperated parties, knew how to conduct himself, under all circunstances, with address, coolness and sagacity, and that, although a zealous Jesuit, he never allowed himself to be drawn into violent ineasures against his opponents. That Louis formally married Mme. de Maintenon, Voltaire attributes principally to the counsels of Lachaise; but that this narriage remained secret, and was not publicly acknowledged, according to the desire of that ambitious woman, may likewise be attributed to Lachaise, who, on this account, liad constantly to endure her hatred. Lachaise, maintaining his ground in the favor of his monarch till his end, and acting as his counsellor, even when age and wcakness had almost converted liim into a living skeleton, and weakened his faculties, died January, 1709, at the age of 85 . He left philosoplical, theological and archæological works. His taste for the study of numisinatics, and the great share which he had in the improvement of this branclı of science in France, are well known. Louis XIV had a country-liouse built for him at the end of the present Roulevard neufs, which, at that time, owing to its situation on a hill, reccived the name of Mont-Louis. Its exteusive garden now forms the cemetery
of Père Lachaise, the largest in Paris. (See Cemetery.) Many splendid monuments now adorn the place, where, formerly, the courtiers of Louis XIV used frequently to meet, to pay their respects to the confessor of their absolute master. The situation of the burying-place, on the declivity of a hill, affords one of the most delightful views of a principal part of the city and its suburbs. At the approach of the allies, in 1814, this burialplace was fortified, and defended by the students of the polytechnical and veterinary school. The Russians, in storming it, did great injury: the shaded walks, particularly, suffered by the bivouac of the troops, but have since been repaired. A short time previous to the second taking of Paris (1815), viz. from June 24 till July 8, no burials took place in the cemetery of Pire Lachaise, on account of the troops which surrounded the capital. During this time, the dead were buried in the cemetery of Ste. Marguerite, situated in the town, which had been long out of use.

Lachryme Christi (Latin, tears of Christ); a superior kind of Italian wine, so called, it is said, because it drops like tears from the press, before the grapes are subjected to any pressure except their own weight. It is dark-red, and the grape grows at the foot, and, to a certain height, on the sides, of mount Vesuvius. On several of the Greek islands, also, a kind of wine is produced in the same way.

Lachrymatories (i. e.iear-botlles; from lachryma, Latin, a tear); small glass or earthen vessels found in tomns, so called, because they were supposed to have been used by the ancient Romans to collect the tears of the friends of the deceased. Some of them contain the impression of one or of two eyes. They are now considered to have bcen used for containing aromatic liquids, to be poured upon the funeral pile.

Laclos, Pierre-François-Choderlos de, author of the famous romance Les Licisons dangereuses, which first appeared in 1782, was born at Amiens, in 1741, and, before the revolution, was a French officer of artillery, and secretary to the duke of Orleans. Laclos was considered, when he was young, as one of the most talented and agrceable, and, in a moral point of view, as one of the most dangerous men. Ifis enemies have maintained that he has drawn his own character in that of the viscount de Valmont, in lis romance. Others celebrate the simplicity, honesty and good nature of his character, at least
in the latter part of his life. He was one of the leaders of the Orleans faction, as it was called. Bcing implieated in the uffair of the 5 th and 6th of October, he followed the duke of Orleans to London. After the return of the king from Varennes, Laclos endeavored, by means of the Jacobin club, to effect the foundation of a republic, as he conceived that this step would lead eventually to the elevation of the house of Orleans to the French throne. At the breaking out of the war, Laclos was transferred as an assistant to the old Luckner, and, after the fall of the house of Orleans, he disappeared from the stage. It is difficult to explain how Robespierre came to spare a man who was one of the firmest adherents of this proscribed house; and thus the report originaterl, that Laclos prepared the speeches of the tribune of the people. Atter the 9th 'Ihermidor, Laclos returned to the military profession, and was advanced to the othice of inspector-general of artillery. He died at Tarentum, in 1803.

Laconia. (See Sparta.)
Lacretelle ; two brothers, well known is authors, but entirely opposed to cach other in principles.-1. Picrre Louis Lacretelle, the elder (commonly called Lacretelle ainé), was born in 1751, at Metz, where his father was an advocate, and died Sept. 5, 1824, at Paris. Animated by the masterly works of the advocate-gencral Servan to the study of law, ethics and literature, he went, in $\mathbf{1 7 7 8}$, to Paris, where he becarne parliamentary advocate, and, by his writings-Eloge de Montausier (which obtained the sccond prize in 1781), Memoires du Comte de Saunois (a worlk new and unique in its kind), and the Discours sur le préjugé des Peines infamantes (which received the prize of the academy) -rendered limsclf worthy of a place in the institute, where he succecded La Harpe, with whom he was concerued in editing the Mercure-an occupation which lie undertook anew, in 1817, under very different circumstances, in conjunction with Jouy, Jay, B. Constant and others. Lacrctelle embraced the principles of the revolution with the ardor of a noble mind, but without concurring in its excesses. In the legislative assembly, in 1792, he was one of the leaders of the constitutional party, in opposition to the Girondists, who were in favor of republieanism. After the 10 th of August, Lacretelle devoted his attention wholly to literature. We find him again in public life in 1801, when he was a member of the legislative body of Napoleon. Here he retained his inde-
pendence in the midst of political revolutions. When the government of Napoleon destroyed his hopes of the establishment of a liberty foumded on the laws, le again retired. His poverty, which lie neither complained of nor regretted, was honorable to him. The aristocratical reaction, which took place in France, after the second restoration, and was particularly memorable in the chamber of 1815 (see Chambre Introuvable), threw him into the opposition, which the liberal party at that time began to form, aud in support of which they had mendertaken the direction of the Mercure de France. But this journal, which appeared on fixed days, becoming subject, in consequence of a new law, to the inspection of the ceusor of the press, was given up, and the Minerve Francaise, which appeared irrcgularly, took its j)lace. Lacretelle, in conjunction with Aignan, had the direction of this literary and political joumal. The Ninerve Francaise obtaincd so decided an influenre upon public opinion, that this was also subjected, hy a new ordinance, to the cellsorship, after eight volumes had been pub)lished, upon which it was innmediately discontinucd. Lacretelle, who was now a bookseller, hazarded a continuation of it in the form of small panphlets; but he was subjected to a prosccution, in whiclı he defended himself with great energy and ability. He was condemmed, howerer, to iniprisonment ; but Louis XVIII remitted the sentencc on account of his age and infirmities, and the general estcen in which lie was hedd. From that time, Lacretelle employed himself upon a collection of his works, which appeared at Paris, in 1823, in four parts. He was the author of many logical, metaphysical and ethical articles in the Encyclopedie méthodique. Many of his scattered essays and treatises appeared in 1802, under the title of Euvres diverses, in five volumes, to which, in 1817, he subjoined Fragmens politiques et littéraires, and, in 1822, Euvres, and Portraits et Tableaux (anong them those of Mirabeau, Bonaparte and Lafayette), in two volumes. His theatrical romance Malherbe, on le Fils naturel (D'Alembert), is an excellent dramatic poem. His Soirées avec Guillaume Lamoignon de Malesherbes, and his Études sur la Révolution Francaise, are also highly estecmed. Both h.have bcen published since his death.-2. Charles Lacretelle, the younger brother of the preceding, went, iwhen very young, to Paris, at the breaking out of the revolution. He soon attracted attention by his logical acuteness,
and the editorial department of the Journal des Débats, which was established at that time, was committed to him in connexion with another individual by the name of II. Dueos. His second literary production was his Précis de la Révolution, which was a continuation of the work of Rabaud St. Etienne. On the occasion of the opposition of the Parisian sections to the decree of the national convention retaining two thirds of their number in the new legislature, Charles Lacretelle composed, in the name of the sections, the caustic addresses to the convention, as well as to the electoral assemblies of France; but, on the 13th Vendémiaire, Bonaparte put an end to these commotions. Being, however, attached to the then existing opposition, and using his influence in its favor, he was, on the 18th Fructidor, arrested, and retained prisoner for two years. After the 18th Brumaire, however, Napoleon employed his talents in various oecupations. In 1813, lie received Esmenard's place in the national institute, and, in 1816, the presideney of the French academy, or the third class of the institute. The historical leetures, which, as professor of history, lie delivered before the university of Paris, were among the most frequented in that city. As a listorical writer, he has a peculiarly brilliant dietion, although his ideas want force and profundity. His Histoire de France pendant les Guerres de Religion is more lighly esteemed than his Histoire de France pendant le dix-huitième Sièle (14 volumes, 1826). Lacretelle has now renounced his former philosophical views. In his L'Histoire de l'Assemblée constituante, he takes part entirely with the ultras and obscurants. During twentysix years, he was censor of the departinent of the drama. He has been termed the chief support of the Societté des bonnes Lettres, so called. He was likewise honored with the dignity of nolility by Louis XVIII. In 1827 , the ministry deprived him of his censor's office, because he favored, in the academy, the petition to the king against the laws respecting the censorship of the press. In 1829 appeared his Histoire de France depuis la Restauration (3 volumes, not completed).

Lactantius, Lucius Colius Firmianus, a celebrated father of the Latin church, distinguished as an orator and author, is commonly supposed to have been an African. He lived for a long time at Nicomedia, as a teacher of rhetoric, until Constantine the Great committed to his eare the education of his eldest son, Cris-
pus. He died about 325 . His writings (published by Sparke, at Oxford, 1684 ; by Bünemann, at Leipsic, 1739 ; by Dufresnoy, at Paris, 1748, 2 volumes, 4to.; and by Oberthür, at Wurtzburg, in 1783 , 2 volimes) are characterized by a clear and agreeable style, and he is, on account of his pure and eloquent language, frequently ealled the Christian Cicero. His seven books Institutiones divince are particularly celebrated, and worthy of notice.

Ladies' Slipper (cypripedium); a beautiful genus of orclideous plants, eonspicuous for its large, inflated flowers. The roots are peremial ; the stems simple, bearing eutire sheathing leaves; and the flowers are solitary or few in number. The speeies are confined to the northern regions of the globe: six inhabit the AIleghany mountains, Canada, and the northern parts of the U. States; and five are found in Siberia, and the northern and mountainous parts of Europe.

Ladoga, or Ladozskoi ; a lake in Russia, between the Baltie and the lake Onega, surrounded by the governinents of Petersburg, Viborg and Olonetz. The south-west extremity lies 30 miles cast of Petersburg. It is 140 miles long, and 75 broad, containing 6200 square miles, and is the largest lake in Europe. It eontains an abundance of fish, particularly salinon. The shores are flat, but the navigation dangerous, on account of quicksands.

Ladrones; a cluster of islands in the Northern Pacific occan, diseovered by Magellan. Their number is stated by some authorities us 14, by others as 10. They occupy a space of 450 miles; lon. $145^{\circ}$ to $140^{\circ} \mathrm{E}$. ; lat. $13^{\circ}$ to $21^{\circ} \mathrm{N}$. Magellau called them Islas de Ladrones (islands of thieves), because the natives stole every thing made of iron whieh they could find. Towards the end of the seventeenth century, they received the name of Mariana, or Marianne islands, from the queen of Spain, Mary Ana of Austria, the mother of Charles II, at whose expense missionaries were scnt over thither, to propagate the Cliristian faith. In almost all books of history and voyages, as well as in maps, we find them styled the Ladrones; notwithstanding which, the above-mentioned name has gradually gained ground. These islands lie in the torrid zone; and yet so mueh is the heat of the sun tempered by the air, and by breezes of the sea, that the climate is generally serene, salubrious and pleasant: in some seasons of the year only they are liable to hurricanes, which, though they do sometimes a great deal of nischief, yet
clear and refresh the air in such a manner that, before they were visited by the Europeans, the people commonly lived to a great agc. The inhabitants are tall, robust, active and ingenious. 'They wear little clothing. Both sexes stain their teeth black, and paint their bodies rel. Their religion is an ignorant superstition. That most extraordinary and nsefin plant, the bread-fruit tree, was first discovered here.

Lady-Bird; a pretty species of beetle, belonging to the extensive genus coccinella, having the clytra red, bordering on yellow, and adorned with two black spots, one on the middle of each. It appears, however, that almost all the sinall and spotted beetles of this genus are indiscriminately known under the name of lady-bird. Ail these insects deposit their eggs on the leaves of trees, and the larve produced are great devourers of plant-lice (aphis). They continue in the chrysalid state about a fortnight. Their wings, when they first burst their covering, are soft and dusky, but soon become hard, and assume the various colors appropriate to the specics. The lady-bird is celebrated for its reputed powers in the cure of tooth-ache; for which purpose one of these insects is to be erushed between the finger and thumb, which are then to be several times applied to the suffering part. Their virtue in effecting a cure depends on the same cause is that of Perkins's metallic tractors, und other scions of animal magnetismthe imagination of the patient.

Lanertes, son of Acrisius and Chalcoinethusa, was one of the heroes engaged in the chase of the Caledonian boar, and in the expedition of the Argonauts. He afterwards married Euryclea, the daughter of Autolycus, by whom lie had several daughters and one son, Ulysses. He attained a great age. The long absence of his son, in the Trojan war, plunged him into deep melancholy ; but his return restored the old man's energies, and he took part in the fight with the Ithaeans.

Letare; the fourth Sunday after Lent. The ancient Christian churcli used to begin its serviee, on this day, with the words Latare, sterilis, or Latare, Jerusalem.

Lafayette, Gilbert Mottier (formerly marquis de), was born at Chavagnac, near Brioude, in Auvergne, Sept. 6, 1757, was edueated in the college of Louis le Grand, in Paris, placed at eourt, as an offieer in one of the ginards of thonor, and, at the age of 17, was married to the grauddaughter of the duke de Noailles. It was under these eircumstances, that the young marquis de Lafayette entered upon a ca-
reer so little to be expected of a youth of vast fortune, of high rank, of powerful eomexions, at the most brilliant and fascinating eourt in the world. 11e left Frunce seeretly for America, in 1777, and arrived at Charleston, South Carolina, April 25 , heing then 19 years old. The state of this eountry, it is well known, was, at t'aat time, most gloomy: a feeble army, without clothing or arms, was with difficulty kept together before a vietorious onemy; the government was without resonrces or credit, and the American agents in Paris were actually obliged to confess that they could not furuish the young nobleman with a ponveyance. "Then," said he, "I will fit out a vessel myself;" and he did so. 'The sensation produced in this comntry, by lis arrival, was very great: it encouraged the ahmost disheartened people to lope for succor and sympathy from one of the nost powerfin nations in Europe. Inmediately on his arrival, Lafayette received the offer of a eoinmand in the contincntal army, but declined it, raised and equipped a body of men at his own expense, and then entered the serviee as a volunteer, without pay. He lived in the family of the com-mander-in-chief, and won his full affection and confidencc. He was appointed major-general in July, and, in September, was wounded at Brandywine. He was employed in Pennsylvania and Rhode Island in 1778, and, after reeeiving the thanks of the country for his important services, einbarked at Boston, in January, 1779, for France, where it was thought that he eould assist the cause more effectually for a time. The treaty concluded between France and America, about the same period, was, by his personal exertions, made effective in our favor, and he returned to America, with the intelligence that a Frencli force would soon be sent to this eountry. Immediately on his arrival, he entered the service, and received the command of a body of infantry of about 2000 men, which he clothed and equipped, in part, at his own cxpense. Ilis forced march to Virginia, in Deecmber, 1780 , raising 2000 guincas at Baltimore, on his own credit, to supply the wants of his troops; his rescue of Richmond; his long trial of gencralship with Comwallis, who boasted that "the boy could not escape him;" the siege of Yorktown, and the stomning of the redoubt, are proofs of his rlevotion to the eause of Ameriean indepentence. Desirous of serving that cause at home, he again returned to France for that purpose. Con-
gress, which had already acknowledged his inerits on former occasions, now passed nesv resolutions, Nov. 23, 1781, in which, besides the usual marks of approbation, they desire the Anerican ministers to confer with him in their negotiations. In France, a brilliant reputation had preceded him, and he was received with the highest inarks of public admiration. Still he urgel npou his government the necessity of negotiating with a powerful force in America, and succecded in obtaining orders to this effect. On his arrival in Cadiz, he found 49 ships, with 20,000 men, ready to follow him to America, had not peace rendered it unnecessary. A letter from him communicated the first intelligence of that event to congress. The importance of his services in France may be seen by consulting his letters in the Correspondence of the American Revolution (Boston, 1831). He received pressing invitations, however, to revisit the comntry. Washington, in particular, urged it strongly; and, for the third time, Lafayette lamded in the U. States, Aug. 4, 1784. After passing a few days at Mount Vernou, he visited Baltimore, Pliladelphia, New York, Boston, \&c., and was every where received with the greatest enthusiasm and delight. Previous to his return to France, congress appointed a deputation, consisting of one inember from cach state, "to take leave of him on behalf of the country, and assure liim that these U. States regarl him with particular affection, and will not cease to feel an interest in whatever may concern his honor and prosperity." After lis return, he was engaged in endeavoring to mitigate the condition of the Protestants in France, and to eflect the abolition of slavery. In the assembly of the notables, in 1787, he proposed the suppression of lettres de cachet, and of the state-prisons, the cmancipation of the Protestants, and the convocation of the represcntatives of the nation. When asked ly the count D'Artois, since Charles X , if he demanded the states-general-"Yes," was his reply, "and something better." Being elected a member of the states-general, which took the name of national asscmbly ( 1789 ), he proposed a declaration of rights, and the decree providing for the responsibility of the officers of the crown. Two days after the attack on the Bustile, he was appointed (July 15) conmmader-in-chief of the national guards of Paris. The court and national assembly were still at Versailles, and the populace of Paris, irritated at this, had already adopted, in sign of opposition, a blue and
red cockade (being the colors of the city of Paris). July 26, Lafayette added to this cockade the white of the royal arms, declaring at the same time that the tricolor should go round the world. On the march of the populace to Vcrsailles (October 5 and 6), the natiomal guards clamored to be led thither. Lafayette refused to comply with their demand, until, having received orders in the afternoon, he set offi, and arrived at 10 o'clock, after having been on horseback from before day-light. He requested that the interior posts of the château might be committed to him; but this request was refused, and the outer posts only were intrusted to the national guards. This was the night on which the assassins murdered two of the quecu's guards, and were proceeding to further acts of violence, when Lafayette, at the head of the national troops, put an end to the disorder, and saved the lives of the royal family. In the morning, he accompanied them to Paris. (See Louis XV1.) On the establishment of the Jacobin club at Paris, he organized, with Bailly, then mayor of Paris, the opposing club of Feuillans. Jan. 20, 1790, he supported the motion for the abolition of titles of nobility, from which period he renounced his own, and has never since resumed it. The constitution of a representative monarchy, which was the object of his wishes, was now proposed, and July 13, 1790, was appointed for its acceptance by the king and the nation, and, in the name of $4,000,000$ national guards, Lafinette swore fidelity to the constitution. Declining the dangerous power of constable of France, or generalissime of the national guards of the kingdom, after laving organized the national militia, and defended the king from the popular violence, he resigned all command, and retired to his cstates. The first coalition against F'rance (1792) soon called him from his retirement. Being appointed one of the three majur-generals in the command of the French armies, le cstallished discipline, and defeated the encmy at Plilippeville, Maubeuge and Florcmes, when his career of success was interrupted by the domestic factions of his comintry. Lafayette openly denominced the terrible Jacobins, in his letter of June 16, in which he declared that the encmies of the revolution, moder the mask of popular leaders, were endeavoring to stifle liberty under the excesses of licentiousness. June 20, he appeared at the bar of the assembly, to vindicate his conduct, and demand the punishment of the guilty authors of the violence. But the Mountais
had already overthrown the constitution, and notling could be effeeted. Lafayette then offered to conduet the king and his family to Compiègne. This proffer being deelined, he returned to the army, whicle he endeavored to rally round the constitution. June 30, he was burnt in effigy at the Palais-Royal, and, Aug. 5, was accused of treason before the assembly. Still he declared himself openly against the proceedings of August 10 ; hut, fiuding himself unsupported hy his soldiers, lie determined to leave the country, and take refuge in some neutral ground. Some persons have charged general Lafayette with a want of firmness it this period; but it is withont a full understanding of the situation of things. Conscious that a price was set on his head at home, knowing that his troops would not support him against the principles which were triumphing in the clubs and the assembly, and sensible that, even if he were able to protract the contest with the victorious faction, the frontiers would be exposed to the invasions of the emigrants and their foreign allies, with whom he would have felt it treason agaiust the nation to have negotiated, le had no alternative. Having been captured by an Austrian patrol, he was delivered to the Prussians, by whom lie was again transferred to Austria. He was carricd, with great secreey, to Olmütz, where he was subjected to every privation and suffering, and cut off from all communication with his friends, who were not even able to diseover the place of his confinement until late in 1794. An unsuccessful attempt was made to deliver him from prison by Dr. Bollnan, a German, and Mr. Huger (now colonel Huger, of Charleston, S. C.). His wife and daughters, however, succeeded in obtaining admission to him, and remained with him nearly two years, till his release. Waslıington had written direetly to the emperor of Austria on his behalf, without effect; but, after the inemorable campaign of Bonaparte in Italy, the French government required that the prisoners at Olmütz should be released, which was done Aug. 25, 1797, after a negotiation that lasted three months. Refusing to take any part in the revolutions of the 18th Fructidor, or of the 18th Brumaire, he returned to his estate at La Grange, and, declining the dignity of senator, offered him by Bonaparte, he gave his vote against the consulate for life, and, taking no further part in publie affairs, devoted himself to agricultural pursuits. On the restoration of the Bourbons, in 1814, he perceived that their prin-
eiples of government were not sueh as France required, and he did not therefore leave lis retirement. The 20th of March, 1815, again saw Najoleon on the imperial throne, and endeavoring to conciliate the nation by the profession of liberal principles. Lafayette refused, though urged, through the mediation of Josepll, to sce him, protested aguinst the acte additionnel of A pril 22, deelined the peerage offered him by the emperor, but aceepted the place of representative, to which the votes of his fellow-eitizens ealled him. He first met Napoleon at the opening of the chambors: the emperor received him with great marks of kindness, to which, however, he did not respond; lint, although he would take no part in the projects of Napoleon, he gave lis vote for all neeessary supplies, on the ground that Franco was invaded, and that it was the duty of all Frencluneu to defend their conntry. June 21, Napoleon returned from Waterloo, and it was understood that it was determined to dissolve the house of representatives, and establish a dietatorship. Two of his counsellors informed Lafayetto that, in two lours, the representative body would cease to exist. Inmediately on the opening of the session, he ascended the tribune, and addressed the loouse as follows: " When, for the first time, after an interval of many years, I raise a voice which all the old friends of liberty will still recognise, it is to speak of the dangers of the conntry, which you only can save. This, then, is the moment for us to rally round the old tri-eolored standard, the standard of ' 89 , of hiberty, of equality, of public order, which we have now to defend against foreign violence and domestic usurpation." He then moved that the louse declare itself in permanent session, and all attempts to dissolve it high treason; that whoever should make suel an attempt, should be considered a traitor to the country, \&e. In the evening, Napoleon sent Lucien to the house, to make one more effort in his favor. Lueien, in a strain of impassioned eloquenee, conjured the house not to compromise the honor of the French nation ly ineonstancy to the emperor. At these words, Lafayette rose in lis place, and, addressing himself direetly to the orator, exelaimed, "Who dares accuse the Frenelr nation of inconstancy to the emperor? Through the sands of Egypt, and the wastes of Russia, over 50 fields of battle, this nation las followed him devotedly; and it is for this that we now mourn the blood of three millions of Frenclimen." This ap-
peal had such an effect on the assembly, that Lucien resumed his seat without finishing his discourse. A deputation of five inembers from cach house was then appointed to deliberate in committec with the council of ministers. Of this deputation, gencral Lafayette was a member, and lic moved that a committce should be sent to the cmperor to demand his abdication. The arch-chancellor refused to put the motion; but the emperor sent in his abdication the next morning (June 22). A provisional government was formed, and Lafayette was sent to demand a suspension of hostilities of the allies, which was refused. On his return, he found Paris in possession of the enemy; and, a few days after (July 8), the doors of the representatives' chamber were closed, and guarded by Prussian troojs. Lafayette conducted a number of the members to the housc of Laujuinais (q. v.), the president, where they drew up a protest against this act of violence, and quictly separated. Lufayette now retired once more to La Grange, where he remained till 1818 , when he was chosen member of the chamber of deputies. Here he continued to support his constitutional principles, by opposing the laws of exception (see Laves of Exception), the establishment of the censorship of the press, the suspension of personal liberty, \&ec., and by adrocating the cause of public instruction, the organization of a national militia, and the inviolability of the char-ter.-In August, 1824, he landed at New York, on a visit to the U. States, upon the invitation of the president, and was received, in evcry part of the comutry, with the warmest expressions of delight and enthusiasm. Me was prochaimed, by the popular voice, "the gucst of the nation," and his presence was every where the signal for festivals aud rejoicings. He l'assed through the 24 states of the Union in a sort of triumphal procession, in which all parties joined to forget their dissensions, in which the veterans of the war renewed their youth, and the young were carried back to the doings and sufferings of their fathers. Having celebrated, at Bunker hill, the amiversary of the first conflict of the revolution, and, at Yorktown, that of its closing scene, in which he himself had borne so conspicuous a part, and taken leave of the four ex-presidents of the U . States, he reccived the farewell of the president in the name of the nation, and sailed from the capital in a frigate named, in compliment to him, the Brandywiuc, Sept. 7, 1825, and arrived at Havre, where the citizens, having peaceably as-
sembled to make some demonstration of their respect for his character, were dispersed by the gendarmerie. In December following, the congress of the U. States made him a grant of $\$ 200,000$, and a township of land, "in consideration of his important services and expenditures during the American revolution." The grant of money was in the shape of stock, bearing interest at six per cent., and redeemable Dec. 31, 1834. In Augnst, 1827, he attended the obsequies of Manuel, over whose body he pronounced a eulogy. In November, 1827, the chamber of deputics was dissolved. Lafayette was again returned a member by the new elections. Shortly before the revolution of 1830 , he travelled to Lyons, \&c., and was enthusiastically reccived-a striking contrast to the conduct of the ministers towards him, and an alarming syinptom to the despotic govermment. During the revolution of July, 1830, he was appointed general-inchief of the national guards of Paris (q. v.), and, thongh not personally cngaged in the fight, his activity and name were of the greatest service. To the Americans, Lafaycte, the intimate friend of Washington, hail appeared, in his late visit, almost like a great instorical character returning from beyond the grave. In the eyes of the French, he is a man of the early days of their rev-olution-a man, moreover, who has never changed side or principle. His undeviating consistency is acknowledged by all, even by those who do not allow him the possession of first rate talents. When the national guards were established throughout France, after the termination of the struggle, he was appointed their com-mander-in-chief, and his activity in this post was admirable. Aug. 17, he was made marshal of France. His influence with the government seems to have been, for some time, great, but whether his principles were too decidedly republican to please the new authorities (a few days after the adoption of the new charter, he declared himself against hereditary peerage, and repeatcdly called hinself a pupil of the American school), or whether he was considered as the rallying point of the republican party, or whatever may have been the reason, he sent in his resignation in December, 1830, which was accepted, and count Lobau appointed chief of the national guards of Paris. Lafayette declared froin the tribune, that he had acted thus in consequence of the distrust which the power accompanying lis situation seemed to excite in some people. On the same occasion, he also expressed his disap-
probation of the new law of eleetion. Shortly before his resignation, he exerted himself most praiseworthily to maintain orler during the trial of the ex-ministers. The Poles lately made him first grenadier of the Polish national guards. We are unable to state what are Lafayette's views respeeting the best government for France in its present condition, though undoubtedly, in the abstract, he prefers a republic. Regnault-Warin's Mémoires sur le Général Lafayette (Paris, 1824) contains many facts relative to his political life in France. His secretary, M. Levasseur, published an account of his tour in the $\mathbf{U}$. States (Paris, 1825), which has been translated in America. (For further information, see the North American Revievo for January, 1825.)
Lafayette, Maria Magdalena, countess de; a lady of literary celebrity, daughter of the governor of Hàvre de Gràce, Aymar de la Vergne. A careful and elassical education had given her a great love for literature. In 1655, she married count Francis de Lafayette, and her house now became a place of meeting for the most distinguished men of lier time. The famous duke of Roehefoncauld was one of her intimate friends. Among the learned men who surrounded her, the most distinguished were Huet, Ménage, Lafontaine and Ségrais. She died 1693. Her works entitle her to an honorable place among French writers. The most distinguished of them are Zaïde, La Princesse de Clèves, and La Princesse de Montpensier.
Lafayette Mountain. (See Haystack.)
Laffitte, Jacques, a banker in Paris, nember of the legion of honor, and, in 1816 , eleeted to the chamber of deputies, a man equally distinguished for his talents, his wealth1 and his virtues, was born at Bayonne, in 1767, and, by his own diligence and merit, acquired a fortune in the banking-louse of the senator Perregaux. In 1805, he beeame the head of the house, which he made one of the first houses in Franee. In 1809, he was appointed direetor of the bank of France, and, in 1814, president of the same establishment. He discharged the duties of this important office without aceepting the large salary conneeted with it. In 1809, he was made president of the chamber of commeree in Paris, and, in 1813, judge of the tribunal of commeree. When the eredit of France, in 1815, was at a very dangerous erisis, Laffitte advaneed $2,000,000$, in ready money, by which means a necessary artiele in the capitulation of Paris was settled. It was owing
to his counsels, that France was enabled to suppport the burden of the military contributions imposed on her, without injury to the credit of the state. But when Lal:fitte joined the left side in the chamber of deputies, and opposed the encroachnents of the infatuated absolutists, the laws of exception and the clergy, he became an olyject of hatred to the ultras, and of suspicion to the ministry. In 1819, he was deprived of the presidency of the bank, which was bestowed on the duke of Gaëta, with a large salary ; yet he was, in 1822 , unanimously reëlected to the office of régent de la banque (dircetor). His elo. quent speeclies in the chamber, some of which were extemporancous, prove his talents and knowledge, especially in the departincnt of finance. Me also spoke with energy on the occasion of the disturbances in Paris in 1819, when the young Lallemand was shot in the street by onc of the watch, and old men, children and women were trampled down by the gendarmes. He was not rëelected for the session of 1824. By favoring the reduction of the rentes, he appears to have host his popularity. The chamber of deputies accepted the proposal for the reduction of the interest on the public securities then in circulation, but the chaniber of peers rejected it. To prove the justice aud advantages of this plan, and to justify his own eonduct in the project, he wrote his Réflexions sur la Réduction de la Rente et sur l'Etat du Credit, a financial work of mueh merit. The second edition was pullished at Paris, in 1824. How great the confidence reposed in Laffitte has been, the following fact will serve to show. When Louis XVIII was compelled to flee, in 1815, he intrusted his private property, for safe keeping, to Laffitte ; three months after, Napoleon, under the same cireumstances, showed him the same confidenee, and, at St. Helena, named him his executor. As Napoleon, in the hundred days, had respected the private property of Louis, so Louis XVIII respected that of the emperor, and put no obstaeles in the way of the execution of his last will. Among the merits of Laffitte, his great benevolenee to the poor ought not to pass unnoticed. The publishers of the Latin classics, at Paris, were also assisted by him in earrying on their useful undertaking. Laffitte was, in 1827, again elected to the chamber of deputies. His only daughter was married, in 1828, to the prinee of Moskwa, eldest son of the celebrated marshal Ney. He took an active part in the revolution of July, 1830, being one of the deputies who
signed the protest, and deelared themselves deputies of France, in spite of Polignac's order to annul the election. Laffitte was also one of the deputies, who, during the fight on July 29, weit to marshal Marmont, in order to put a stop to the confliet. November 3 , 1830 , he was made minister of finance and president of the couneil, in which situation he remained until Mareh 14, 1831, when he was succeeded by M. Casimir Perrier, belonging to the left eentre. Laffitte has suffered immense losses in consequence of the fall of stoeks since the revolution of July, 1830. Chateaubriand, in a late pamphlet, has asserted that Villele had intended to make Laffitte minister of finance.

Lafitau, Joseph Francis ; a Freneh Jesuit, who was a native of Bordeaux, and was employed as a missionary among the savages of North America. On his returu to Europe, he published a work, eutitled Meurs des Sauvages Américains comparées aux Mceurs des premiers Temps (Paris, 1724, 2 volumes, 4to.); and another on the Diseoveries and Conquests of the Portuguese in the New World (1733, in 2 volunies, 4 to.). In the former, he maintains that the North Ameriean savages are deseended from the barbarians who inhabited Greece at an early period. He died in 1740.

Lafitte ; a Bordeaux wine. (See Bordelais Wines.)

Lafontane, Jean. (See Fontaine, la.)
Lafontane, Augustus Henry Julius, the most fertile and one of the most popular novelists of Germany, was born in 1756, in Brunswick. He studied theology, and, in 1792, aecompanied the Prussian army into Chanpagne, in the capacity of chaplain. He lives now at Halle. His novels are entertaining, but not distinguished by merit of a high order. Of late, he has oceupied himself with Eschylus, and published Agamemnon and the Coëphori, with judieious notes (Halle, 1821 et seq., 2 vols.), in which he sets forth some peeuliar views respeeting the text of this author.

Lago Maggiore, or Lake Major, or Locarno (anciently Verbanus) ; a large lake in Italy, separating the Austrian government of Milau from the Sardinian Milanese, extending from Sesto to Locarno ; about 45 miles long, and 7 broad. It is 636 feet above the level of the sea, according to Saussure, and, in some places, 1800 feet deep. It is traversed by the Ticino. Its waters, which are as clear as erystal, contain various fish. Its banks abound in every Alpine beauty, and are
adorned with a number of pieturesquely situated villages and towns. On all sides it is surrounded by hills, planted with vincyards and plantations of chestnuts, interspersed with villas. There are several islands, two of which, Isola Bella and Isola Madre, called Borromean islands, are laid out in gardens and pleasure grounds, with palaces ereeted on thenn, adorned, with paintings, sculptures, \&c. Isola de' Pescatori is inhabited by fishermen. (See Borromei Islands.)

Lago Nero, or Negro ; a town in Naples, in Basilicata, at the foot of the $A_{p}$ ennines, near a lake from which it receives its name; 12 miles north-east of Policastro ; population, 5000. In Mareh, 1806, a battle was fought here between the Frenclı and the troops of the king of Naples, in which the former were vietorious.
lagoon (from the Latin lacuna, a ditch) means a morass. The name is given partieularly to those ereeks which extend along the coast of the Adriatie, in the present government of Venice, and which are formed by water running up in the land. They contain many islands; Veniee, for instance, is built on 60 of them. In some plaees, they are deep; in others so shallow, that their exhalations are offensive and dangerous. The Austrian government does less towards clearing them out than the former Venetian goverminent did ; and Venice, in consequence, is considerably less healthy than it was. Towards the sea, the islets are secured by dams, natural or artificial.
Lagrange, Joseph Louis, a celebrated mathematician, was born in 1736, at Turin, and originally directed his attention to philosophy. But his natural taste for mathematics soon uufolded itself, and he studied with such ardor, that, in his 18th year, in a letter to the celebrated Fagnano, he communieated to him a number of mathematical diseoveries which he had made. He also solved the questions, which had been proposed a long time before, by Euler, on the calculation of isoperimetrical figures, and on the theory of the least action. When searcely 19 years of age, Lagrange was made mathematieal professor in the artillery school at Turin; and the memoirs of the scientifie association, which he established with the approbation of the government, and in conjunetion with the celebrated Cigna and the marquis of Saluces, excited such attention in the literary world, that he was elected a fellow of the academy at Berlin, and Euler and D'Alembert entered
into a constant correspondenee with this young man. During a journey to Paris, which he made in eompany with his friend Caraeeioli, who was sent as an ambassador to London, Lagrange beeame personally aequainted with the Parisian savants, and was reeeived with general respect. But ill health soon obliged him to return home, where he applied himself with renewed diligence to his seientific labors. At this time, he obtained the prize of the aeademy of seiences in Paris, for a treatise on the theory of the satellites of Jupiter, and, at the same time, by his exposition of the leading features of his doctrine in regard to the planetary system, rendered his name immortal. He soon after reeeived an invitation from Frederie the Great, to go to Berlin, with the title of director of the aeademy, in place of Euter, who had gone to St . Petersburg. The king of Sardinia was, however, very reluetant to permit his distinguished suljeet to depart. Esteemed by the great Frederic, who preferred his independent spirit to the somewhat too submissive eharaeter of Euler, and valued highly by all who beeame aequainted with him, Lagrange lived in Berlin in pleasant eireumstances (which were interrupted, however, by the eoutinual siekness of his wife), during the hifetime of the king. After Frederie's death, the regard whieh had been paid to men of genius and talent at the Prussian court declined, and Lagrange began to look about for another situation. At this period, Mirabeau saw him in Berlin, and resolved to obtain this renowned geometrician for France. Lagrange aecepted the offers made him from Paris, and deelined the proposals of the ambassadors of Naples, Sardinia and Tuseany. He was reeeived at Paris, in 1787, with the highest tokens of respeet. But a deep melaneholy seemed to have taken entire possession of him, and to have palsied his mind, notwithstanding all the efforts which his friends made to remove it. He suffered the same ineonvenience whieh D'Alembert had once before experienced, viz. of having lost all love for his seienee. Lagrange now zealously employed himself upon the history of religion, the theory of ancient musie, languages, and even the medieal seiences. His own favorite seience alone had no attractions for him, and he even suffered his most eelebrated work, La Mécanique analytique (for whieh Du Chatelet, to whom Lagrange lad given the manuseript, was for a long time unable to find a publisher), to lie untouched
for two years after its publieation. At the proposal of Dı Séjour, he was, in 1791, confirmed by the national assembly in his pension of 6000 franes, and, in order to indemnify him for the depreciation of the paper curreney, he was first appointed a member of the committce for rewarding useful inventions, and, afterwards (in Mareh, 1792), one of the directors of the mint. Dissatisfied with this station, although Cieero and Newton had diseharged similar offiees, he soon resigned it, eonsidering it as an oppressive burden. In the sanie year, he was married, for the second time, to a daughter of the academician Lemonnier, hoping to lead a tranquil life in the midst of the storms of the revolution. The decree of October 16, 179:3, commanding all foreigners to leave Franec, and the exeeution of Bailly, Lavoisier, and other distinguished men, soon, however, destroyed his illusions. Through the instrumentality of Guyton Morveau, the severe law of banishment from the country was not put in foree against him; but the danger of beeoming a vietim to the rage of the infuriated populace remained. IIérault de Séchelles offered to procure him a place in an embassy to Prussia, but Lagrange, who had conecived a warm affection for his new country, preferred to remain there in spite of the danger. P'eace and quiet at length returned. It was proposed to restore the institutions for the promotion of learning, whieh had been destroyed during the reign of anarchy, and Lagrange was appointed professor in the newly established normal sehool at Paris. In this new sphere of influence, his former love for his seienee retumed with all its strength. At the formation of the institute, the name of Lagrange was the first on the list of members, and he was, likewise, the first member of the newly constituted bureau of longitude. His fame now increased from day to day, and France, feeling honored in the possession of sueh a man, determined to give him a publie mark of her estecm. By the command of the direetory, the minister of foreign affairs, Talleyrand, commissioned the Freneh chargé d'affaires in Turin, eitizen D'Eymar, to visit Lagrange's father, and eongratulate him, in the name of Franee, in having such a son. This eommission was performed by D'Eymar in the most brilliant manner, aeeompanied by several generals and other distinguished persons. Napoleon respeeted the talents and serviees of Lagrange not less than the republie had done; and while eonsul and emperor, he never ceased to show
him distinguished tokens of his favor in avery possible way. Member of the sennte, grand officer of the legion of honor, and count of the empire, Lagrange saw himself surrounded with every external honor ; but neither this, nor the confidence reposed in him by the licad of the state, could make him vain, and, as modest and retiring as ever, he devoted himself with the sane zeal and industry to his studies. His application probably hastened his death. Notwithstanding his advanced age, he could not be content to relax his exertions, and had snperintended the publication of the second edition of his Theorie des Fonctions analytiques, cnriched with annotations, when, exhausted by his labors, lie died, April 10, 1813. His remains were interred in the Pantheon. Lacépede and La Place pronounced funcral addresses over his body. Lagrange was no less aniable than morlest, and was never led, by the honors bestowed upon limself, to underrate the merits of others. His respeet for Euler was unlimited, and he was frequently accustomed to say to his scholars, "Study Euler, if you would become geometricians." His works have been partly published separately, and are partly contained in the memoirs of the academies of Turin, Berlin and Paris, in the Journal of the Polytechnical Seliool, the Connaissance de Temps, and in the Ephémérides. The most important are his Mécanique analytique (Paris, 1787; new editions, 1811 and 1815); Théorie des Fonctions analytiques (Paris, 1797 and 1813) ; Résolutions des Equations numériques (Paris, 1798 and 1808) ; Lecons sur le calcul des Fonctions (there are several editions of this work, bnt the latest is that of Paris, 1806), and Essai d'Arithmétique politique (to be found in the Collections edited by Rocder, in 1796). $\Lambda$ part of Lagrange's posthumous papers were, in 1815, given to the institute, by Carnot, minister of the interior; and, by a subsequent vote of the acadeiny of sciences, they were ineorporated with the library of that learned society.

Lagus. (See Ptolemy.)
Laharpe, Jean François de; a Frenclı dramatic poet, eritic and philosopher of the last century, born at Paris, November 20, 1739. His fither, a Swiss offieer in the French service, dying in indigenee, Asselin, president of the eollege of Harcourt, admitted him into that seminary, where he received an excellent education. A lampoon on his benefactor, which was, in all prohability without foundation, attributed to him, oceasioned the coufine-
ment of the suspected satirist for some months in the Bastile. This circunstance disgusted him with his situation, and, at a very carly age, he threw limself on his own talents as an author for support. In 1762 , he published a collection of poems. The tragedy of Warwiek (1763) was very beneficial to him in a pecuniary point of view, and procured him eonsiderable reputation. It still remains on the stase. His Timoleon and Pharamond met with less suecess; but a series of éloges on Charles V, Catinat, Fénélon, Voltaire, and IIemi Quatre (especially the latter), gained him much eredit, in a different department of literature. On the breaking out of the revolution, Laharpe embraced the priueiples of republicanism ; but, during the reign of terror, his moderation rendering him an object of suspicion to those then in power, he was thrown into prison in 1793, and, while in confinement, is said to have owed his conversion to Christianity to the arguments of his fellow-eaptive, the bishop of St. Bricux. Though sentenced to deportation, the changes of the times finally restored him to liberty, and he passed the remainder of his days in literary retirement. I short time before his death, his remarks on the measures of the government excited the displeasure of the first consul, and he was banished to Orleans. He soon returned, however, and died in 1803, in his G4th year. Ilis principal work is the Lycie, or a complete Course of Literature (ovo., 12 vols.). Amoug the rest are Gustavis Viasa, Timoleon, Pharamond, and Philoctetes, tragedies; the latter an elegant translation from the Greek of Sophocles. Tangu et Felime (a poem, 1779) ; Translations of Camoens' Lusiad (2 vols.) ; the Psalms of David, and the works of Suetonius ( 2 vols.); a Commentary on the dramatic Works of Racine ( 7 vols., 8 vo.) ; the Correspondence with the Czar Yaul the First ( 4 vols., 8ro.), and a refutation of the opinions of Helvetius.

Laharpe, Frederie César, dircetor of the Helvetian republic, was born at Rolle, in a family belonging to the nobility of the Pays de Vaud, in 1754. He cultivated the seiences with great zeal, particularly mathenuties. At Geneva, Saussure and Bertrand were his teachers. He studied law in Tubingen, and was inade doetor in his 20th year. After having been a lawyer in Berne, he travelled, with a young Russian of a distinguished family, through Italy and Malta, and, in 1783, he became teacher of the grand-cluke Alexander and his wrother, at Petersburg. After the
vol. vil.
33

French revolution had broken out, he drew up, in the name of his fellow-citizens, a respectful petition to the council of Berne, requesting a meeting of deputies, for the purpose of abolishing abuses. Soon after, troubles broke out, and the government, who considered him as one of the instigators, put his name on the list of exiles, and his enemies succeeded in removing him from the person of Alexander. He went to Geneva, and was about to return to Berne, when he learned that orders for his arrest had been given there. Indignant at this, he went, in 1796, to Paris, where he continued to write in favor of the cause of liberty, and published a work entitled Lettres de Philanthropos. In consequence of a petition addressed by him and 22 other exiles from the Pays de Vaud and Friburg, to the French directory, requesting the fulfilment of the guarantee established by the treaty of Lausanne, 1565 , the directory interfered in the affairs of Switzerland, the Swiss revolution broke out, French armies penctrated into Switzerland, and a new organization was given to this country. Lalharpe was made one of the directors of the Helvetic republic, and exerted himself energetically in carrying on the new system, until a violent quarrel took place between the legislative body and the body of directors, and the latter was dissolved, and Laharpe put under surveillance. Friends and enemies both allowed the honesty of his intentions. In 1800, when on the point of leaving Lausamue for Paris, he was deccived by a letter, probably a forgery, communicating intelligence of a conspiracy against the first consul, Bonaparte, who was then commanding in Italy. This he gave up to the proper authorities, and was, in consequence, arrested by the legislative council of Berne, as himself concerned in the conspiracy. He escaped by flight to laris, where he was coolly received by Bonaparte, and went to live at a country-seat (Plessis Pliquet) near Paris. In 1801, he made a journey to Russia, and returned with proofs of the esteem of his former pupil, the emperor. In 1814, he visited him in Paris, and was appointed a general in the Russian service. At the congress of Vicuna; lie labored actively to effect the independence of the cantons of the Pays de Vaud and Aargau, and their separation from Berne. He has since then lived as a private man in his native country, enjoying the highest esteem of his countrymen.
la Hogee; the north-western point of
the peninsula, near Cherburg, in the departuent La Mauche. A naval battle was fouglit here May 29, 1692, between the French, under Fourville, and the English and Dutch, under Russel. The Frencls were beaten. James II beheld the battle from the land, and was obliged to witness the defeat of his party.

Lanyre (properly Etienne Vignoles); a brave knight in the reign of Charles VII of France, and the faithful companion of the maid of Orleans. Laliyre lhated the English bitterly, as his family had been ruined by their invasions. In 1418, when Coucy was surrendered to the Burgundians, the allies of the English, in consequence of the treachery of the mistress of the commandant, Lahyre and the equally brave Peter de Xaintrailles placed themselves at the head of the remnant of the garrison, and successfully led their little band, in the midst of constant skirmislies, through a country filled with enemies. After many valiant deeds in Valois, and in Champagne, Lahyre hastened to the relief of Orleans. The governinent of the town sent him with a petition to the dauphin, Charles VII, to implore his assistance. He found the weak and pleas-ure-loving prince preparing for an entertainment. "What are your thoughts?" said Charles to the knight, who viewed with indignation the frivolity of the court. "I think," replied Lahyre, "that a kingdom could not be lost more merrily." Returning to Orleans, he did his utmost to save the town, and to assemble the relics of the beaten army. In 1429, the inaid of Orleans appeared. Lahyre joined her, and was with her at her entrance into the town. He followed the defeated English, and distinguished himself in the battles of Jargeau and Patai. In the middle of winter, he stormed Louviers, and advanced to Rouen with the intention of liberating the inprisoned Joan (q. v.) ; but the English took him prisoner. He soon, however, obtained his liberty, and renewed his exertions, with Xaintrailles, against the enemy. To his death, Lahyre was the most inveterate enemy of the invaders of his country, and injured them greatly. He was repeatedly taken prisoner, often ly the treachery of fillse friends; but he always succeeded in liberating himself : for a time, he even braved his own king, continuing a petty warfare against the English and the Burgundians, and garrisoning several towns, although Charles had concluded a peace. On a journey to Montauban, where he accompanied Charles VII, in 1442, he died in consequence of lis wounds. His ro-
mantic valor, together with his attachment to the maid of Orlcans, procured him, after his death, the honor of having his name added to the knave of hearts in the French playing cards; the pietures of which are, as it is well known, designated by the names of different heroes.

Laine, Joseph Hemy Joaelim, peer of France, formerly minister of the interior, and president of the chamber of deputics, was born at Bordeaux, Nov. 11, 1767. He was a lawyer at the outbreak of the Freneh revolution, in the last century, when he embraced republican principles. His zeal procured him, in $1792-3$, some important posts in the administration, in which he showed great activity. He also distinguished himself as an orator. In 1808, he was chosen member of the corps legislatif for the department of the Gironde, and was distinguished for his liberal opinions. About this time, he received the star of the legion of honor, but entered into a correspondence with the friends of the royal family. After Napoleon's disasters in Russia, the legislative body appointed a committee (1813) to report the wishes of the nation. It consisted of Lainé, Raynouard, Gallois, Flaugergues, and Maine de Biran. Raynouard was chairman, and the language of the report was bold. Ruynouard's speeeh to the emperor, on this subject, contained these words: "Si vous (the emperor) ne voulez pas nous donner la paix, nous la ferons nous-mémes." The corps legislatif, so long submissive, now made bold by the disasters of the emperor, was prorogued. Lainé went to Bordeaux, and, in 1814, was made prefect of the eity by the duke of Angoulême, who had arrived there, and soon after president of the chamber of deputies. On Napoleon's return from Elba, Lainé spoke with zeal against liin, and ealled lim "the eommon enemy," and, on the emperor's entry into Paris, published a protest against the dissolution of the chamber, and absolving all Frenchmen from obedience to the demands of the "usurper." He left Bordeanx, it is said, for Holland, when the duchess of Angoulême quitted that place, and, after the second restoration, again appeared as president of the chamber, and held the port-folio of the interior from June, 1816, to Dec. 28, 1818, when Decazes succeeded him. He often spoke, while in these stations, against the pretensions of the ultras, and their attaeks upon the charter; but, after this period, he inelined inore and more to the right side, and advocated the elange in that law of election which he
had formerly defended. About this time, he was created pcer. It must be mentioned, however, that he voted against the war with Spain, in 1823, opposed the unconstitutional toleration of the Jesuits by the government, and the arbitrary measures of the Villele ministry. M. Laine is a member of the Frenel academy.

Laing, Alexander Gordon, was born at Edinburgh, in 1794, entered the army, served for several years in the West hrdies, and, in 1820 , was sent, with the rank of lieutenant and adjutant, to Sierra Leone. In 1821-22, major Laing was despatched on several missions from Sierra Leone, through the Timannee,Kooranko and Soolima countries, with the view of forming eominereial arrangements. On the last of these journcys, he had reason to believe that the source of the Niger (q.v.) lay much farther to the south than Park (q. v.) had supposed. At Falaba he was assured he might reach it in three days, had not the Kissi nation, in whose territory it was situated, bcen at war with the Soolimanas, with whom he then resided. (See his Journal.) In 1826, he undertook to penetrate to Timbuctoo (q. v.), and started from Tripoli, crossing the desert by way of Gladamir. On lis journey, he was attacked by a hand of Tuaricks, who wounded him scverely, and left him for dead. He, however, recovered, and reached Timbuctoo August 18, where he remained upwards of a month. Several letters werc received from lim while there, stating that he had collected ample materials for the geography of this part of Afriea. Being obliged to leave Tinbuctoo by the sultan of Masina, into whose power the city had fallen, he hired a Moorish merchant to accompany and protcet him, on his route by Sego to the coast. Three days after leaving the city, he was murdered by the person who liad undertaken to guard him. The fate of his papers is uncertain. It has been suggested by English reviews (Quarterly Review, No. 84), that Rousseau, French consul at Tripoli, las become possessed of them. Caillé gives a different aecount of his death. (See Narrative of Discovery in Africa, by Jameson, Wilson and Murray (Edinb. 1830), forning No. 16 of Harper's Family Library, New York, 1831.)

Lairesse. There was a fainily of Flemish painters of this name, of whom Gerard, son to the eldcr Lairesse, has aequired by far the greatest reputation. He was born in 1640 , at Liege. He is particularly distinguished by the high finish
with which his pictures are executed, and is considered the Raphael of the Dutch school; nor have any of his countrymen ever equalled him in historical painting. 'This talented artist was also a good cngraver, and understood music scientifically, while of his literary abilities he has lett a favorable specimen, in a treatisc on the principles of his art. He survived the loss of his sight some years, and died, at length, at Amsterdam, in 1711. His book has been translated into English. His three brothers, Ernest, John and James Lairesse, were artists of some note, the two former excelling in the delineation of animals, the latter in flowers. Two of his sons also followed the profession of their father, but with inferior ability.

Lals; a celebrated courtesan, daughter of Timandra, the mistress of Alcibiades, born at Hyccara, in Sicily. She was earriid away from lier native country to Greece, when Nicias, the Athenian general, invaded Sicily. She began to scll her favors at Corinth for 10,000 drachmas, and an intmense number of princes, noblemen, philosophers, orators and plebeians, did homage to her charms. The high price which she demanded of her lovers gave rise to the proverb of Non cuivis homini contingit adire Corinthum. Even Demosthenes himself visited Corinth for the sake of Lais; but when he heard the courtesan name her price (a sum equal to about 1000 dollars), the orator departed, and observed that he would not buy repentance at so dear a rate. The charms which had attracted Demosthenes had no influence upon Xenocrates, although Lais (Plıryne?), sceing the philosopher unmoved by her beauty, visited his louse herself. Diogenes the cynic was one of her wamest admirers, and, though slovenly in his dress and manners, yet he gained lier lieart. Lais ridiculed the austerity of philosophers, observing that the sages and philosophers of the age were found at her floor as often as the rest of the Athenians. The success which she met at Corinth encouraged her to pass into Thessaly, particularly to enjoy the company of a fivorite youth called Hippostratus; but the women of the place, jealons of her charms, and apprehensive of her corrupting the fidelity of their lus.bands, assassinated her in the temple of Venus, about 340 years before the Christian era. - Pansanias mentions another Lais, likewise a courtesan.

## Larus. (See Edipus.)

Lake. Lakes are large bodics of inland water, having 10 direct communication
with setis or the ocean, or commmnicating with them only by rivers, by which they pour out theirsuperabundant waters. Some lakes have no issue, and receive no streams; but these are generally very small. Some have outlets, bat receive no rumning waters; these are fed by springs which are thus obliged to fill up a basin before their waters can find their way downward towards the lower country. Others receive and discharge large rivers, and sometimes a cliain of lakes are connected with each other, and with the sea, by a series of rivers. This is the case with the great lakes on our northern fronticr, which are, in reality, a series of large basins or reservoirs, recciving the aceumulated waters of the surrounding eountries, and pouring them out through successive channels into other basins sitnated on a lower level. (See the articles Superior, Huron, \&c.) Another class of lakes reccive large streams or rivers, but have no visible or apparent outlet. The Caspian sca (q. v.), lake Titieaca, \&e., are examples of this hind. These masscs of water are sometimes drained by subterraneous streaus, and are sometimes kept at their ordinary level by the ordinary process of evaporation. Some lakes are raised to a great height above the level of the sea. Lake Superior is 641 fect above the ocean. The waters of lakes are generally sweet, bit there are some, such as the Caspian, \&c., which are salt. All the great American lakes are of fresh watcr.

Lake of the Woods, or Du Bois; a lake of North America, 70 miles long, and 40 wide. Large quantities of onk, fir, pine, spruce, \&c., grow on its banks; hence its name. It contains a few small islands, and eommunicates with lake Winnipeg, which discharges its waters into Iludson's bay. Lon. $95^{\circ} 20^{\prime}$ W. ; lat. $54^{\circ} 30^{\prime} \mathrm{N}$.

Lalande, Joseph Jerome le Français de, one of the most distinguished astronomers of the last century, was born of a respectable fanily, at Bourg en Bresse, in France; July 11, 1732. Educated with a minnte attention to religious duties, he displayed his abilities when very young, by composing sernons and mystical romances. The remarkable comet of 1744 first drew his attention to the heavenly bodies; and his taste for astronomy was fixed by the observations of father Beraud, mathematical professor at the college of Lyons, on the great eclipse of July 27, 1弚48. He wished to become a Jesuit, that he might devote himself entirely to study; but his friends, objecting to this
plan, sent him to Paris, where he studied the law, and was admitted an advocate. He became acquainted with Delisle, who had established an observatory in the house in which he resided, and oltained permission to assist him in his operations. He also attended the lectures on astronoiny delivered by Messier, at the collége de France, and obtained the friendly patronagc of Lemonnier, who lectured on natural philosophy at the same college. The academy sent him to Berlin to make observations for the purpose of determining the parallax of the moon, while Lacaille went to the cape of Good Hope for the sane purpose. At the sight of so young an astronoiner (for he was scarcely 19 years of age), Frederic the Great could not couceal his astonishment. Lalande, however, proved himself worthy of the choice of the academy at Paris, and was not only received at court, but was made a member of the aeademy of Berlin. After having fimished his operations at Berlin, he was chosen member of the academy of sciences in Paris, in the year 1753. Theneeforward no volume of their transactions appeared which did not contain some important communications from him ; nor did he confine his labors to astronomical subjects merely. The French are indebted to him also for an edition of Halley's tables, as well as for the historical account of the comet of 1759 . For the identifying of this remarkable comet, he presented to Clairanlt the deepest and most ingenious calculations. As the editor of the Connaissance des Temps, he entirely changed the plan and management of this useful work, and thereby set a good example to his successors. In 1761, he produced a chart, which slowed the phases of the remarkable transit of Venus over the sun's disk for all places on the globe. In 1764, he published his Astrono- $^{\text {sin }}$ mie-a classical work, which was afterwards printed in three volumes quarto, and reached the third edtition, and of which he made an abridgment (Abrégé d'.1stronomie, published at Paris in 1795)a work which cannot be too highly recommended to lovers of this science. In 176.5 and 1766 , he made a journey to Italy ; a description of which (in 8 vols., 12ino.) contains much valuable information. He composed all the astronomical articles for the great Encyclopédie, and also wrote then anew for the Encycloptdie methodique. In 1761, he succeeded his first instructer, Lemonuier, in the astronomical professorship of the college de France, where he knew how to give to his lectures a peculiar
attraction. His lecture room was a kind of nursery, from which a multitude of his scholars were transplanted to the directorship and management of domestic and foreign observatories. His work Des Canaux de Navigation et spécialement du Canal de Languedoc (1778, folio) contains a general history of all the ancient and modern canals, which had previously been undertaken, accomplished, and even projected. Such a work had, till then, been a desideratum, and this is now of the greatest advantage to the engineer. His Bibliographie astronomique ( 1 vol., 4to.) is a copious catalogue of all the works that had ever appeared on the subject of astronomy. As he was a member of all the great academies, he formed, as it were, a common bond of union between them, while he communicated, from one to the other, whatever each one produced worthy of notice. His activity was remarkable. Lalande enjoyed for a long time a splendid reputation ; but his imprudent freedom, the independence with which he expressed his opinion in the inost turbulent times, the often offensive severity which he was accustomed to use against systems which deserved no notice, and the habit of publicly declaring lisis sentiments where he might better have been silcnt,--all this made him numerous enemies, who persecuted him, and succeeded so far, that his real merit has been called in question. His character was, in faet, a strange nixture of great and commendable qualities united with striking singularities, which may have procecded from vanity and the desire to attract attention. Lalande, however, was kind, generous, full of fecling, and, in his own way, religions, although his enemies accused him of atheisin. Ilis death took place April 4, 1807.

Laley, Thomas Arthur, count; a brave, but imprudent and infortunate Irish officer in the service of France. He was of a family which had followed the fortunes of James II, and, having entered the French arny, he signalized himself so much in the battle of Fontenoy, that he was made a brigadier-qeneral on the field of battle. He also drew up the plan of a descent upon England, which would have heen tried but for the defeat of Charles Edward at Culloden. In 1756, he was selected to restore the Frencli influence in India, for which purpose he was made governor of Pondicherry. It was soon pereeived, however, that he wanted the prudence, moderation and disinterestedness necessary for so
distant and critical a scene of action; and, after a little partial success against the English, in the first instance, he was finally obliged to retire to Pondicherry, which was besieged and taken by the Britisl, January 16,1761 , the garrison, with Lally, being made prisoners of war. On this catastrophe, a torrent of invective assailed the unfortunate leader from all quarters, he having offended every body concernell, by his haughty humor, and violent temper and conduct. He was even accused of having sold Pondicherry to the Euglish, notwithstanding the avowed hatred which, as a Jacobite, he felt for them. He arrived a prisoner of war in England, in September, 1761, and, the following month, was allowed to return to France, where, after a long imprisonument, he was brought to trial for treachery, abuse of autlority, and unjust exactions. Being found guilty, he was condemned to be decapitated, which sentence was executed May 6,1766 , in the 68th year of his age. In 1778, his son, Lally-Tollendal, obtained possession of the estates of his father, with a revisal of the proceedings, which were manifestly unjust, count Lally being one of the victims to public clamor, like adniral lyyng, and many more who have been sacrificed to the unpopularity of an incapable administration.

Lally-Tollendal, Trophime Gérard, inarquis of, son of the preceding, born at Paris, March 5, 1751, devoted hiinself to the military profession. He soon made himself known by his writings in defence of his father's memory, and embraced the cause of the revolution with alacrity, but, at the same time, with prudence. During the increasing popular excesses, he joined his friend Mounier in Switzerland. From hence he returned, but was arrested, and escaped almost by a miracle the massacre of September. He thereupon fled to England, and, while in that country, offered his services as the defender of Louis XVI, buit was not accepted. After the 18 th Brumaire, he returncd to France, took an active part in public affairs under Louis XVIII, and was by him called to the chamber of peers, where he has ofien defended moderate principles with true cloquence. He is also a member of the French academy:
L.ama (in the Tangutanese dialect, mother of souls, pastor of souls) is, among the Mongols, the appellation of all the members of the priestly order; but amoug the Calmucs it signifies only the more distinguished. Hence the religiou of the Mongol:
and Calmucs is called Lamaism. In this religion the Shigemooni is honored as the highest God, and the Dalai-lama (i. e. the great lama), as his representative. He is at the head of both ecelesiastical and secular affairs in Thibet, which may be considered is a theocratical state. He is considered not as a inere visible representative of the divinity on earth, but as a real divinity limiself, dwelling among men. The belief in his eternal existence is connected with the doctrine of the transmigration of souls. His worshippers believe that the divinity, as soon as it leaves the body of the Dilai-lama, immediately takes possession of some other body in a supernatural way, so that he only clianges his exterior forin, and not his actual existence. Among a people who possess such a reg. nlar hierarchical system, it is a matter of small consequence who stands at the head. The usual residence of the Dalailana is in two monasteries situated in the vicinity of the capital, Lassa, in each of which he divells alternately. Ie is surrounded in every direction ly a vast number of priests ; but no woman is permitted to pass the night in the building where he lodges. 'This arises, indoubtedly from the purity which is attributed to hiin ; for he is called the immaculate. The natives, as well as a great crowd of forcigners (for all the Mongol tribes in Russia acknowledge liim), undertake futiguing pilgrimages in order to pay their lomage to lim, and obtain his blessing. He receives them sitting upon a kind of altar, upon a large and splendid seat, with lis legs crossel. The Tartars, next to the inhabitants of Thibet, pay him the greatest reverence. They come to him from the most distant regions, and the princes, to whom he shows no more respect than to others, submit to the same ceremonies as their people. He salutes no one, never uncovers lis head, rises up before no one, and is satisfied with laying lis land upon the head of his worship)per, who believes that he las thereby obtained the pardon of his sins. His worshippers believe that the supreme divinity lives in lim, that he knows and sees every thing in the deepest recesses of the heart, and never needs to make inquiry in regard to any thing. If he docs this, it is only that unbelievers and the evilminded inay not have cause for complaint. He sometimes distributes, it is said, little balls of consecrated dough, which the Tartars use in many superstitious practices ; but it is not true, that balls made fro!n his excrement are distributed,
preserved in golden boxes, and even mixed with articles of food. His power was nuee greater than it is now, and he appointed and deposed the klians; but he is now more dependent on the emperor of China, although the latter, in a religious respect, is sulbjected to him. Two Chinese mandarins, with a garrison of 1000 Chinese, are maintained in his capital, and, in the palace at Prkin, the Chinese emperor supports a subordinate lama, who is sent as a nuncio from Thibet. When the Dalai-lama dies, it is then necessary to discover where his spirit has chosen to be born anew. In this case, all must submit to the opinion of some of the lamas, who alone are acquainted with the signs by which he may be known, or, rather, who know what child the deceasad has appointed for his suceessor. The worshippers of the lama are divided, in general, into two sects, known by the titles of the yellow and red caps. Each sect is under three lamas; the former is under the Dalai, Teeshoo or Bogao, and 'Taranaut lamas; the latter, under the three shammars. The Dalai-lama is the most distinguished of all, and next to him is the 'Teeshoo-lana, who dwells at TeeshooLoomboo, 10 days' journey from Lassa. The three shammars dwell in separate monasteries, the most distinguished of which is at Tassasudon, the capital of Bootan. Subordinate to them are numerous priests of different ranks, who are held in great respect, who superintend instruction, and some of whom live in a state of celibacy, according to certain rules, similar to those of the Christian monks. At Lassa alone there are 3000 monasterics. The religion of the lama sprung up in Thibet, and knows no eternal, self-existent being. Their idols or Boorchans, 108 in number, are created heings, who ascended into the rank of gods before the presput world was ereated, on account of their holiness. Shigemooni, the chief objeet of worship, appeared in the world for the last time 1000 1. C., and instituted Lamaisın, and now rules the world in its present state of misery. The earth is inhabited by degenerate spirits fiom the upper world. The hunan soul, after it has been subjected to a state of trial, and has passed a good or bad life, enters upon a higher or lower condition. This doctrine renders the worshippers of the lama benevolent and moral. Their idol worship consists in clamorous songs and prayers, accompranied wit! loud musie, in splendid end lestive processions, and in the solcmniza-
tion of certain festivals at fixed times, together with pilgrimages aud personal castigations.

Lama, in zoölogy. (See Llama.)
La Mar, José, was born at Guayaquil, and is therefore accounted a Peruvian, although his birthplace now belongs to Colombia. Me was educated in Spaiu, and served in the peninsula in the early part of lis life. In 1793, he was out in the campaign of Roussillon, as lieutenant in the Sabaya regiment. In 1808, he liad attained the rank of major, and signalized himself as one of the heroic defenders of Saragossa. Afterwards he commanded a grenadier column in Valencia. While confined in the hospital of Tudela by his wounds, he was inchuded in the capitulation of Blake's forces, and was conveyed to France as prisoner of war, but constantly refused to give his parole. In 1813, he eluded the vigilance of his guard, and effected his eseape, and, on arriving at Madrid, was raised to the rank of brigadier. In 1816, he returned to America with the appointment of inspector-general of the army in Peru. Whilst employed there as governor of the castles of Callao, he was compelled by the patriots to capitulate, and afterwards sent in his resiguation to the viceroy. Subsequently to this period, he became actively engaged in the cause of his country, and of the insurgent patriots, who had esteemed the refinement of his character and feelings, and the purity of his prineiples, even while he belonged to the royalist party. As evidence of this, he was elected president of the junta gubernativa of Peru. In 1823, Riva-Aguero was proelaimed president of the republic, and La Mar took the cominand of the Peruvian division of the liberating army under Bolivar. La Mar aeted in this capacity at the battle of Ayacucho, and ably seconded general Sucre on that decisive day. During the period of Bolivar's arbitrary government of Peru, we hear little of La Mar, who would not accept of office in the circumstances of the times; but the revolution of January, 1827, again brought him into notice, and he was elected president of the republic by the constituent congress, in June, being much beloved and respected in Peru, where he had few political and no personal enemies.

Lamarck, Jean Baptiste Antoine Picrre Monct, chevalier de, was born in the year 1745, in Pieardy, of a noble family, and was compelled, on account of an aceident, to abandon the service, and devote his attention to study. He applied himself at
first to medicine; afterwards, in consequencc of hearing Jussieu's illustrations of botany, was led to the study of natural science. Jussieu, on a botanical excursion, in which Lamarck accompanied him, had intimated that the old method of instruction in this department left much to be wished for, and Lamarck determined to remedy this deficiency. He labored with great diligence on a treatise in which he showed the defects of the old system, and proposed a new one limiself, which met with universal approbation. He then applied his new system to the plants of France, and delivered to the academy his Flore Francaise, ou Description succincte de toutes les Plantes que croissent en France. This work was printed, by the recommendation of the academy, at the expense of the goverminent, for the benefit of the author ( 1780 , under the date of 1778 , in threc volumes; 2d edition, 1793; and the third, enlarged and revised by Dccandolle, in 1805). Lamarck now turned his whole attention to this sciencc, and made scveral hotanical excursions to Auvergne and into Germany, in the last of which he was accompanied by the son of the great Buffon. On his return to Paris, he undertook the botanical department of the Encycloperdin, which Panckoucke was publishing, and applicd himself to this task with such assiduity, that, in 1783, he produced the first half of the first volume, with an introduction, containing a sketch of the listory of the science. He published the second volume in 1788. But a dispute between him and the publisher, in regard to the admission of ccrtain articles, brought the undertaking to a stand, and there ended Lamarck's botanical career. Many of his botanical treatises were published in the Memoirs of the Academy, and in the Journal d'Histoire naturelle, edited by him, together with the abbé Haïy, Fourcroi, Bruquière, Olivier and Pelletier, which make us regret that their author ever abandoned this branch of science. At the breaking out of the revolution, he was the second professor in the royal jardin des plantes ; but, in consequence of new arrangements, he was made professor in the dcpartment of zoölogy, in which he was soon as much distinguished as lie had been in botany. His Système des Animaux sans Vertèbres, ou Tablecu général des Classes, des Ordres et des Genres de ces Animaux ( 1 vol., Paris, 1801), his Philosophie zoölogique, and his Histoire naturellc des Inimaux sans Vertebres, are his principal works in this department of science. Lamarck's comprehensive mind was also directed towards
physies, and he published, in 1794, Recherches sur les Causes des principaux Faits physiques, in which he exposes many false theories in this science. With the same view, he also wrote his Refittation de la Theoric puenmatique, \&c., which appcared at l'aris in 1796. He collected his meteorological observations in his Annuaire météorologique, which first appeared in 1799, and was continucd to 1809. Lauarck is now a menuber of the institute, and there are several plants to which his name has been given.
Lanarque, Maximilian, was born at Saint-Sever, of rich and respectable parents, and, in 1792 , entercd the army as a private soldier, choosing to obtain promotion only by merit, and becanc captain of grenadiers in the celchrated corps of Latour d'Auvergnc, known under the title of the infernal column. He was in the vanguard of the army of the Pyrences, ill 1793, under the command of general Moncey, and received, February 3, two severe wounds, while, with a single company, he was sustaining the attack of a column of the Spanish army, that endcavored to turn the French division. He afterwards marclicd against Fontarabia, at the head of 200 grenadiers, and, precipitating himselfinto the moat, drew down the drawbridge, and gained possession of the place. Eighty pieces of camnon and 1800 prisoners were the fruit of this coup-demain, which procured Lamarque, then but 20 years old, the rank of adjutant-general. In 1801, he was made gencral of brigade, and distinguished limself at the battle of Holienlinden. He then served in Spain, and in the campaign of 1805 , so brilliantly terminated by the battle of Austerlitz. He was soon afterwards sent to Naples with the army under the command of Joseph Bonaparte, and, in crossing the mountains on the Neapolitan frontier, with 8 soldiers, was attacked by a band of 50 robbers, under the orders of the ferocious Fra-Diavolo, against whom he successfully defended himself. He was sent, in 1807, against the insurgents of Calabria, and, near Marathca, defeated a body of 1200 English that were sent to support them. He took the town, and made 1800 prisoners, which exploit gained him the rank of general of division. He was employed by Murat in 1808, and took the island of Caprea from the English, which was considered impregnable, and was defended by a garrison superior in numbers to the assailants. Hc afterwards joined the army in Germany, and, at the battle of Wagrain, had four lorses killed under him. He served in

Russia and in Spain in 1812, and, after the evacuation of the Peninsula, returned to France, and was created a knight of St. Louis, July 27, 1814. On the return of Napoleon, he was appointed to the first military division, as comnander-in-clief of the arny of the Loire. In lis operatious against the iusurgents of La Vendée, he distinguished himself not less by his forbearance and humanity than by his decision, and, after obtaining some successes at La Roche-Serviere, he effected a pacification at Chollet. After the return of the Bourbons, he was comprised in the secoud article of the law of July 24, 1815, and retired to Saint-Sever, under the inspection of the minister of police. He afterwards took refige at Brussels, but was ordcred from thence by the king of the Netlierlands, upon which lie passed into Austria. In 1815, he published a Defence of General Maximilian Lamarque, in a manly, bold and candid tone. lis 1818, lie was permitted to return to France, and, in 1820, produced an able pamphlet On the Necessity of a Standing Army. General Lamarque has since been a conspicuous member of the chamber of deputies, and, in the late revolution in Franee, zealously adopted popular principles.

Lanartine, Alfonse de, one of the most distinguished lyric pocts of France, retablished his reputation by his Méditations poetiques, which he published when he was 20 years of age (9th edition, with vignettes ly Mendoz, Paris, 1822). He describes therein the ancient court of the Pourbons as a mirror of morality, honor and chivalry. His poems are distinguishat hy deptli of thought and feeling, and ation by their heautiful langnage. With regerd to the spirit of his poetry, Lamartine is rather to be compared to the British than the Frencli. An often gloony melanclooly, a longing lost in sorrowful misgiving, an inclination for the mystical and superiatural, and a great predilection for poetical landscape-painting, form the peculiar characteristics of this poct, who, nevertheless, often descends into an artificial and prolix style, and sometimes runs into the bombastic. His versification is casy. His Mort de Socrate (Death of Socrates), which appeared in 1883, was not so successful, although there are meny beautiful passages scattered here and there throughout the work. The plan of this poem seems not to have been properly matured; the language, too, is unefual, and the versification sometimes neglected. Hut the young poet has again shown himself bold, elevated and imaginative, in his

Nouvelles Méditations poétiques, which appeared at Paris in 1823. The inystical tone and foreign style of Lamartine, in which Young and Byron were his cxamples, displeases the classical school of Hrance; lut his deep earnestuess is the characteristic in which the light and superficial poetry of the French has hitherto been deficient. One of the last poems in this collection is inscribed to Bonaparte. Among the finest pieces in the volume, are the Crucifix, To the Past, the Dying Poet, and Freedom. From these and similar poems, it would seem, that the study of the romantic in the German and British poets has diverted the enthusiastic and susceptible mind of the young Lamartine from the poetical track customary in France since the time of Boilcau. Lamartine has expressed his abhorrence for revolutionary ficedom in his Lettre à Monsieur Casimir Delavigne (1824, and also in his Epitres, Paris, 1825), who had sent him his École des Vieillards. Delavigne replieu', in an equally beautiful epistle, which defonds the worship of reason and civil freedom. (Delavigne was at that time l Drarian of the duke of Orleans.) The tone in whicli the political opponents and poctical rivals corresponded with each other is worthy of innitation. In 1825, Lamartine was appointed sccretary to the French legation at Florence, where, on account of a passage in his poems, which related to Italy, lie was engaged in a ducl with colonel Gabriel Pepe. About the beginning of 1830, he was made a meniber of the French acadenty.

Lambert, Jolin Henry, an eminent matliematician and astronomer, was born at Muhlhausen in the Sundgan, a to wn then in alliance witl the Swiss cantons, August 29, 1728. His father was a tailor, in lumble circumstanecs, who intended him for his own business; hut, being sent to a publie school, he so distinguished himself, that an attempt was made to provide him with the means of studying theology, which, however, proved unsuccessful, and he was obliged to follow lis father's employment. In this situation, he spent the greatest part of the night in study, and, obtaining an old mathematical treatise, discovered so much ardor and ingenuity, that several learned men were induced to instruct him gratis. He acquired a knowledge of mathematies, philosopliy and the Oriental languages in his native place. He afterwards became clerk to some iron works, and amanucnsis to M. Iselin of Basle, who conducted a newspaper, and became his sincere and constant firiend. In 1748, this
gentleman recommended him to baron Salis, president of the Swiss convention, to become tutor to his children; and, aided by the excellent library of his new patron, and the scientific intercourse which he net with in his circle, he enlarged the sphere of his acquirements in an extraordinary degree. After living eight years at Coire, during which period lis talents as a philosopher and meclanician were rendered manifest by various scientific compositious and inventions, he repaired, in 1756 , with his pupils, to Göttingen, and soon after published his first separate work, entitled De la Route de la Lumière par les Airs. In 1758, lie visited Paris with lis charge, and became acquainted with D'Alembert and Messier. In 1759, he went to Augsburg, where he published his celebrated work On Perspective; and in the following year appeared his Photometry, by which he added a new branch to the seicuce of mixed mathematics. In the three or four following years, he published Letters on the Construction of the Universe; a 'Ireatise on the principal Qualities of the Orbits of the Conets; New Organon. In 1764, he visited Berlin, and was introduced to Frederic the Great, who admitted him a regular member of the acadeiny of that capital-an appointment which enabled him to devote himself wholly to his favorite studies. He enriched the transactions of various societies with his papers and treatises, all of which bear the stamp of emineut and original genius. Most of his mathematical picces were collected, in three volumes, by himself. Ilis death took place Sept. 25, 1777, in his 49th year, owing to a decline, produced by over-ap. plication. Lambert forms one of the most conspicuous examples on record of the mastery which great genius and energy will sometimes cxert over untoward circumstances. In mathenatics, logic and metaphysics, he was highly distinguished. He was accustomed to labor from five in the morning till midnight. He discovered the theory of the speaking trumpet. Philosophy, and especially analytic logic, arc greatly indebted to him for lis Novum Organon, or Thoughts on the Examination and Relations of Truth (Leipsic, 1764, 2 vols.), and his Architektonik, or Theory of the first simple Principles in philosophical and mathematical Knowledge (Riga, 17テ1, 2 vols.).

Lambeth; a village in Surry, England, on the borders of the river Thames, opposite to Westminster ; population, $57,638$. Herc is a palace bclonging to the archbishop of Canterbury, a very large pile
of building, and containing a library of 25,000 volumes, and upwards of 1200 manuscripts. The kings of England, down to Henry VII, often resided at Lambetl, in a palace which no louger exists.

Lamego ; a city of Portıgal, in Beira, in a plain near the Ducro, surrounded by mountains; 36 niles E. of Oporto; lon. $7^{\circ} 27^{\prime} \mathrm{W}$. ; lat. $41^{\circ} \overline{7}^{\prime} \mathrm{N}$. ; population, 9000. It contains two cathedral churches, a hospital, four convents, a theological seminary, and a library. In this town the estates assembled (1144) to confirm the election of Alphonso Hemrjques, first king of Portugal, and cnacted the fundamental laws of the kingdom. (See Portugal.)

Lamentations. (Sce Jeremiah.)
Lamettrie, Julien Offray de, a materialist and medical charlatan, was borı at St. Malo, in 1709, and studied medicine in Holland, under Boerhatave. He then went to Paris, where the duke de Granimont, colonel of the guard, appointed hinı plyysiciarl to his regiment. He followed Lis patron to the siege of Freyburg, and was licre taken dangerously ill. He believed that the spiritual power, which is called the soul, perishes with the body, and wrote a Histoire naturelle de l'Ame. This work, which evcry where breathes the grossest materialism and skepticism, procured him many enemies, and was burned by the executioner, at the command of parliament. On the death of his patron, he lost his place. He now turned his arms against his Parisian colleagues, and wrote, under the signature Alctheius Demetrius, his satire of Pénélope ou Machiavel en Médicine (Berlin, 1748), oll account of which he was obliged to fly to Leyden. Here he published his L'Homme Machine. The philosopliy of the author consists in constant assumptions of what he is attempting to prove, imperfect coniparisons or analogies instead of proofs, some just observations from which general conclusions are illogically drawn, and assertions instead of doubts. Being persecuted in Holland, where his book was condemncd to the flames, he went to Berlin, in 1748, and was made a reader to the king, and a member of the academy. He died in 1751, of a fever, which lie treated after his own absurd views. The king of Prussia himsclf wrote his eloge, which was read in the academy. We find, in the works of Lamettrie, spirit and a brilliant imagination, but little judgment, accuracy or taste. His philosophical writings appeared at Berlin, in 1751, in 2 volumes. His writings, besides the abovementioned,
are L'Homme Plante, L'Art de jouir, Le Discours sur le Bonheur, and others. In the latter work, Lanettric is, according to Diderot, an author without judgment, one who confounds the ills of the wise and good with the torments of the wicked, and the slight evils of knowledge with the destructive consequences of ignorancewho betrays his frivolity in what he says, and the corruption of his heart in what he dares not speak out-who in one place asserts that man is evil by nature, and elsewhere derives man's duties and his liappiness from the nature of lis being -who seems to labor to console the criminal in lis crimes, the vicious in his viccsand whose gross soplisms, dangcrous on account of the jests wherewith he scasons them, betray a man ignorant of the very rudiments of moral philosophy. Voltaire, who had at first favored him, retracted his encomiums. On lis death bed, Lamettrie manifcsted strong marks of penitence.
Lamia; the name of an Athenian courtcsan, celebrated for the charms of her person and the brilliancy of her wit. Slic was, by profession, a flute-player. Hearing that her favorite instrument was carried to great perfection in Egypt, she travelled into that country, where she became the mistress of Ptolemy Soter. On the defeat of that prince by Demetrins Poliorcetes, about three centurics before the Christian era, Lamia fell into the hands of the conqueror, over whom, the handsomest man of the age, she soon acquired a complete asecudency. Her influcnce procured from Demetrius grcat concessions in favor of her countrymen, the Athenians, who, in their gratitude, went so far as to raise a temple to her honor, under the denonination of Venus Lamia. Plutarch and Atheneens both bear ample testimony to the qualities of her mind; and, if the antique engraving on an amethyst, in the king of Francc's collection, give a true portrait of her features, her bcauty is still less questionable. The exact time of her decease is uncertain.
L.sme; certain monsters of Africa, who had the face and breasts of a woman, and the rest of the body like that of a serpent. They allured strangers to come to them, that they might devour them; and, though they were not endowed with the faculty of speech, yet their lissings were pleasing aud agrecable. Some believed them to be witches, or rather evil spirits, who, under the form of a beautiful woman, enticed young children and devonred them. According to some, the fable of
the Lamix is derived from the amours of Jupiter with a certain beautiful woman cilled Lamia, whom the jealousy of Juno rendered defornied, and whose childrcn she destroyed; upon which Lamia became insane, and so desperate that she ate up all the children that cane in her way. These beings are also called Lemurcs. (q. v.)
Lamian War; a war carried on by the troops of Antipater (323 B. C.), after the death of Alexander, when the Greeks rose against Leonatus, who retreated to the fortress of Lamia, in Thessaly. The consequence of this war was the abolition of the Grecian democracies, and the reception of Macedonian garrisons into the cities. Athens was also obliged, to conclude a peace, to give np Demosthenes and Hypcrides, the orators who had instigated them to this war: Demostlicnes destroyed himself by poison.

## Lamoignon. (See Malesherbes.)

Lamotte Valois, countess of, rendered notorious by the affair of the necklace, represented herself as the descendant of the family of Valois, by an illegitimate cliild of Henry II. Until the affair of the necklace, she had lived in misery and contempt, although she had employed all the arts of iminorality and intrigue, to procure for herself rank and wealth. Being thus known to a great part of the nobility of Versailles and Paris, she astonished ail who were acquainted with the circumstances of her fortune, when, in 1784 , she suddenly began to display an extravagance which could only be supported by great wealth. An intriguc soon became notorions, which attracted the attention of all Europe. The prince Louis de Rohan (q. v.), cardinal bishop of Strasburg, and grand almoner, had fallen into disgrace, of which the reasons were not very satisfactorily known. The countess of Lamotte, informed of the desire of the cardinal to recover favor at court at any price, had falsely represented to him, that the queen, with whom she pretended to liave a great, though secret influence, wished to possess a costly neeklace, which was offered for sale, but at that time was not able immediately to advance the sum requisite for the purchase. If, therefore, he would purchase the necklace in his own name, and allow the queen to repay him by instalments, he would by so doing regain favor. The cardinal fell into this snare, purchased the necklace, and gave it to the countess of Lamotte, to be delivered by her to the queen. A bond, forged by the countess, was then given him for his security, set-
tling the conditions of payment. In order to deceive the cardinal the more perfectly, the countess had concerted with a woman who was privy to the plot, that she should appear to him under the mask of the queen, in August, 1784, in the gardens at Versailles, and present him a box containing a rose and the queen's portrait. The time when the cardinal had promised to pay for the necklace now came, and, as he did not possess moncy sufficient for the purpose, he informed the jewellers, that the necklace was purchased for the queen. The jewellers, after waiting a long time without obtaining their money, applied to the king, and thereby gave a clew for the detection of the fraud. By the sentence of parliament, the deceived cardinal was aequitted, and the countess of Lamotte, convieted of having embezzled and sold the necklace, was sentenced to be branded, scourged, and perpetually imprisoned. After nine months, she escaped confinement, and fled to England, where, in conjunction with her husband, who had there sold the necklace, she published a pamphlet against the court of Versailles, and particularly against the queen. Villette and Cagliostro, who had taken part in the deception, were banishell the kingdom. The countess was found, after a nocturnal revel, precipitated from a third story window upon the pavements of Loudon.
Lamp. The invention of lamps is ascribed to the Egyptians. In the festivals in lonor of Minerva, at Sais, in Lowor Egypt, great numbers of lamps were kept burning. They were known even in the times of Moses and Job. The Egyptians were also the first who placed burning lamps in the tombs with their dead, as an emblem of the immortality of the soul. From Egypt, the use of lamps was carried to Greece, where they were also consecrated to Minerva, the goddess of learning, as indicative of the nightly studies of the scholar. From Greeee, the use of lamps passed to the Romans. The first person who is known to lave published a collection of ancient lamps, is Fortunio Liceto, an Italian, whose chief design appears to have been to prove the possibility of the existence of inextinguishable, or, rather, perpetuallyburning lamps. Pietro Santo Bartoli, a countryman of his, afterwards published at Rome, in the year 1691, the collection of Bellori; but these engravings are exceedingly ill executed and unfaithful. Passeri, however, another Italian, published, at the sirggestion of the academy
of Pesaro, a collection of 322 lamps which he possessed in his museun. Tire above-mentioned collections, however, have been mueh surpassed in beauty and interest by that of Portici. The sixtir hall of that muscum is entirely filled with lamps and candelabras discovered in the houses of Pompeii and Hereulaneun. Representations of these were published! in 1792, in 93 copper-plates, exclusive of ${ }^{\circ}$ vignettes. They form the ninth volume of the Antiquities of Merenlaneurn. We find there represented and explained upwards of two humdred lamps and candelabras of bronze and terra-cotta. The ancients appear to have very carly acquired the practice of using lamps. The use of oil was not perhaps known to the Romans in very remote ages, althougli the Greeks, unquestionably, were acquainted with it, as appears from several passages in Herodotus. We find, indeed, the figure of the lamp sculptured and engraved on many of the most ancient Greek vases. It is with a lamp that Mercury, as depicted on one of these, lights Jupiter, who is represented sealing with a ladder the eliamber of Alcmena. Baked earth was the substance of which the earliest lamps were composed, but subsequently we find them of various imetalsof bronze more particularly. A few ancient lamps of iron are also extant; but these are rare, either because that metal was little used for the purpose, or on account of its more ready destrnction in tho ground. There are four specimens in the musuem of the king of Naples, at Portici, where there is likewise one specimen of a lamp of glass. It is entirely solid, and in one single piece. Pausanias mentions a grolden lamp in the temple of Minerva, and St. Augustine speaks of lamps of silver. No antique of either kind, however, has reached modern times. The testimony of Pliny, St. Angustine, and others, has led to the belief that the ancients had perpetual lamps, and Liceto has eomposed his work to establish this supposition. Different authors mention instances of lamps, which, in modern times, have been found burning in ancient sepulchres, but were extinguished as snon as the external air was admitted. The most famous instance is that of the tomb of Tulliola, daughter of Cicero, discovered at Rome, in 1540. None of these iustances, however, can be considered as proved. The idea probably arose from the inflammation of the hydrogen gas contained in these caverns, when explorers entered them with torches. The
lamps or candlesticks made use of by the Jews, in their own houses, were generally put into a very high stand on the ground. The lamps supposed to have been used hy the foolish virgins, \&c., in the gospel, were of a different kind. According to crities and autiquaries, they were a sort of torches inade of iron or potter's earth, wrapped about with old linen, and moistench, from time to time, with oil. (Matt. xxv, 1,2.) The lamps of Gideon's soldiers were of the same kind. The candlestick, with seven branches, placed in the sanctuary by Moses, and those which Solomon afterwards prepared for the temple, are said to have been crystal lamps filled with oil, and fixed upon the branclies. Among the Romaus, also, it was customary to have the lamp cither depending from the ceiling, or placed on a stand in the room, since the use of tables was not common to then, and thicir attitude, in studying, as well as at their repasts, was a lialf-recumbent one, holding their scroll or tablets before them on their knces. These stands were often highly ornamented. The most conmon form of them was a tripod with lion's feet, from which sprung sometimes the shaft of a column, according to one of the orders of architecture, the disk placed to receive the lanp forming the capital. These vessels were generally ornamented with mythological or allcgorical subjects, and their shape varied greatly. Sometimes it was a simple disk with a loole in the circumference, through which to pass the wick, and another in the middle, to pour the oil into. At other times, they presented the appearance of a boat. Occasionally their extremity terminated in two or thrce divisions, according to the number of beaks; but it would be endless to attenpt to pursue these details. Inscriptions were likewise often found placed upon them. Public illuminations on occasions of national rejoicing were common to the Romans. On the birthdays of thcir princes, on great religious solemnities, \&cc., they suspended lamps at the windows. Juvenal and Persius both make mention of this usage. Various motives have been assigned for the ancient practice of placing lamps in sepulchres. One of the most ingenious, and perhaps the most satisfactory, is that it was allegorical of the cessation of mortal life-of the separation of the soul, which the ancients regarded as an emanation of fire. On some sepulchral lamps we find sculptured the figure of the butterfly, in allusion, no doubt, to the equally cleerful
vol. vil.
and elegant imagination of the escape of the spirit, in a more aërial scmblance, from its chrysalis state. The early Christians adopted, in their monuments, this pagan usage, together with many others, and the lamp has been found in the tombs of saints and martyrs, and of distinguished men who embraced Christiauity. In these instances, it was, no doubt, meant still more to be illustrative of that divine flame by which they were inspired, and whose inward light guided them through the many savage persecutions suffered by the primitive followers of our holy faith. The shapes of ancient lamps, as well as many other ancient utensils, have been imitated with much success by Mr. Wedgwood. The priucipal works to be consulted on the subject of lamps are those already quoted, of Liceti, of Bellori, and of Passeri; Antichititù d'Ercolano, volume $9^{\prime}$ (Lucerne); a Dissertation sur une Lampe antique trouvie à Munich en 1753 , written by the prince de St. Sevère on the question of incxtinguishable lamps; and the preliminary remarks to the description of two antique lamps found at Nismes, in vol. 2 d of Millin's. Monumens Inédits. The best lamps now in use are those invented by Argand, at Geneva, in 1784 . The principle on which the superiority of the Argand lamp depends, is the admission of a larger quantity of air to the flame than can be done in the common way. This is accomplished by making the wick of a circular form, by which means a current of air rushes through the cylinder on which it is placed with great force; and, along with that which has access to the outside, excites the flame to such a degree, that the smoke is entirely consumed. Thus both the light and heat are prodigiously increased, the combustion being exceedingly augmented by the quantity of air adnitted to the flame; and what, in common lamps, is dissipated in smoke, is here converted into a brilliant flame. This lamp is now very much in use, and is applied, not only to the ordinary purposes of illumination, but also to that of a lamp furnace for chemical operations, in which it is found to exceed every other contrivance yet invented. It cousists of two parts, viz. a reservoir for the oil, and the lamp itself. The Argand burner is constructed by forming a hollow, cylindrical cavity, which receives oil from the main body of the lamp, and, at the sane time, transinits air through its axis, or central hollow. In this cavity is placed a circular wick, attached, at bottom, to a
movable ring. This ring is capable of being elevated or depressed by meaus of a rack and pinion, or more commionly by a screw; so that the height of the wick may be varicd to regulate the size of the flame. On the outside, is placed a glass chimney, which is eapable of transmitting a current of air, on the same principlcs as a common smoke flue. When this lamp is lighted, the combustion is vivid, and the light intense, owing to the free and rapid supply of air. The flane does not waver, and the sinoke is wholly consumed. The brilliancy of the light is still further inereased, if the air be made to inpinge laterally against the flame. This is done either by contracting the glass chimney near the blaze, so as to direct the air inwards, or by placing a metallic button over the blaze, so as to spread the internal current ontward. The Argand lamps arc called, in France, lampes ì Quinquet, or, more briefly, Quinquets, from an artist of the nanc of Quinquet, in Paris, with whom Argand was connected. To avoid the shade oecasioned in common lamps, by the reservoir for the oil being under the flame, various contrivances have been introduced, in which the reservoir is placed at a distanee from the flame. In the astral and sinumbral lamps, the principle of which was invented by count Rumforl, the oil is contained in a large horizontal ring, having a burner at the centre, communicating with the ring by two or more tubes placed like rays. The ring is placed a little below the level of the flame, and from its large surface affords a supply of oil for many hours. A small aperture is left for the admission or escape of air, in the upper part of the ring. When these lamps overflow, it is usually because the ring is not kept perfectly horizontal, or else because the airhole is obstructed-a circminstance which may even liappen from filling the lamp too high with oil. (For an account of Davy's safety lamp, see Damps.)
LAMPADEPHOROI (Gr. 入aptas, a torch, and $\phi \varepsilon \rho \omega$, to carry). In the torch-raees of the ancient Greeks, the snccessful competitor was called ^а $\mu \pi \alpha \delta \eta \phi \circ \rho o s$, and the
 took place in Athens, at the Vulcanalia, Promethea, Panathencen, and some other festivals. The rmnucrs were three youths. It was decided by lot who should begin. He commenced his race, and, if his torch was extinguished before he reaehed the goal, he gave it to the second, and this onc, in a similar case, to the third. He who carried the torch buruing to the goal was the victor (даuпаіпфороя). If a
youth ran too slow, in order to avoid extinguishing lis torch, the spectators drove him on by beating him with the open hand. The poets often allude to the delivery of the toreh from one to the other.

Lampblack. (See Carbon.)
Lamprey (petromyzon). This fish has a long and slender body, resembling that of the eel. The skin lias no scales, but is covered with a glutinous mucus. The sea-lamprey, which is sometimes thic largest species, grows to a very large size, laving been seen of five or six pounds weight. Its color is dusky, irregularly marked with dirty yellow. In the mouth are plaeed 20 rows of sniall teeth, disposed in circular order; and placed far back near the throat, four, five and six in eaclit row. The branchice are situated within seven apertures that exist on each side of the neck. This fish, as its name indicates, possesses the power of sucking and adhering to stones. The mouth is of a round form, resembling that of a leech, and, like that animal, it can adhere to any substance with great firmness. The sea-lamprey, although properly an inlabitant of salt water, like the salmon and other narine fish, is found at certain seasons of the ycar in rivers. The lamprey was at one time considered as a great delicacy by the English; and a surfeit oll them caused the death of Hemry I. In the reign of Henry IV, so liighly were they esteemed, that protections were granted to such vessels as might bring them in ; and his suceessor issued a warrant to William of Nantes, for supplying him and his army with this article of food, wherever they might liappen to mareh. The lamprey isstill considered as a delieaey at eertain seasons of the year, but has lost much of its value as an article of food. During eold weather, this fislı conceals itself in the crevices of roeks; and it is a usual expedient with auglers to form pits extending to the water side in the vicinity of its haunts; into these a little blood is thrown, to induce the lamprey to come forth, when it is readily taken. The lamprey, so celebrated among the epicures of ancient Rome, appears to have been a fish of auother genus-the muræna, or murenopluis. This fish, with the bass (lupus) and a speeies of mullet (myxo), formed the pride of Roman feasts-the tripatinum. (See Pliny, lib. 35, cap. 12.) These lampreys were reared withi the greatest care, and at an enormnus expense, in artificial fish-ponds. Pliny gives some curious details on this head; he suys, Lu-
cullus formed a fish-pond, wear Naples, of such size, that the fish it contained, after his death, sold for $4,000,000$ of sesterces ( $\$ 170,000$ ); but Hirrius was the first to build a pond for lampreys alone. On one oecasion, when Cæsar gave an entertainment to the people, Hirrius furnished him with 6000 of these fish. They also appear to have been kept as pets; thus the celebrated orator IIortensius wept bitterly at the death of a favorite lamprey, and Autonia, the wife of Drusus, ornamented one with jewels. The bite of the murena was deemed so poisonous by the fisherinen, that they adopted great caution to prevent its effects, seizing the animal by the head with a foreeps, and rubbing its snout against some hard substance to destroy its teeth, and beat it on the tail, where (as is now supposed with regard to eels), it was thought that the life resided. There are several other speeies of lampreys and murenas, some of whieh inhabit our eoasts and rivers, for information on which we refer to doetor Mitehell's paper on the Fishes of New York (New York Pliil. Trans.), and Mr. Lesueur's on Americun Murrenas (Jour. Acad. Nat. Sei.).

Lancaster, sir James, an early English narigator, made a voyage to America in 1591, afterwards sailed round the cape of Good Hope, and visited Ceylon and Pulo Penang. In 1594, he engaged iu a predatory expedition to South Ameriea ; in 1600 , went with a fleet to the East Indics, formed a eommercial treaty with the king of Aehen, and established a friendly correspondence with the state of Bantam, in the island of Java. Lancaster, in his last voyage, procured some information relative to a north-west passage to the East Indies, which oeeasioned the subsequeut expeditions of Iludson and others. Baffin gave the name of Lancaster's sound to an inlet which he diseovered in $74^{\circ}$ of north latitudc. (See the collections of IIakluyt (vol. iii), and Purehas (vol. i), and the article Polar Expeditions.)

Lancaster, Joseph, the promulgator of the system of mutual instruction, may be regarded as one of the most useful men of his age. He was born in 1771, was bred a Quaker, and still maintains the habits and inanners of that peisuasion. It has been made a subject of dispute whether doctor Bell or Mr. Laneaster is the inventor of the system of mutual or monitorial instruetion. The faets in the case seem to be these : the reverend doetor Bell, an English chaplain in the East Indies, practised a system of mutual instruction, in Madras, which he found, at least in part.
already in existence among the natives. On his return to England, in 1797, he published a pampllet (Education pursued in the Madras Asylum) giving some account of the method and his experience. A few years after, Lancaster began to apply the method, and introdueed some improvennents, enabling liin to manage and teaeh a greater number of children than had previously been attempted. It is evident that neither of these gentlemen can be strictly called the inventor of the system, although both are entitled to great praise for the improvements which they introduced. It has, in fact, been long in use among the Oriental nations. Doctor Bell, as we have inentioned, borrowed it from the natives in Hindostan, and Shaler (Sketches, \&e.) speaks of it as employed in Algiers. To Lancaster, however, is due the nobler praise of having disinterestedly devoted himself to the task of diffusing a knowledge of this plan of instruction in two worlds. He began his labors in England, in 1803. The object was at first to procure a eheap means of instruction for the poorer classes, who, it is well known, were then mprovided for in most countries of Europe. Laneaster reeeived great encouragernent from many persons of the highest rank in England, which enabled him to travel over the kingdom, delivering leetures, giving instruction, and forming schools. Flattered by splendid patronage, and by proinises of support whieh were never realized, he was indueed to embark in an extensive sehool establishment, at Tooting, to which his own resources proving unequal, he abandoned his establishment, and threw limself on his own talents, and on the liberality of the publie at large ; but, being disappointed in his expectations, and unwilling to submit to preseribed terms, whieh he considered as implying some fault on his part, when no fault really existed, he left England in disgust, and, about 1820, visited Ameriea. He had previously published Improvement in Education (1803); a Letter on the best Means of Edueating and Employing the Poor in Ireland (1805); Outlines of a Plan for the Education of Children; Aecount of the Progrcss of J. Lancaster's Plan for the Education of Children (1810); Report on the Progress of his Plan from the Year 1793 (1812).
Lancaster, in Pennsylvania. (See Appendix to this volume.)
Lance; a weapon consisting of a long shaft, with a sharp point, mueh used, particularly before the invention of fire-arms.

It was eommon among the Greeks and Romans. The Macedonian phatanx was armed with it, and it was the chief weapon of the Roman infantry. The javelin, or pilum, was but seeondary. The lanee is found among almost all uncivilized tribes: it was the chief weapon in the middle ages, and is now eonsidered one of the most effective arms of eavalry. The lanee of the knight, in the middle ages, was of a peeuliar form. Near the lower end, it was very thiek, with a deep opening, in whieh the arm was plaeed when the lanee was put in rest, preparatory to a charge. Immediately in front of the opening, the lance was from 1 to $1 \frac{1}{2}$ feet in diameter, and sloped off towards the upper end, which was from $\frac{1}{2}$ to $\frac{3}{4}$ of an ineh in dianneter: From this weapon the small bands, of whieh the eavalry of the middle ages consisted, took their name. A lance denoted a man at arms (horseman completely armed) with four or five attendants. Anong the French, in the fifteenth century, these attendants consisted of three arcliens, one coutillier (so named from the long, broad dirk in his belt), and one page or valet. The introduction of firearms gradually led to the disuse of the lance in the West of Enrope, though it continued among the Turks, Albanians, 'Tartars, Cossacks, Poles and Russians, and other Selavonie tribes, among whom it was borne by light-armed eavalry, on fleet horses. Frederie the Great, seeing the advantageous use made of this weapon by the Poles, gave it to a portion of his cavalry, and afterwards formed an entire regiment of laneers. The Austrians followed, and soon established three reginents of Uhlans, as they were termed. After the partition of Poland, many Poles entered the French serviee, and a body of Polish laneers was established. The war with Russia, in whieh the effieiency of the lanee in the hands of the Cossacks, particularly in 1812, was strikingly manifested, brought this weapon into still more repute, and the Prussians formed three regiments of Uhlans. The Freneh laneers were formed in 1813, to eope with the Cossacks. Almost all the armies of Europe now have regiments of laneers. To use the lance with effeet, however, requires mueh practice. The lanees now in use, among the European eavalry, have a shatt of ash or beeeh wood, 8,12 , or even 16 feet long, with a steel point, 8 or 10 inches long, and, to prevent this being hewn off, the shaft is guarded by two strips of iron, $1 \frac{1}{2}$ to 2 feet long, below which an iron ball is sometimes plaeed to
prevent the lanes point from penetrating too far. The other end has an iron cap, to prevent its splitting. The point has a small flag, intended, by its waving, to frighten the horses of the enemy. When not in use, the lanee is carried in a leathern shoe, by the right stimup, dependent by a leathern thong on the right arm. In use, it is earried under the right arm. This weapon requires a practised horseman. (See Pike.)

Lancelot of the Lake; the name of one of the paladins celebrated in the traditions and fables relating to king $\operatorname{Ar}$ thur (q. v.), or the Round Table. Aeeording to tradition, Laneelot was the son of Ban, king of Brucie, und, after his father's death, was edueated by the fairy Viviana (the Lady of the Lake). The youth having given proofs of great valor, she took hin to Cramalat, to the eourt of king Arthur, and requested him to make lim one of his knights, and to admit him to the number of the heroes of the Round T'able. Arthur, with his sword (escalibor), dubbed lim knight, and Lancelot subsequently distinguished himself by his extraordinary deeds and great heroism amongst all the palarlins of the Round Table. His love for Genevra, the beautiful wife of Arthur, and his disregard of Morgana, a fairy, and the sister of Arthur, placed the knight in the most dangerous and narvellous situations, from shich, however, he ahways extricated himself by his valor and the assistance of the Lady of the Lake. He finally suceceded to the throne of his ancestors, after having defeated king Claudas, the inurderer of his father, but was slain by Mordree, the nephew and murderer of Arthur, whom Laneelot wished to punish. In his last inoments, Viviana appeared to him, and, with a gentle kiss, took the last breath from the lips of the dying lero, who was the sole survivor of the knights of the Round Table. His remains were taken to his eastle, and there deposited near those of the beautiful Genevra. This tradition has been variously handled by poets.

Lancerotta; one of the Canary islands. (See Canaries.)

Lanfranc, a prelate of the eleventl eentury, distinguished by his learning and abilities, as well as by his opposition to Rome, was horn in 1005, at Pavia, and, after having been for some time a professor of jurisprudence at Avranehes, assumed the cowl, and was eleeted prior of the abbey of Bee in 1044. In 1059, le entered into a dispute witl Berengarius of Tours, at Rome, respecting the doe-
trinc of transubstantiation, and maintained the controversy against him, not only personally before the general council held in that city, but subsequently in his writings. Three years after, he exchanged his priory for the abbey of St. Stephen, at Caen, in Normandy ; and when William, the sovereign of that duchy, nequired the English throne by conquest, the interest of that prince procured his election, in 1070, to the archbishopric of Canterbury, then become vacant by the deposition of Stigand. In his superintendence of this diocese, he was carly involved in a contest with Thomas, archbishop of York, respecting the primacy, which was decided in his favor. Lanfranc was an able politician, as well as a munificent prelate. He died in 1089. His writings were printed in one volume, folio, 1647.

Land. Property in. [The following artiele, translated from the German Con-versations-Lexicon, has more particular reference to the state of things existing in Europe. Mueh of the speeulation, however, is of a general nature, and we have thought the whole article might prove not uninteresting to our readers.] The relations of landed property are among the nost complicated and most important in civil society. They lie at the foundation of almost all the relations and institutions of the state. On their right direetion depend the strength and vigor of the cominonwealth. They mark the transitions from one step of refinement to another (hunting and fishing, raising of cattle, agrieulturc condueted by slaves and bondmen, or by freemen, with or without a right in the soil). These relations express the ancient hostility between various classes of people, between liunters, herdsmen and husbandmen, between city and village, \&c. Nevertheless, hardly any subject of law and politics has been investigated with so little profoundness. In no one las prejudice gained such an ascendeney, and resulted in such important eonsequences. Almost all modern constitutions have taken landed property for the basis of their nost important institutions, and given the owners of land a power over the other members of society, the consequenees of which are apparent. Distinguished writers have even gone so far as to eall owners of land the only true eitizens-the nation, properly so called; and all others who ehance to have $n 0$ immerliate slare in the soil of the state where they reside, are styled by them mere strangers-tenants'at will-a homeless rabble, dependent on the good pleas-
ure of their landlords-a class of people, who, in affairs of common interest, are searcely permitted to hear, and never to speak; whose duty is obedience to their natural masters, the proprietors of the land. But, if these relations are earefully examined, this view is found to be connected with palpable errors. 1. It is wrong to suppose that the banding togetler of men in a state is connected inseparably with the appropriation of landed property, and that this constitutes the distinction between wandering hordes and civil society. Even nomadic nations have some general idea of the exelusive right of their descendants to the lands which they have been in the habit of periodically oceupying, and where they have found support for themselves and their cattle. They esteem it an attack upon their essential rights, for another family or tribe to usurp these pastures, just as hunters consider it a violation of their privileges, when their hunting grounds are contracted by the eneroaehment of settlers, or by the incursions of strangers in pursuit of gane. Hence Abraham separated fiom Lot. (Genesis, xiii.) The various treaties of the European settlers with the savages of the American wilds elearly show how decply the idca of the rights of tribes and familics in the soil is rooted in nature, and how fully it is developed long before the rude inhabitants have mited under a regular government. 2. 'The division of territory among private owners takes place much later, is not inseparably conneeted with the purposes of a state, and is ineapable, at any time, of absolute perfection. We must remember, on the one hand, that a division of this nature takes place before the idea of the true purposes of a state is matured; and, on the other, experience slows, that even a very regularly constituted state may exist in connexion with the original community of property in the soil. But the assertion of the right of private property in the soil, before the assemblage of men, for cominon purposes, has given rise to states, is so rare, that perliaps history offers no precedent of it, except in the ease of some Robinson Crusoe, who has elaimed the ownership of some unappropriated territory on which chanec had thrown him, and, what is more to the purpose, a proper ownership in the soil ean arise only in and for the, purposes of a state; and this right is always different from that which obtains in regard to movable property. The confusion of these two relations, in law so essentially differcut, arises from the cir-
eunstance that the same name is applier to both, and is the source of those numerous errors, the evil consequences of which are felt in every vein of the body politic. 3. Kant has particularly shown that genuine property (and a possession not dependent on actual occupation, with all the consequences that result fiom $i t$ ) arises first in and by the state. Before him, men were led away, by the eustomary ideas of positive law, to regard the occupation of property as an act by which an objeet of nature becomes, once for all, united with the person of the possessor, in such a manner that every other person must abstain from the use of it, even though the owner should leave it nuemployed (if it be a piece of land wholly uncultivated), or be without the ability suitably to use it (as if it ineludes a large district). But there is no reason, aside from the positive law of the land, why one man should be authorized to bind forever the wiil of others; and it is impossible in regard to the soil, because, in this way, it would be made forever dependent upon the will of the first possessor, and others might be excluded from the very means of existence. Hence private property in land is among the institutions which are first established by the state; but it must he observed, that these still remain snbject to alteration whenever the grood of the state seems to require it. $\Lambda$ part from the state, a man has no unalienable property but his own person, and a clain upon others for a regard to his personal dignity, which arises from the worth of lis nature, and makes it unlawful for others to use him merely as the instrument of their own purposes, or to avail themselves of his powers, or the fruits of them, against his will. Labor is therefore the foundation of property, apart from the institutions of the state ; and its visible sign, that is, the alteration of form produced by it, gives notice to others that they are to abstain from the use of the article thus appropriated. By labor, a man connects a part of himself with a given subject; but this relation is not etemal ; it continues ouly while the form impressed on it by such owner remains; for the labor bestowed by men on natural materials is only an alteration of the relations of form and place; it leads to no new product. Man can create nothing new. This privilege natme has reserved to herself by eternal and unchangeable laws; but man can only alter the forms and relations of natural productions, and bring them into comexions in which the creative poser of nature
shall becone serviceable to his ends. He impreses rupon things the stump of his own ingenuity, and exercises that dominion of mind over matter, the extension of whicl is an important part of his destiny. There is therefore a kind of property independent of that given by the institutions of the state, but not mialienable. As a nan possesses nothing in nature, but the labor which he incorporates with it, that is, the form which lie gives it, this right ceases when the effects of the labor are lost, and the form vanishes. Nature las a tendency to efface the impressions of art; the hmman form loses its symmetry, the tamed beast returns to his native wildness, and the cultivated field to its forner sterility. The effects of labor are lost; and, if a sccond now appropriates the object, when it is relinquished by the first, he deprives no one of the fruits of his labor, and there is no question of property. 4. This view of the sulbject shows that the state is not to be looked upon as a combination of landed proprictors; for they have become landed proprietors only by means of the state itself; and it is just as absurd to derive the existence of the state from something that rereived existence from it, as to cousider nobility older than sovercignty, and independent of it. It is likewise unfounded in a historical point of view. In the listory of all states, we retum, with the fullest certainty, to the period when the soil was common to all the inhabitants, and to the subsequent periorl, when it was regrardel as the rightful possession of a certain family or community. The family occupation is obviously the oldest form of restricted possession, which unfolded itself first in the patriarclial government, and is to be seen in the original constitution of almost every state. The origin of family property can be traced only to the immediate gift of a higher power. Thus Jehovalh promised to the family of Abraham the land lying on the banks of the Jordan; and the North American tribes ascribe tho right of the red men to their hunting grounds to a special gift of the Great Spirit. Hence we sce the reason why, in all the carly divisions of territory; some important portion of the land, or a permanent tax, as the tenth of all the fruits, was preserved for the service of the national deities. Front common property there arose, uader the patriarchal dominion, the exclusive right of the founder of the fannily; for, while the oldest member is the representative of the whole, it helongs to him to divide the
common soil among the different members. If the population increases, and circumstances prevent the sending out of colonies, or the wandering of a part of the family, nothing remains but to procure from the ground a richer supply of provisions by regular cultivation; and, when the wandering tribes, who before subsisted by hunting, submit to the more arduous labors of agriculture, a division of the territory into portions, which are secured to individuals by conditions more or less settled, cannot be avoided. But the forms under which this important clange takes place are almost infinite. Sometimes the land is divided among individuals cvery year; sometimes it is assigned to the principal members of the stock, the elders of the trile, and by them subdivided among the inferior members. This is seldom done, however, without a compensation. The compensation, for the most part, consists of a certain part of the productions of the soil, or of a sum of money, fixed without regard to the harrest. Thic idea of common property gradually died away, especially when private property grew up in particular cases, or in neighboring tribes, along with the annual division; and the head of the tribe, instead of remaining the manager of the common property, became its exclusive possessor. This has been the state of things in most of the countries in the south of Asia; and we find traces of it till a very late period, even in Europe, in which a patriarchal government, but slightly modified by the general constitution of the country, has obtained, till modern times in the Scottish Highlamds, Every tribe there viewed itself as a family, and the eldest member, or laird, as the master. The territory of the clan was his; what was not retained for his own use, or the public, he divided in large portions among his nearer relations (tacksmen), who either cultivated it themselves, or distributed it in smaller portions among the people. But the grant to the tacksmen was only transient: when the family increased in numbers, they were forced to give place to the nearer relations of the laird. (See Highlands.) The condition of common property in the soil is very differcut, when the fanily union gives place to a regular community; and this is a general consequence, wherever a part of the race seek new labitations on aceount of their increasing numbers, and where, to overcome the opposition of the primitive settlers, collections of emigrants from several fanilies enter into a political union.

In the eonstitution of communities, the property of the whole belongs to the associates colleetively (and commonly a portion to the divinities of the eountry and the head of the society); and on account of the military constitution of most early communities, which are constantly in a state of defence or of aggression, they arc obliged to take measures that there shall always be a competent number of ablebodied warriors, and also that no one shall be suffered to aceumulate too much by purchase or inheritance. Hence a number of lots are laid out, each sufticient to support a family of freemen, and laws are enaeted to restrain the further division, as well as the amalgamation of the divisions previously made. This was the ease particularly in Sparta, but the plan failed. In Rome, before the laws of the 12 tables, there was a similar institution, and the consequence was, that the lot of a Roman, or his family property, could not be taken from him, or sold by him to another. As Rome retained many relies of the patriarclal government, and these had an important influence upon all their civil institutions, it was impossible for the relations of landed property to be free from it. The community in general had a large landed property, which was daily increased by successful wars (the conquered being usually deprived of a part of their territory); but the ruling patrician funilies were the only real gainers by the addition. The soil was divided among them; and, in fact, it wonld have been of little use to that class of citizens who subsisted on the income of their original lot, hecause men were wanting for the purposes of agriculture. This want of laborers is shown by the fact, that the patricians forced a vast number of their plebeian debtors to labor for them; and these debtors were numerous; for the constant wars that harassed the Roman govermment reduced multitudes to the necessity of brirowing. Hence it was nuch for the advantage of this class of people that, in the 12 tables, in the famous passage which gave occasion for dispute cven in the time of the Antonines, and which has been understood as referring to the division of the debtor's body, provision was made, in all prohability, for the divisibility and alienability of the landed property of the eitizens. At the same time, it is manifest, that the desire of the plebeians to establish a new and more just division of land (by the agrarian laws), was founded on the principles of right. But after this important step was once taken, a more and
more perfect freedom and divisibility of landed property found place in the Roman law, which forms a characteristic truit of their legislation. In the German states, the dissolution of the ancient family unions by the institution of societies, was the fundamental principle which manifested itself first in the relation of leaders and their personal retainers. In the new states established by successive conquests, extremely complicated relations grew up; as the ancient inhabitants were sometimes deprived of all their landed property, as in England, for example, and sometimes surrendered only a part of it, as in Italy and the south of France; and this division also took place with many diversities of form. In regard to the share in the land which belonged to the conqueror, we find again a general division: a certain portion of the whole fell to the chief, who had to apply it to the support of his immediate attendants; another portion was assigned to the attendants thenselves, and, after certain subdivisions and tithings, it was given up to the community as common property. This common property was enjoyed, not unrestrictedly, but on condition of appearing to do military service. In a ferv instances, it long retained its character of common property. It was sometimes divided among the people by the head of the community for cultivation; and here and there was bestowed on individuals, ou condition of military service. This peculiarity is the foundation of the indivisibility of land, whicl occurs in some constitutions, and the exclusion of females froin the right of inheritance (in the terra salica of the Franks). To this community of property, or allodial possessions (int Saxon, folkland, or reeveland), are opposed the infeoffinents of princes, which were often the means employed by them to collect from the mass of the people, whether conquerors or conquered, a new retinue of more faithful personal attendants (Latin, fideles; Spanish, hidalyos), to whom they gave these lands in pay, instead of money. Hence arose the thaneland, and the more extensive grants by written contract, the bookland of the Saxons, the feh-od (land paid for services, instead of money, from the Gothic faiha, cattle, wealth, money, reward ; hence the English $f e e$ ), or feudal possessions. The intermixtures, substituions, and modifications, which these relations subsequently underwent, it is not necessary for us to dwell upon. We need only show how, in the modern states of Europe, private property in the soil may be traced to common property, and the
clear evidence which it bears of such an origin, in order to prove that it depends upon a grant on the part of the community, and that hence the owners of landed property have no right in the soil, but what is permitted by the state. What they receive from the state is not an acknowledgrnent and confirmation of a right, which they before possessed independently of such ackuowledgment, but the right itself. It is no arbitrary right, but it stands in close connexion with certain duties, and its existence and continuance are subject to the state legislation. The owners of landed property do not constitute the people, but only a single class, bound, like the rest, to devote their all to the promotion of the public good. 5 . History goes hand in hand with philosophy thus far: : while the former contradicts the supposition that landed property is perfectly unrestricted, to be used at will, the latter rejects the idea of such a grant as illegal, and even void. These philosophical grounds, indeed, must not destroy any actually existing rights; but reason has no small voice in deciding what is actually contained in the existing riglits. To sound reason it is evident, that every person must be allowed some resting-place on the earth; lence, as long as any place is left capable of affording support to another individual, the proprietors cannot arbitrarily deprive a fellow being of that support. They are bound to use the soil in such a way as to promote the general good. For every right has some duty for its basis; and landed property is possessed of peculiar rights, only because it is pledged to furnish men with food. This duty becomes more important and pressing as the population increases; hence it is necessary for the state to attend the more carefully to the fulfilment of it ; and the more sacred becomes the duty of those in whose hands the means are lorgged. According to these premises, the states of Europe have regulated their conduct ; they have not suffered ground capable of yielding income to lie unimproved; they have judiciously limited the cultivation of such plants as contribute nothing to the nourishnent of the human species, as tobacco, for example; they have encouraged the cultivation of other plants; they have forbidden the exportation of articles which are needed in the state where they arc raised; and, in some instances, their zeal has led them into wroug principles in their commercial intercourse; above all, they have taken away all obstructions to the improved cultivation of
the land. And these ordinances are imperiously demanded by the state of society ; for the right of property in the soil has no other end than to promote the cultivation of it for the general good; and it is on such conditions only that the state has distributed the land among individuals. If it is found necessary to deprive a proprictor of landed property of any advantage accruing to him from such a possession, it is not maintained that he shall receive uо compensation; but if a compensation is granted, the laws cannot be charged with interfering with lis rights, if they impose restrictions upon him in the use of his ground. Hence the common good ullows the state to repeal all laws which are a restraint upon the free use of the soil, as tithes; to promote its distribution by brcaking up entails, \&c., and to secure the cultivator, by not permitting him to be driven from the soil at the will of the landlord, or even by making temporary relations permanent; as the landed proprietors in Ireland, for example, were forced to substitute, in part, quit-rents in the room of leases for years. These ordinances concern the whole community; so that persons who are destitute of tanded property have as good a right to be heard on this subject as the landed proprietors. IIcnce, 6 , it is matter of serious reffection, that the constitutions of many modern states provide that the representative body shall be composed entircly of landed proprictors. This is partly on the ground of usage, partly from principles intrinsically good, that men receive the greatest advantage, not from a hasty renunciation of ancient laws, although imperfect, but from slow and cautious advancement, and that it is far more necessary to preserve the existing institutions, and to build them up with judgment and care, than to think of rearing new edifices; for though the fomdations of these may scem perfect, their advantages are not certain. But whether this end can be attained by ant exclusive representation of landed proprictors, may well be made a question. How can the true wants of all classes be made manifest, if the representation is confined to one? For this reason, a variety in the condition and rank of representatives is highly desirable; and, in some represcntative governments, provision has been made to attain such an object. Necessary as it is to provide that the representatives shall consist of men interested in preserving, and not in destroying, the settled order of things, it is equally uecessary to avoid, as much as possible, the preponderance of
men interested in maintaining old abuses, and to provide, as fully as possible, for representing the views of the great body of the people. It is not the soil, nor its possessors, but the great interests of the whole community, which form the object of the state and of representative constitutions.

Lanv, in the sea language, makes part of several compound terms: thus laying the land denotes that motion of a ship which increases its distance from the coast, so as to make it appear lower or smaller on account of the intermediate convexity of the sea.-Raising the land is produced by the motion of the vessel towards it.-Land is shut in, signifies that another part of land hinders the sight of that the ship cante from.-Land to; or so far from shore that it can only be just discerned.-Land Turn ; a wind that, in almost all hot countries, blows at certain times from the shore in the night.-To set the land; that is, to sce by the compass how it bears.-Land-Breeze; a current of air which, in many parts within the tropics, particularly in the West Indies, regularly sets from the land towards the sea during the night, and this even on opposite points of the coast.-Land-locked is said of a harbor which is environed by land on all sides, so as to exclude the prospect of the sea, unlcss over some intervening land.To make the land, is to discover it after having been out of sight of it for some time.-Land-Mark; any mountain, rock, steeple, or the like, near the sca-side, which serves to dircet slips passing by how to steer, so as to avoid certain dangers, rocks, shoals, whirlpools, \&c.

Lands, Public. (See Public Lands.)
Landamanan, in Switzerland (originally Landamtmann); the highest magistrate in the country, contradistinguished from Stadtamtmann, the highest magistrate in the city. At present, the highest magistrate in the cantons of Uri, Schweitz, Underwalden, Glarus, Zug, Appenzell, St. Gall, Thurgau, Tessin, and Pays-deVaud, is called Landammann. Most cantons have two or more, who command alternately ; some only one. The first magistrates of the other cantons are called Schultheiss (mayor), Burgermeister, Landhauptmann, Syndicus, \&c. The president of the diet of all Switzerland is also called Landammann.

Landau; a district of 530 square miles, with 101,600 inhabitants, and a fortified town of the Gcrnanic confederacy, with 5700 inlabitants; lon. $8^{\circ} 10$ E.; lat. $49^{\circ}$ $13^{\prime} \mathrm{N}$. It is under the sovereignty of Ba -
varia; was formerly a free imperial city, belonging to Lower Alsaee. Vauban construeted the fortifications.

Landece; a town in Silesia, near which are, some mineral springs. The vaters contain sulphate of potash, line and nitrogen. The temperature is $86^{\circ}$ Fall.

Lander, Riehard; the servant of captain Clapperton, whom he accompanied on his second expedition into the interior of Africa. He started from the Bight of Benin with his master, after whose death at Soecatoo (April 13, 1827), he returned to the eoast. His Journal is published with Clapperton's. (See Clapperton.) In the spring of 1830 , he set out, with his brother John, on an exploring expedition, and was landed at Badagry, Mareh 25, whence he intended to proceed to lake 'Tehad. (See the artieles Tchad, and Niger.) At the time of writing this (June, 1831), the newspapers have stated, that the two brothers arrived at Rio Janeiro from Fernando Po, in April last (1831), having in their possession the papers of Mungo Park. It is also further stated, that they had deseended the Niger to a point where it had become 10 miles wide, and separated into several branches, the prineipal of whiel, aecording to the Landers, formed the river Nonn, which empties into the Bight of Benin. Here, however, the travellers, being captured by the Negroes, were unable to prosecute this route any further. If this statement is confirmed, we shall be able to give the results of their diseoveries under the articles Viger, and Park.
Landes; a department in the southwest of Franee. (See Department.)

Lavdines, Christopher, an Italian selolar, philosopher and poet, born at Florence in 1424, was patronised by Pietro de' Mediei, and appointed tutor to his son, the afterwards celebrated Lorenzo, with whom an attachment highly honorable to both parties took place. Landinus, in his old age, became secretary to the seigniory of Florence, and died in 1504. He left several Latin poems, and his notes on Virgil, Horace and Dante are much estcemed. His philosophical opinions appear in his Disputationes Camaldulenses ( 1480 , folio, and Strasburg, 1508).

Lando, Michel; a wool-comber at Florence, who became, during the revolution of that republie, in 1378, gonfaloniere of the republie. Machiavelli, in the third book of his History of Florence, describes him as one of the wisest and greatest men, though from the lowest class. By his prudence and firmness, he
put an end to disorder, deposed the existing magistrates, ereatel a new nobility; and divided the people into three elasses. This state of things, howe ver, only lasted until 1301. (See Machiavelli's History of

## Florence.)

Landrectes, or Landrect; a fortress on the Sambre (navigable from this place), in the clepartment DII Nord ; lon. $3^{\circ} 42^{\prime}$ E.; lat. $50^{\circ} 22^{\prime} \mathrm{N}$.; with 3800 inhabitants. Its situation renders Landreey innportant in any war between Germany and France. Franeis I eaptured it, but it was recovered by Charles V. In 1655, it was taken by Lonis XIV, and was eeded to France by the peace of the Pyrenees, in 1659. In 1712, prince Eugene besieged it ; but marshal Villars delivered it. In 1794, Landrecy was taken by the Austrians, after a valiant defence, but recovered the same year. In 1815, the Prussians captured it after a short bombardment.

Landscape Painting. (See Painting.)
Land's End, in Cornwall; the western extremity of England. Lon. $5^{\circ} 45^{\prime}$ W.; lat. $50^{\circ} 6^{\prime} \mathrm{N}$.
landshet; a eity in the Bavarian eircle of the Iscr, with 8000 inhabitants, on the iiver Iser; lon. $12^{\circ} 6^{\prime}$ E.; lat. $48^{\circ}$ $30^{\prime} \mathrm{N}$. The eity is well built ; the spire of St. Martin's chureh is 456 feet higlı. Landshut formerly contained the university called Ludovico-Maximilianea, whieh was transferred hither from Ingoldstadt ; but, in 1826, it was transferred to Muniel. (q. v.)

Landshut, in Silesia, govermment of Liegnitz, at the foot of the Riesengebirge, on the Bober ( 3100 inhabitants), is important for its linen trade.

Landsmannschaft. (See University.)
Landsturm. (See Levée-en-Masse.)
Landwehr. (See Militia.)
Langdon, John, an eminent American patriot, was born at Portsmouth, N. H., in the year 1739, and was edueated in his native place. At an early age, he entered the counting house of a merehant, and afterwards owned and commanded a ship whieh was employed in the London and West India trade, but soon exehanged the sea-fiaring life for the business exelusively of a increhant, in whieh he was highly suceessful. At the opening of the re volution, he took a decided part in behalf of the colonies. As early as 1774 , when the mother country passed the Boston port bill, and menaeed hostilities, Mr. Langdon, with John Sullivan and Thomas Piekering, raised a troop, proceeded to the fort at Great Island, disarmed the garrison, and conveyed the arms and ammunition to a place of safety. The royal govern-
ment would have prosecuted him, but was deterred by the resolution of the inhabitants to shield him at all hazards. In 1775, he was a delegate to the general eongress of the colonies. In June, 1776, he resigned his seat in that body, for the place of navy-agent. In 1777, he was speaker of the assembly of New Hampshire, and, when means were wanted to support a regiment, Langdon gave all his hard money, pledged his plate, and applied to the same purpose the proceeds of 70 hogsheads of tobaceo. A brigade was raised with the means which he furnished, and with that brigarle general Stark achieved his memorable victory over the Hessians. In 1785, Mr. Langdon was president of New Hampshire, and, in 1787, delegate in the convention that framed the federal eonstitution. Under this constitution, he was one of the first senators from New Hampshire. In 1805, he was elected govemor of his state, and again in 1810. In 1801, president Jefferson solicited him in vain to accent the post of secretary of the navy at Washington. He died Sept. 18, 1819. Governor Langdon was a conspicuous and effieient public character. In the party politics of the Union, he aeted with Mr. Jefferson and his assoeiates; but he was honored and trusted on all sides. The influence of his name was great throughout the Union.

Langeland; an island of Denmark, in the south part of the Great Belt, between the islands of Laaland and Funen, about 30 miles in length, and from 3 to 5 in breadth; lon. $10^{\circ} 50^{\circ}$ E.; lat. $55^{\circ} \mathrm{N}$.; population, about 11,200 ; square miles, 103. This island is fertile in every part. It is now only a county, but one of the best in the kingdonn, and under the same governor as Funen. Rudkioping is the chief town.
Langeron, count de, was born, 1764, in Franee, served under Rochanbeau in Anerica, aud went, in 1787, to Russia, where lie distinguished hiniself against the Turks, and received the golden sword of honor. In 1792, he organized a corps of French emigrants. In the battle of Austerlitz, he counmanded, as Russian licutenant-general, the fourtl division. In 1807, he again served against Franee, then against Turkey. He commanded, under Blícher, in the battle of the Katzbach (q. v.), and took the division Puthot. In 1815, he again conınanded a eorps of 35,000 men against Napoleon, but did not arrive in time for the battle. On his return to Russia, he was made governorgeneral of the Crinea, and, in 1829, as
general of the infantry, commanded a corps against the Turks.

Langlande,liobert; a secular priest, and fellow of Oriel eollege, Oxford, in the fourteenth century, who is supposed to have been the author of the curious poetical compositions, entitled, the Vision of Pierce Plowman, and Pierce Plowman's Crede. He is said to have been a disciple of Wickliffe ; and his poems are satires on the viee and luxury of the monastic orders and Romish clergy in general. Editions of these works have been published by doctor 'T. D. Whitaker. (See Warton's Hist. of Eng. Poetry.)

Langlès, Lewis Matthew, a celebratecì Oriental scholar, born at Peronne, in France, in 1763, studied Arabic and Persian under M. Silvestre de Saey, afterwards Mantehou, and published an alphabet of that language in 1787 , with a dedication to the academy of inscriptions. This work was followed, in 1788 , by a Dictionnaire Mantchou-Français, afier which he printed various pieces translated from the Arabie and Persian. In 1790, he published Indian Fables and Tales, newly translated, with a preliminary discourse, and notes on the religion, mamers and literature of the Hindoos; and also the second volume of his Mantchou Dietionary. He was, in 1792, nominated keeper of the Oriental MSS. in the royal library; and, in 1793, he belonged to a temporary commission of arts, attaehed to the committee of public instruction. After the revolution in July, 1794, he became keeper of the literary depot, established in the old convent of the Capuchins, rue St. Honoré. To his zeal and influence were owing the creation and organization of a particular scliool for the Oriental living languages, in whieh he was professor of Persian. He wrote notes for a new edition of the Travels of Pallas, translated by Lapeyronie, whiel he published in 1795 ( 8 vols., 8 vo., with an atlas). He was also the author of valuable additions to the travels of Thunberg, Norden, \&c. After the executive directory had suppressed the temporary commission of arts, and dispersed, in various establishments, the objects which liad been collected at the Capuchin eonvent, M. Langlès devoted hinself entirely to the duties of his professorship, and to those whieh devolved on him as conservator of the Oriental MSS. in the national library. On the formation of the institute, he beeame a member, and belonged to the commission of literature, to which he presented many memoirs and notices of manuseripts. He also assisted
in many periodical works. In 1796, in conjuuction with MM. Daunou and Baudin des A rdennes, he made an abortive attempt to reëstablish the Journal des Savans ; and the Magazin encyclopélique contains a great number of notices and dissertations from the pen of M. Langles. He died in January, 1824. Ife liad formed a noble collection of hooks, manuscripts, engravings, \&c. ; and his louse was the gencral resort of travellers, cognoscenti, and students.

Langrel, or Langrage; a particular kind of shot, formed of bolts, nails, and other pieces of iron, tied togcther, and forming a sort of cylinder, which corresponds with the bore of the cannon from which it is discharged, in order to wound or carry away the masts, or tear the sails and rigging of the adversary. It is scldom used but by privateers or merchantmen.

Langton, Stephen; a cardinal, and archbishop of Canterbury, in the reign of John, whose disputes with the papal see originated in his rejection of this prelate's appointment. By birth, Langton was an Englishman, but he reccived his cducation in the French metropolis. In the university of that city, he had risen gradually, through various subordinate offices, to the cliancellorship, when, on going to Rome, the lcarning and abilities which had hitherto facilitated his advaucement raised lim so ligh in the favor of Innocent III, that the pontiff, in 1207, not ouly elevated him to the purple, but presented him to the vacant primacy of England, respecting the disposal of which the king was then at variance with the monks of Canterbury. John refused to confirm the nomination, seizcd on the temporalities of the see, and ordered the monks to depart the kingdom. A sentence of excommunication upon limself and his whole rcalm was the consequence; nor was it removed till the weak monarch, alarmed by the warlike preparations of France, and the general disaffection of his subjects, gavc up cvery point in dispute, and reconciled himself to the church. Langton took possession of his diocese in 1213, and was a strenuous defender of the privileges of the English church. The first division of the chapters of the Bible into verses is attributed to him. De la Rue mentions him annong the AngloNorman poets of the thirteenth century.

Lavguage. 'This word, originally dcrived from the Latin lingua (tongue), in its most general sense, means the faculty which God has given to men of commuricating their perceptions and ideas to one another, by means of articulate sounds. Metaphorically, its signification is extend-
ed to every other mode by which ideas may be made to pass from mind to mind. Thus we say, the "language of the cyes," the "language of signs," the "language of birds and beasts." Even silcuce, by a bold metaphor, las been assimilated to language by one of the inost clegant British poets:
"Come then, expressive silence, muse his praise."
Thomson.
In an analogous seusc, philologists call the communication of ideas ly writing, written language, in contradistinction to language properly so called, which they denominate spoken language. It is certain that ideas may be communicated by signs, representative of sounds, which word representative must not, lowever, be taken litcrally, because there is 110 point of contact between the sense of secing and that of heariug ; all that can be said is, that, by tacit convention, certain visible signss are made to awaken in the mind the idea of certain audible sounds, which sounds, by another tacit agreement, awaken the ideas of plyssical objects or of moral perceptions. Thus the eyc operates on the mind through the medium of the ear ; but the process is so rapid, liat it is not perceived at the time, and writing may be said even to be a quicker mode of communication than speech, for the cyc can rum over, and the mind comprchend, the sense of a page of a printed book, in a much shortcr space of time than the words which it contains can be articulaterl. Still the passage of ideas from the cye to the mind is not immediate; the spoken words are interposed between, but the immortal mind of man, that knows neither time nor space, does not perceive them in its rapid flight; and by this we may form a faint irlea of what the operations of the soul will be, when frecd from the shackles of our perishable frames. (For a more particular developement of this subject, as applied to alphabetical writing, see an essay, cntitled English Phonology, in the first volume of the new series of the Transactions of the Amcrican Philosoplical Society, p. 228.) The same principle applies equally to those modes of writing which philologists have denominated ideographic, by which it would seem to be implied, that ideas arc immediately transmitted through the eye to the mind. Among those is classed the Chinesc. But it is well known that every onc of the numerous characters of which that writing consists, awakens in the mind the idea of a syllable, which it is meant to represent; and that syllable, in speech, rcp-
resents a spoken word or part of a word. Thus, in this instance, the car (the mental (eirr) is also an internediate agent between the eye and the mind. (Sce the article Chinese Language, IFriting and Literature; see also a Petter from Peter S. Duponceau, esq., of Philadelphia, to captain Pasil Hall, in the London Philosophical Magazine for January, 1829, where this question is diseussed at large.) The same may be said of the Egyptian hieroglyphics. (q.v.) For a long time, it was believed that every one of those sigus was the representative of an ideu, until the researches of the younger Champollion afforded the most complete proof of their having been chicfly used as alphabetical characters, although their forns indicate a different destination. It would seem that it was originally intended to employ them to represent ideas, not abstraetedly, but through words or sentences of the sjooken idion; for wherever a language exists, and all nations have spoken before they wrote, ideas can only occur to the mind in the slapes given to them by the peeuliar structure and grammatical forms of that language. That might easily have been done to a certain extent. There was no difficulty in devising signs to awaken in the inind the idea of the sun, the moon, a tree, a house, or other objeet, perceptible by the sense of sight: physical and even moral qualities might be expressed metaphorically, as they are in speech; and even some abstract ideas might be represented as they are with us by our algelraic charaters. But this mode of communieation was necessarily very limited, and its sense, as well as its method, could only be explained by means of spoken words. This led to an casier process, and the hieroglyphies were turned into alplabetical letters. A number of them continued to be employed in the former mode ; as, in our alnanacs, we have elaracters representing the sun, the moon and her plases, various stars, and the signs of the zodiac. These are hierorlyphiss, to all intents and purposes, and every written language (if we may use the term) has more or less of them. The Egyptians have employed them in greater abundance than any other nation. Still those signs awakened ideas in no other forms than those in which they presented thenselves to the mind, when clothed in words ; lence we are informed by Chanpollion, that there were lieroglyphs significative of the articles which, in the Coptic language, are prefixed to substantives. But the article is a part of voL. V11.
speeeh not at all necessary in lanytage, since there are idioms (the Latin, for instance, and, amongst modern languages, the Russian) that are entirely without it ; so that it is evident that even hieroglyphic signs were invented to represent words in the first instance, and ideas through them. Of what is called the Mexican picturcwriting, we know too little to speak very positively. Uufortunately, the key to those hieroglyphs, which was preserved for a long time after the conquest of Mexico, is now lost. Therefore we cannot say how they were counected with the spoken language. But that such a connexion must have existed, it is impossible to donbt; otherwise, the Mexicans could not, as it is known they did, have communicated, by mere pictures of visible objects, the history of their empire, from generation to generation. 'the few liieroglyphic signs which our northern Indians eut or paint on the bark of trees, to inform each other of the number of their enemies, of the course they are pursuing, and of the number of scalps they have taken in battle, are so linited in their objects, that they ouly serve to show the difficulty of establishing a similar mode of communication on a more extensive scale. It would soon produce confusion, unless a method were connected with it, based on the structure and on the grammatical forms of the spoken language. This alone could class the signs in the memory, and furnish a clew to their differeut significations, as applied to various objects, eases and circumstances. It must be otherwise, however, whell men, in consequence of some natural defect, as the deaf and dumb, for instiuce, have no idea of sounds, and therefore are without a spoken language. Here their ideas are formed from the recollection of the perceptions which they have received through other senses than that of hearing. They, however, invent signs to communicate with each other, either through the organs of sight or by neans of toueh. It has been observed, that nany of those signs seem to have been tauglit by nature, and are the same in countries far distant from each other. These are to sight and feeling what onomatopeias are to sound, and are much more numerous, because more abounding in analogics. Others of those sigus are arbitrary, and that is where analogies either entirely fail, or are inore obscure and less perceptible. All of them, however, arc very limited, and, if the deaf and dumb were left to themselves, would not enable them to enlarge the circle of their
ideas. But the admirable art by which they have bcen taught to understand our languages, through the application of the sense of sight, and to comprehend the mysteries of their structurc and their forms, has opened to them a world of ideas, to which they were before entirely strangers, and has enabled them to combine them with method, compare them with precision, and draw from then correct inferences. To them words are not sounds, but groups of little figures, whieh elass themselves in their minds, and become a medium by which not only to increase the number of the visible signs by touch or gestures, through which they before communieated together, but to improve and methodize them to a degree which, without the knowledge of language, they never would have attained. This language of signs in our deaf and dumb asylums, and no doubt also in Europe, has reeeived a degree of perfection, which, in some respects, partieularly in the rapidity with which ideas are communieated, places it above speeel, although, in others, its inferiority eannot be denied. Those advantages it las derived from the knowledge of the forms and method of spoken language, obtained through its written image. It follows, from what has been said, that speeeli alone is properly eutitled to the nanie of language, because it alone can class and methodize ideas, and elothe them in forms which help to discriminate their various shades, and whieh mennory easily retains; that written signs or charaeters, invented by men who can speak, will naturally awaken ideas, in the forms in which their language has elothed them, so as to eonvey them to the mind through those well known forms, and eonsequently through the words or sounds to which they have been given. Those who are deprived, by nature, of the sense of hearing, will make the best use they can of the senses which they possess. We have even known a young woman, born deaf and blind, who, to a certain degree, could understand, and make herself understood, by means of touch; but, otherwise, speech is the basis of all other modes of comnunication between men, and all of them, whatever be their forms, reach the mind only through the reeolleetion of ideas, as clothed in the words of a spoken language.

Origin and Formation of Language.The origin of language is involved in deep obscurity. The greatest philosophers, among whom may be mentioned Leibnitz, J. J. Rousseau, Adam Sinith,

Dugald Stewart, and many others, have in vain exerted their powers to diseover what it is most probable will ever remain to us a profound mystery, at least on this side of the grave. Theories have been accumulated upon theories, systens have been formed, and volumes have been written for and against them ; but it does not appear that we are much better informed, at present, than we were in the begiuning. Human knowledge has its bounds, prescribed by the almighty Creator of the universe ; these bounds we may approaeh to a certain degree, but never pass. However we may be assured of this undeniable truth, it is not the less certain that the same Being who has set limits to our knowledge has implanted in our souls an ardent desire to extend it as far as possible ; and, as those precise limits have not been revealed to us, and there remains a vast space of debatable ground, we are not prohibited from exerting our best faculties in order to extend our view of that ground as far as our imperfect judgment, aided by our imperfeet senses, will permit; and therefore inquiries of this kind will always be curious and interesting, how often soever they may lave been tried in vain. Nor is it less curious to take a retrospeetive view of the aberrations of the human mind to which these inquiries have given rise. It is unfortunately too true, that, in pursuing them, men have mueh oftener reasoned a priori, than they have sought to eome at the truth by means of fair induetion from well ascertained faets. It is but lately that philologists have employed themselves in collecting fuets till then unobserved, by means of which some extension of our knowledge may bc gained, though we must not expeet that we shall ever be able to penetrate into the seerets of Providence, which, if they were displayed before us, it is probable that our weak minds could not ever comprehend. Philologists long bewildered themselves in search of the prinitive language. The greatcst number of the learned assigned that rank to the Hebrew, it being the languagc of the holy writings, as they have come down to us from the time of Esdras. But many solid objections have been made to that hypothesis, and it seems now to be generally abandoned. Others saw the primitive language in that of their own country, or in some other idiom of whieh thcy were partieularly fond. Thus Van Gorp, a Fleming, better known as Becan or Becanus, was in favor of the Low Dutel, Welh was for the Chinese, Reading for the Abyssinian, Stiern-
hielm and Rudbeckius for the Swedish, Salmasius, Boxhorn and Aurelius for the Scythian, Erici for the Greek, IIugo for the Latin, the Maronites for the Syriac. In our day, don Juan Bautista de Erro y Azpiroz, who not long since was one of the ministers of state to the present king of Spaiu, in a work entitled El Mundo primitivo, ̀ Examen Filosofico de la Antiguedad y Cultura de la Nacion Bascongrada (printed at Madrid, in 1815), claims that honor for the Basque, which, however, in a former work, entitled Alfabeto de la Lengua primitiva de España (Madrid, 1806), he had only, and with more reason, supposed to be the primitive language of Spain. A partial translation of these works was published at Boston, in 1829 , by our learned countryman, George W. Erving, esquire, late minister of the U. States to the court of Spain, and will be read with interest, because, in the inidst of his national prejudices, the Spanish author discovers a truly philosophic mind, particularly where he maintains, with great cogency of argument, that, because inen in the beginning had but few wants, it does not follow that they had few ideas, and that their language was destitute of form or method. (El Mundo primitivo, p. 37.) The admirable syntax of the languages of the American Indians has sufficiently proved the correctness of this proposition, which now seems to be generally admitted, though it was at first received with great distrust by the lcarned world. (Sce Historical Transactions of the Amcrican Philosophical Society, vol. i, in the report of the secretary of the historical committee, printed at the beginning of the book, in which this doctrine appears to have been sufficiently proved. See, also, the preface to the translation of Zeisberger's Delaware Grammar, in the third volume, new series, of the Philosophical Transactions of the same society.) We shall presently expatiate somewhat more at large upon this subject. That there was a primitive language, which was spoken by the first parents of mankind, is a fact attested by our Holy Scriptures, and which philosophy is not willing to deny. But what has become of that language, and where is it now to be found? Grotius was of opinion, that though it exists at present nowhere in its original form, yet that traces of it may be found in all the languages now spoken. This was a bold assertion, and which could not proceed from actual observation of facts; for what man ever did, what man ever could, compare all the languages of the earth, so as to
ascertain whether or not there are to be found in them traces of a primitive idiom, and, what is still more difficult, to point out what these traces arc? One man, however, was found,-a man of extensive learning and erudition, and, at the same time, a pure and an elegant writer, who thought he had discovered the primitive language. This was the celebrated Court de Gébélin, well known as the author of a large work, published at Paris (from 1773 to 1784), containing nine quarto volumes, entitled Le Monde primitif, analysé et comparé avec le Monde moderne. This curious work contains etymological dictionaries of the Latin and French languages, in which the author assumes to derive all the words of those idioms from his pretended primitive tongue. He considered speech as an instinct, and every language as a dialect of that which he called "primitive, inspired by God himself -natural, necessary, universal and imperishable." So far may a man be carried, by the spirit of system, and enthusiasin for a favorite hypothesis! It needs not to be said that Gébélin's imperishable language has perished with him ; yet his books may still be read with advantage, because, like Don Quixote, when he is not mounted on his hobby horse, he shows himself a man of judgment and of profound thought. Count Lanjuinais has abridged and enriched with notes one of his volumes, entitled Histoire naturelle de la Parole-a valuable system of general grammar, held in high esteem by philologists. What gave the greatest appearance of probability to the proposition advanced by Grotius, and many others after him-that the remains of the primitive tongue are to be found and discerned in all existing languages-is the astonishing affinities which have been discovered between the languages of Europe and those of Western Asia, so that even the German and the Sanscrit have been classed together under the generic name GermanoIndian. These affinities really do exist, to a degree that would hardly be believed, if the well-ascertained fact were not too stubborn to be resisted. But as soon as we have crossed the Ganges, and proceed towards China, these analogies vanish, and we find languages entirely different from those of the West, not only in etymology, but in their grammatical forms. In the interior of Africa, in the Australian islands, and on the whole of the American continent, we find idioms of different structures, having characters of their own, and in which it would be in vain to seek for traces of the primitive tongue. The late professor Barton, of

Philadelphia, and after him professor $\mathrm{V}_{\mathrm{a}}$ ter, of Königsberg, endeavored to find affinities between the American languages and those of the Tartars and Sanoieds; hut their researches produced no derisive results. Here and there they found a few words, which seemed to sound alike, but in such small numbers, and so seattered among the numerous idions of those nations, that it was not possible to infer even the probability of a former connexion between them ; and it is more natural to suppose that chance produced those aecidental similarities. (See New Views of the Origin of the Tribes and Nations of America, by B. S. Barton, Philadelphia, 1797, 1798; and Untersuchungen über Amerika's Bevelkerung, von J. S. Vater, Leipsic, 1810.) If we were only to attend to the etynoobogical part of languages, that is to say, to the words of which they are composed, considered merely in relation to the sounds which they produce when uttered, we might still doubt whether the prinitive idiom might not yet exist in all of them, corrupted and diaguised by time and a variety of accidents which may easily be imagined; but we have at last turned our thoughts to the internal strueture of the various modes of speceh; and the immense differences which exist, and appear to have existed from time immenorial, between them, lead us irresistibly to inferences which, at first view, would seem to contradict the Mosaie arcount of the ereation, but which, we think, may still be reeonciled with it on scriptural grounds. Were it otherwise, we would not be deterred from our philosophical investigations, convinced as we are that religion and philosophy are sisters, and, though at first they may appear to be opposed, they will, in the end, be reconciled to each other.When we consider the great variety which exists in the strueture or organization--if we may so express ourselves-of the different languages of the earth, and the length of time that has elapsed since that variety has begun to exist, we are at a loss to comprehend how they can all have been derived from one primitive source. We see, in the first place, the Chinese and its kindred dialeets completely monosyllabic ; that is to say, that every syllable of which they are composed, with very few exceptions, has an appropriate meaning, and conveys, by itself, to the mind, either a simple or a compound idea. At the opposite end of the grammatieal seale, we find the languages of the Indians of the American continent polysyltabie in the extreme, composed of words some of them of an enormous length.
while their component sy llables have, when separately taken, 110 meaning whatsoever. The Suluscrit, in Asiatic India, and in the vicinity of Clina, is also an eminently polysyllatic language, though the roots of its words may he more easily traced than those of the idioms of America. The Sanscrit abounds in grammatical forms, by means of which aceessary ideas are conveyed to the inind by regular inflections, evidently the result of a preconceived system. The Chinese las none of those forms: every syltable, every word, conveys a detached idea; and it wants those comnecting voeables which, in other languages, bind the discourse together, and help the hearer to understand the sense of a period. The same differences exist, in a greater or less degre, in all the languages of the earth, ancient as well as modern. No two of them, it is believed, have exactly the same manner of conveying ideas from mind to mind in the form of words; and, though they may have the same grammatical character in a general point of view, they differ in the details. That is not, however, what we are considering. We mean to spleak only of those great and essential differences, in consequence of which, languages may be divided into strongly distinguished classes; such as the monosyllabic and the polysyllabic, the atactic, that is to say, those that are devoid of connecting words and of granmatical forms, and the syntactic, which possess these in greater or lesser abundance. These differences, it will be said, may have gradually taken place in the course of time, and prove nothing against the common origin from one nrimitive language. Unfortunately for this objection, they may be traced back so far, and have continued so long, that it is impossible to suppose that they may have been thus successively produced. Taking, for instance, only two of the languages of the old world-the Chinese and the Sanscrit,-or, if it be alleged that the latter is no longer spoken, we will take those languages of India which are known to be mediately or iminediately derived from it, and which may fairly be considered as its continuation,-Now, the Chinese and the languages of India are known to have existed at least 4000 years, the one monosyllabic and atactic, the other, or the others, polysyllabie and syntactie. It does not appear that, in all that period of time, they have at all approached nearer to each other, and, in their general structure and character, they remain now as they were as far hack as we can trace them. Thie same might be said of the Hebrew and the class of languages called Semitic, of the

Basque, the Greek, the Teutonic, the Selavoric, the Coptic, the Berber of mount Atlas, and the barbarous languages, as they are called, of Asia, Africa, I'olynesia and Anerica, all of which are more or less ancient, and some of which may be traced as far back as the Chinese and Sanscrit; and their origin is lost in the night of time. Their organic differences have remained the same, not only for ages, but thousands of ages. From these facts an inference forces itself irresistibly upon the mind, which is, that in all languages there is a strong tendency to preserve their original structure. From the most remote time that the memory of man can reach,we have never seen a monosyllabic language become polysyllabic, or vice versa. Wly have not thi Chinese, and the Sanscrit or its cognate languages, in the course of 4000 years, approximated in the least to each other? Has the Tartar conquest made the least alteration in the structure of the former idiom? How has the Basque preserved its grammatical forms, different as they are from those of any other language, and surrounded as that handful of ancient Iberians is, and has been for so many ages, by idioms of a character entirely opposite? How comes it that the polysyinthetic forms of the American languages extend frons one end of this vast continent to the other, and that oue general grammatical system pervades thein all, and appears to have been, from the heginning of time, peculiar to the races of American red men? The strong tendency of languages to preserve their organic structure can alone account, in a satisfactory manner, for these phicnomena. If such a tendency be admitted,-and we do not seo how it can be reasonably denied,-it must have existed in the primitive language, as well as in those that are supposed to have been derived from it. But when we sce that these have preserved their grammatical characters unchanged for more than 4000 years, we cannot believe that, in the 2000 years preceding, according to the generally received chronology, which makes the world about 6000 years old, language should have suffered so many changes in its organic structure as to form new languages, so cssentially and so entirely differeut from each other in that respect, to say nothing of the difference which exists in the etymology of words; for between the Clinese and the Cherokee, for instance, it will be difficult to find the lenst etymological affinity; and, if the distance of places is assigned as the cause, we will instance the Bengalee-a $35^{*}$
language spoken in a country not far from China, and which differs from the Chinese full as much as the Mohawk and the Potawatamee. We are therefore forced into the conclusion, that all the languages which exist on the face of the earth are not derived from one, but that they must be divided into classes or genera, to $0^{\circ}$ which must be assigned separate and distinct origins. It is not our business to reconcile this theory with the Mosaic records; we think, however, it may be easily done by supposing (to the contrary of which there is nothing in Scripture) that, at the confusion of tongues, the primitive language, its words and its forms, were cntirely effaced from the memory of man, and men were left to their own resources to form new ones, which they did without reference to any preëxisting model. We can in this manner very easily account for all the differences, grammatical as well as etymological, that exist between languages. As to the former, we need only look to the various capacities of the human mind. As the physical eye perceives objects differently, and ascribes to them different shapes and colors, according to the strength of the organ and the point of view from which it contemplates them, so the eye of the mind receives ideas or mental perceptions, according to its various capacities, and to different attending circumstances. What we call ideas, are rapid perceptions, continually flitting before the mental cye. Like objects viewed through the kaleidoscope, they pass before us in ever-changing slapes, and, in endeavoring to fix theni on the menory hy articulate sounds, the appearance of the moment will decide the form to be given to those representative signs. The man of quick perceptions will try to retain the idea of $u$ whole physical or moral object, or, perhaps, a whole group of objects, in his memory, by means of one single word: another, of slower compreliension, seeing or perceiving a part only, will appropriate a word or a syllable to thic expression of that part, and another and another to each of the other parts that he will snccessively perceive. In this mamner, syntactic and atactic idioms have becn respectively formed; the impulse first given has been followed, and thus languages have received various organic or grammatical characters and forms. Let us give an exanple: At the first formation of a language, one man, by signs or otherwise, asks another to do something; the other, anxious to express his consent at once,
and conceiving the whole idea, answers, Volo. Another man, whose mind is slower in its operations, divides the idea, and answers in two words, Ego volo, or I will. Another demand is made, to which the first man does not agree; he answers, Nolo; the other says, Lgo non volo, or I ceill not. Applying this hypothesis to all langnages, and their different forms, it will be perceived how, in the beginning, they were framed, and how their various structures have been more or less regular and more or less elegant in their grammatical analogies, aecording to the tempers and capacities of the nations that first formed them, and of the men that took the lead in that formation, who may not always have heen the inost sensible of the whole band; for it is to be presumed that, in those carly tines, as in our day, the affairs of men were not always directed by the ablest, but oftener, perhaps, by the most forward and the most presuming individual. As to the mechanical or physical part of language, that must have depended on the elimate and on the peculiar organizations of individuals. Although the component sounds of all languages appear very few, they are very numerous, if we consider their almost imperecptible shades and modes of utterance. Hence the difficulties that oecur everywhere in acquiring the pronunciation of foreign idions. Althought the organs of speeeh are the same in all men and races of men, great differences are produced in their ntterance of sounds, by the carly habit of more or less contracting or expanding ecrtain of the inuscles of which those organs are composed. Opening or shutting the mouth, letting out the air more or less frecly through the hungs, and other similar causes, produce infinite varieties in roeal sounds and consonant articulations, analogous to those that we perceive in musical instruments, which, like the human voice, are operated upon by tonch or pressure, or ly the impulsion and expulsion of air. The flute does not produce the same sound with the clarionet or Freneh horn, nor the harpsichord with the violin. Even instruments of the same kind produce different effeets, aecording to the manner in which they are played upon. It is so with the human organs. The first sounds that were uttered, when each language was first invented, gave tone and color to the rest, and that depended on the first individuals who uttered those sounds, and whom the others imitated or followed. The habits, once fixed, could not easily afterwards be altered. Each tanguage, therefore, had its
own articulations, its own accent, and its own tones. Pliilosophers have, in general, been of opinion that the invention of languages was a very difficult task, and that it required a very long time-ages, perlaps-to bring an idiom to perfection. We are inclined to be of the contrary opinion. God lias given to man, as he lias to other animals, all the faculties that are necessary to attain the ends of his creation. These faenlties, in animals, we call instinct; and by whatever high-somding names our pride may induee us to call then in ourselves, they are, after all, no more than a power given by the Almighty Bcing. IIe made man a social animal, because that was necessary to the purposes of his creation ; for the same purposes, it was necessary that men should inderstand each other, that they should exchange plans, projects and ideas. Goil therefore gave them the means of so doing, and these means consisted of physiral organs and mental faculties equal to the task. By means of these faculties, they soon fornd words ly which to convey their perceptions of natural and moral objects to onc unother, and means to retain them in their menory hy some method or order of classification, without which they would have been lost in a confusion of articulate someds. Hence it has happened that there is no language, however barbarons or mucivilized may be the nation that speaks it, that is not systematically arranged; none, in short, that has not a method of its own, or, in other words, a grammar. They are all redueible to certain grammatical prineiples, and none has yet been found that cannot be so reduced. The Ameriean Philosophieal Society has proved to a demonstration, that the languages of the aborigines of this continent are rich in words and in grammatical forms, and it has been said, that it would rather scem that they were composed by philosophers in their closets, than by savages in the wildemess. (Sce Report to the Historical and Literary Commitlee, and Correspondence between Mr. Duponceau and Mr. Heckewelder, in the Historical Transactions of the Ain. Phil. Soc. vol. i.) When the wrier to whom we allude made use of this expression, we: believe that he sought to aecommodate himself to ideas generally received; for he must have known that languages are not made by philosophers in their closetw, and he must have been aware of the failure of all those who attempted to invent what they called a philosophical langrage. Leil)nity, it is suid, onec had such an idea;
but it is certain that lie never tried to carry it into execution ; or, if lee did, he soon abandoned the senseless project. To such a degree was the presumption of the learned raised, about the middle of the seventeenth century, that it was thonght, that an miversal language could be inade for the use of all mankind. One Becher, having heard a German prince say, that he wonld give 300 crowns to him who should discover such a language, wrote a treatise, in which he asserted, and tried to prove, that he had made the discovery. He presented it to the prince, who paid him with compliments, and an iuvitation to dinner. The work is entitled Character pro Notitia Linguarum universali (Frankfort, 1661), and is now very scarce. In 1668, John Wilkins, dean of Rippon, and afterwards bishop of Chester, published a thick folio volume, entitled an Essay towards a real Character and Philosophical Language, which contained an alplabet, a grammar and a dictionary of his supposed perfect idion. Aftervards, a M. Faignet, who is called, in the French Encyclopædia, trísorier de France, but who, in fact, was only a receiver of public moneys in some provincial town, wrote, for that compilation, a scheme of a philosophical language, with which the editors did not disdain to swell their work, and which remains there as a moununent of the folly and presumption of mankind. The productions of this writer and of bishop Wilkins, show the superiority of nature over philosophy, Nature invents, philosopliy imitates. These philosophers had no idlea of grammatical forms except those of the languages that they knew, that is to say, those that they hat learned at college, and those they had rereived from their nurses. Therefore, neither the monosyllabic system of the Chinese, nor the polysynthetic of the Americans, ever occurred to their minds; all the inprovement that they could think of on the forms which they were familiar with, was, to apply to them the principle of little minds, uniformity. To sliow how they went to work, we will give a few short samples of their respective inventions. M. Faignet thus formed, in his philosophical language, the substantive verb to be:

Infinitioc.
Ftre $=$ sas
Avoir té $=$ sis
Devoir être $=$ sus
$\mathrm{Etant}=$ sunt.

Indicatire Present.
Je suis = jo sa
Tues $=$ to sa
Il est $=$ lo sa
Nous somines $=$ no sa Vous êles $=$ vo sa Ils sont $=$ zo sa.

It is needless to proceed farther: every one will see that the structure of the Frencl language is servilely imitated, witly a little of the Latin; and the only improvement, or rather alteration, is a tiresome uniformity in the terminatiou of words. Bishop Wilkins's system is more metaphysical, and of course more complicated. He affects an antithetical arrangement of his words, according to the idcas which they express; thus lie says, if $D a$ signifies God, then ida must signify its opposite, or an idol; if dab be spirit, odab will be body; if dad be heaven, odad will signify hell. With respect to dissyllables, if pida be presence, pidas will be absence; if tadı he pover, tadus will be impotence, \&c. His numerals are as follows:

Pobal, 10 ; pobol, 20 ; pobel, 30. Pohar, 100 ; pobor, 200 ; pober, 300. Poham, 1000; pobom, 2000 ; pobem, 3000. Poban, 100,$000 ;$ pobon, 200,000 ; poben, 300,000 .

| One thousand six hundred sixty six. |  |  |
| :---: | :---: | :---: | :---: |
| Pobam | pobur | pobul pobu. |

His arrangement of words in regular rows of prefixed syllables and terminations, is very different from the order which nature follows in all her works, in the structure of languages as in every thing else. She aims not at a childish uniformity. Hers is not the garden where "grove nods at grove; each alley lias a brother:" She delights, on the contrary, in "pleasing intricacies," and every where introduces an "artful wildness," to "perplex" while it embellishes the scene. But not so presumptuous man. Under the mask of a false philosophy, he sets limself up as a rival to nature, which he neither knows nor understands. True plilosoplyy, in a more humble spinit, observes and studies lier noble works, contented to admire, and not presuming to imitate. All those who have attempted to invent a new language, lave taken for their models those that they were most familiar with. Father Lami, however, the author of an esteemed French work upon rhetoric, speaking of the possibility of composing a factitious idiom, proposes, as a type, the langnage of the Mongul 'rartars, probably to make a show of some little knowledge lie had of that tongue. But none of these writers thought of framing a language on abstract principles, founded on the most natural arrangement and concatenation of ideas: even the transitive verlss of the Hebrew and other Oriental languages, including in one word the idea of the objective as well as of the governing pronoun, does not ap-
pear to have oceurred to their minds. It would have been in vain, however, that they should have sought for a system of grammatical forms more natural than another, since, as we have before observed, all the cxisting grammatical systems, differing as they do from each other, are equally the work of naturc, operating through the minds of men, possessing various physical and moral qualities, and producing different results, though all equally tending to the same end-the intercourse of human minds with each other, through the medium of the organs of speech. We will not, therefore, stop to inquire whether any of the existing languages are nore perfect than the others. Perfection is relative to its object. Whatever is adequate to the end for which it was made, cannot be improved but with respect to some new objects to which the times or circumstances require that it should be adapted. And that improvement in language is the work of nature, not of philosophy, literature or science. Necessity sometimes, and sometimes caprice, introduecs new words into a language, and ehance dirccts the choice. The same process takes place in the improvement of lauguages, or rather in the additions made to them, as in their formation. Words are borrowed from neighboring idions, or framed by analogy from those in common use, by the first man who thinks he has occasion for them, and they are adopted, or not, by the multitude, as chance or fashion directs. Words arc often introdued without necessity, and without much regard to euphony, or the genius of the idiom. Thus, in our Ameriean English, we say prairie, for meadow land; formerly we said savannah; both words derived from foreign languagesone from the French, the other from the Spanish-and both unnecessary. It has lately become fashionable to say approval for approbation, withdrawal instead of withdrawing; and many other similar newcoined words are gradually eoming into use. These innovations make the language more copious, not more perfect. The synonymes, in process of timc, assume shades of difference in their meaning, which are not thought of when the words are first used. But we are constantly asked whether the Greek, that enehants us so much in the works of Homer and Pindar, is not a more perfect language than, for instance, the Iroquois, or the Algonkin. We answer, that it is not. We must not eonfound perfection with cultivation. The wild rose that grows in our
forests is not less a perfeet flower thans that which adorns our gardens. The latter is more pleasing to our fastidious senses ; but will even the most skilful gardener dare to say that he has perfected the work of his Creator? Languages are instruments which have come perfect from the heads of the makers. But they are played on better or worse by different artists. Homer played well on the Greek: he would have played cqually well on the Iroquois. If we are to judge of the perfection of a language by the method and regularity of its grammatical forms, that of the Lenni Lenape, of which we have an excellent grammar, by Zeisberger, published in the third volume of the new serics of the Aincrican Philosophical Transactions, is far superior to our owi English, the most anomalous of all idioms, made up almost entirely of monosyllables, full of sibilants and inarticulate vowel sounds; in short, a language which, a priori, would be probably pronounced barbarous and uneouth-but hear that instrument played upon by Milton, Shakspeare, Dryden, Pope! If you think that it is the superior perfcetion of the language that ravishes your senses, and carries you up to the third heavens, you will be much mistaken. It is only the talent of the immortal artists. It is the art of the gardener, who has cultivated this wild tree, and made it produce delicious fruits. But the perfection of a language does not consist in the regularity or in the anomaly of its forms, in its being compounded of monosyllables or polysyllables, or of such or sueh consonant or vowel sounds predominating in its utterance. Nature in this, as in all her other works, delights in varicty. The imperial lily and the humble violet are alike perfect flowers; the barren pine, the stately oak, and the fragrant orange-tree, are alike perfect plants, various in their organization and in their structure, but arl adequate to the cnd for which they were creatcd. Languages were made for the purpose of communieation between men, and all are adequate to that end. We have heard that the Chinese language is so imperfect, that men are obliged, in conversation, in order to explain their meaning, to traee, with their fingers, in the air, the figure of written charaeters. This is exaggeratcd. We have seen sensible and intelligent Chinese, who have assured us that they never arc at a loss to explain their ideas by spoken words. It happens, somctimes, even in speaking English, that when we use a word whieh, being differently written, has
different meanings, we spell that word, to show in what sense we understand it. The Chinesc probably do the same, by means of their eharacters, but not to the extent that the love of the marrellous, or incorrect information, has induced some writers to maintain. In the same mamer, those who have lived long among our Indians, all concur in assuring us that those uations converse with one another, on all subjects, in their own idioms, with the greatest ease. Our missionaries preach to them, and find no difficulty in making thein understand the abstract doctrines of our religion ; and what must dispel every doubt upon this point is, that the whole of the Old and New Testaments has been translated, by our venerable Eliot, into the language of the Massachusetts Indians. -Let us ceasc, therefore, to speak of the comparative perfection of languages with respect to each other. They are various instruments, formed by nature, which genius may cultivate and render more pleasing to our senses, but not more adequate to their cud, and the organization of which no talent can change, and no genius can imitate. If it be true, as we firmly believe, that languages were various in their original formation, after the traces of the primitive language had, by the divine will, been entirely obliterated from the minds of men, it becomes necdless to inquire whether the first language was monosyllabic or polysyllabic, and whether the first words were formed by onomato-peic-from an imitation of natural sounds. No doubt there are, in cerery language, words which have been formed by that kind of process, even in modern times, as, for instance, the word bomb. But it does not follow that this has been a general rule. In most of our Indian languages, the word which signifies thunder has no resemblance to the noise made by that explosion: for instance, in the Chickasaw, it is clloha; Creek, tenitke; Huron, inon; Cadocs, deshinin; Nootka, tuta; and there are many other languages in which, in that word, no symptoms of onomatopeia appear. It is curious, however, to find that, in the language of the Arkansas, the word for thunder is tonno, and in that of the Yaos, called by De Laet Jaivi (a people of Guiana,now extinct), it is tonimeru. Chance will produce such similarities, whicl, when thus isolated,prove nothing for or against the affinity of languages, or their derivation from each other.
Languages. (Sec Philology.)
Languedoc ; before the revolution, a large province of France, divided into Upper and Lower; bounded east by the

Rhône, which separates it from Dauphiny, the eounty of Venaissin, and Provence; south by Roussillon and the Mediterranean; west by Gascony, and north by Forez, Quercy and Rouergue. Its extent was about 270 niles in length, and 120 in breadth. The land is, in general, very fertile in grain, fruits and wine. Toulouse was the capital of Upper, and Montpellier the capital of Lower Languedoc. It is now divided into the eight following departments:

| Department. | Clicif Torens. |
| :---: | :---: |
| Gard, | Nimes. |
| Hérault, | Montpellier. |
| Ardèche, | Privas. |
| Lozère, | Mende. |
| Tarn, | Alby. |
| Upper Garonne, | Tuulouse. |
| Aude, | Carcasson |
| Upper Loire, | Le Puy. |

The celebrated canal of Languedoc eominences at Cette, and joins the Garonne near Toulouse, forming a communication between the Mediterrancan and the Atlantic. It was constructed in the reigu of Louis XIV, and is about 140 miles in length. (See Canals.)

Laniard, or Lanniers; a short piece of rope or line, fastened to several machines in a ship, and serving to secure them in a particular place, or to manage them more conveniently : such are the laniards of the gunports, the laniards of the buoy, the laniard of the eat-liook, \&c. The principal laniards used in a ship are those employed to extend the shrouds and stays of the mast by their communication with the dead-eyes and hearts, so as to form a sort of mechanical power rescmbling that of a tackle.

Lanigera; the specific appellation of the chinchilla of South America. The animal which furnishes the beautiful fur known by the name of ehinehilla, has, until very reeently, been alnost entirely unknown to naturalists, except through the imperfect account given by the abbe Molina in his natural history of Chile. Living specimens have occasionally been scint to Europe, and a few years since one was received by Mr. Titian Peale at the Philadelphia museum. Unfortunately, however, these specimens all died about the period of their arrival, and no opportunity was allowed of examining them alive. The British zoölogical society have recently been more fortunate in reeeiving a living specimen in good health, from which they have published a beautiful representation of the animal, accompanied by an aocurate description of its characters. This we copy from the first
number of the Delineation of the Gardens and Menagerie of the Zoölogical Society, along with Molina's account of the labits of the animal. The length of the body in this specimen is about nine inclies, and that of the tail nearly five. Its proportions are close-set, and its limbs comparatively short, the posterior being considerably longer than the anterior. The fur is long, close, woolly, somewhat crisped and entangled; grayish or ash-colored above, and palcr beneath. The form of the head resembles that of the rabbit. The eyes are full, large and black, and the ears broad, naked, rounded at the tips, and nearly as long as the head. The mustaches are plentiful and very long, the longest being twice the length of the head, some of them black, and others white. Four short toes, with a distinct rudiment of a thumb, terminate the anterior feet: and the posterior are furnished with the same number; threc of them long, the middlc more produced than the two lateral ones, and the fourth, external to the others, very short, and placed far behind. On all these toes the claws are short, and nearly hidden by tufts of bristly hairs. The tail is about half the leugth of the body, of equal thickness throughout, and covered with long bushy hairs. It is usually kept turncd up towards the back, but not reverted, as in the squirrels. The chinchilla, says Molina, is another species of field-rat, in great estimation for the extreme fineness of its wool, if a rich fur, as delicate as the silken webs of the garden spiders, may be so termed. It is of an ash-gray, and sufficiently long for spinning. The little animal which produces it is six inches long from the nose to the root of the tail, with sniall, pointed ears, a short muzzle, tceth like the house rat, and a tail of moderate length, clothed with a delicate fur. It lives in burrows under ground, in the open country of the northern provinces of Chile, and is fond of being in company with others of its species. It feeds upon the roots of various bulbous plants, which grow abundantly in those parts, and produces, twice a year, five or six young ones. It is so docile and mild in temper, that, if taken into the hands, it neither bites nor trics to escape. If placed in the bosom, it remains there as quiet as if it were in its own nest. This extraordinary placidity may possibly be due to its pusillanimity. As it is peculiarly cleanly, there can be no fear of its soiling the clothes of those who liandle it, or of its communicating any bad smell to them, for it is entirely free from that ill
odor which characterizes the other spe cies of rats. For this reason it might well be kept in louses with no annoyance, and at a trifling expense, which would be abundantly repaid by the profits on its wool. The ancient Peruvians, who were far more industrious than the modcru, made of this wool coverlets for beds and valuable stuffs. To the aecount of its habits given by Molina, we can only add, that it usually sits on its haunches, and is even able to raise itself up and stand upon its hinder feet. It fecds in a sitting posture, grasping its food, and conveying it to its mouth by means of its fore paws. In its temper it is gencrally mild and tractable, but it will not always suffer itself to be handled without resistance, and sometimes bites the liand which attempts to fondle it, when not in a humor to be played witll. Although a native of the Alpine valleys of Chile, and, consequently, subjected, in its own country, to the effects of a low temperature of thic atmosplere, against whiclı its thick coat affords an admirable protection, it was thought nccessary to keep it, during the winter, in a moderately warn room, and a piece of flannel was even introduced into its sleeping apartment, for its greater comfort ; but this indulgence was most pertinaciously rejected, and, as often as the flannel was replaced, so often was it dragged by the little animal into the outer compartment of the cage, where it amused itsclf with pulling it about, rolling it up, and shaking it with its feet and teeth. In other respects, it has exhibited but little playfulness, and gives few signs of activity , scldom disturbing its usual quietude by any sudden or extraordinary gambols, but occasionally displaying strong symptoins of alarm when startled by any unusual occurrence. It is, in fact, a remarkably tranquil and peaceable animal, unless when its timidity gets the better of its gentleness. A second individual of this interesting species has lately been added to the collection by the kindness of lady Knighton, in whose possession it had remained for 12 months previous. This splecimen is larger in size and rougher in its fur than the one above described: its color is also less uniformly gray, deriving a somewhat inottled appearance from the numerous blackish spots which are scattered over the back and sides. It is possible this may be the Peruvian variety, mentioned in the extract from Schmidtmeyer's Travels, as furnishing a less delicate and valuable fur than the Chilian animal. It is equally good tempered aud
mild in its disposition, and, probably in consequenee of having been domiciliated in a private house, instead of having been exhibited in a public collection, is much more tame and playful. In its late abode, it was frequently suffered to rur about the room, when it would show off its agility by leaping to the height of the table. Its food eonsisted prineipally of dry herbage, sueh as hay and clover, on which it appears to have thriven greatly. That of the society's original specimen has litherto been ehiefly grain of various kinds, and sueculent roots. When the new eomer was first introduced, it was placed in the same eage with the other speeimen; but the latter appeared by no means disposed to submit to the presence of the intruder. A ferocious kind of scuffling fight immediately ensued between them, and the latter would unquestionably have fallen a vietim, had it not been reseued. Since that time, they have inhabited separate cages, placed side by side. Such an isolated fact can, of course, have little weight in opposition to the testimony of Molina that the ehinchilla is fond of eompany. It is, nevertheless, a remarkable circumstance, and deserves to be mentioned in illustration of the habits of these animals.

Lanjuinars, Jean Denis, count de, peer of Franee, member of the academy of inseriptions and belles-lettres for 38 years, a stanch defender of liberal institutions, was born Mareh 12, 1753, at Rennes, of respeetable parents. In 1771, he became an advocate in Rennes; in 1775, professor of the canon law ; in 1779, member of the estates of Brittany ; in 1789, member of the third estate in the constituent assembly, and, at a later period, of the convention. He was the first in the states general, who, in the report on the state of things in his province (Brittany), gave a faitliful pieture of the oppressions eommitted by the nobility, and deelared the following measures to be the general wish of the nation-the abolition of feudal rights ; the abolition of the nobility, and the establisliment of a representative constitutional government; offering, at the same time, in the name of his constitu-eney-the sénéchaussé of Reunes-to give up its privileges of exemption from several taxes, \&e., though enjoyed from aneient times. He opposed, with eourage and energy, the arrogant pretensions of the privileged class and the intrigues of Mirabeau, and, at a later period, resisted, with equal firmness, the violence of the Mountain party The object of his wishes
was constitutional liberty ; and, when the republie was proelaimed, and Louis XVI was denounced, he was as zcalous in defence of the rights of his prince as he had been, and continued to be, for the rights of the nation. Attaeked by the Maratists, and even threatened in the collvention by a crowd of insurgents, he displayed great courage and dignity. He aftervards retired to Rennes, where, proseribed by the Jacobins, he lived 8 months in concealment. He owed his preservation to his faithful wife, and the heroie fidelity of his servant, Julie Poirier, whom Legouvé has celebrated in his poen Mérite des Femmes. After the downfall of the terrorists, Lanjuinais again took his seat in the convention. Soon after, he was ehosen president, and opposed the usurpations of Bonaparte. Marel 22, 1800, he was made senator. Though he had opposed the consulate for life, and the elevation of Bonaparte to the throne, the emperor named him commander of the lrgion of honor, and ereated him count. In 1814, Lanjuinais voted for the deposition of Napoleon and the establishment of the provisory governinent, and aided in preparing the constitution proposed by the senate. Louis XVIII made him a peer, June 4, 1814. During the hundred days, he repeatedly refused to take the oath of allegianee to Napoleon, and voted against the acte additionnel. Napoleon approved, of his eleetion, by the city of Paris, to the house of representatives, and lis elevation by that body to the place of their president. After the second restoration, Lanjuinais opposed, in the ehamber of peers, all the extravagant and arrogant pretensions of the elergy, defended the liberty of the press and individual freedom, the law of election and the charter. He voted against the war with Spain, against the reduction of the rentes, and the septennial elections of the chamber. The speeches and writings of count Lanjuinais are profound and comprehensive. Among the latter are his Mémoires sur la Religion, which is directed against the extension of the ceclesiastical jurisclietion ; his Constitutions de la Nation Française (2 vols., 1819); his work on the three Coneordates, and some historical essays, chiefly in the Revue encyclopédique. In 1808, he was elceted a member of the institute, in the elass of inscriptions and belles-lettres; and, in 1816, the king confirmed him in this place. Lanjuinais died January 15, 1827.

Lannes, John, marshal of France, duke of Montebello, born in 1769, was an ap-
prentice to a dyer, and, in 1792 , on the invasion of the French soil, entered the army as sergeant-major. His talents and services lad raised him to the rank of chef de brigade as early as 1795 , and general Bonaparte created him colonel after the battle of Millesimo. After distinguishing liinself in Italy and Egypt, whence he returned with Bonaparte, and serving under the first consul in Italy, he was made marshal of the empire (1804), and subsequently duke of Montebello. In the campaign against Austria (1805), he rendered important serviees, and, at the battle of Austerlitz, commanded the left wing of the main anny. At Jena, Eylau, Friedland (1807), at Tudela, Saragossa, \&c., in Spain, marshal Lanncs obtained a brilliant renown. In the eampaign of 1809 against Austria, he lost both his legs by a canmon ball in the battle of Esslingen or Asperne, May 22, and died May 31. Napolcon was strongly moved at the sight of the dying Lannes, who was a favorite of the emperor. His eldest son was created a peer by the king, in 1815. He visited the U. States in 1828, and, during the revolution of 1830 , fought on the side of the people.

Lansdowne, William Petty, marquis of, was born in 1737. He succecded to the Irish title of earl of Shelburne, on the death of his father, in 1761, and, in 1763, obtained the office of president of the board of trade, which he resigned to join the opposition led by Mr. Pitt (lord Chathain), with whom he returned to office in 1766. When a change of ministry took place, in 1768, lie was again displaced, and continued to be a parliamentary antagonist of ministers till 1782, when he was nominated secretary of state for the foreign department. On the death of the premier, the marquis of Rockingham, he was succeeded by lord Shelburue, who was soon obliged to give way to the coalition between lord North and Mr. Fox. In 1784, he became an English peer, by the titles of marquis of Lausdowne and earl of Wycombe. He now employed himself in the cultivation of science and literature, and collected a valuable library, the MSS. belonging to which were, after his death, purchased for the British muscum. His death took place in 1805 . Lord Lansdowne was twice married. By his second wife, lady Louisa Fitzpatrick, lie became the father of the present inarquis.

Lansdowne, Henry Petty, marquis of, son of the preceding, was bom in 1780, and educated at Westminster and at Edin-
burgh, under Dugald Stewart. After completing his studies at Cambridge, he was returied to the honse of commons, as member for Calne (1802), and was distinguished for his talcnts of business and debate. Mr. Fox liad formed so favorable an opiniou of him, that, on assuming the direction of affiars, in 1806, he made it a point that lord Petty (as he was then called) should be noninated chancellor of the exchequer. This ministry did not survive the death of Mr. Fox (q. v.), and lord Petty retired to domestic life. Iı 1809, he suceeeded to the title and seat of his elder brother, who died without issue. His political eareer lias been distinguished by the support of manly and liberal priuciples. Ile excrted hiniself strenuously to effeet the abolition of the slave-trade, and of the Catholic disabilities, and took an active part in the defence of the gucen. When the late Mr. Camning, on being directed to form a cabinet, found himself ${ }^{\circ}$ abandoned by the ultra Tory party, he turned to the marquis of Lansdowne and his frieuds; the marquis reccived a seat in the cabinet without office, and, on the carly death of the distinguished premier, held the seals of the lome office, in the Goderich ininistry, which, however, by the dissolution of that cabinet, he was soon obliged to resign to Mr. (now Sir) R. Pcel. On the formation of the new Whig ministry (November, 1830), the marquis became president of the council. The great measure of reform whieh this ministry have so promptly brought forward, now agitates the country, and the fate of the cabinet and the plan must be decided by the tone of the liouse of comrnods, which slall be returned by the pending election. (See Parliament.)

Lantern (laterna, Lat. ; lanterne, Fr.); a comnon contrivance to carry a lamp or candle in, being a kind of cover usually made of tin, with sashes of some transparent matter, as glass, horn, \&c., to transmit the light. Theopompus, a Greck comic poet, and Empedocles of Agrigentun are the first who lave spoken of this kind of illumination. In the Antiquités d'Herculanum, vol. viii, will be found represented a collection of ancient lanterns, one of which, of a round form, was discovered in one of the great roads of Herculaneum, in 1760, and another, 1764, at Pompcii, iu the vestibule of a house, by the side of a human skeleton. The use to which these instruments were put was various. A modern author lias stated, without sufficient proof however, that the games of the circus, at Rome, and the
sacrod games in Greece, were celebrated ty this kind of light. Plutarel expressly says that they were used in augury. It is more certain still that they were common among the military, and were always carried before any troops who had to march by night. These were borne upon the top of a pike, and were construeted of a fashion to throw light only behind them. -Dark Lantern, one with only a single opening, which may also be closed up when the light is to be cutirely hidden, or opencd when there is occasion for its assistance to discover some object.Magic Lantern, or laterna megalographica; an instrument used to magnify paintings on glass, and throw their images upon a white screen, in a darkened chamber. On the fore-part of the lantern, there is a thick doublc-convex lens, or a planeconvex (usually called a bull's eye), of sloort focus. The lantern is closed on every side, so that no light can come out of it but what passes through the lens. In the dircetion of this lens, there is a tube fixed to the lantern, which has a lateral aperture from side to side; through this a glass slider, with the painted sinall images, is moved in an inverted position. The fore part of the tube contains another sliding tube, which carries a double-convex lens. The eflect of those parts is as follows: The thick lens, in the side of the lantern, throws a good deal of light from the candle upon the image ; and, to inerease that light still more, a reflector is very often, but not always, placed in such lauterns; and the flane being in the focus of the reflector, the light proceeds in parallel lines from the reflector to the lens. The image, being thus well illuminated, sends forth rays from every point, whieh, by passing through the lens belonging to the sliding tube, are conveyed to a focus upon the wall, and form the large images.-The Phantasmagoria is like the magic lantern, only, instcad of the figures being on transparent glass, all the glass is opaque, except the figure only, which being painted in transparent colors, the light shines through it, and no light can fall on the screen but what passes through the figure. The sereen is very thin silk, between the spectators aud the lantern, and, by moving the instrument backwards or forwards, the figmes scem to reeede or approach.- Feast of lanterns, in China; a celebrated feast held ou the 15 th day of the first month, and thus denominated from the immense number of lanterns hung out of the louses, and in the strects, the number of which has becu reported even to exceed $200,000,000$.

Some of these have been valued at 2000 crowns. They are adorned with gilding, painting, japanning, sculpture, \&c. The size of inany of these lanterns is represented to be quite huge: some reach ncarly 30 feet in diameter. They are constructed so as to resemble halls or chambers; and two or three such maehines together would make a handsome house; so that the Chinese eat, lodge, receive visits, lave balls, and aet plays, in a lantern. They light up in them an infinite number of torches or lamps, which, at a distance, have a beautiful effect. In these they exlibit various kinds of shows to divert the people. Besides these enormous machiues, there is a multitude of smaller ones, which usually consist of six faces or lights, each about four feet high and one and a half broad, framed in wood, finely gilt and adorned: over these they stretch a fine transparent silk, curiously painted with flowers, trees, and sometimes with human figures: the painting is rery extraordinary, and the colors extremely bright; and when the torches are lighted, the appearanee is execedingly striking and lively.-In architecture, luntern signifies a little dome raised over the roof of a building, to give light, and serve as a soit of crowning to the fabric. The same term is likewise used for a square eage of carpentry placed over the ridge of a corridor or gallery, between two rows of shops (as in the royal exchange, Loudon), to illumine them.-The lantern, on ship-board, is a well-known machine, of which there are many in a ship, particularly for the purpose of directing the course of other sllips in a flect or convoy; such as the poop and top-lantern.
Lantern Fly (fulgora); a genus of insects, belonging to the hemiptera, and closely allied to the locusts and grasslioppers, from which it is distinguished by the great prolongation of the hcad. Few circumstances are more remarkable than the phosphorie light emitted by some insecte, as by the glow-worm and fire-fly, but more especially by the species under consideration. This is zaid to possess this lucid quality in so eminent a degree, as to be used, by the inhabitants of the countries where they are found, for the purposes of illumination. The largest of these insects is the $F$. lanternaria, which is found in great abundance in South America. Madane Merian gives an entertaining account of the alarm into which she was thrown by the light produced from them, before she was apprized of their shining nature. It appears the Indians
brought her a number of the lantern flies, shut up in a box. During the niglt, they made such a noise, that they awoke her, and induced her to open the box, when, to her astonishment and affright, a strong light proceeded from it, and as many of the insects as left it, so many flames appeared. There are many other species of these flies, one of whichthe Chinese-almost equals the South American in splendor. In both of those, the light proceeds from the elongated and hollow part of the head, no other portion of the animal being luminous. A full account of all the species will be found in Fabricius, Syst. Rhyng., and Olivier, Encycl. Méthod, article Fulgore.

Lanzı, Lnigi, the celebrated arehæologist, was born at Treia, in the Mark of Ancona, in June, 1731, and became a pupil of the Jesuits, and a nember of the order. He made himself master of the whole field of classical studies, and the ruins of Rome awakened his curiosity to the examination of the remains of ancient art, in treating of which, he evinced profonmed learning and eritical acuteness. Froia Rome, Lanzi went to Florenee, and made limself acquainted with all the masterpieces of art collected therc. In 1782, lie published a Guida della Galleria di Fircnze, on whieh he labored during the rest of his life. This work not only satisfied the inquirer by its extensive learning, but annused the mere searcher after pleasure, by its pleasing deseriptions. He was chosen president of the Crusca, in 1807 , on account of the purity of his language. A patriotic feeling had engaged Lauzi in the study of Etrusean antiquity, which was then little eultivated. Learned Tuscans, in the middle of the 18 th century, had attempted to elevate Etrusean civilization, by maintaining that the Etruscau religion and mythology were entirely unaffected by Grecian influence. Lanzi's researehes led him to form a different opinion. The remains of the Etrusean language and art denoted, in his opinion, a Grecian origin, and, diselaiming all national vanity, he openly maintained the prevailing influence of Greece on Etruscan eivilization. German scholars have adopted his opinion. A eritical inethod and profound erudition render hisSaggio diLingua Etrusca e di altre antiche d'ltalia, per scruire alla Storia de' Popoli, delle Lingue e delle Belle Arti (Rome, 1789, 3 vols.), a classical work. Lanzi next undertook a history of the art of painting in Italy, at the suggestion of the grand-duke of Tus-
cany (who died in 1824); and this work is of equal merit with that just mentioned. The charins of his style render this erndite produetion highly attractive. Of this Storia pittorica dell' Italia dal Risorgimento delle Belle Arti fin presso al Fine del XVIII Secolo, the 3d edition (Bassano, 1809, 6 vols.) deserves the preference, as containing liis own last additions. The first erlition appeared in 1795, the fourth in 1822 (Florence ; English, by Thomas Roseoc, London, 1828 ). IIs Inquires respecting the Etruscan Vases, so ealled (Florence, 1806), is a work of great learning, the most valuable treasures of which have been still more generally diffused by Millin. He also published Latin Inseriptions, which are much esteemed, a translation of Hesiod's Works and Days, and some theological produetions, the fruit of lis last years. Sinee his death, whieh took place March 30,1811 , some of them have been collected by the eavalier Onofrio Boni, in the Opere Postume (Florence, 1817, 2 vols., 4to.). Inghirami pnblished, in 1824, a new edition, with corrections and additions, of Lanzi's Notizie della Scultura degli Antichi, with engravings. As a man, Lanzi was amiable, and readily assisted others in their researches and learned labors. He was buried in the ehureh of Santa Croee, at Florence, where the renains of so many great men repose. Onofrio Boni of Crotona has written an Elogio dell' Ab. D. Luigi Lanzi, and the abbate J. B. Zannoni, sub-librarian at Florence, a biography of this distinguished man.

Laocoon, a priest of Neptune (according to sonie, of Apollo), at Troy, after the pretended retreat of the Greeks, was sacrificing a bull to Neptune, on the shore, when two enormous serpents appeared swinming from the island of Tenedos, and advanced towards the altar. The people fled; but Laocoon and his sons fell victims to the monsters. The sons wero first attacked, and then the father, who attempted to defend them. Wreathing them selves round him, the serpents raised their heads high above him, while, in his agony, he endeavored to extricate himself from their folds. They then hastened to the temple of Pallas, where, placing themselves at the font of the goddess, they hid themselves under her shield. The people saw, in this omen, Laocoon's punishment for his impiety in having pierced with his spear the wooden horse, which was congecrated to Minerva. Thus Virgil (JEn. ii, 199) relates the story. Other authors (for instance, Hyginus) give different ac-
counts, though agreeing in the main points. The story has frequently furnished a subject to the poets. Sophocles introduced it into a tragedy. But it is chiefly interesting to us, as having given occasion to one of the finest works of sculpture-the gromp of Laocoon, now in the Vatican. This was discovered in 1506, by some persous digging in a vineyard, on the site of the baths of Titus. Pope Julius II bouglit it for an annual pension, and placed it in the Belvedere, in the Vatican, where it has again been placed sinee its restoration from Paris. The preservation is perfect, except that the right arm of Laocoon was wanting: this was restored by a skilful pupil of Miehael Angelo. This group is so perfect a work, so grand, so instructive for the student of the fine arts, that many authors of all nations, partieularly Germans, lave written on it; of whom we may mention Göthe, Heync, Lessing, Hirt, Herder. It is a most difficult subject. It represents three persons in agony, but in different attitudes of struggling or fear, aecording to their ages, and the mental anguish of the father. All connoisseurs declare the group perfeet, the produet of the most thorough knowledgc of anatomy, of cliaracter, and of ideal perfection. According to Pliny, it was the common opinion that this group was inade of one stone, by the sculptors Agesander, Polydorus and Athenodorus, all three natives of Rhodes, and the two latter probably sons of the former. Doubts exist respecting the era of this work. Maffei places it in the 88th Olympiad, or the first years of the Peloponnesian war; Winckelmam, in the time of Lysippus and Alcxander; Lessing makes it probaWe that those three artists lived under the first emperors. It may be fairly doubted whether the statue, mentioned by Pliny, is the same whieh we now have; at least, acute observers have found that the group does not consist of one bloek, though the junetions are very carefully coneealed. To this it may be answered, that they were not, perhaps, perceptible in the time of Pliny. Several eopies exist of this matchless production; one in bronze, from a model by Giacopo Tatti or Sanzovino, which was carried to Franee. Bacio Bandinclli made a copy, which is in the Medici gallery, at Florence. The group is placed on a pedestal, about the licight of a man, which seems to be too low, Laocoon being above the natural size. Lessing wrote a work, called Laokoon, or the Boundaries of Painting and Poetry, in which he draws illustrations from this
subject, because it has been handled by a poet and by plastic artists.

Ladodice; a daughter of Priam and Hecuba, who became enamored of Acamas, son of Theseus, when he came, with Diomedes, from the Greeks to Troy, on an embassy, to demand the restoration of Helen. She had a son by Acamas, whom she ealled Munitus. She afterwards married Helicaon, son of Antenor, and Telephus, king of Mysia. Some ealled her Astyochc. According to the Greek scholiast of Lycopliron, Laodice threw herself down from the top of a tower, and was killed, when Troy was sacked by the Greeks.-One of the Oeeanides.- $\Lambda$ daughter of Cinyras, by whom Elatus had some children.-A daughter of Aganemnon, callcd also Electra.-A sister of Mithridates, who married Ariarathes, king of Cappadocia, and afterwards her own brother, Mithridates. During the absence of Mithridates, she prostituted herself to her servants, believing that her husband was dead; but, when she saw her expeetations frustrated, she attempted to poison Mithridates, for which sle was put to death.-A queen of Cippadocia, put to death by her subjeets for poisoning five of her ehildren.-A sister and wife of Antiochus II. She put to death Berenice, whom her linsband had married. She was murdered by order of Ptoleny Eucr-getes.- $\Lambda$ daughter of Demetrius, sliamefully put to death by Ammonius, the tyramical minister of the vicious Alexander Bala, king of Syria.-A daughter of Seleucus.-The mother of Selcueus.

Laodicea; a city of Asia, on the borders of Caria, Phrygia, and Lydia, celebrated for its commerce and the fine wool of its sheep. It was originally called Diospolis, and afterwards Rhoas. It reecived the name of Laodicea in honor of Laodice, the wife of Antiochus. There were several other places of the same name.

Laomedon ; son of Ilus, king of Troy. He married Strymo, called by some Placia, or Leucippe, by whom he had Podarces, afterwards known by the name of Priam, and Hesione. Hc built the walls of Troy, and was assisted by Apollo and Neptune, whom Jupiter liad banished from heaven, and condemned to be subservient to the will of Laomedon for one year. When the walls were finished, Laomedon refused to reward the labors of the gods; and, soon after, his territories were laid waste by the sea, or Neptunc, and his subjects were visited by a pestilence sent by Apollo. Sacrifices were offered to the offended divinities,
hut the calamities of the Troians increased, and nothing eould appease the gods, according to the words of the oracle, but annually to expose to a sea-monster a Trojan virgin. Whenever the monster appeared, the marriageable maidens were assembled, and one was doonicd to death, hy lot, for the good of her country. When this calamity had continued for five or six years, the lot fell upon Hesione, Laomedon's daughter. The king was unwilling to part with a daughter whom he loved with uncommon tenderness, but his refusal would irritate more strongly the wrath of the gods. In the midst of this fear and hesitation, Hercules came, and offered to deliver the Trojans from this public ealamity, if Laomedon would promise to reward him with a number of tine horses. The king consented; but, when the monster was destroyed, he refuscd to fulfil his engragenents, upon which Hercules hesieged Troy, and took it by force of arms. Laomedon was put to death after a reign of 20 years; his daughter Hesione was given in marriage to Telanon, onc of the conqueror's attendants, and Podarces was rausomed by the Trojans, and placed upon his father's throne. According to Hyginus, the wrath of Neptune and A pollo was kindled against Laomedon becanse lie refused to offer on their altars, as a sacrifice, all the first born of his cattle, according to a vow he had made.

Laus, Battle of, March 9, 1814. (See Chatillon.)

La Parle; the chief village of a French colony in the south of Africa. About 140 years ago, a number of Frencli Protestants fled to that distant corner of the world to worship freely, according to the dictates of their consciences. In 1739, the Dutch prohibited preaching in French; Dutch is therefore, at present, the chief language. The colony consists of about 4000 whites of Frenel descent, and 6000 Hottentot slaves. The whites still possess the greatest attaclıment to France, though for so long a time separated from the civilized world. The colony has lately attracted attention through French missionaries, and may become important in the propagation of Christianity in that region.

Lapérouse, John Francis Galaup de; a French navigator, distinguished for his talents, and still more remarkable for the mystery attending lis fate. He was hom at Albi, in Languedoc, in 1741, and entered, at an early age, into the naval service of his country. During the Ainerican
war, he had the command of an cxpedition sent to Hudson's bay, when he destroyed the trading estallislmments of the English. After the restoration of peace, the Freneh government having determined on the prosecution of a voyage of discovery, M. de Lapérouse was fixed on to condice the undertaking. 'Two vessels -the Boussole and the Astrolahe-were placed under his command; and, leaving France in 1785, he procecded to the South sea, and, having visited the coast of California, and other places farther north, he crossed the Pacific, to continue his researclies on the eastern coasts and islauds of Asia. In April, 1787, the ships sailed from Manilla towards the north; and, after plassing the islands of Formosa, Quelpaert, the coasts of Corea and Japan, they stuled between Chinese Tartary and Saghalien, without being able to determine whether it was an island or a peninsula; returning south, discovered the straits which bear the name of Laperouse, and, sailing north on the eastern coast of Saghalien, at length, September 6, arrived at the harhor of St. Peter and St. Paul, un the coast of Kamtschatka. There they staid to refit the ships, and experienced the utmost hospitality from the Russian local authorities. From St. Peter and St. Paul Lapérouse scnt copies of his journals, \&cc., to France, by M. de Lesseps, who proceeded over land across Siberia to Petershurg. From these papers was drawn up the relation of lis royage, published at Paris (1797, four volumes, 4to.), an English translation of which appeared in 1798 (three volumes, 8vo.). September 30, the vessels sailed in search of farther discoverics. They crossed the equinoctial line, without ineeting with any land, till De cember 6 , when they saw the Navigator's islands, and, a few days after, they landed at Maouna, one of that group. Here M. de Langle, the eaptain of the Astrolabe, M. Lamanon, the naturalist attached to the expedition, and ten other persons, were killed in what appears to have heen an unprovoked attack of the natives. After this misfortune, Lapérouse visited Oyoluva, an island near Maouna, and then stcered for the English eolony in New South Wales. January 23, 1788, they made the const of New Holland, and, on the 26th, anchored in Botany bay. They left Botany bay in March, and, in a letter which the commodore wrote February 7, he stated lis intention to continue his researches till December, when he expected, after visiting the Friendly islauds, to arrive at the Isle of France. This was the
latest intelligence received of the fate of the expedition; and M. d'Entrecasteaux, who was despatehed by the Freuch govornment, in 1791, in searcl of Lapérouse, was unable to trace the course he had taken, or gain any clew to the catastrophe which liad befallen him and his companions. In 1825, the attention of the public was exeited towards this mysterious affair, by a notice published by the French ministcr of the marine, purporting that :um American captain had declared that he had seen, in the hands of one of the natives of an island in the tract between Louisiade and New Caledonia, a cross of the order of St . Lonis, and some medals, which appeared to have been procured from the shipwreck of Laperouse. In consequence of this information, the commander of a vessel which sailed from Toulon, in April, 1826, on a voyage of discovery, received orders to make researches in the quarter specified, in order to restore to their country any of the slipwrecked crew who might yet remain in existence. Other intelligence, relative to the wreck of two large vesscls, on two different islands of the New Hebrides, was obtained by captain Dillon, the commander of an English vessel at Tucopia, in his passage from Valparaiso to Pondicherry, in May, 1826, in consequence of which he was sent back to ascertain the truth of the matter. The facts discovered by lim on this mission, were, that the two ships struck on a recf at Mallicolo, $11^{\circ} 4^{\prime}$ S. latitude, $169^{\circ} 20$ E. lougitude; one of them immediately went down, and all on boarl perished; some of the erew of the other escapeed, part of whom werc murdered by the sarages; the renainder built a small vessel, and set sail from Mallicolo; but what became of them is not known. It is not, indeed, certain that these were the vessels of Laperousc.

Lapidary, in the preparation of gems for sculpture ; an artificer who euts precious stones. This art is of great antiquity. There are various machines employed in the cutting of precious stones, according to their quality. The diamond, which is extremely hard, is cut in a wheel of soft steel turned ly a mill, with diamond dust, tempered with olive-oil, which also serves to polish it.

Lapidary Styine (from the Latin lapis, stone); that which is proper for inscriptions on monuments. Hence the phrase is sometines used for a laconic, expressive style.
Lapidolite. (See Mica.)
Lapis Lazuli. This superl) mineral,
whieh has been seen regularly crystallized ouly in a few instances, oecurs massive, of a rich azure-blue color; fracture uneven; scratches glass; opaque; easily broken; specific gravity, 2.85. In a strong lieat, it intumesces, and melts into a yellowish-black mass. It consists, by one analysis, of 46 silex, 28 lime, 14.5 aluinine, 3 oxide of iron, 6.5 sulphate of lime, and 2 water; but a later and more interesting research has given 34 silcx, 33 alumine, 3 sulphur, and 22 soda. Thie finest specimens are brought from China, Persia and Grcat Bucharia. It is much esteemed for ornamental purposes, especially for inlayed work. The most splendid exhibition of this rare substance is made in the celebrated marble palace built by Catharine, at St. Petersburg, for her favorite Orlof, in whicl, aceording to Patrin, there are entire apartments inlayed with lapis lazuli. The ancients were in the habit of engraving upon it, of whose works several specimens are to be seen in the royal library at Paris. But its chief value consists in its affording the very precious pigment called ultramarine. (q. v.)

Lapithe; a people of Thessaly. The chief of the Lapithæ assembled to celcbrate the nuptials of Pirithouis, one of their number. The Centaurs were also invited to partake the festivity, which was interrupted by the violence of the Centaurs. The Lapithæ resented the injury: Many of the Centaurs were slain, and they, at last, were obliged to retire. (See Pirithoüs, and Centatirs.) Hesiod (Scut.) and Ovid (Met, xii) lave described thes battle of the Centaurs and Lapithæ.

Laplace, Pierre Simon, marquis de, a celebrated mathematician and astronomer, born 1749, was the son of a farmer in Normandy, went to Paris, where he soon distinguished himself by his knowledge of analysis and the highest branches of geometry, in which, however, Lagrange was superior to him. Laplace was chosen a member of the academy of sciences, one of the 40 of the French academy, and member of the burcau des longitudes. In 1796 appeared his fumous work Exposition du Systime du Monde (fifth edition, Paris, 4to.). Laplace did not remain a strauger to politics, and, after the 18 th of Brumaire, was made minister of the interior lyy the first consul. But, from the conversations of Napoleon with Las Cases (Mémorial), it is evident that Napoleon was not satisfied with his minister. "A geometrician of the first rank," says the enıperor, "he did not reach mediocrity as a statesman. From the first, the consuls
became sensible that they lad made a mistake in his appointment. He never viewed any subject in its true light ; he was always occupied with subtilties; his notions were all problematie, and he carried the spirit of the infinitely small into the administration." After six weeks, therefore, Lucien Bonaparte received his port-folio. Napoleon made Laplace a senator, vice-chaneellor and chancellor of the senate, and member of the legion of lionor. In a report to the senate in 1805, Laplace proved the neecssity of restoring the Gregorian calendar, and abolishing that of the republic. His principal works are his Traité de .Mécanique céleste (1799 -1805, four volumes, 4to.); his Theorie du. Mouvement des Planètes; Essai sur les Probabilités; and Théorie analytique des Probabilites. In 1814, Laplace voted for the abdication of Napoleon, and the king created him a peer, with the title of marquis. During the hundred days, he did not appear at the Tuileries. He died March 5, 1827. His Mécanique celleste has been translated, with a commentary, by doctor Bowditel of Boston (Hilliard, Gray, \& Co., 1830, 4 to., first volume.) The amount of matter in the commentary is much greater than that in the text, and the calculations are so happily elucidated, that a student moderately versed in mathematics may follow the great astronomer with pleasure to his beautiful results.*
Lapland; the most northern country in Europe, bounded north by the Aretic ocean, east by the White sea, south by Sweden, and west hy Norway and the Atlantic. Its extreme breadth is estimated to be 500 miles, and its length, from eape Orlov, on the White sea, to the entrance of Saltersfiord, on the Atlantic, about 700. Lapland is divided into three parts, called Russian, Swedish, and Danish or . Norwegian. The part of Lapland lying along the northern shore of the gulf of Botluia, consists of an extensive plain, abounding in immense forests of spruce and Scots fir; but at the distance of 80 miles from that inland sea, the ground becomes gradually elevated, and is at last full of lofty mountains, which rise, between the latitude of $67^{\circ}$ and $68^{\circ} 30^{\prime}$, to a height of from 5500 to 6200 feet, which, in this lyyperborean region, is 2700 feet abown the line of perpetual congelation. The principal rivers are the Torneo, the Kemi, the Lulea, and Pitea. The Yana, the prineipal river in the north-east, and the Alten, the principal in the north-west,

[^17] Gnest specimens of A merican typography.
both run into the Nothern ocean. In lakes, Lapland, particularly its mountainous part, abounds. In the maritime districts, there prevails an approach to uniformity of temperature ; the winters are not severe, but the summers are raw and foggy; white, in the interior, the winter is intensely cold, but the heat of summer is steady and fructifying. The menn amual temperature at the North Cape (lat. $71^{\circ}$ $11^{\prime} 30^{\prime \prime}$ ) is six degrees higher than at Enontekis, in the interior (in lat. $68^{\circ} 30^{\circ}$ ); yet, at the latter, the thermometer rises, in July, to $64^{\circ}$, while, at the Cape, it seldon reaches 50 . Lapland abounds in iron; and copper, lead, zinc and ansenic are not uncommon. Barley, or big, is the most common grain. In the low gromed, rye is likewise cultivated, and occasionally oats. The berry-bearing plants als? are numerous. The most common animals are hares; the others are beans, martens, gluttons, beavers, otters, crmines, squirrels, lemmings (or mountain rats), foxes and wolves. The domestie quadrupeds are oxen, cows, dogs, sheep and goats. The reindeer is the most valuable animal in Lapland. It serves as the principal heast of burden; its milk is highly valued, and its flesli supplies the chief nourishment of the inhabitants. The mountain Laplanders have no fixed habitation, but wander about in quest of food for their flocks of reindeer, and lodge in tents or huts, which are nsually about 9 feet in height, and 12 in length. Their diet is chiefly of animal food. During winter, they carry on some traffic with the Sivedes. This takes place at Torneo, and other towns on the gulf of Bothnia, and consists in exelanging skins, furs, dried fish, venison, and gloves, for flannel, cloth, hemp, copper, iron, and various utensils, but partieularly for spirituous liquors, meal, salt and tobaceo. The Laplanders, or, as they call themselves, Same (Laplander, or Lappe, being merely a nickname), are a nation of Finnish extraction. The population is estimated thus: 1900 in Swedish Lapland, nearly 5000 in Norwegian, and 8800 in Russian. Besides these, there are in the country several colonies of Swedes, Norwegians and Finns. The whole population of the country, which is as large as France, camnot exceed 65,000. The leight of the Laplanders is between four and five feert; often less. They are of a dark complexion, with black hair; strong, hardy and active. They are naturally gente and mild ; have no charaeteristic vices nor virtues. Generally speaking,
they have little exeitability, but love their country, and are happy in their way. They tan hides, make twine of the sinews of the reindeer, weave eoverings for their tents, knit gloves, make wooden utensils, canoes, sledges, and the necessary artieles of dress. The dress of loth sexes is nearly the same; that of the women is almost solely distinguished by their ornaments. Both sexes wear caps, coats, trowsers and boots, either of leather or fur and coarse cloth. In smmner, they live in tents; in winter, in huts built of poles eovered with bireh twigs and earth, having at the top a hole for the smoke. They live on fish and the flesh of reindeer. Aceording to their food, the Laplanders are divided into Reindeer Laplanders or Mountain Laplanders, and Fishing Laplanders. The forner wander from pasture to pasture with their reindeer. A wealthy Laplander possesses a thousand or more of these animals, which are used to draw the sledges, and to carry loads. The Fishing Laplanders, howe ver, who possess few or no reindeer, live alnost entirely on fish. They kill sables and birds, and catch the eider-duek, as do also the Reindeer Laplanders, if, ly discase or other misfortunes, they lose their reindeer. The Laplanders forinerly worshipped fetielies. At present, they are all baptized, but they have mixed their old superstitions with Christianity, whieh has been foreed upon them; and it is not uncommon for a Laplander to be baptized whenever he comes to a populous place where there are missionaries.
Lafo, Arwolph, a celebrated sculptor and architect, born at Florence, 1232, first introduced a better taste into arelitecture by his great works, and very happily united solidity and grace. He began the building of the cathedral of Florence (to which Brunellesehi afterwards added the admirable dome), the strong walls of Florence, the convent at Assisi, and several churehes and other edifices at Florence. He died in 1300 .
Lapse, in ecelesiastical law; a slip or omission of a patron to present a clerk to a benefice within six months of its being void; in which case, the benefice is said to be in lapse, or lapsed, and the right of presentation devolves to the ordinary.
Lafsed Legacy is where the legatee dies before the testator, or where a legaey is given upon a future contingency, and the legatee dies before the contingency lappens.
Lapsiden; the state of a ship which is built in such a manner as to have oue
side heavier than the other, and, by consequence, to retain a constant heel or inclination towards the heavier side; unless when she is brought upright by placing a greater quantity of the cargo or ballast on the other side.

Lapwing (tringa vanellus, Lin.). This hird is about the size of a pigeon, and belongs to the snipe and plover tribe. It is found in Europe in large flocks, except during the pairing season, when it separates for the purposes of incubation. The fernale lays four eggs, of a dirty olive, spotted with black: she makes no nest, but deposits them upon a little dry grass, rudely scraped together: the young birds run about very soon after they are hatelıed. During this period, the old ones are very assiduous in their attention to their charge: on the approach of any person to the place of their deposit, they flutter round his head with great inquietude, and, if he persists in advaneing, they will endeavor to draw him away, by running off as if lame, and inviting pursuit. These birds have a singular mode of collecting their food, which consists of worms. When they observe the small elevation in the ground which the worm makes before it returns below ground, in the morning, by emptying itself, they gently open it at top with their bill, and tap on the ground, at the side of it. This attracts the worm to the surface, when it beeones the prey of the ingenious hunter. These birds are very lively and aetive, being almost continually in motion, sporting and frolicking in the air, in all directions, and assuming a variety of attitudes. They run along the ground very nimbly, and spring and bound from spot to spot with great agility. In the month of Oetober, they are very fat, and are then said to be excellent eating. Their eggs are considered a great delieacy, and bring high prices in the London markets.

Laquering; the laying on metals colored or transparent varnishes, to produce the appearance of a different color in the metal, or to preserve it from rust. Thus laquered brass appears gilt, and tin is made yellow. Seed-lac is the chief composition for laquers, but turpentine makes a cheaper laquer.

Larboard; a name given by seamen to the left side of a ship, when the spectator's face is turned in the direction of the head.

Larboard-Tack is when a ship is closehauled, with the wind blowing on lier larboard side.

Larceny is the fraudulent taking by a
person of the goods of another, without his consent, with the intent, on the part of the taker, to appropriate them to his own nse. As to the taking, the mere removing of the goods is sufficient to constitute the crime; as, where the thicf took down goods and put them into a parcel, for the purpose of carrying them away, but was detected and arrested before carrying them away, this was held to be a sufficient taking to constitute larceny. But, where a pcrson only changed the position of a package of cloth, by raising it on end, for the purpose of taking out the cloth from the bale, and was detected in his purpose before he had opened the bale, this was held not to be a sufficient taking to amount to this offence. The doctrine, in this respect, is, that, to make the crime of larccny, the person committing it must get the article into his possession. The intent is a material circumstance; for, if one person takes the goods of another openly, before his eyes, though with the design of appropriating them to his own use, it is not larceny, but only a trespass: so, if goods be taken by negligence or inistake, it is not larceny; as if sheep stray into one's flock, and he shears them by mistake, as lis own. The necessity of an intention to steal, in order to constitute larceny, is illustrated by the case of a servant's assisting some thicves to steal his inaster's goods, with the consent of his master, merely that the thieves, who liad previously formed the design of committing the theft, might be detected: it was hold not larceny on the part of the servant, but it was held to be so on the part of the others, though it was objected, in their behalf, that the taking was not against the consent of the master, it being essential to larceny, that it should be committed against the owner's consent ; but the court held it to come under this description of crime, for the thieves had previously formed the design of stealing the goods, and the master did not consent to their appropriating them to their own use, but only to their proceeding so far that they might be detected and convicted of the crime. If a person has property in goods, and a right to the possession of them, he cannot, in general, coinmit the crime of larceny in taking them; but, if he only has the custody of them, and no property in them, he may steal them. Thus, if a bailee or lessee of chattels appropriates them to his own use, it is not, in general, larceny. Yet it has been held that, when a common carrier, having charge of a package or box of goods,
opens it, and takes ont a part of the goods, with the intent to steal them, this is thef. But the conmon law makes a very subtile distinction in this respect; for, though breaking the package, and taking a part, with the design of appropriating the articles, is theft, yet selling the whole packare entire has been lield not to be so, but only the violation of a trust. The cases where a chattel is taken by a person to whom it has been intrusted, and who converts it to his own use, present very uice discriminations of larceny from mere breaches of trust, in regard to which the distinction is made by various circumstances. If the person gets possession of the goods under a false pretence, with the design of stealing then, yet, if they come into his possession on a contract or trust, it has been held, in many cases, not to be a larceny; as, where a horse was bargained for at a fair, and the purchaser rode him off, saying he would return directly and pay the purclase monev, but did not come back at all, having intended to swindle the vender, it was held not to be theft. If, however, the purpose for which the article was intrusted to another is accomplished, and he afterwards converts it to his own use, with the intention of stcaling it, this is larceny; as, where a horse was let to go to a certain place and back, and the hirer, having gone and returned, then sold the liorse, it was held to be theft, for the particular purpose for which the horse had been intrusted to him, had been served. And the courts generally lean towards construing the offence to be a larceny, and not merely a trespass, where the party gains possession by some false pretence, with the original intent to steal; and with good reason, since it is adding a breach of trust to the crime of larceny. If the owner does not part with the possession of the goods, though the person, intending to stcal them, contrives to bring thein withiu his reach by some false pretence, this raises no doubt of its being a larceny; as, where one sent to a hosier's for a quantity of stockings, under pretence of wishing to purchase some, and having selected a part out of a parcel brought by a servant, which he pretended he was going to purclase, under some pretence, sent the scrvant away, and then decamped with the whole parcel, it was held to be larceny, for the owner had never intrusted him with the parcel, or consented to part with the posscssion. The same construction was put upon the case, when a servant was sent with some goods to a certain person, and another, pretending to be the
person to whom they were sent, received them, with the intent of stealing them. The cases of ring-dropping are instances of it ; such getting possession of inoney or goods by fulse pretences, being held to be larceny, though the goods come into the possession of the thief by consent of the owner ; that is, when a person, in company with another, pretends to find a ring, which was previously dropped for the purpose, and the companion, being imposed upon, proposes to share in the good fortune, to which the finder consents ; but, not having money, proposes to his companion to take the ring, giving cash, a watch, or something of half the supposed value of the ring, as a pledge, until he can dispose of the ring, when its value is to be equally divided. The transfer having been made, the swindler goes off with the article that he has rcceived, and his companion finds the ring is of little value. This is held to be larceny. As to the kinds of things, the taking of which is larceny, they must, according to the commonlaw, he persomal property, it being a maxim that, though rcal estate may be trespassed upon, it cannot be stolen; and so fixtures, and whatever is a part of the realty, as it is called, could not be suljects of larceny. Thus it was lield that a standing tree, frnit upon the tree, ore in a mine, a fence, lead, brass, or other metal, attached to a building, a copper boiler set in bricks, and whatever else would pass by a conveyance of an estate, was not a subject of larceny, and the taking of such things was only a trespass on the real estatc. But this distinction is mostly abolished by statutes, for which there was the stronger reason, as many of these things were such as were peculiarly exposed to be stolen. So, again, by the common law, the feloniously taking of written instruments, they not being considered as property; but merely as evidence of contracts, was leld not to he larceny; but this doctrine has been partially abrogated by statutes, and the felonious taking of bonds, bills of exchange, \&c., is lareceny, both in England and the U.States. As to animals, birds, \&c., the felonions taking of domesticated ones is felony; but it is not so with those esteemed to be of a wild nature, as bears, foxcs, \&c., althongh they may belong to, or have been purchased by some individual, unless they are tamed, or are in the possession and under the control of some one. The felonious taking of a hive of bees is held to be larecny, mless it be a wild live in the forest, the taking of which is held, in l'cnusylvania, not to be larceny.

Nothing can be stolen which is not a subject of property; but the crime of lareeny is not confined to the depriving of the owner of the possession of the article. It is sufficient to constitute the offence, to take the artiele from the possession of one having only a special property, as a carrier or other bailee ; and it is a suffieient allegation of the ownership, in the indictment, to state that the article belonged to such person having a special property. In regard to shrouds and coffins of lead, or other materials of value, the question of ownership has heretofore been made, and they are held to belong to the heirs, executors or legatees of the person deceased, aud it may be so alleged in the indictment. Larceny' was formerly divided, in England, into two kinds, grand and petty; the former being the steating of an article over the value of one shilling, the latter, that of an article not over that value. The same division of the kinds of the offence, according to the value of the thing stolen, is made in some of the $\mathbf{U}$. States. But this distiuction is abolisled in England by a statute of 7 and 8 George IV. In England, the punishment for grand larceny was death; but, most frequently, of late years, it has been commuted for transportation; and, now, the punishment of all simple larceny, of whatever value, is, by the statute above-mentioned, imprisonment or transpoitation. In the $\mathbf{U}$. States, the punishment is usually imprisonment in the common jail, or penitentiary, for a longer or shorter period, whipping and branding being now mostly, but not universally, abolished. Great discretion is necessarily left with the court, in regard to the punislmnent of this offence. Some species of larceny, as from the person, are more severely punished than others, by the English law; and a larceny committed in a dwelling-house, by night, is generally considered an aggravated crime, and is punished accordingly. A severer punishment is awarded, both in England and the U. States, on a second or third conviction of the same offender.

Larch (larix); a genus of plants, inclnded, by many able botanists, together with the spruces, under pinus; and, indeed, there seems to be no essential difference in the parts of fructification; the leaves, however, are in separate sheaths, and differ from those both of pines and spruces, in being fasciculate and deciduous. The Anerican larch, or hackmatack, is a noble tree, with a straight trunk, often rising to the height of 100 feet, and giving out numerous slender branches.

It is a native of Canada, the northern parts of the U. States, and the higher region of the Alleghany inountains. Its southern limit along the sea-coast may be placed at about latitude $41^{\circ}$; but it is not very abundant even in Vcrmont, New Hampshire and Maine. In Canada, according to Michaux, it constitutes extensive masses of forest on the upper parts of the Saguenai and about lake Mistassins; and it was observed, by major Long, as far westward as lake Winnipeg. The wood, though heavy, is very lighly valued, being remarkably strong and durable, and far superior to that of any pine or spruce. In Maine, it is always used for the knees of vessels, when it can be procured. The European larch, a tree very similar in stature and appearance, but having cones of double the size, is found throughout Siberia, and in most of the northern and mountainous parts of Europc. It is, however, entirely wanting in England and the Pyrences. The wood is used for a variety of purposes, and is exceedingly durable. An instance is rccorded of a vessel built of cypress and larch, which must have remained under water for a thousand years, and the timber of which had become so hard as to resist, entirely, the tools of the workmen. It is much used, in naval architccture, for masts and the frame-work of vessels, being capable of sustaining much greater pressure even than oak; and, in Switzerland, entirc houses have bcen constructed of it, which, however, have the disadvantage of becoming brown, or even black, with age. It affords excellent staves for casks, capable of holding spirituous liquor. The article of commerce called Venice turpentine is obtained from this tree; and a single individual will yield seven or eight pounds, annually, for 40 or 50 years. The wood, however, is injured by the process. The celebrated cedar of Lebanon, the largest and most majestic of the coniferce of the eastern continent, is also a species of larch. Besides mount Lebanon, where the few remaining stocks are prcserved with religious veneration, it inhabits Siberia and the limmalaya mountains. The cones are much larger than those of the preceding splecies. The wood is said to be soft, and of very little value.

Larcher, Peter Henry, an eminent French scholar and translator, was born at Dijon, October 12, 1726. He was an intense student of Greek literature, and an assiduous collector of early editions. His first translation was the Electra of Euripides, which attracted little attention ; but
he became a contributor to several literary journals, and translated from the English the Martinus Scriblerus, from Popo's Miscellanies, and sir Johm Pringle's Observations on the Diseases of the Army. Lie also wrote notes to the Frencl version of Hudibras. He followed with a translation of the Greek romance of Chereas and Callirloe, which was reprinted in the Bibliothéque des Romans. In 1767, a difference took place between him and Voltaire, on whose Philosophy of Ilistory lie published remarks, under the title of a Supplement ; to which the latter replied in lis well known. Défense de mon Oncle. Larcher rejoined in a Réponse à la Défense de mon Oncle, with which the controversy ceased on his part ; but not so the nerciless wit of his opponent. He soon after undertook a translation of Herodotus, and, in 1774, published his learned Mémoire sur Venus, to which the academy of inscriptions awarded their prize. His trauslation of Xenophon led to his being clected into that academy. His Herodotus was published in 1786, of which a new and very improved cdition appcared in 1802. He was subsequently rcceived into the institute, and finally apppointed professor of Greek in the imperial university, but was too aged for active services. lie died December 22, 1812, and was regretted as an accomplished scholar and amiable nian.
Lard ; the fat of swine, which differs in its situation from that of almost every other quadruped, as it covers the animal all over, and forms a thick, distinct and continucd layer betwixt the flcsh and the skin, somewhat like the blubber in whales, applicable to various purposes, both culinary and medicinal, and particularly to the composition of ointments. The usual mode of preparation is, to melt it in a jar placed in a kettle of water, and in this state to boil it, and run it into bladders that have been cleaned with great care. The smaller the bladders are, the better the lard will keep. The fat which adheres to the parts connected with the intestines, differs from common lard, and is preferable for the greasing of carriage wheels.
Lardner, Nathaniel ; a learned divine, born, 1684, at Hawkhurst, in Kent. At the age of 16 , he was sent to the university of Utrecht, and afterwards to that of Leyden. He returned to England in 1703, and commenced a preacher about the age of 25 . In 1713, he went to reside in the family of lady Treby, as dontestic chaplain, and tutor to ler son, whom he after-
wards accompanied on a tour through part of France and the Netherlands. In 1723, he was engaged, ill conjunction with other ministers, in carrying on a course of lectures at a cliapel in the Old Jewry, London. In 1727, hic published, in 2 vols., $8 v o$, the first part of the Credibility of the Gospel History : the 12th part appeared in 1755, and was followed by threc supplementary volumes, comprising a history of the apostles and evangelists, with observations on the New Testament. The university of Aberdeen, in 1745, conferred on him the degree of D. D. In the latter part of his lifc, he retired to Hawkhurst, where he dicd, July 24, 1768, at the age of 84 . Besides his principal work, he was the author of Jewish and Heathen Testimonies to the Truth of the Christian Religion ( $1764-67,4$ vols., 4 to); the History of the Heretics of the two first Centuries (4to., 1780) ; a Vindication of three of our Savior's Miracles, and other theological compositions. A collective edition of his works, with his life, by doctor Kippis, was published in 1788 (11 vols., 8vo.).

Lares (familiares) were the domestic and family tutelary gods among the Romans. They were images of wood, stone and metal, and generally stood upon the hearth in a kind of shrine (lararium). The higler classes had them also in their bedchambers or private lararia (domestic chapels): On important occasions, a young pig, a lamb, or a calf, was sacrificed to them. From these domestic lares must be distinguished those which were publicly worshipped by the whole state, by a city or class of men. Silvanus was the general lar of the peasants, and Mars of the soldiery. The public lares were twin sons of Mercury and the nymph Lara. At Rome, in the begiming of May, a festival was solenmized in honor of them, and of the reigning eniperor, who was considered a public lar. (Sce Penates.)
Lasmssa, a city of Thessaly, on the Pencus, celebrated in ancient times for its bull-fights, which were conducted in the sume inanner as they are at present in Madrid, was the rendczvous place of Julins Cxsar's army before the battle of Pharsalia. It is now the largest, richest and most populons city in Thessaly, and the seat of a Greek archbishopric, with 4000 houses, and 25,000 inhabitants, of whom about one fourth are Greeks. It has liouses for dyeing yarn, manufactories of moroceo leather, considerable commerce, and some attention is paid to the
cultivation of the vine. It was the headquarters and centre of the military operations of the Turks against the Greeks, from the time of Ali Pacha, who laid the foundation of his power in Larissa. From this city also, Koursclid Pacha, and all the other seraskiers who succeeded him, commenced their campaigns against Livadia and Epirus.

Larive, J. Mauduit dc ; born in 1749, at La Rochelle; one of the most distinguished tragic actors of France, after Lekain and Talma. Having madc his début in Lyons, he appeared in Paris, in 1771. He was particularly distinguished in heroic parts. During the reign of terror, he was arrested, and saved only by a secretary of the committee of public safety, who destroyed the proofs against him and the other actors. Before new documents could be collected, Robespierre was ovcrthrown. Geoffroy's critiques, and Talma's rising fame, induced him to leave the stage rather carly. He bought a country-seat in the valley of Montinorency, and was elected mayor of the place. In 1806, he went, for a short time, to the court of Joscph Bonaparte, then king of Naples, to establish a French theatre in lis capital. In 1816, he appeared once more in the part of Tancrede, though 67 years old, for a charitable purpose, with great success. Larive died in 1822. Of his several works, the most important is his Cours de Déclamation ( 3 vols., Paris, 18041810).

Lark (alauda). In this genus of birds, the bill is straight, slender, bending a little towards the end, and slarp-pointed ; the nostrils are covered with feathers, and the tongue bifid. The toes are frce, the hinder one thickest, and nearly equal to the outer. There are several species which deserve notice. Thesky-lark (.A. arvensis), which is the most harmonious of this musical fanily, is alnost universally diffused throughout Europe, is every where extremely prolific, and sought for. These birds are casily tamed, and become so familiar as to cat from the hand. The sky-lark cominences his song early in the spring, and continues it during the whole summer, and is one of those few birds that chant whilst on the wing. When it first rises from the earth, its notes are feeble and interrupted; as it ascends, however, they gradually swell to their full tone, and, long after the birl has reached a height where it is lost to the eyc, it still continues to charm the ear with its melody. It mounts almost perpendicularly, and by successive springs, and descends
in an oblique direction, unless threatened with danger, when it drops like a stone. The female forms her nest on the ground, generally between two clods of earth, and lines it with dry grass. She lays four or five egge, which are hatehed in about a fortnight, and she generally produces two broods in the year. In the autumm, when these birds assemble in flocks, they are taken in vast numbers. Pennant states that as inany as 4000 dozen have been caught near Dunstable alone. The woodlark (A. arborea) is distinguished by its small size and less distinet colors. It is generally found near the borders of woods, perches on trees, and sings during the niglit, so as sometimes to be mistaken for the nightingale. When kept in a cage, near one of the latter birds, it often strives to exeel it, and, if not speedily removed, will fall a victim to emulation. The female lays five eggs, of a dusky color, interspersed with deep brown spots, and, like the former species, raises two broods in the year. There is but one true lark, the shore-lark ( $\Omega$. alpestris), found in the U. States, and this is also an inhabitant of Europe, though it is much more conmmon, and migrates farther south, in Ainerica. It is of a reddish drab color, with a whitish tint beneath; a broad patelı on the breast and under each eye, as well as the lateral tail feathers black. The brown Jark of Wilson properly belongs to the genus anthus. This bird, however, possesses many of the habits of the lark, as that of singing when rising out the wing, seldom perching on trees, building on the ground, \&c. The brown lark is also an inhabitant of both continents, but is found only during the winter in the U. States. It is of a pale rufous color beneath, with the breast spotted with black; tail feathers blackish, the outer half white ; the second, white at tip. It is usually found in open fields, enltivated grounds, \&e., near the water, and feeds exclusively on inscets. The meadow-lark, which Wilson classed with the alauda, does not belong to this genus, being a sturnus, or rather a sturnella (Viell), a genus somewhat allied to alauda. (See Meadow-Lark.)

Larkspur (delphinium) ; a genus of plants, allied to the ranunculus and columbine, distinguished by its petaloid calyx, the superior leaflet of which terminates in a long spur. The stem is herbaceous, bearing alternate leaves, whiclı are usually very much divided; and the flowers are disposed in terminal racemes. Some of the species are common in our gardens, where they are cultivated for the beauty
and brilliant colors of their flowers, the prevailing tint of whieh is blue. Fifty species are known, all belonging to the northern hemisphere, and most of then to the regions around the Mediterranean and Black seas. Five only inhabit North America.
Larocie-Jacquelin. (See Rochc-Jacquclin, and La Vcndée.)

La Romana, marquis. (See Romana.)
Larrey, Dominique Jeall, baron de, commandant of the legion of honor, one of the most distinguished surgeons of France, was born in 1766, at Beauleau, near Bagnères, department of the UpperPyrenees, studied at Paris, under Sabaticr. Larrey first introduced, in 1793, the ambulances volantes (flying hospitals) into the French arny, and aecompanied, in 1798, the Egyptian expedition, where he did great service. In all the other campaigns of Napoleon, Larrey gave proofs of his great zeal, courage and sagacity. After the battle of Wagram, he was made a baron. During the passage of the Berezina, he performed a dangerous operation on the general Zajonczek, theu 80 years old, afterwards viceroy of Poland. In the battle of Waterloo, Larrey was wounded and taken prisoner. He published his important observations on Cgypt and Syria, in 180:3, in his Relation historique et chirurgicale de l'Expédition de l'. $r_{r}$ mée d'Orient en Egypte et Syrie. P'rcvious to this had appeared his Memoire sur les Amputations des Membres à la Suite des Coups de Feu, ttayé des plusieurs Observations (1797; new edition, 1808) ; also Mémoire de Chirurgie militaire et Campagne ( 3 vols. 1811, whieh has been translated into English by Hall). He contributed several artieles to the Dictionnaire.des Sciences Médicales. Napoleon bequeathed to Larrey a legacy of 100,000 franes, and calls him, in his testament, the most virtuous man that he ever knew. Larrey was much beloved by the soldiers, as they showed in times of difficulty.
Larta. (See Irta.)
Larves; a name given to evil spirits and apparitions, which, according to the notions of the Romans, issued from their graves in the night, and came to terrify the world. The word properly signifies a mask, whose horrid and uneouth appearance serves to frighten children. (See Iremures.)

Lascaris ; the name of two noble Greeks of the fifteenth century, descendants of the imperial family, and both natives of Constantinople, who, on the taking of that capital by the Turks, in 1453,
fled to Italy. Constantine, the elder, settled first at Milan, where he was received into the grand-duke's household, as tutor to his daughter. He afterwards visited Rione and Naples, in which latter city he upencel a school of eloqucnee, and, finally, took up his abode at Messina, whither the fame of his literary attaimuents, espeeialIy in thic Greek language, attracted many distinguished disciples, and, among others, the celebrated Pietro Bembo, afterwards known as the eardinal of that name. He was the author of a Greek Grunmar, and of some other works in that language and in Latin, which were first printed at Milan, in 1476, and again at Veniee, in 1495, at the Aldine press. He died abont the close of the eentury.John, the younger of the two, surnained Rhyndacenus, took up his residence at Padua, under the protection of Lorenzo de' Medici, who distinguished him by lis favor, and despatched him into Grecce, to purehase valuable manuscripts. The sultan's orders gained him aecess to the libraries, so that he accomplished his mission much to the satisfaction of his employer, and enriched the Florentine collection with the fruits of his researches. In 1494, he quitted Italy, and entered the scrvicc of Louis XII of France, who made him his cnvoy to the Venetian senate ; but, on the elevation of John de' Medici to the popedom, by the title of Leo X, Lasearis went to Rome, at the invitation of that pontiff, and, on the foundation of his Greek college there, was appointed its first principal, and superintendent of the Greek press. To promote the ends of this institution, of whieh the ascertaining and preserving the true pronuneiation of the Greek language was one of the clief; Lascaris made a sccond journey into Greeee, and brought back with him some youths of good familics, who were to commmicate and to receive instruction. The remainder of his life was divided between Pinis, where he assisted Francis I in forming the royal library, and Rone, in which latter city he died of the gout, at the age of 90 , in 1535 . He published a translation of Polybius and of the Argonautics of Apollonins, together with a Greek Anthology (1494, tolio); annotations on the works of Sophocles and Hoincr; four of the plays of Euripides; and a collection of epigrams and apophthegms, in Grcek and Latin (Paris, 4to., 1527).

Lascars ; native Iudian sailors, many of whom are in the service of the East fndia eompany:

Las Casas. (See Casas.)
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Las Cases, Emanuel Auguste Dieudonné, count of, marquis de la Caussade, the author of the well known Ménorial de Sainte Hélène, and distinguished for his faithful attachnent to Napoleon, was born 1763, in the castle Las Cases, near Sorize, in Languedoc, of an aneient Spanish family, to which the celebrated Bartholonew Las Casas (q. v.) belonged. He received his early education from the priests of the oratory at Vendôme, and afterwards joined the military school at Paris, which he left to enter the navy. He was present at the siege of Gibraltar; and, Oct. 20,1782 , he was in the sea-fight off the cape of Cadiz. After the peace, he visited Ainerica, Africa, the Isle of France and the Indies, for the purpose of acquiring experience. Ile then passed his examination in a very honorable manner, and obtained the place of lieutenant. On the breaking out of the revolution, lic remained attaehed to the eourt party; emigratcd, in 1791, to Worms, and resided alternately at Coblentz and Aix-la-Cliapelle, where the Freneh princes were surrounded by a brilliant train of followers; served as a member of the marine, in the eampaign of 1792, under the duke of Brunswick; and, after its unhappy termination, went to England, destitute of every thing. In these circumstances, he supported himself by giving lessons in any branch of knowledge in which he eould find pupils. After having boen engaged in the finitless expedition to Vendee, and the affair of Quiberon, where lie eseaped almost miraculously, he issued the prospectus of his Historical Atlas, whieh met with great encouragement, and was very profitable. He gladly scized on an opportunity to return to Franee, when Bonaparte invited back the emigrants. He lived in Paris, in a retired manner, occupied in writing and in bookselling. His principal work was his Historical Atlas, which appeared in 1804, and met with great suecess (anotheredition, 1820). He published it under the name of Le Sage, and while thus occupied enjoyed several years of tranquillity. But lis ardent spirit was kindled with admiration of the emperor, and he became desirous to attach himself to him. The attack on Flushing, by the English, in 1809, gave him an opportunity to act. Napoleon appointed him chamberlain and master of reguests in the couneil of state. When Holland was united to France, Napoleon sent him to that country to direct all matters commected with the marine. In 1811, he was employed to liquidate the public debt of the Illyriau provinces. He
was afterwards appointed to visit half of the French departments, to examine the poor-houses, prisons, hospitals, \&c., \&c. This duty was finished just at the time of Napoleon's return from Russia. A numerous national guard having been raised, on account of the entrance of the allies into France, Las Cases entered the 10th legion, which he commanded in the absence of its chief. The abdication of Na poleon and the restoration of Louis followed. Las Cases now went to England, in order to avoid being a witness to the course of affairs at Paris, and after his return lived in retirement. After Napoleon's return from Elba, he was appointed counsellor of state and president of the commission of requests. But when the battle of Waterloo made Napoleon's second abdication necessary, Las Cases begged to be permitted to follow him. Separated from his family, and accompanied only by his oldest son, he voluntarily shared the fate of the exile with resignation, independence and magnanimity. He remained until the end of 1816 with Napoleon at St. Helena, and acted as his secretary in lis preparation of the history of his own life. He also instructed him in English. But a letter to Lucien Bonaparte, which he endeavored to send secretly to Europe, contrary to the commands of the English governor, occasioned the removal of himself and lis son from Napoleon (Nov. 27, 1816). After a confinement of six weeks, he was sent to the cape of Good Hope, and was detained in close confinement for eight months, after which he was sent back to Europe. When he arrived in the Thames, his papers were taken from him, and he was not permitted to land, but was sent to Ostend. From thence he was carried through the Netherlands, and, in December, 1817, he first found a secure and quiet residence at Frankfort on the Maine. He then resided for a long time in Belgium, and thence went to Paris, where he lived retired, and arranged his papers which he had recovered from England. In 1823 appeared his Mémorial de Sainte Hélène, in eight volunes. This journal disclosed the severe treatment which Napoleon had received from sir Hudson Lowe, the governor. Sir Hudson having published an insulting answer to the count, in London, his son went to England, and challenged sir Hudson, who procured the removal of the young Las Cases from the country. In the eighth book of this Mernorial, the count relates his own history fiom Dec. 31, 1816, on which day he left St. Helena.

He paints the severe treatment which he received from the British government in strong colors. Las Cases applied himself, with the greatest zeal, to accomplisls the object, which, as he himself says, was the cause of his being forced to leave St. Helena. He wrote to the empress Maria Louisa, sent the letter open to prince Metternich, and then applied to the three allied sovereigns, and described to them Napoleon's fainful situation. He also addressed a letter to lord Bathurst, the English minister, complaining of the treatment of Napoleon. At the same time, he wrote to all the members of Na poleon's family, and endeavorcd to obtain for the ex-emperor books and other comforts. He next applied to the congress of the sovereigns at Aix-la-Chapelle, ins favor of the illustrious prisoner, and presented to them a letter from Napoleon's mother. Las Cases also wrote to La Harpe, the tutor of the einperor Alexander, on this subject. To all his requests and memorials lie received no answer. He repeated his applications with as little success at the congress of Laybach. At this time Napoleon died.-The Memorial de Sainte Hélene is rich in historical materials, but cannot be considered as a safe autlority on the subject of Napoleon's history, because the author enlarged it, after it had been for a long time out of his hands, from inemory, and adapted it to the existing state of things. From what Las Cases says, it is evident that Napoleon well knew that the work was written for publication, and the notes were taken in his presence, and at his request. The work has been translated into English. Napoleon placed many interesting papers in the hands of Las Cases, and, among others, his will. Since the first edition of his Menorial, Las Cases has published an abridgment. A new edition of his Allas historique, généalogique, chronologique et géographique, also appeared at Paris, 1824, folio.

Lascy, Peter, count de ; a military officer, born in Ireland, in 1678. After the conquest of Ireland by William III, he entered the French service. After the peace of Ryswick, he entered into the Austrian army, and served against the Turks. He was next employed by the king of Poland, and then by Peter the Great of Russia. In 1709, he was wounded at Pultowa; and he assisted in the taking of Riga, of which lie was made governor. He was made a lieutenantgeneral in 1720. Catharine I appointed him governor of Livonia. He died in

1751, having attained the rank of fieldmarshal. The prince de Ligne published a collection of the works, and a journal of the campaigns, of marshal Lascy.

Lascy, Joseph Francis Maurice, count de, son of the foregoing, was born at $\mathrm{Pe}-$ tersburg, in 1725. In 1744, he entered into the Austrian scrvice, and made a campaign in Italy. He gradually rose to the rauk of gencral, after having displayed his military talents at the battles of Lowositz, Breslau and Hochkirchen; and, in 1760 , he penetrated to Berlin, at the head of 15,000 men ; for which bold exploit, he was made a commander of the order of Maria Theresa, and, in 1762 , received the baton of marshal. Under Joseph II, he was a member of the council of war at Vienna, and was the anthor of the military regulations adopted by that prince. He was employed against the Turks in 1788, and again after the death of Laudohn. He died at Vienna, Nov. 30, 1801.

La Serna, José, viceroy of Peru, at the capitulation of the royalists, in 1824, commenced his career in the Spanish artillery, and, in 1809, served at Saragossa, under thie celebrated Palafox, in the rank of lieutenant-coloncl. Upon the appointment of general Pezuela to be viceroy of Peru, in 1816, La Serna was commissioned to succeed him in the command of the army of Upper Peru. He arrived at Arica in September, 1816, and, from that tirne until December, 1824 , was prominent in the military operations of the contending parties. Bred to regular service in the peninsular war, lie had no just idea of the system necessary to be followed in America; and therefore, in spite of his proficiency in tactics, he proved no mateli even for the half-arined gauchos of Buenos Ayres. In his first campaign, he advanced to Salta, but was compelled to retire in disorder. Finding his boasted plans of conducting the war en regle to fail him, La Serma asked and obtained leave to retum to Spain. In 1819, he arrived in Lima to embark, and, while there, was promoted to the rank of lieutenant-general, in consequence of an expected invasion from Chilc, and prevailed upon to remain. He received, accordingly, the direction of the military operatious against San Martin; and, by means of a junta of his friends, appointed to advise the viceroy in the prosecution of the war, he became supreme in military matters. In January, 1821, a faction of the Spanish amy deposed the viceroy Pezuela, and placed La Sema at the head of the government. The subsequent history of the war belongs to an-
other place. La Serna was wounded and taken prisoner at the battle of Ayachuco, Dec. 9, 1824, which put an end to his authority in Peru. On his return to Spain, he retired from public life, to reside in his native town of Xeres de la Frontera.

Lasher (cottus scorpius); a formidablelooking aud singular fish, belonging to the great order of acanthopterygiens ( Cu vier). It is about half a foot long, having the head and anterior part much larger in proportion than the posterior. The hearl is blackish, the back variegated with pale and black patches, placed transversely; sides divided by a rough longitudinal line, below which they are yellow, becoming whiter as they approach the belly. The gill-covers and head are furnished with formidable spines, which are capable of inflicting a painful wound, which circumstance appears to have been well known to the ancients: "Et capitis duro nociturus scorprius ictu." This fish has the faculty of swelling out its gill-covers and cheeks to an enormous size. It is found in all parts of the northern Atlantic ocean, being very frequent about Newfoundland and the Eastern States, where it is called scolping. In Greenland, it forms a favorite article of food.

Lassa; a city of Asia, the capital of Great Thibet, little known to Europeans. It is chiefly distinguished as the residence of the Dalai-lama, or the great head of the Shaman religion. Hence it is usually crowded with royal and noble personages, from all parts of Asia, who come to present their homage, and to offer splendid presents to this earthly divinity. Lon. $91^{\circ}$ $6^{\prime}$ E. ; lat. $29^{\circ} 30$ N. (Sec Lama.)

Lasso, Orlando di (Orlandus Lassus); one of the greatest musicians of the sixteenth century. He was born at Mons, in Hainaut, in 1530. Thuanus (De Thou) relates that he was carried off, while a child, on account of his fine voice. Ferd. Gonzaga, viceroy of Sicily, took him to Italy, and had him instructed in music. Having lost his voice in his 18th year, he was occupied three years, in Naples, as a teacher of music. He then became chapel-master in the Lateran church in Rome. Here he remained two years, and then returned to his native country to see lis parents, whom, however, he did not find living. He then travelled, with Julius Cæsar Brancaccio, to England and France, and again lived, for some years, in Antwerp, whence he went to Munich as chapel-master to Albert duke of Bavaria. Cliarles IX of France invited him to Paris; but Lasso leamed, on his way to
that city, the death of the king, and was inmediately reëstablished in lis place by duke William. He remained in this office nutil his death. Orlando was equally celebrated for his sacred and his secular music. He was the improver of figured counterpoint. IIis productions were 1 numerous, but are, at prescnt, rarely to be met with. His sons published a collcction of his motets, under the name Mag num Opus Musicum (Munich, 1604, 17 volumes, folio). In the royal library at Munich, is the richest collection of his works.

Latakia (anciently Laodicea) ; a seaport in Syria, 50 uniles south Antioch, 70 south-west Alcppo, lon. $35^{\circ} 44^{\prime}$ E.; lat. $35^{\circ} 32^{\prime} \mathrm{N}$. ; population, in 1810 , about 10,000 ; since reduced to 4000 . It is a Greek bishop's see. It is situated at the base, and on the south side of a small peninsula, which projects half a league into the sea. Its port, like all the others on this coast, is a sort of basin, environed by a mole, the entrance of which is very narrow. It might contain 25 or 30 vessels, but the Turks have suffered it to be so choked up as scarcely to admit 4. Ships of above 400 tons camot ride there, and hardly a ycar passes, that one is not stranded in the entrance. Notwithstanding this, Latakia carries on a great commerce, consisting chiefly of tobaeco, of which upwards of 20 cargoes are annually sent to Damietta. The returns from thence are rice, which is bartered, in Upper Syria, for oil and cottons. This place is subject to violent earthquakes. One, in 1796, destroyed a great part of the eity, and 2000 of the inhabitants; another, in 1822 , overthrew a third of the buildings.

Lateran; a square in Rome, so called from an ancient Roman family of the same name. Nero put to death the last possessor, Plautius Lateranus, and seized his estates. Thus the Lateran palace became the property of the emperor. Constantine the Great gave it to the popes, who occupied it for 1000 years, until the removal of their residence from Rome to Avignon. The chureh of St. John of Lateran, connected with this palace, was built by Constantine. It is the episcopal clarch of the pope, and the principal elurcil of Rome; hence the inscription over the priucipal door-" Omnium urbis al orbis ecclesiarum mater et caput (the mother and head of all the churehes of the city auld the world). It is also called the Lateran. Its great antiquity, the recollection of 11 councils which have been held in it, the rare relics which are preserved in it, and its splendid architect-
ure, render this church particularly worthy of observation. At the portal is the balcony, from which the pope bestows his blessing upou the people. At the chief altar of this chureh, none but the pope can read mass; for within it is a wooden one of great antiquity, upon which the apostle Peter is said to have read mass. In this church, also, are to be seen the two stools of red marble? which have an opening in the middle of the seat, and which are said to have been used for the investigation of the sex of the newly elected pope; but, in the baths of Caracalla, where they were found, they were probably put to an entirely different use. At the present time, every newly elected pope takes solemn possession of this church, accompanied by a cavalcade. Upon the Lateran Place stands a chapel, to which belongs the Scala santa (a staircase of 28 steps, which is said to have come from the house of Pilate, and which belicvers ascend on their knees), and the chapel of San Giovanni in Fonte, built by the cmperor Constantine, the cupola of which consists of eight porphyry pillans, considered the most beautiful in Rome.

Late Wake; a ceremony used at funerals, in some parts of the Highlands of Seotland. The evening after the rleath of any person, the relations and friends of the deceased meet at the house, attended by a bagpipe or fuldle. The nearest of kin, be it wife, soll or daughter, opens a melancholy ball, dancing and greeting (i. e. crying violently) at the same time, and this continues till daylight ; but with gambols and frolies, among the younger part of the company. If the corpse remains unburied for two higlits, the same. rites are renewed.

Latimer, Hugh, an eminent Englislı prelate and reformer in the sixteenth century, was the son of a respectable yeoman at Thureaston, in Leicestershire, where he was born about the year 1470. He received his early education at a country school, whence he was removed to Cambridge in his 14th year. He first became openly obnoxious to the enemies of innovation, by a series of discourses, in which he dwelt upon the uncertainty of tradition, the vanity of works of supererogation, and the pride and usurpation of the Romau hicrarchy. At length, the bislop of Ely interdicted his preaching within the jurisdiction of the university; but doctor Barnes, prior of the Augustins, being friendly to the reformation, licensed Latimer to preach in his chapel, which was exempt from episcopal interference. The
progress of the new opinions was represented to eardinal Wolsey, who, at the importunity of archbishop Warham, ereated a court of bishops and deaeons to put the laws in execution against heretics. Bcfore this court, Bilney and Latimer were summoned, and the former, who was deemed the principal, being indueed to recant, the whole were set at liberty ; and Latimer was lieensed, by the bishop of London, to preaeh throughout England. Bilney afterwards diselaimed his abjuration, and suffered martyrdom at Norwich. The fate of his friend by no means intimidated Latiner, who had the courage to write a letter of remonstrance to Henry VIII, on the evil of prohibiting the use of the Bible in English. Although this epistle produeed no effect, Henry presented the writer to the living of West Kinton, in Wiltshire. The ascendeney of Anne Boleyn, and rise of Thomas Cromwell, proved favorable to Latimer, and he was, in 1535 , appointed bishop of Worcester. It was then the eustom for bishops to make presents, on new-year's day, to the king, and, among the rest, Latimer waited at court with his gift, which, instead of a purse of gold, was a New Testament, having the leaf turned down to this passage - "Whoremongers and adulterers God will judge." Henry was not, however, offended; and, when the sturdy prelate was, some time after, called before him to answer for some passages in a sermon which he had preached at court, he defended himself so honestly, that he was dismissed with a smilc. The fall of Anne Boleyn and Cromwell prepared the way for reverses, and the six articles being carried in parlianent, Latimer resigned his hishopric, rather than hold any office in a cluurch which enforecd such terms of commmion, and retired into the country. Here he remained in privacy, until obliged to repair to London for medieal advice. There he was discovered by the emissaries of Gardiner, and imprisoncd for the remainder of Henry's reign. On the aeression of Edward, he was released, and becarne highly popular at court by his preaehing, during that reign, but never could be indueed to resume his cpiseopal functions. He took up his abode with arehbishop Cranmer, at Lambeth, where his chief employinent was to hear complaints and procure redress for the poor. Soon aftcr Mary aseended the throne, Latimer was eited to appear before the council, in doing whieh, an opportunity was afforded him to quit the kingdom. He, however, prepared with alacrity to
obey the eitation, and, as he passed through Smithfield, exclaimed, "This plaee lias long groaned for me." About the same time, Cranmer and bishop Ridley were also committed to the Tower, and the three prelates were confined in the same room. From the Tower they were conveyed to Oxford, and confined in the common prison, preparatory to a disputation, in which Latimer behaved with intrepidity and simplicity, refusing to deliver any thing more than a free confession of his opinions. The three prelates, although eondemned, remained in prison 16 months, chiefly beeause the statutes under which they had been tried had been formally repealed. In 1555, howevcr, new and more sanguinary laws having been enacted, in support of the Roman religion, a commission was issued by cardinal Pole, the pope's legate, to try Latimer and Ridley for heresy. Much pains were taken, during this second trial, to induce them to sign artielcs of subseription, which they steadfastly refused, and were, in consequenee, delivered over to the secular arm, and condemned to the flames. This sentence was put in exccution about a fortnight after their eondemnation, Oct. 16, 1555. At the place of cxecution, having thrown off the old gown whieh was wrapped about him, Latimer appeared in a shroud, prepared for the purpose, and, with his fellow-suffercr, was fastened to the stake with an iron chain. A fagot, ready kindled, was then placed at Ridley's feet, to whom Latimer exclaimed, "Be of good confort, master Ridley, and play the man. We shall this day light such a candle, by God's grace, in England, as, I trust, shall incver be put out." He then recommended his soul to God, and, with firmness and composure, expired. His preaching was popular int liis own times, in whieh his simplicity, familiarity and drollery were highly estimated.

Latin Empire. (See Byzuntine Empire.)

Lativs (Latini); an ancient people of Latium in Italy, who sprung from a mixture of the aborigincs with ArcadianPelasgian and Trojan colonists. The derivation of their name is unknown. It is not probable that they reeeived it from king Latinus. Janus, Saturn, Picus and Faunus, who were deified by their subjects, are represented to have been the nost aucient Latin kings. These names were probably appellations of the old Pelasgian divinities. During the reign of Faunus, Hercules and Evander are said to have arrived in Latium; the latter
taught the aborigines the use of the alphabet, music, and other arts, and also sineceeded Faunus in the govermment. About 60 years afterwards lived king Latims, at whose court Eneas (q. v.) arrived, Married his daughter Lavinia, and succeeded to his throne. The city of Alba Longa was built by Ascanius, the son of Eneas by a former marriage, and made the seat of the Latin kings. Henceforward we know nothing of the listory of Latium, whose kings all bore the surnane of Sylvius, until Romulus and Remus laid the foundations of a new city. Jealousy kindled a war between these two sister states, the Latin and the Roman, which terminated with the subjugation of the Latins and the demolition of their capital. Rome became the capital of all Latium, when king Servius united the Latins with the Romans in a permanent confederacy. From this epoch, we may date the beginning of the greamess and splendor of Rome ; for, without the valor and friendship of the Latins, she would never liave obtained the dominion of the world. 'Tarquinius Superbus endeavored to draw this alliance stilt closer; but, after his banishment, he excited the Latins to rise against Rome. This war of the Romans with the Latins, the first since the alliance which had been made between them, was decided in favor of Rome hy the valor of the dictator, and the treaty was renewed. In the year of Rome 414, there was a still more dangerous rupture between them. The Latins made war upon the Samnites, who inplored the assistance of the Romans. A dispute arose between Rome and Latium, in which the latter went so far as to demand that one consul and lialf of the senate should be Iatins. This demand was indignantly rejected by the Romans, and, in the war which followed, the Latins were reduced after a very severe struggle. When the Romans had nearly obtained the dominion of the wortd, the Latins made another attempt to regain their freedom, by engaging in the Social war (A. U. C. 663), and they succeeded so far as to recover many of their privileges. (See Rome, and Latium.) Niebulır's Hisrory of Rome (introductory chapter) contains a critical examination of the origin of the Latins.

Latinus ; a son of Faunus by Marcia. Ife was king of the aborigines in Italy. He married Amata, by whom lie had a son and a daugliter. The son died in his infancy, and the daughter, called Lavinia, was secretly promised in marriage, by lecr mother, to Turnus, king of the Rutuli, one
of lier most powerful admirers. The gods opposed this union, and the oracke declared that Lavinia must beeome the wife of a forcign prince. The arrival of Encas in Italy seemed favorable to this prediction, and Latinus, by offering his laughter to the foreign prince, and making him his friend and ally, seemed to lave fulfilled the commands of the oracle. Turnns, however, disapproved of the conduct of Latinus; he claimed Lavinia aty his lawful wife, and prepared to support his cause by arms. AEneas took up arms in his own defence, and Latium was the seat of the war. After mutual losses, it was agreed that the quarrel should be decided by a combat between the two rivals, and Latinus promised his daughter to the conqueror. Ancas obtained the victory, and married Lavinia. Latinus soon after died, and was succeeded by his son-in-law. This is the form of the legend in the Encid; other accounts are different.

Latitude, Geograpirical; the distance of a place, on the surface of the earth, from the equator, measured by that are of the meridian of the place which is intercepted between the place and the equator. Geographical latitude is either north or south, according as the place, reckoned fiom the equator of the earth, lies towards the north or the south pole. Latitude is the measure of the angle formed by a vertical line drawn from the place to the centre of the cartl and the plane of the equator. Since, however, this vertical line, if continued to the heavens, passes throngh the zonitl of the place, and the plane of the terrestrial equator, continued to the heavens, meetw the celestial equator, the latitude of a place is also determined by the distance between the celestial equator and the zcnith, or, in other words, by the complement of the altitude of the equator; and, as the complement of the altitude of the equator is the altitude of the pole, the latitude of a place is equal to the altitude of the pole at that place. Places sitmated in the equator itself have neither latitude nor altitude, becanse their two poles lie in the liorizon. Nor can the latitude of a place be more than $90^{\circ}$, because the altitude can never exceed $90^{\circ}$, that is to say, because the pole, at the most, can only be in the zenith itself. Latitudes, together with longitucles (q. v.), serve to fix the situation of places on the globe, and their distance from each other. The determination of local positions is the foundatiou of geography, and of the correct projec-
tion of maps.-In astronomy, latitude is nised to signify the distance of a heavenly body from the ecliptic, which distance is ineasured by the arc of a great circle (circle of hatitude), perpendicular to the ecliptic, which is intercepted between the ecliptic and the body. Here, also, latitude is north and south. A heavenly body in the ecliptic has no latitude, for which reason the sun has 110 latitude, and that of the plancts is very small. The latitude of a heavenly body can never exceed $90^{\circ}$. It is determined by the right ascension and declination. The latitude of stars is laid down in the lists of the fixed stars. An extensive list of the gcographical latitudes of places is contained in the Berlin Collection of Astronomical Tables, vol. i, p. 43 et seq.-Heliocentric latitude of a planet, is its latitude or distance from the ecliptic, such as it would appear from the sun. This, when the planet comes to the same point of its orlit, is always the same, or unchangenble.-Geocentric latitude of a planet, is its latitude as scen from the earth. This, though the planct be in the same point of its orbit, is not always the same, but alters according to the position of the earth in respect to the planet. The latitude of a star is altcred only by the aberration of light, and the secular variation of latitudc.

Latitudinarian, among divines, denotes a person of moderation with regard to religious opinions, in contradistinction to the rigid adherents to particular doctrines. This name was first given, by way of distinction, to those excellent persons, in England, who, about the middle and towards the close of the seventecnth century, endeavored to allay the contests that prevailed between the more violent Episcopalians, ou the one hand, and the more rigid Presbyterians and Independents, on the other, and also between the Arminians and Calvinists. At present, it gencrally denotes one who departs, in opinion, from the strict principles of orthodoxy.

Latius; the principal country of ancient Italy, and the residence of the Latins. The limits, which appear to have clanged at differcnt periods, are generally represented to be the Tiber on the north, and the promontory of Circeii (Monte Circello) on the south; but this is probably too extensive. According to Strabo, there were, besides the Latins, Rutuli, Volsci, Hernici and Aquii in this region. The actual extent of Latium, at the time of the building of Rome, may have
amounted, at the most, to about 46 miles in diameter, and the actual boundaries werc probably the Tiber on the west, the Anio on the north, mount Algidum on thic east, and, on the south, the city of Ardea, which was situated at the distance of 160 stadia from Rome. Latium afterwards extended to the river Liris (Garigliano), but the northern and eastern boundaries remained the same. In the earliest times, there was a large laurel grove situated on the coast, at the mouth of the Tiber, which extended as far as the city of Laurentum. This grove not only gave the name to the city, but also to the surrounding country, which was hence called Laurentinus ager, and the inhabitants were styled Laurentes. This grove is said to have been standing in the time of the emperor Cominodus. Between the Tiber and the city of Laurentum was the place where Æncas pitched his camp, which hore the name of Troy. To the eastward of this place, 24 stadia from the Tiber, was the city of Laurentum. Farther on, lay the little river Numicus and the sources of the Jutuma; and still farther to the east, was situated the city of Lavinium. Beyond the sources of the Nunicus and the Juturna, was the mountain upon which, 30 years after the building of Lavinium, was placed the city of Alba Longa. Behind this, towards the Mernici, lay Aricia; still farther above, in the extreme northcasterly corner of Latium, was the city of Preneste ; towards the northern extremity of the samc province, was the city of Tibur, and between these two cities and Rome, were Gabii and Tusculum. All these cities were colonics of Alba Longa. The first colony of the Romans was Ostia, established by Ancus Martius, below Rome. In the time of the Romans, Latium was very thinly inliabited; and, 100 years after the building of Rome, complaints began to be made on account of the desolation of the country and its unhealthy atmospliere. With the cnormous wealth which the Romans acquired from the conquest of Grecce and Asia, villas, which contained great numbers of slaves, were built in this desolate region, and the air was thus rendered somewlat healthier. In this way cities and villages sprung up around Rome, which were afterwards deserted and destroyed. The rivers of Latium were the I'iber, the Liris, the Auio, Numicus, Ufens, Amasenus and Amo. The Ufens flowed through the Pontine marshes. These marshes were known from the earliest times, and cxtended between the rivers Ufens and

Nymphæus to a great distance. There were also some lakes in Latium, of which lake Regillus was the principal. The mountains of this province were, with few exceptions (as, for example, the Alban mountain and inount Algidum) increly hills. (For a minute account of this region, see the Description of Latium, with 20 enyravings; and a map of the Campagna di Foma, London, quarto ; and Cramer's Description of Ancient Italy, Oxford, 1826.) -The Latin right (jus Latii) onginally belonged to the Latin allies of Rome, but was afterwards extended to some other states on their accession to the alliance. The members of these states were not enrolled among the Roman citizens, but had a census of their own. They were required to raise auxiliary troops, which did not serve in the Roman legion, but as a separate force. They lad the right of voting at Rome, but under certain limitations, and they elected their own magistrates. All who enjoyed neither the Roman citizenship (civitas Romana), nor the Latin right, were called foreigners (peregrini).

Latona (by the Greeks called Leto, in the Doric dialect Lato), daughter of Ccus and Ploobe (according to some, of Saturn), became the mother of Apollo and Diana by Jupiter. During her pregnancy, she was persecuted by Juno, by whose command the dragon Pytho threatened her everywhere with death and ruin, and the earth was not permitted to allow her a place for her delivery. After long wandcrings, she found rest on the island of Delos (q. v.), which rose from the sea to receive her. The giant Tityus, having attempted to offer her violence, was killed by Apollo and Diana. According to another table, this giant was struck dead by Jupiter, with lightning, before her pregnancy. Jupiter also changed some Lycian peasants into frogs, because they would not pernit her to drink, on her flight from Delos, from which Juno had again driven her (Ovid's Metam. vi, 4). Latona is represented as a mild, benevolent goddess, in a sea-green dress. With Diana she cured the wounded ÆEneas, and crowned him with glory. When Diana fled to Olympus, from the anger of Juno, Latona carried to her her quiver and arrows, which she had left behind. Latona was worshipped chiefly in Lycia, Delos, Athens, and other cities of Greece. In Crete, a festival was celebrated in honor of her, called Ecdysia. She is sometimes considered as the symbol of niglit, because the sun proceeds, as it were, from the
night. Hence, also, some derive her name from the Greek $\lambda_{\text {aveaver }}$ (to hide).

Latour D'Auvergne-Corret, Theophilus de, one of the bravest soldiers mentioned in military history, was born in 1743, at Carhaix, in the department of Finisterre (Brittany), early decided to become a soldier, and was aid-de-canp to the duke De Crillon at the siege of Mahon. When the revolution broke out, he was aunong the first to rally round its standard, and distinguished limself among 8000 greuadiers, in the army of the Pyrences. liigher appointments were offered to lim, but he always declined, declaring that he was only fit to command a company of grenadiers. His corps generally made the ran-guard, and was called the infernal column. After the peace of Bàle, lie fell into the hands of the English, and was a prisoner a year in England. After his exchange, he occupied himself with literary labors, and, in 1799, again bore arms instead of a son of his friend Lebrigard, fought under Massena, in Switzerland, and fell at Newburg, in 1800, while attached to the army of the Rline, having been, not long before, named first grenadier of France by the first consul. A monunient was erected on the spot where he fell. His heart was cmbalmed, and carried, in a silver box, by one of the company in which he had served. His name was always called, and the bravest gremadier answered-"Died on the field of honor." As an author, he made himself known by a singular work on the early history of Brittany.
Latour-Macbourg, Victor Fay, marquis de, horn at Vivarais, of an ancient family, in 1756, was in the body-guard of the king, at the breaking ont of the revolution, defended the royal family on the terrible night of Oct. 5 , and emigrated after Aug. 10, 1792. (See France, History of.) Having returned, in consequence of the ammesty proclaimed after the 18 th Brumaire, he entered the service of the republic, and distinguished himself in the campaigns of Egypt, Austria, Prussia and Spain. His services at Austerlitz, Friedland, and on other occasions, procured him the title of count of the empire, and general of division. In 1812, he was employed against Russia, and, at the battle of Leipsic, lost a leg. Louis XVIII created him peer of France in 1814. During the hundred days, he remained in retirement, and, after the second restoration, was appointed commander of the order of St. Louis, and knight of the order of the Holy Ghost. In 1817, the port-folio of the war
department was intrusted to him; but his opinions were too liberal to satisfy men who made his jambe illégitine a matter of reproach to lim, and, in 1821, he was obliged to surrender it to the Villele min-istry.-2. Charles César Fay, count de, brother of the preceding, born 1758 , was a nember of the estate of nobles in 1789, and among the first to join the third estate, when it declared itself the national assembly. He advocated constitutional doctrines, and scrved under Lafayette, whose captivity he shared. In 1801, he was a member of the corps législatif; ;in 1806, of the senatc ; and, atter the restoration (1814), was created a peer of France. Having sat in the claamber of peers during the hundred days, he lost the pcerage, on the sccond restoration, but received it again in 1819.-His eldest son has been ambassador to Constantinople, Würtemlerg, London, \&c. ; his second son, Rodolphe, has been distinguished in the military scrvice; and his third, who married the cldest daughter of Lafayette, has also served, and has received the cross of St . Louis.

Latreille, Peter Andrew, a very distinguished and active naturalist, was born in 1762, at Brives, department Corrèze. Froin carly youth, he devoted himself to the study of natural listory, and is, at present, professor of zoölogy at the museum of natural listory at Paris, member of the academy, of the legion of honor, \&c. Of his works on natural history, the most important are Précis des Charaetères génériques des Inseetes (Brives, 1797); Histoire nat. des Salamandres de France (with engravings, Brives, 1800); Histoire nut. des Singes, faisant Partie de celle de Quadrupèdes de Buffon (2 volumes, Brives, 1801); Essai sur l'Histoire des Fourmis, \&c. (with engravings, Brives, 1802); Histoire nat. des Reptiles, faisant Partie du Buffon de M. Castel (4 volumes, Brives, 1802); Genera Crustaceorum ct Inscetorum (with 18 colored ellgravings, 4 yolumes, Brives, 1806-1809); Considérations gén. sur l'Ordre naturel des Animanx, composant les Classes des Crustacées, des Arachnides et des Insectes (Brives, 1810); Mímoires sur divers Sujcts de l'Hist. nat. des Inseetes, de Géographie ancicnne el de Chronologie (Brives, 1819); Fumilles naturclles du Régne Animal (Brives, 1825.) Latreille is also one of the most active contributors to the Nouv. Dictionnaire d'Histoire nat., to the Annales du Muséum d'Hist. nat., and other works.

Latrobite; a mineral named for reverend C. I. Latrole. It is found massive and crystallized; but the crystals not well
defined; color, pale pink ; scratches glass ; specific gravity, 28. It is composed of


It is found at Amitok island, ncar the coast of Labrador, and is accompanicd by mica and carbonate of lime.

Lattafginajt, Gabriel Charles, abbé de, a poet, the memory of whose songs has not yet perished in France, and who rendered himself known by the popular opera Fanchon, was born in Paris, towards the end of the seventecnth century. He was canon at Rheims, and counsellor of the parliancut of Paris, but united great gayety with his serious occupations. After having taken part in all the pleasures of life, he retircd to a monastery, and died 1779. His pocms were published in 4 volumes, 12 mo., which were followed, after his death, by his songs and writings not before printed.
Latude, Henri Mazers de, lorn in 1724, at Montagnac, in Languedoc, was imprisoned, when 20 years old, in the Bastile, in the reign of Louis XV, because, in order to gain the favor of Mad. de Pompadour, he had persuaded her that an attempt was to be made on her life, by a box containing the most subtle poison. The box actually arrived, but contained nothing but ashes, scit by Latude himself. His repeated attempts to escape rendered his confinement more rigorous, and he remained in prison 35 years. He was delivered from his confinement in 1779. He then wrote his memoirs, which became a formidable weapon in the hands of the revolutionary party. The national assembly decreed him a pension, which was afterwards, however, withdrawn. The hcirs of Amelot and Mad. de Pampadour were sentenced to make him indemnification. He died in 1804, 80 years old.

Laud, Willian, archbishop of Canterbury, in the reign of Charles I, born in 1573, received lis education at St. John's college, Oxford, of which he became a fellow in 1593. He took priest's orders in 1601, and, the following year, preached a divinity lecture, in which he maintaincd the perpetual visibility of the cluurch of Rome intil the reformation, which doctrine being disapproved by doctor Abbot, master of University collcge, the foundation of that animosity was laid, which ever after subsisted betwcen thicm. In 1608, he was made chaplain to Neile, bisliop of

Rochester, who gave hin the rectory of Cuckstone, in Kent; and he soon after preached his first sermon beforc Janes J. In 1611, he became president of his college, and one of the king's chaplains, and, in 1617, accompanied James I to Scotland, to aid him in his attempt to bring the church of Scotland to a uniformity with that of England. In 1620, he was installed a prebend of Westminster, and, the next year, nominated to the see of St. David's. About this time, James took upon himself to interdict the introduction into the pulpit of the doctrines of predestination, election, the irresistibility of frce grace, or of any matter relative to the powers, prerogatives and sovereignty of foreign princes. These measures being attributed to the counsels of bishop Laud, the Calvinistic or Puritanic party were much incensed at his conduct. On the accession of Charles I, Laud's influence, by the countenance of Buckingham, became very great; and he was ordered to farnish the king with a list of all the divines in the kingdom, against whose names he marked O . or P , to signify Orthodox or Puritan. In 1626, he was translated to the see of Bath and Wells, and, in 1628, to that of London. On the sequestration of archbishop Abbot, in consequence of having accidentally shot a game-keeper, Laud was appointed one of the commissioners for excrcising the archiepiscopal jurisdiction; and, being a zealons supporter of the hated administration of Buckingham, became in the highest degree unpopular. On the assassination of that favorite by Felton, bishop Laud, suspecting that some members of parliament might be privy to the deed, prevailed on the king to send to the judges for their opinion, " whether, by law, Felton might not be racked ?" Bishop Laud was also the most active member of the high commission court, the arbitrary and severe proceedings of which were so justly odious to the nation. In 1630, he was elected chancellor of the university of Oxford, to which he was a great benefactor, and which he enriched with an invaluable collection of manuscripts, in a great number of languages, ancient, modern and Oriental. In 1633, he attended Charles into Scotland, who went there to be crowned; and, on his return, he was promoted to the see of Canterlury, become vacant by the death of archbishop Abbot. On the same day, an agent from the court of Rome came to him privately, and offered him a cardinal's hat-a fact which shows how strongly he was suspected of
a predilection for the church of Rome. He, however, declined the proposal, fecling, as lie expresses hinself in his diary, "That sometling dwelt within him which would not suffer that, till Rome were other than it is." In 1634, he cominenced a metropolitan risitation, in which the rigor of his proccedings, to produce conformity, was exceedingly unpopular. In 1635, he was appointed one of the commissioners of the treasury, in which situation he remained a ycar. The prosecution of Prymue, Burton and Bastwick, for libel, took place in 1632, the odium of which, and the severe sentences that followed, rested principally upon him. In 1637, he procured a decree of the starchamber, limiting the number of printers, and forbidding the printing of any book not licensed by the bishop of London or archbishop of Canterbury, for the time being, or by the chancellor and vicc-chancellor of the universities. Catalogues of all books from alroad were also to be furnished to the same authorities; and so arbitrary was the conduct of Charles's ministers, at this period, that numbers, both of clergy and laity, sought to quit the country. A proclamation was issued to restrain them, unless certificated to be conformable to the discipline of the clurch. After a lapse of 12 years, a parliament was convened in April, 1640; the commons commenced ly appointing committees of religion and grievances, on which it was suddicnly dissolved, after sitting only thrce weeks. All sorts of means were then put in force to raise supplies, by loan, benevolence, shipmoney, \&c., thosc who refused payinent being fined and imprisoned by the starchamber or council-table. A clerical convocation was also authorized by the king, to sit, independent of the parliainent. This body, besides granting subsidies, prepared a collection of constitutions and canons ecclesiastical, whiel, being approved by the privy council, was made public, and gave such general disgust to the moderate of all parties, and produced so great a number of petitions to the privy council, that Cliarles was obliged to suspend them. On the calling of the long parliament, thic new canons were summarily disposed of, as subversive, both of the rights of parliament, and of the liberties and property of the subject, and the long gathering storm immediately burst over the head of the archbishop. The next day, articles presented against him by the Scottish commissioners were read in the house of lords, which when referred to the commons, a motion was put and carried, that
he had been guilty of high treason. The celebrated Denzil Holles was immediately sent to the house of lords, to impeach him in the name of all the commons of England, and he was delivered into the custody of the black rod. Feb. 26, 1641, 14 articles of impeaclunent were brought up from the commons, and he was committed to the Tower. Soon after his cominitment, the house of commons ordercd him, jointly with those who had passed sentence against Prynne, Bastwick and Burton, to make them satisfaction for the danages which they had sustained by their sentence and imprisonment. Ife was also fined $£ 20,000$ for his proceedings in the inposition of the canons, and was otherwise treated with extreme severity. He remained in prison three years before he was brought to trial, which at length, on the production of 10 additional articles, took place March 12, 1643-44, and lasted 20 days. Many of the charges against him were insignificant and poorly supportcd; but it appeared that lie was guilty of many arbitrary, illegal and cruel actions. His own defence was acute and able; and his argument-that he could not be justly made responsible for the actions of the whole council-if not absolutely a legal, was a strong moral defence. The lords were still more staggered by his comnsel showing that, if even guilty of these acts, they amounted not to high treason. A case was made for the judges, who very much questioned if they were so, and the peers deferred giving judgment. On this delay, the house of commons passed a bill of attainder, Jan. 4, $1644-45$, in a thin house, in which the archbishop was declared guilty of high treason, and condemned to suffer deathas unjustifiable a step, in a constitutional point of view, as any of which he was accused. To stop this attainder, lie produccl the king's pardon, under the great seal; but it was overruled by both houses, and all he could obtain by petitioning, was to have his sentence altered from hanging to beheading. He accordingly met his death with great firmness, Jan. 10, 1644 - 45, on a scaffold erected on Towerhill, in the 72 d year of his age. His warmest admirers admit his extreme rashness, and little is left which can bo fairly pleaded for his severity and violence, except the probability that he acted on principles which he deented correct. Much praise has becn bestowcd upon his picty, but his diary shows it to lave becn mingled with much puerility and superstition; his dreans being regularly recorded, as
well as the hopes and fears which they excited. Speaking of his learning and morals, Hume observes, "that he was virtuous, if severity of manners alone, and abstinence from pleasure, could deserve that name. He was learned, if polemical knowledge could entitle him to that praise." Among his works are sermons; Annotations upon the Life and Death of King James; his Diary, edited by Wharton; the Second Volume of the Remains of Archbishop Laud, written by himself; Officium Quotidianum, or a Manual of private Devotion ; and a Summary of Devotion.
Lauder, William, a literary impostor, who attempted to prove Milton a plagiary, was a native of Scotland. In 1747, he published, in the Gentleman's Magazine, an Essay on Milton's Use and Initation of the Moderns, the object of which was to prove that Milton had made free with the works of certain Latin poets of modern date, in the composition of his Paridise Lost. Mr. Douglas, afterwards bish1op of Salisbury, in a letter, entitled Milton vindicated from the Charge of Plagiarism, showed that the passages which had been cited by Lauder, from Massenius, Staplorstius, Taubmannus, and others, had been interpolated by Lauder himself, from Hogg's Latin translation of the Paradise Lost. He subsequently acknowledged his fault, assigning the motives which prompted it. (See Nichol's Literary Ancedotes.)
Lauderdale, James Maitland, earl of, was born in 1759, studied in Glasgow, was, by family interest (being then lord Maitland), brought into parliament for the Scotch boroughs of Lauder, Jedburg, \&c., and immediately joined the opposition, with whom lie acted till the death of his father, in 1789. On succeeding to the title of Lauderdale, he was chosen one of the 16 peers of Scotland. He opposed the Russian armanent, condenned the measures taken against 'Tippoo Saib, and, when the revolution in France broke out, lailed it as a most fortunate event. He was a witness of the dreadful massacres which took place in September, 1792, and allied himself with the Brissotines, or moderate republicans. With Brissot, their leader, he contracted a warm friendship. On his return, he opposed the war with France, and the other measures of the Pitt administration. Having lost his seat as one of the 16 peers of Scotland, he attempted to get into the house of commons by a surrender of his peerage, whicl he thought was allowable by the Scottish law, that, by that means, he might become a
commoner, and be returned to the house of commons. He became a citizen of London, and was made free of the needlemakcrs' company ; but, standing for sheriff, he did not meet with support from the livery, and he then contented himself with writing his sentiments and publishing them. He published several panphlets on finance, India affairs, and paper currency, among the principal of which is an Inquiry into the Nature and Origin of publie Wealth $(1804)$, which has reached three editions. When the Whigs came into administration, in 1806, lord Lauderdale was created a baron of Great Britain, and received a seat in the privy council, and the custody of the great seal of Scotland. When his friends went out of office, he retired with them. His lordship then attached himself to the interests of the princess Clarlotte of Wales. Lord Lauderdale is a man of talents, and of intrepid charaeter, but of great impctuosity of temper.
Laudon. (See Loudon.)
Lauenburg, or Saxe-Lauenburg; a Danish duchy, belonging to the Gerinan confederacy. It forinerly belonged to Ilanover, passed with that country, in 1803, under Freneh government, was restored, in 1813, to its former statc ; in 1816, was ceded to Prussia. The Prussian government afterwards gave it up to Dennark. (See Kiel, Peace of.) It contains, at present, 400 square miles, with 32,000 inhabitants, is situated on the right bank of the Elbe, and is surrounded by the territories of Hamburg, Lübcck, Hanover, Mecklenburg and Holstein. Grazing and tillage, together with the transit trade, are the sources of its wealth. It exports much wood for fuel and building. The toll on the Elbe, paid in the city of Lauenburg, is said to amount to 50,000 Danish dollars annually. According to the constitution, confirmed by the king, 22 landholdcrs and the three cities have each one vote in the diet. The free peasants in 111 villages arc not represented. Ratzeburg, the capital, is situated in a lake.

Laumonite ; a mineral, named in honor of Gillet de Laumont. It oecurs in aggregated crystalline masses, deeply striated, or in separate crystals, of several varieties of form, and sometimes in that of its primary crystal, an oblique rhombic prisin, of which the inclination of the terminal plane is from one acute angle to the other. It is white, sometimes with a tinge of red, and is translucent, and bard enough to seratch glass. By expo-
sure to the air (even a very short time), it becomics opaque, tender, and cventually falls into a white powder ; specific gravity, 2.2. Before the blow-pipe, it intunnesces, and fuses with difficulty into a colorless glass. It is composed of silex 48.50 , alumine 22.70 , lime 12.10, and water 16.00 . It was first noticed in the lead-mines of Huclgoet, lining the cavities of veins. It has since been found in trap in Ireland and Faroc, Transylvania, Nova Scotia, and in the U. States, near New Haven, Comnecticut.

## Launch. (Sec Boat.)

Launching. (See Ship.)
Laura; P'etrarch's mistress. It was long erroneously supposed that this lady, who has been celcbrated in the sweetest strains of poctry, was ouly an allegorical person, or a descendant of the houses of Chabaud and Sade, who remained single, and lived at Vaucluse, where the poet had an opportunity of becoming acquainted with her. According to the investigations of the abbé Sade, Mémoires pour la Vie de François Pétrarque (Aınsterdam, 1764-67, 3 vols., 4to.) ; of Tiraboschi, in his Ilistory of Italian Literature ; of Baldelli, Del Petrarca (Florence, 1797, 4to.) ; of the abbé Arnavon, Pétrarque à Vaucluse, and Retour de la Fontaine de Vaucluse (Paris, 1803, and Avignon, 1805) ; of Guerin, Description de la Fontaine de Vaucluse (Avignon, 1804, 12mo.) ; and, lastly, of Ginguené, in his Histoire littéraire d'Italie ( 2 d vol.), Laura was descended from the old Provencal family of Noves, which has now been extinct 300 years, and was the daughter of the chevalier Audibert Noves, who lived in Aviguon. She was born at the village of Noves, or in Avignon, in 1307 or 1308, and, after the death of her father, who left her, his oldest daughter, a large fortune, she married (1325) the young Hugh de Sade, of a distinguished family in Avignon. Laura was one of the most beautiful women of the city, which, being at that time the residenee of the pope, attracted inany strangers. Among then was the young Pctrarch (q. v.), whose ancestors had becin banished from Tuscany, during the quarrels of the Guelphs and Ghibelines. It was on the 6 th of A pril, 1327, on Monday of the passion-week, at 6 o'clock in the morning, that Petrareh, then 23 years old, first saw, as he himself says, the bcautiful Laura, in the church of the nuns of St. Clara; and, from that moinent, he was seized with a passion as violent as it was lasting. His vain efforts to lead her from the path of duty, and his ineffectual at-
tempts to conquer a hopeless passion, plainly show that his love was by no means Platonic. He acknowledges, however, that he never received the smallest favor from her, and bestows the highest praise on lier virtue. Laura certainly felt tlattered by the devotion of the young pos:t, and was polite and kind towards him, as long as she saw nothing in his attentions to alarm her ; but treated limn witls severity whenever he endeavored to express the warmth of his passion. For more than 20 years, Petrarch sang the objeet of lis love, and endeavorcd to cxcite a reciprocal passion, or to eonquer his own. During this long period, by alternate severity and kindness, Laura succecded in retaining him a captive to her charms, without ever suffering the least stain on her honor. She never saw the poet in her own house, because the manners of the time, as well as the jealousy of her husband, forbade it. After lier marriage, she always lived at Avignon, in the house of her father-in-law, situated on the Rhone, bclow the papat palace; and it was from the summit of the rock, on which the palace was built, that Petrarel delighted to gaze on hcr, as sle walked in her garden. In the same yeur (1334), that P'etrareh went to Vaueluse, to recover his peace of mind in this lovely solitude, Laura was attacked by an epidemic diseasc, whielh made great ravages; but she recovered, and was dearer than ever to the poet. In 1330 , the painter Simon of Si enna, who had been called to Avignou to adorn the papal palace, painted Laura's picture, and gave it to the poct, who repaid him with two somnets. Whether Laura consented to have her portrait taken for Petrarch, or whether he only obtained a copy, or whether the image of the beautiful lady was so decply stanped on the mind of the painter, that he could afterwards paint her from recollection, cannot now be ascertained ; but it is certain, that he afterwards introduced Laura into sevcral pietures, as, for instance, thosc on the reiling of the cathedral at Avignon. When Petrarch returned to Avignon, after having been crowned with laurel at the capitol, Laura, whether flattercd by his fame, or tonched by the constancy of a lover whom long absence had rendered more dear to her, received him kindly. Petrarch sow her more frequently, and his visits to Vaucluse became less frequent and long. His poems, which were spread over all Europe, made the beauty of his mistress very celebraved, and all strangers, who came to Avignon, wished to see Laura.
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Charles of Luxemburg, afterwards the emperor Charles IV, saw her at a ball which was given him, and, beckoning to the other ladies to make way, he approached her, and kissed lier on the forehead and eycs. But the repeated fatigues of maternity, and the doinestie trouble which she suffered from the ill humor of her hasband, and the bad conduct of her eldest daugliter, made at length such a change in her appearance, that those who saw her for the first time were disappointed. A pestilence which arose in the East, and spread desolation over Europe for three years, at length reached Avignon, in 1348, and, on the 6ith April, at 6 o'elock in the morning, the hour which Petrarcl2 has designated, in his mournful recolleetions, as that of the birth of his love, Laura fell a victim to this disease, and was buried on the same day, in the church of the convent of the Minorites. In 1533, some antiquaries obtained permission to open Laura's grave. They found a parehment cuclosed in a leaden box, on which was written a sonnct, bearing Petrarcll's signature. It was not, however, written in the spirit of that celebrated poet, but appeared to be the work of a friend. They also found a medal, bearing a female figure, with the inscription M. L. M. J. (perhaps, Madonna Laura Morta Jace). Francis I, who visited Avignon the same year, sought out Laura's grave, wrote an epitaph on her, and ordered a monument to be erected to her; but it was never done. The box and the medal were purehased (1730), of the under sacristan, by some Englishonen ; but the sonuet was lost, when the castle, belonging to the family of Sade, was destroyed, in 1791. The tomb itself was overturned, together with the church, during the revolution. The prefect of Vaucluse (1804) eaused the tomb-stone, which had been given to the family of Sade, to be placed in the old eathedral of Ariguon. The abbe Costaing has endeavored to prove, without any sufficient grounds, that Petrarch's Laura was desecnded from the family of Baux, and was the daughter of Adhcmar de Baux. (See his La Muse de Petrarque dans les Collines de Vaucluse, Paris and Avignon, 1819.) (See the article Pe trarch.)
lavrel (laurus); a genus of plants consisting of trees or slirubs, mostly aromatic, and often remarkable for the beauty of their foliagc. The leaves are simple, generally alternate, and the flowers suluall and inconspieuous. It is onc of the few genera belonging to the Limnæan class
enneandria. The species inhabit the tropical parts of the globe, and the warm regions in the vicinity ; two of the American species, however, extend to a high northern latitude. Cinnamon, eassia and camphor are obtained from different spccies of laurus. The swcet bay (L. nobilis), so celebrated by the ancient poets, and used to decorate temples and the brows of victors, is a small omamental evergreen tree, inlabiting the south of Europe and north of Africa. At the present time, the leaves and berries are chiefly employed for culinary purposes, and form an article of export, even to the $\mathbf{U}$. States. The red bay ( $L$. Caroliniensis) inhabits the alluvial district of the sonthern parts of the U . States, from latitude $37^{\circ}$ to the gulf of Mexico, and is found westward beyond the mouths of the Mississippi. It is a beautiful tree, growing in the low grounds, in company with the cypress, and sometimes attains the height of 60 or 70 feet, with a trunk a foot or 18 inches in dianetcr. The leaves have an aroma very similar to that of the L.nobilis, and may be employed for the same purposes. The wood, which is strong, fine-grained, and capable of receiving a brilliant polish, was formerly employed, in the Southern States, in cabinet-making, and afforded very beautiful furniture ; but the difficulty of finding stocks of sufficient size, together with the facility of procuring mahogany, has brought it into disuse. At present, it is cliefly employed in naval arehitecture, whenever it attains large dimensions. The wood is used also, in preference to any other, for tree-nails (wooden pins which fasten the planks of a ship to the timbers). The sassafras, so remarkable for having its leaves either simple, or divided into two or three lobes, is also a species of laurus. Though usually appearing as a shrub, it not unfrequently attains considerable dimensions, growing, in a rich soil, to the height of 40 or 50 feet, or even more, with a trunk of proportional diameter. It is cominon throughout the U. States, as far north as latitude $43^{\circ}$, and extends westward even into Mexico. The bark of the roots, which is the most powerfully aromatic part of the plant, has been in high repute as a medicine from the discovery of America, and is still exported to Europe in considerable quantitics, but its virtues have been very much overrated, although it is yet frequently cmployed in pharmacy. A very agreerble beverage is made, in some parts of the U . States, of this bark, in combination with other substances, and it is also employed in dyeing,
affording a beautiful orange color. The L. benzoin, or fever-bush, is also an agreeably aronatie shrub, as widely extended througliout the U. States as the preceding. Four other specics of laurus are found in the Southern States. Michaux strenuously recommends the introduction of the camphor tree (L. camphora) into the Southern States, and is of opinion, that it would soon become naturalized. The alligator pear, which forms a frequent artiele of nutriment in the West Indies, and is muels cultivated for that purpose, is also the fruit of a species of laurus.

Laurens, Henry, a distinguished statesman of the revolution, was born at Charleston, South Carolina, iu 1724. His ancestors were French Protestant refirgees, who had left France about the time of the revocation of the ediet of Nantes. After receiving a good education, he was placed in the counting-house of a merchant of Charleston, but was soou afterwards sent to London to fit himself for commercial pursuits, under the eye of a gentleman who had been engaged in busincss in Charleston. On his return, he entered into business, and, by his industry and activity, aequired an ample fortune. Having retired from busiucss, lie went, irr 1771, to Europe, in order to superintend the education of his sons, and was in London when he reccived the first accounts of the troubles which were beginning to agitate the colonies. With 38 other Americans, he endeavored, in 1774, by petition, to dissuade parliament from passing the Boston port bill, and cxerted himsclf to prevent a war ; but finding that nothing would be of any avail for that purpose, save dishonorable submission, lie hastened home to take part with his countrymen. He arrived in Charleston in December, 1774, was chosen president of the council of safety, and soon manifested that he had lost none of his energy and habits of business. In 1776, he was elected a delegate to congress; soon after taking his seat, was made president of that body, and continued suel until the close of ihe year 1778. He then resigned, and, in 1779, received the appointucut of minister plenijotentiary from the U. States to Holland. On his way thither, he was captured by the British, carried to London, and committed to the Tower. For the first month of his confinement, he was permitted to walk out with an armed guard; but this indnlgence was subsequently taken from him for a tinc, ir consequence of lord George Gordon, then a prisoner also, having met and asked
him to walk with him, whieh, although Mr. Laurens refused to do, and immediatcly returned to his room, was interpreted into a transgression of orders. His confinement lasted for more than 14 months, during which, various cfforts were made, by the British government, to shake his constaney, but without effeet. Soon after his rclease, he received a commission from cougress to be one of their ministers for negotiating a peace with Great Britain, and, having repaircd to Paris, he signed, November 30,1782 , with doctor Franklin and John Jay, the preliminarics of the treaty. On his return home, he was reeeived with every mark of esteem, but declined all offiees. His health had been broken by his imprisonment, and, after passing the last ycars of his life in agrieultural pursuits, he died Deccinber 8, 1792, nearly 70 ycars of age. Aecording to an injunetion contained in his will, his body was burnt, and his bones colleeted and buried.

Laurens, John, lieutenant-colonel, son of the forcgoing, after reeeiving a liberal education in England, returned to, his country, and joined the Ameriean arny in 1777. The following surnmary aecount of lis military carcer is taken from Garden's interesting Anecdotes of the American Revolution. "Ilis first essay in arms was at Brandywinc. At the battle of Germantown, lie cxhibited prodigies of valor, in attempting to expel the enciny from Chew's house, and was scverely wounded. He was engaged at Monmouth, and greatly inereased his reputation at Rhode Island. At Consahatchie, defending the pass with a handful of men, against the whole foree of Provost, he was again wounded, and was probably indebted for lis life to the gallantry of eaptain Wigg, who gave him his lorse to carry him from the field, when ineapable of moving, his own having been shot under him. He headed the light infantry, and was among the first to mount the British lines at Savannah; displayed the greatest activity and couragc during the sicge of Charleston; entered, with the forlorm hope, the British redoubt carried by storm at Yorktown, and reeeived with his own liand the sword of the commander; by indefatigable activity, thwarted cvery cffort of the British garrison in Cliarleston, confining them, for upwards of 12 months, to the narrow limits of the city and neek, oxecpt when, under the protection of their shipping, they indulged in distant predatory expeditions; and, unhappily, at the very close of the war, too carclessly ex-
posing himself in a trifling skirmish near Combahee, scaled his devotion to lis country in death." It is rclated by judge Johnson, in his life of general Greenc, that the greater part of the night, in whielt the fatal skirmish took place, was spent by Laurens in a jocund company of ladies; that the expected rencounter was the subject of the gayest badinage; and that the company did not separate until two hours before the time when the colonel was in motion with his detaehment. The sorrow at the news of his death was deep and universal. Washington, into whose farnily and affection he had won admission, mourned him as a lost son. Such a combination as was found in lim of chivalrous gallantry, patriotism, ardor, elevation and rectitude of soul, with unaffeeted modesty, information, frankness, vivacity and polish of manners, has rarely been seen. He was the delight of every social cirele, and the admiration of his companions in arms. There is one aet of his life, which, perhaps, morc than any other, entitles him to the gratitude of his country. In the autumn of 1780 , he was sent, as a special minister, to France, in order to negotiate a loan from the Freneh government, and, on his arrival in Paris, immediately cntered upon the business of his mission; but, after a delay of more than two months, on the part of the government, to return a definitive answer to his applieation, he detcrmined, contrary to all the rules of etiquette, to present a memorial himself to the king, at the levec. He first made the minister comut de Vergennes, as well as doctor Franklin, the American envoy, aware of his intention, and, notwithstanding the urgent entreaties of the latter, carried it into effeet. The king, however, received the memorial graciously , and matters werc soon arranged in a satisfactory manner. The consequences of his sueeessful boldness in this affair were all-important for the Ameriean cause, which would have been, perhaps, irretrievably ruined by any further procrastination. An account of the transaction, from the pen of the seeretary of the mission, is to be found in the American Quarterly Revicu, vol. i, p. 425.
Lauriston, James Alexander Bernard Law, count de, grandson of the celebrated projector Law, was born in 1768. Hc cmbraced the military professionat an early age, and served in the artillery, in which lie obtained a rapid promotion, owing to his own aetivity, and to the friendship of general Bonaparte, whose aid-de-eamp lie was, and who employed him on several
important missions. Hc commanded, in 1800, in quality of brigadier-geueral, the fourth reginent of flying artillery, at La Fère. In 1801, he was chosen to convey to England the ratification of the preliminaries of peace, and was received with enthusiasm by the people of London, who took the horses from his curriage, and conducted him, in trimmph, to Downing strcet. He served in every campaign of importance in Spain, Germany and Russia. In 1809, he penetrated into Hungary, and took the fortress of Raab, after a bombardment of eight days. July 6 , lie decided the victory in favor of the French at the battle of Wagram, by coming up to the charge, at full trot, witli 100 pieces of artillery. In 1811, he was appointed ambassador to Petersburg. The object of his mission was to obtain the occupation of the ports of Riga and Revel, and to exclude English ships from the Baltic. This mission having failed, M. de Lauriston was employed in the Russian campaign, and, after the taking of Moscow, was sent with proposals for an armistice to the emperor Alcxander; which were rejected. After the disastrous retreat from Moscow, he commanded the army of observation on the banks of the Elbe, and, during three montlis, defended that river witl a small force, preventing the enemy from penetrating into Hanover. He fought with great valor at the battle of Leipsic, but, being taken prisoner, was conducted to Berlin, where he was treated with favor and distinction. After the conclusion of the general peace, Louis XVIII created him a knight of St. Louis, grand cordon of the legion of honor, and captain-lieutenant of the Gray Muskcteers. After March 20,1815 , he fullowed the king's houschold to the fronticrs of France, and then retired to his estate of Richecourt, near La Fère, without mingling in any of the transactions of the hundred days. On the return of Louis, lie was nominated president of the electoral college of the department of L'Aisne, lieutenant-general of the first division of royal foot-guards, and member of the commission appointed to examine into the conduct of such officers as had served from March 20 to July 8, 1815. He was created a comınander of St. Louis in 1816, and presided, in the course of the same year, at the trial of admiral Linois, count Delaborde, \&c. In 1823, he was appointed marshal, and commanded the second corps de réserve of the arny in Spain. He died in 1828.

Lausanne, capital of the Pays-de-

Vaud, a Swiss canton, has 1300 houses, with 10,000 iuhabitants; lon. $6^{\circ} 45^{\prime} 30^{\prime \prime}$ E.; lat. $46^{\circ} 31^{\prime} 45^{\prime \prime} \mathrm{N}$. It is most beautifully situated about a mile from the lake of Geneva. Lansame lies high, with the lake and snowy Piedmontese Alps in front, whilst the shore of the lake is covered with vineyards. Since 1536, there has been an acarlemy at Lausanne, which, in 1806, was elerated to an acalemical institute, with 14 professors and a rectur. It has works in gold and silver, printingoffices, and some trade in wine; but its chief profits are derived from the numerous foreigners who resort to it from all countries on accomnt of its charming situation, or to perfect themselves in Frencli. Lausanne has a societé d'emulation, societies for natural history and agriculture, and a Bible society. Formerly the city belonged to Berne, whosc bailifir lived in the episcopal palace. The bishop transferred his residence to Freiburg, when Lausanne embraced the Calvinistic religion. Maller, Voltaire and Gibbon resided here for a considerable period.

## Lausirz. (Sec Lusatia.)

Lauter. (Siee Kaisersluutern.)

## Lava. (Sce Volcanoes.)

Lavalette; the name of sevcral individnals distinguished in French history, of whom we shall mention only two, the subject of this article and that of thic fol-lowing.-Jean Parisot de Lavalette, the 48th grand-master of the knights of Malta, was born in 1494, of an ancient family. Lavalette, manimously elected grandmaster in 1557, showed himself equally active and wise as head of his order and as a general. His ambassadors were admitted, at the council of Trent, among those of the most powerful monarchis. He restored the internal organization of his order, but distinguishcd himself particularly by the heroic defence of Malta against Soliman II, who attacked it with a force of 80,000 men, and whom he forced, after a siege of several months, to retire, in 1565, with a loss of more than $20,000 \mathrm{men}$. He then built the fortress La Valetta in Malta, refused the cardinal's hat, and died in 1568. (See Malta.)

Lavalette, Marie Chamans, count de, was born at Paris, in 1769, of obscure parents. Ilis mother was a nurse, often employed by the fanous accoucheur Bandelocque, who, percciving the pronising talents of the youth, furnished her with the means of giving him an education far superior to his birth. Young Lavalette was destined for the clerical profession, and wore the habit of an abbe for some
tine, but afterwards took to the study of the law. The revolution, in 1789, gave another direction to his ambition. He became an officer in the national guards, and in August, 1792, defended the Tuileries. He afterwards served in the army of the Rhine and that of Italy, with such distinction, that he rose rapidly. Bonaparte inade him his aid-de-camp, intrusted hin with his secret correspondence, and gave him in marriage Mlle. Beauharnais, the niece of Joséphine. He accompanied Bonaparte to Egypt, and, soon after the establishment of the consular government, was made count, and a commander of the legion of honor. In 1814, he was removed from the post-office; but when Louis quitted Paris, in 1815, he repaired to the office, in company with general Sebastiani, and summoned his successor, M. Ferrand, to surrender his place, only allowing him a few minutes to collect his papers, but, at the same time, treating him with great politeness. He then took measures to accelerate the progress of Napoleon, and conducted himself with extraordinary vigilance and activity. For these services he was created a peer of France (Jıne 2), and continued in his office till the return of the king. In the month of November following, he was brought to trial, and condemned to death as an accomplice of Napoleon. His appeal and application for pardon having failed, preparations for his execution on Thursday, December 21, were making, when his wife. having obtained pernission to visit him, came, on the 20th, in a sedan chair, and dined with him, attended by leer daughter and the governess. Abont seven in the evening, the two latter appeared at the keeper's lodge, apparently supporting Madame Lavalette, who was closely muffled up, held a handkerchief before her eyes, and exhibited every symptom of the profoundest distress. After a few minutes, the keeper of the prison repaired to Lavalette's apartment, where he found Madane Lavalette in his place. He set his turnkeys and keepers in motion, but, in spite of their aetivity; nothing was found but the sedan chair, in which the young daughter had taken the place of her father, who had suddenly disappeared at the Quai des Orfévres. The jailer was then removed and confined, the barriers were elosed, and expresses were sent in every direction, with the description of Lavalete's person, who contrived to lie closely concealed for a fortnight, in spite of the vigilance of the police, during which time he meditated on the most effectual method of
completing lis escape. He had recourse, for that purpose, to three EnglishmenMessrs. Bruce and Hutchinson, and sir Robert Wilson, who were already known for their zeal in support of the principles of liberty, and for their hostility to the tyranny exercised by the Bourbons. By means of these gentlemen, he procured the uniform of a general officer in the British service, and repaired, January 7, at half past nine at night, to the apartments of cuptain Hutchinson. The next morning, at seven o'clock, he got into a cabriolet with sir Rohert Wilson, passed the barriers without being recognised, and arvived the following day at Mons, where his guide took leave of him. He then took the road to Munich, where he found an asylum among powerful friends and connexions. Irritated by his escape, the government had the cruelty to retain his wife for some time in prison, because she had been accessary to the escape of her husband-a treatment which disordered her senses, and she has since been a confirmed lunatie. Lavalette was pardoned, and returned to France in 1821.

Lavater, John Gaspar, was born in 1741, at Zurieh, in Switzerland, where his father enjoyed the reputation of a skilful physician and good citizen. The severity of his mother somewhat depressed the mind of the boy, who was endowed with a lively imagimation, and he early gave himself up to solitary reveries. While yet at sehool, he was persuaded that he had received direct answers to his prayers. His imagination, even at that early period, appears to have been so actively employed, that he never acquired muoh knowledge of philology or classical antiquity. In 1763, he travelled, in company with Fuseli-afterwards a distinguished painter in London-to Leipsic and Borlin, and becane acquainted with the scliolars and theologians of Northern Germany. In 1764, he retumed to his native city, and, in 1767, appeared as a poet in lis Schweizerlieder, which, as well as his Aussichten in die Evoigkeit (1768), gained hine many admiress. In 1769, he was appointed one of the ministers at the orphan church at Zurich. His sermons were rendered attractive by their pleasing style. his enthusiastic zeal, and a certain mysticism which always characterized him. They were printed in 1772 , and were admired even in forcign countries. All his activity was, in fact, devoted to the service of religion, until he undertook his work on physiognomy. Lavater had become acquainted with a great number of
persons, and his lively imagination had led hinn to the conclusion that therc exists a much greater connexion between the internal man and the extcrial expression in the face than is generally supposed. He reduced this external cxpression of disposition and character to a systen, and considered the lines of the countenance as sure indications of the temper. He had adopted this idea in 1769, and collected the features of distinguished people from all parts of the world. His great work (in four volumes, 4to.), under the modest title Physiognomical Fragments ( 1775 et seq.), made him known all over Europe. It was rendered valuable by the numerous portraits it contains, mostly well executed by some of the first engravers of Germany. Lavater liad added explanations, in a poetical style, full of enthusiastic exclamations. As may easily be imagined, a theory so novel found warm admirers, whose zeal often rendered it ridiculous, and Lichtcnberg satirized it in his Essay on Cues and Tails-onc of his most suecessful compositions. Lichtenberg's exclamations on the coutour of a lig's tail, or a bappily-adjusted cue, equal the raptures of Lavater viewing the plysiognomy of an Alexander. According to Las Cases, Napoleon declared hiinself convinced, by long experience, that no reliance was to be placed on the expression of the face-an opinion which is perhaps true to a greater extent in respect to talents than disposition. Lavater himself seems to have given up his theory in a great degree. (See Physiognomy.) He published several other works, including poems and works of religious instruction, and his reputation becance so great, that his journeys resembled triumphs. He refused better appointments in foreign countries, and became minister at St. Peter's church in Zurich. During the revolution, he spoke with boldnessagainst the new order of things, the Swiss directory, \&c., and was finally transported to Bàle, in 1796. He was again set at liberty, but, on the capture of Zurich (Sept. 26, 1799), by Massena, while occupied in the street, assisting the distressed, and giving refreshment to exhausted soldiers, he received a slot in his side.* He lingered above a year, during whiel he wrote several

* According to Raoul-Rochette's Histoire de la Révolut. Ifelvétique (Paris. 1322), ncither a Russian nor a Frenchman was his murderer: "Le crime appartient tout enties" à la fureur des partis; et Lavater qui connaissait son assassin, emporta duns la tombe cet horrible secret orec tous les autres secrets de sa belle ume et de son inspuisable charite."
works, and died January 2, 1801. Lavater was one of the most virtuous of men, so that a biographer says of him, "Had le lived in early times, lic would now he adored as a saint, because every thing which the church requires from a saint he had in perfection-charity, love of mankind, and murelaxing zeal in the cause of Clirist." He did much for practical theology. Lavatcr owed little to learning, but drew chiefly from limself. His work on Plysiognony has been several times translated into English. Of the English translations, we may mention Hunter's (Loud., 1789, 5 vols. 4to.) A valuable Freuch cdition appearcd in 1809 (Paris, 10 vols.).

Lavexder ; a dclighitfully fragrant plant, native of the south of Europe, and now commonly cultivated in our gardens. All the labiate plants are aromatic and stimulating, but these properties are more cxaltel in this plant than in any other of the tribe, especially when it grows in a warm and sunny exposure. Indeed, in such situations, it sometimes contains onc fourth of its weight of camphor. To the abundance of this plant is attributed the superiority of the loney in certain parts of Europe. The volatile oil, distilled water, and tineture of lavender, are much einployed in officinal preparations, and as perfumes. The flowers yicld by far the greatest proportion of oil.

Lavinia; a daughter of king Latinus and Amata. She was betrothed to her relation, king Turnus, but, because the oracle ordered her father to marry her to a foreign prince, she was given to Nneas, after the death of Turnus. (See Latinus.) At her husband's death, she was left pregnant, and, being fearful of the tyramy of Ascanius, lier son-in-lave, she fled into the woods, where she brought forth a son, called Eneas Sylvius.

Laviviens, or Lavinum; a town of Italy, said to have been built by Æneas, and called in honor of Lavinia, the founder's wife. It was the capital of Latium during the reign of Eneas.

Lavoisier, Anthony Lawrence, a celebrated French chemist, whose name is connected with the antiphlogistic theory of chemistry, to the reception of which he contributed by his writings and discorcrics. He was horn at Paris, August 16, 1743 , and was the son of opulent parents, who gave hiin a good education. He acquired an intimate knowledge of the physical sciences, and first distinguished himself by a prize memoir on the best methorl of lighiting the streets. Two years after, in 1768 , lic was chosen a nember of the
academy. About this time, he published enveral tracts, in periodical works, on the analysis of gypsum, the crystallization of salt, the congelation of water, on thunder, the aurora borcalis, \&cc. Journeys to differcnt paits of France furnished him materiats for a mineralogical chart of the lingdom, intended as the basis of a work on the revolutions of the globe, and the formation of the strata of the earth, outlines of which appeared in the memoirs of the academy for 1772 and 1787. The discoverics of Black, Cavendish, Macbride and Pricstlcy, relative to the nature of clastie fluids or gases, attracted the notice of Lavoisier, who entered on the same field of inquiry, with all his characteristic ardor in the cause of scienec ; and, possessing the advantage of a considcrable fortuic, he conducted his experiments on a large scalc, and obtained highly intercsting results. In 1774 appeared his Opuscules chymiques, comprising a general view of what was then known relative to gaseous bodies, with sevcral new experiments, remarkable for their ingenuity and accuracy. Doctor Priestley's discovery of what he called dephlogisticated air, afterwards generally termed oxygen gas, furnished Lavoisier with a fresh subject of research; and, in 1778, he published an essay on this substance, and its influence in the production of acids, developing the principle of a new chemical theory. This was further illustrated by his experincuts on the composition of water, by burning together the oxygen and lyydrogen (q. v.) gases, and by its analysis affording the sume principles; and the system was completed by lis theorics of combustion (q. v.) and oxidation (see Oxygent, the decomposition of atmospheric air, his doctrinc of caloric ( $q . v$. ), and its influence in causing the solid, liquid and gaseous states of bodies; and the whole theory was laid before the public in lis Elements of Chemistry, which appeared in 1789, and was speedily translated into English and other languages. (See Chemistry, and Chemical .Nomenclature.) M. Lavoisier rendered many services to the arts and sciences, both in a public and private capacity. When the now systen of waghts and incasurcs was brought forward, he contributed to its improvement by some novel expcriments on the expansion of metals. He was consulted by the national convention as to the best method of mannfacturing, assignats, and securing them from being forged. In 1791, the oommittee of the constituent assembly applied to him for infornation preparatory
to the adoption of an improved system of taxation, in consequence of which he drew up' a work, which was published under the title of Richesses territoriales de la France, relating to the production and consumption of the country. About this tinne, he was appointed one of the commissioners of the national treasury-an office which afforded lim an opportunity of exercising lis spirit of systematic arrangement. His housc became a vast laboratory; the most skilful artists were employed to construct the necessary instruments and apparatus for his philosophical researches. He had conversazioni at his housc twice a week, at which were discussed the theories, opinions and discoveries of learned contemporaries. With other farmers-gencral, he was condemned to death by the revolutionary tribunal of Paris, on the charge of being a conspirator, and of laving adulterated the tobacco with ingredicnts obnoxious to the health of the citizens, and, on this frivolous pretext, was beheaded by the guillotine, May 8,1794 . When he found his fate incvitable, he petitioned for a few days' respite, in order to make some intercsting and important experiments which he had in view; but this favor was denied him. M. Lavoisier married, in 1771, the daughter of a farmer-general, a lady of agreeable manners and considerable talents, who not only participated in her husband's philosophical researches, but also cultivated the arts with great success, and engraved with her own hand the plates for one of his publications. She subscquently becamc the wife of count Rumford.

Lavora, or Terra di Lavoro; a principality of Naples, bounded north by Abruzzo Ultra and Abruzzo Citra, east by Molise and Principato Ultra, south by Principato Ultra and the gulf of Naples, and west by the Mediterranean and the Campagna di Roma; about 140 miles in length, and 33 wide where broadest. It is populous and fertile, yielding abundance of corn, wine, oil, and other productions of Italy. Anciently it was called Campania; in the middle ages, the Castellany of Capua. Caserta is the capital; Gacta the principal port. Pop., 625,500; sq. miles, 1696.

Law. (See Appendix to this volume.)
Lavo Merchant. (Sce Commercial Laze.)
Law of Exception (in French, loi d'exception). When the situation of a state is so critical that the ordinary powers and laws are no longer considered sufficient, cxtruordinary and morc energetic meaus are cmployed. The Romans had a form for such all cmergency, which in-
vested the two consuls with a greatly augmented power-" Videant consules, ne quid respublica detrimenti capiat (Let the consuls see that the republic rcceive no injury);". and if this was not sufficient, they appointed a dictator. The remedy was often worse than the disease. Despotic governments require no laws of exccption; in thesc the public power is always free from the restraints which are imposed upon it in constitutional states. In the latter, certain cases happen in which the power of the government must be strengthened, to be able to act with energy and promptuess. In England, the first and most important regulation, in such an emergency, is the suspension of the habeas corpus act for a limited time. The govermment can then take into custody suspected and dangerous persons, without following the regular process of law. This suspension is not a prerogative of the crown, but can only be granted by parliament, and for a limited period, at tlie expiration of which all such state prisoners must be released, or subjected to a formal examination. Even then, the suspension does not protect the ininisterial officers against the demands for indemnification for an unjustifiable arrest. These complaints, when made against the ministers of the king, arc usually comprehended in a separate act of parliament, called the indemnity bill, at the discussion of which in parliament, the opposition party is careful to institute a strict examination of the use which the ministers lave made of their extraordinary power. A second regulation of this kind is the alien bill (see Alien Bill), which invests the government with a power over all foreigners dwelling in England, such as does not constitutionally belong to it, giving the right not only to order them out of the country at pleasure, but also to send them to any part of the continent. Bills of pains and penalties, which are admissible in single cases, constitute a sort of law of exception. Parliament maintains the right to pass such bills, which could not belong to it under a correct division of public power, and thus to punish individuals without a judicial sentence. This is to be distinguished from its proper judicial functions, by which the peers of the realm, the house of lords, act as the highest court of justice, and the house of commons comes forward as complainant (as in the case of governor Hastings). There the lords sit formally as a court of justicc; a full judicial hearing is granted to the defendant, and his condemnation cannot be pronounced except by a
majority of 12 roices (the number of the jury in usual cases). In these cases, the house of lords alone decides upon the motion of the commons, and wholly withont the concurrence of the king, whose right to pardon is even circumscribed. But when an individual bill of attainder, or hill of penalties, is brought forward in parlianent, then the introduction of the act may take place in the house of lords as wcll as in the honse of commons; and no peculiar legal process is followed, but it depends on the pleasure of cach house how the facts, upon which the summary sentence is grounded, shall be proved; and it is only from considerations of natural justice that opportunity is granted to the accused to defend himself. The sentence itself is passed by a simple majority of voices in each house, like other laws ; but it must be sanctioned by both loouses of parliament, and the assent of the king must be obtained, as in any other law. In fixing the punishment, also, parliament is amenable to no established rule, and the right of the king to pardon wholly ceases, if he has once given his consent. Such a proerss has always something very odious on the face of it, and, in point of fact, it is very rarely resorted to. Thomas Wentworth, earl of Stafford, the celebrated confidential minister of Charles I, was condemned to death by this form, and it was equally criminal and impolitic in the king to give his consent to this bill of attainder. The same process was introduccd against the queen, in 1820, and, wholly independent of her guilt or innocence, this was a sufficient reason for rejecting it. In the U. States, no such legislative power exists, either in the state or in the national legislature. It is contrary to the genius of a republican government. The constitution of the U. States declares, that "No bill of attainder, or ex post facto law, shall be passed ;" that "the privilege of the writ of habcas corpus shall not be suspended unless when, in cases of rebellion or invasion, the public safety requires it." So, also, except in cases of impeachment, every person accused of a capital or infamous crimc (except in the navy or army servicc) has a right to a trial by jury, and cannot even then be tried, unless upon a presentment or indictment by a grand jury. Such are the privileges guarantied by the constitution of the U. States. And the state constitutions generally embrace the same protective principles. There is also another principle recognised in the constitution of the U. States, which is of great importance. It is the provision, that
"excessive hail shall not be required, nor excessive fines imposed, nor cruel and unusual punishments inflicted;" so that, while the present republican constitutions of government cxist in America, there can be no such thing as a dictatorship, or a law of exception. In France, tliere was no occasion for laws of exception before 1790; the lettres de cachet (q. v.) answered all purposes. The parliaments, if they opposed the royal mandates, and prevented their publication, which consisted in entering them in the register of parliament, were at last brought to obedience by a royal session, or lit de justice, or by exile to some obscure place; or, if their resistance was obstinate, they were dissol ved, as in the last years of Louis XV. But after the struggle for legal order, from want of moderation on both sides, had degenerated into a furious confliet of parties, the laws of exception were often really necessary, though often used merely as instruments of faction. We do not here refer to illegal, thongh perhaps necessary, measires (coups $d^{\prime}$ 'itat) adopted in extraordinary eases, such as the dissolution of the legislative body on the 18th Fructidor, 1797, the abolition of the tribunate, 1807, \&e. But the suspension of the constitution (even the democratical), by the committee of public safety, in 1793, and the rendering the revolutionary tribunal permanent, were genuine latws of exception. The regular administration of the laws was promised by every new government, bit, down to the revolution of 1830 , the promise was not fulfilled. The liberty of the press was repeatedly restrained, and the regular course of justice perverted by special tribunals. One of the most remarkable laws of exception was that of Mareli 3,1810 , respecting the state-prisoners, by which the ancicut lettres de cachet were again introduced in almost full force. It was required, indecd, that a warrant of the minister of justice, and a mandate of the privy council, should precede imprisomment, which was to continue no longer than a year; but a regulation, like the habeas corpus act in England, was wanting to enforce the performance of these conditions. Under the reign of Louis XVIII, also, numerous laws of exception were enacted, although the cliarter (art. 8th) declared, "The French have the right of publishing and printing their opinions, provided they conform to the laws against the abuses of the press." By repeated laws of exception, the censorship was extended not only over the political, but often even over the literary,
journals. The assassination of the duke of Berry, in particular, was made the pretence for restricting the liberty of the press, for investing the ministers with authority to confine persons suspected of crimes, or of criminal designs against the king, the state, and the royal family, without a judicial process. These laws were to continue to the end of the session of 1820. The law concerning the censinrship was renewed in the session of 1820, and till three inonths after the commencement of the session of 1821 ; but the law relating to the imprisonment of suspected persons was tacitly abolished. The last laws of exception in France were the famous ordinances of July, 1830, which resulted in the overthrow and expulsion of the Bourbons.

Lavo of Nature, and of Nations. (See National Law, and Natural Law.)

Law, Edward, lord Ellenborough. (See Ellenborough.)

Law, John ; a celebrated financial projector, the son of a goldsmith of Edinburgh, in which city he was born in 1681. He was bred to no profession, but became versed in accounts, and was employed in those of the revenue. For the purpose of remedying the deficiency of a circulating medium, he projected the establishment of a bank, with paper issues, to the amount of the value of all the lands in the kingdom; but this scheme was rejected. In conscquence of a duel, he fied from his country, and visited Venice and Genoa, from which cities lie was banished, as a designing adventurer, but, at length, secured the patronage of the regont rluke of Orleans, and establishcd his bank in 1716, by royal authority. It was at first composed of 1200 shares of 3000 livres each, which soon hore a premium. This bank became the office for all public receipts, and there was annexed to it a Mississippi company, which had grants of land in Louisiana, and was expected to realize immense sums by planting and commerce. In 1718, it was declared a royal bank, and the shares rose to twenty times their original value. In 1720, Law was made comp-troller-general of the finances; but the shares sunk in value as rapidly as they had risen. He was obliged to resign his post, after he had held it only five months, and to retire, first to a seat in the country, and then, for personal safety, to quit the kingdom. He carried with lim a small portion only of the vast fortune he at one time possessed, and lived afterwards in great obscurity. After visiting England, Holland, Germany, and other countries,
he finally settled at Veniee, where he died in 1729, still occupied in vast schenıes, and fully convinced of the solidity of his system, the failure of which he attributed entirely to enmity and panic. Various opinions have been entertained of the inerit of lis project; and by some it has been thought to have possessed feasibility, lad it been carried more moderately into practice.

Law, William; a divine of the chureh of England, born at Kingeliffe, in Northamptonshire, in 1686, edueated at Emanuel eollege, Cambridge, where he was eleeted fellow. On the accession of George I, refusing to take the oaths, he vacated his fellowship, and left the university. He then officiated as a curate in London, and as tutor to Edward Gibbon, father of the historian. Mrs. Hester Gibbon, aunt of the same eminent individual, and Mrs. Elizaheth Hutchinson, forined a joint establislunent, of which he became a member, at his native village of Kingcliffe, where he died in $\mathbf{1 7 6 1}$. The writings of Mr. Law, although in many respects excellent, partake of a gloominess and severity, tinged with a mystieism and entlusiasin, that the study of the writings of Jacob Böhme did not fail to increase. The Serious Call to a Devout and Holy Life, is deemed, both by doetor Johnson and Mr. Gibbon, one of the niost powerful works of derotion in the English language, as is also his Practical Treatise on Christianity, which abounds with satire, spirit, and knowledge of life. He also wrote some other works, and published translations of his favorite Böhne. (See his Life, by Tighe, and Gibbon's Memoirs of himself.)

Lawreice, sir Thomas, a distinguisherl English portrait painter, was born at Bristol, in 1769 . His father was an inn-keeper, and the artist very early exhibited proofs of his talent for the art: he is said to have sketched portraits very successfully in his fifth year. At the age of six, he was sent to school, where he remained two years; and this, with the exception of a few lessons subsequently, in Latin and French, constituted his whole education. His father would not even permit him to be instructed in drawing, declaring that his genius would be cramped by the restraint of rules. Young Lawrence, however, had aecess to the galleries of some of the neighboring gentry, in which he employed himself in copying historical and other pieces. In 1782, his father removed to Bath, where his son was muclı employed in taking portraits in erayon; and, having made a copy of the Transfiguration, by Raphael, the society of arts bestowed on
him their silver palette, in consequence of its merits. During six years, he was the sole support of his father and a large family. In 1787, the family removed to London, andLawrence was admitted a student at the royal academy. His subsoquent eareer was surcessful and brilliant. He was elected royal associate in 1791, and, on the death ofsir J. Reynolds, the next year, was made painter to the king. His reputation grew steadily, and he was soon considered the first portrait painter of the age in England. His scene from the Tempest was a successful attempt at historieal painting; but that braneh of the art receives too little encouragement in England, in comparison with that of portrait painting, to induee a successful artist, in the latter department, to cultivate the former. In 1815, he was knighted hy the prince regent, who also employed lim to take the likenesses of the sovereigns, and the most distinguished persons of their suite. During their visit to England, he finished the portrait of the king of Prussia, and went to Aix-la-Chapelle, several years afterwards, to paint Alexander; thence he went to Vienna, where he completed the portraits of the emperor, the archdukes, Metternich, \&cc., and, in Rome, painted Pius VII and cardinal Gonsalvi. On his return to England, he was eleeted president of the royal academy, as successor to West. (q. v.) This office he held till his death, which occurred suddenly, Jan. 7, 1830. His portraits are striking likenesses, and display a bold and free pencil; but they are, particularly his later ones, chargeable with mannerism, and are not considered to be successful in expressing the nicer shades of character. In his drawing, there is a want of accuracy and finish. His income, for the last twenty years of his life, was from $£ 10,000$ to $£ 20,000$; but he died poor, owing to his zeal to possess the first-rate produetions of his art, whieh he purchased at any price. The personal appearance of sir Thomas Lawrence was striking and agreeable. His countenance bore a marked resemblanee to that of Canning, and he was always pleased when this resemblance was observed. He was studious in dress, and went beyond the limits of correct taste in this partieular. A look of settled melaneloly was always upon his features, and there was a restlessness in his manner that bespoke an unquiet spirit.
Lawrence, James, a distinguished American naval commander, was born at Burlington, New Jersey, in 1781. He early manifested a strong predilection for
the sea; but his father, who was a lawyer, was anxious that he should pursuc his own profession; and, when only 13 years of age, he conmenced the study of the law; but after the death of his father, he entered the navy as a midshipman, in 1798. Ir 1801, the Tripoli war having eommenced, he was promoted, and, in 1803 , was sent out to the Mediterranean, as the first licutenant of the schooner Enterprise. While there, he performed a conspicuous part in the destruetion of the frigate Philadelphia, which had bcen captured by the Tripolitans. In the same year, he was invested with the tennporary cominand of the Enterprise, during the bombardment of Tripoli by commodore Preble, all the ships of the squadron being employed to cover the boats during the attack; and so well did he exccute his duty, that the commodore could not restrain the expression of lis thanks. He remaincd in the Mediterranean three years, and then returned with Preble to the U. States, having previously been transferred to the frigate John Adams, as first lieutenant. In June, 1812, war was deelared between Great Britain and the U. States, and Lawrence, at the timc in command of the Hornet, a few days afterwards sailed with a squadron under the orders of commodore Rogers, for the purpose of intercepting the Jamaica fleet. They returned, however, at the end of the following month, to Boston, without having been able to aceomplish their object. Lawrence then aecompanied commotore Bainbridge on a ernise to the East Indies; but they separated near St . Salvador, on the coast of Brazil, the Hornet remaining there to blockack a British slip of war, laden with specie, till compelled to retire by the arrival of a seventy-four. Feb. 24, 1813 , the Homet fell in with the brig Peaeock, captain Peake, whieh she took after a furious action of 15 minutes. This vessel was deemed onc of the finest of her class in the British navy. In the number of her men and guns, she was somewhat inferior to the IIornet. She sunk before all the prisoners could be removed. The latter was considerably damaged in the rigging and sails, but her hull was scarcely hurt. Lawrence returned to the $\mathbf{U}$. States, where he was welcomed with the applause due to his eonduct ; but the most honorable eulogy bestowed upon it, was contai!eci' in a letter, publislied by the officers of the Peacock, expressing their gratitude for the consideration and kindness with which they had been treated. Shortly after lis retum, he was ordered
to repair to Boston, and take command of the frigate Chesapeake. This he did with great regret, as the Chesapeake was one of the worst slips in the navy. He had been but a short time at Boston, when the British frigate Shannon, captain Brooke, appeared before the harbor, and deried the Chesapeake to combat. Lawrence did not refuse the challenge, although his slip was far from being in a condition for action; and, June 1, 1813, he sailed out of the harbor, and engaged his opponent. After the ships had cxchanged several broadsides, and Lawrence had been wounded in the leg, he called his boarders, when he reccived a musketball in his body. At the same time, the enemy boarded, and, after a desperate resistance, succceded in taking possession of the ship. Almost all the officers of the Chesapcake were either killed or woundcd. The last exclamation of Lawrence, as they werc carrying him below, after the fatal wound, was, "Don't give up the ship." He lingered for four days in intense pain, and expired on the 5 th of June. Ie was buried at Halifax, with every mark of honor.

Lawrence, St.; a Roman deacon, and martyr, who, when his bislop, Sixtus, was led to dcatl, cried out, "Whither dost thou go, father, without thy son ?" The bishop ordered him to remain, and to take eare of the trcasures of the church; but he was arrested, and ordered to give up, these treasures. He asked for three days' respite, during whielı he called together all the poor and siek, whom he showed to the satellites of the emperor, as those whose support sccurcd treasure in heaven. The instrument of his martyrdom was a gridiron, on whieh he was burned to death, in 254. (See Escurial.) His day, in the Catholic ehrurch, is August 10.

Lawrence, St. This river, one of the largest in the world, is the outlet by which the waters of the great lakes Superior, Huron, Michigan, Erie and Ontario are poured into the ocean through the gulf of St. Lawrence. In different parts of its eourse, it is known by different names. From the sea to lakc Ontario, it is called St. Lawrence; but the name Cateraqui, or Iroquois, is sometimes applied to the part between Montreal and lake Ontario. Between lakes Ontario and Erie, it is called Niagara river; between lakes Erie and St. Clair, Detroit river ; between lakes St. Clair and Huron, St. Clair's river ; between lakes Huron and Superior, St. Mary's river, or the Narrows, forming thus an uninterrupted connexion of up-
wards of 2000 milcs. It is navigable for ships of the line to Quebec, about 400 miles, and to Montreal for ships of 600 tons, 580 miles. The distance from Montreal to lake Ontario is 190 or 200 miles. The tide flows up as far as Three Rivers. Its breadth between Montreal and Quebec is from half a mile to four miles; the average breadth, about two miles. Below Quebec, it gradually widens, till it enters the gulf, where, from cape Rosier to the Mingan settlement, on the Labrador coast, it is about 105 miles in breadth. The country through wlich it flows, from the lake to the gulf, is generally fertile, and much of it well cultivated, and rapidly improving ; on both sides, the prospect is delightful: numerous villages, for the most part built round a handsome stone church, invite the traveller's attention, while single houses and farms appear at agreeable distances. The river in several places spreads out into large lakes, as lake St. Francis, St. Louis, and Deux Montagnes ; and there are numerous islands, shoals and rapids. From the beginniug of December to the middle of April, the navigation is totally suspended by frost. The breaking np of the ice in the spring is described as a magnificent scene.

La wrence, St., Gulf of ; a gulf which receives the waters of the St . Lawrence, formed between the western part of Newfoundland, the eastern shores of Labrador, the eastern extremity of New Brunswick, part of Nova Scotia, and the island of Cape Breton. It communicates with the Atlantic by three passages,-on the north, by the straits of Belleisle, between Labrador and Newfoundland; on the southeast, by the passage between cape Ray and Newfoundland; and by the gut of Canso, which divides Cape Breton from Nova Scotia. The distance from cape Rosier to cape Ray is 79 leagues; from Nova Scotia to Labrador, 106.

Lay (from the Anglo-Saxon word ley); the name of an ancient elegiac kind of French lyric poetry, formerly much imitated by the English. The lay is said to have been formed on the model of the trochaic verses of the Greek and Latim tragedies. There were two sorts of lays; the greater, which consisted of 12 couplets of verses, in different measures ; and the lesser, comprising 16 or 20 verses. The word lay is now generally applied to any littlo melancholy song or air, and is, for the most part, used in that sense by Chaucer, Spenser, Milton, Waller, Dryden, and other classical English poets.

Laybaci (in Italian, Lubianna; in Illyr-
ian, Lublana); capital of the Austrian duchy of Carniola, the seat of the chief imperial gubernium, in the kingdom of Illyria, for Carniola and Carinthia, also of a prince-bishop, \&c. In ancient times, it was called Emona, and was a considerable city in the Vindelician Illyria. It contains, at present, 866 houses, with 11,500 inhabitants, who speak German, Italian, modern Greek, and French. The lower class speak the Hlyrian-Vindelician dialect, which differs little from the Croatian and Istrian. It carries on considerable commerce with Vienna, Verice, Bavaria, Constantinople. From 1809 to 1813 , it was the residence of the French governor-general of the Illyrian provinces. The city lias become renarkable, of late, on account of the congress holden liere, from January 26, 1821, to May of the same year. In the article Congress, the recent congressional politics, and the consequences of the congress at Laybach, are discussed. This congress forms a conspicuous epoch in the history of politics, as it was here that the right of armed intervention (see Intervention) was regularly proclaimed and received into the national law of Europe. Russia, Austria and Prussia declared that they would never abandon these principles, but the year 1830 made some change in their policy. England declared (Castlereagh's letter, January 19, 1821) that it could not agree to such principles.-See Bignon's Iu Congres de Troppau (Paris, 1821), and the articles Italy, Sicilies, The Two, and Sardinia; see also the article France, History of.

Layman (from the Greek $\lambda a 6$ s, people) signifies, since the third century, every person not a clergyman.-Among painters, it signifies a small statue, whose joints are so formed, that it may be put into any attitude, for the purpose of adjusting the drapery of figures.

Laynez, James, the second general of the Jesuits (q. v.), and the real founder of the policy and organization of the society, was born at Almancario, near Siguenza, in Castile, in 1512. He studied at Alcala. The fame of Ignatius Loyola's religious zeal, and the desire of becoming acquainted with him, and, at the same time, of pursuing his own studies, led Laynez to Paris, where Loyola was then residing, in order to escape the persecution of the inquisition. An intimacy was soon formed between these two zealots, and they determined to go to Turkey, and preach the gospel to the infidels. A war with the Porte defeated this plan; and, while at

Venice, in 1536, they formed the project of establishing a society, the principal aim of which sloould be the cducation of the people in the doctrines of the Roman c:lrurch, and the prevention of the spread of the new opinions. Laynez, more prudent, learned, refined and dexterous than Loyola, had the principal slare in the formation of this plan, and his disinterestedness, his zeal and activity, were the prineipal causes of the success of the new institution. After the order had been confirmed ly Paul III (1540), and Loyola, at the request of Laynez, had been appointed the first general, lie made many journeys for the purpose of extending the society of the Jesuits, and exerted himself, with great activity, in the cause of the pope at the council of Trent. He refused the cardinal's hat, whieh was offered him by Paul IV. In 1558, he suceeeded Loyola, as general of the order. In 1561, he went to France with the cardinal Ferrara, to assist lim in extirpating heresy. Still we must do him the justice to say, that he was the only one at the notorious conference of Poissy, who listened at all to the voice of reason and merey. The establishment of the Jesuits in France, although with some restrictions (see Jesuit), was the result of this journey. After Laynez had assisted in establishing, at the third council of Trent, the supremacy of the bishop, of Rome over the other bishops, lie returned to Rome, where he devoted limself to the direction and extension of his order. He died there January 19, 1565, at the agre of 53 .

Lazaretto ; a public building, hospital or pest-house, for the reception of those afflicted with contagious distempers. It is more partieularly applied to buildings in which quarantiue is performed. (See Quarantine, Plague, Yellow Fever.)
Lazarites, or Fathers of St. Lazarus, in France ; the priests of the mission were so ealled after their priory of St . Lazarus, in Paris. This order, consisting of regular priests, bound by complete monastic vows, was established in 1634, for the purpose of supporting missious ; but, in pagan countries, they have effected less than other orders established for the same purpose. In China, they have still a mission. In France, they survived the revolution, and, in 1816, were restored, hy a royal ordinance, to their original destination, on account of their services in the care of the country people. Before July, 1830, they distinguished themselves as the most active missionarics, adherents, and informers, in the service of the ultra-party ;
vol. vil.
by means of which party, a portion of their former estates was restored to them. In Poland, where they are called fathers of the mission, they are nost numerous, and lave great influcnce, as teachers in the seminaries and as spiritual censors. They maintain their ancient monasteries, and the backward state of science, in that country, is, in some measure, to be ascribed to their influence. In Spain, also, this order has flourished, though the influence of the Lazarites there has not been so great. Austria has admitted them more recenty.
Lazarus; the name of a leprous beggar mentioned in sacred history. (Luke xri, 20.) The memory of a monk of this name, belonging to the ninth century, is eclebrated by the Roman church (Feb. 21), because neither the threats nor the violence of Theophilus, emperor of Constantinople, could prevent him from painting images of the saints. The former afterwards became patron of the sick, particularly of lepers, and in' Palestine was instituted the order of St. Lazarus, whose members, called knights hospitallers of St. Lazarus of Jerusalem, took care cliefly of persons afllieted with the leprosy. 'Illis disease was spread in Europe by the crusaders; and the hospitals, which, till the thirteenth century, were frequently estabhished for lepers, received the name of lazarettos, whiel, at a later period, was extended to all hospitals. (q. v.)
Lazulite is rarely found in perfect erystals, more often granular, or in pieces not exceeding the size of a lazel-nut. It is somcwhat translucent, of a fine blue color, of different shades; nearly as hard as quartz. Its primary form is a right rliombic prism ; the direction of its eleavages las not been determined ; specifie gravity, 3.05. Before the blow-pipe, it intumesces a little, and assumes a glassy appearauce, where the heat has been highest, but does not melt. It consists of phosphoric acid 41.81, alumine 35.73, nagnesia 9.34 , silex, 2.10 , oxide of iron 2.64, and water 6.06. It is found in uarrow veins, traversing clay-slate, with quartz, in Salzburg.
Lazzaronı; a class of persons in Naples (formerly about 40,000 ), without employment or home, and without any settled means of support, the greatest part of them living for the whole year, both day and night, in the streets and public places. The extreme fruitfulness of the soil, which renders subsistence very easy, the extraordinary temperauce of the inhabitants, the warmth of the climate, and the
indolence which it produces, have given rise to this class of men. The little which is absolutely necessary, they easily pick up, in the capacity of messengers, porters and day-laborers, without hrard work. Hence, in spite of their great number, they are extrennely good-natured and peaceful, and mildly put up with insults and provocations from the other classes. In Naples is found every thing which can make such a life practicable ; hence a lazzarone never leaves the city without the most pressing necessity. The desire of property and of more of the comforts of life, with more industrious habits, was first introduced among these people in modern times, under the reign of Joseph Bonaparte, when they were employed in making excavations, \&c., and received part of their pay in domestic utensils and furniture, that they might become accustomed to a home. They were also collected in villages, where it was intended to educate their children. The police regulations of king Joachim (Murat) also contributed to improve their condition. The lazzaroni consisted at first principally of sick persons from the lowest class, who, after leaving the hospitals, retained their wretched clothes, and were lience called lazzaroni, as being under the protection of St . Lazarus.

Lead is a metal very anciently known; it is often mentioned by Moses. Its alchemical name was Saturnus. It has a bluish-gray color, and, when recently cut, a strong metallic lustre; but it soon tarnishes from exposure to the air; specific gravity, 11.358. It is soft, flexible and inelastic. It is malleable and ductile. In tenacity, it is inferior to all ductile metals. It soils paper and the fingers, imparts a slight taste, and emits, by friction, a peculiar smell. It is a good conductor of heat, melts at $612^{\circ}$ Fahr., and, when cooled, slowly crystallizes in quadrangular jyramids. It is but slowly affected by the atmosphere at common temperatures; but, when maintained in a state of fusion, it absorbs oxygen rapidly, and is converted into a dull-gray dross or powder. When this dross is heated to a low ignition, it becomes of a dull-yellow color, and is called common massicot; and, by a higher heat and longer exposure to the air, it assumes a deeper yellow, and is then called massicot. This is the protoxide of lead, and consists, in 112 parts, of 104 lead and 8 oxygen. It is insoluble in water, melts at iglition, and is unchanged by heat in close vessels. When it contains about four per cent. of carbonic acid, it is called litharge. It unites with acids, and is the base of all
the salts of the lead. If the protoxide, or metallic lead, be subjected, during 48 hours, to the heat of a reverberatory furnace, it passes to the condition of red oxidc, or what is commonly called minium, or red lead. This is regarded by doctor Thomson as a inixture of the protoxide and deutoxide of lead. After the protoxide is separated by acetic acid, the deutoxide, of a dark red color, reniains. Its composition is, in 116 parts, 104 lead, 12 ogygci. The peroxide of lead is formed by passing chlorine gas through a solution of acetate of lead. Its color is brown. Heated moderately, especially witl the addition of sulphuric acid, it gives out oxygen, and bocomes deutoxide, and at a cherry-red heat it passes to the state of the protoxide $: 120$ parts contain 104 of lead. Lead forms a compound with chlorine, as it is supposed at present, in the ratio of 104 of the former to 36 of the latter. The union is cffected by cxposing the metal in thin plates to the action of chlorine gas, or, more casily, by adding muriatic acid, or a solution of common salt, to the acetate or nitrate of lead dissolved in water. This chloride fuses at a temperature below redness, and forms, as it cools, a semi-transparent, horny mass, sometimes called horn lead, or plumbum corncum. It bears a full red lieat in close vessels without subliming. The pigment called nineral, or patent yellow (also fused sub-nuriate of lead), is a compound of the chloride and protoxide of lead. It is prepared for the purposes of the arts by the action of moistened sea-salt on litharge, hy which means a portion of the protoxide is converted into chloride of lead. It is a paint little used, however, in consequence of the preference given to the chrome yellow. An iodide of lead is easily formed by mingling a solution of hydriodic acid, or hydriodate of potassa, with the acetate or nitrate of lead dissolved in water. It is of a rich yellow color, and is deposited from boiling water on cooling, in crystalline grains of a brilliant lustre. Lead combines with sulphuric phosphorus. The sulphuret may be made by simply heating lead and sulphur together, or by the action of sulphurcted hydrogen on a salt of lead. It is an abundant natural product, and is known under the name of galena in mincralogy. The phosphuret of lead is formed by dropping phosphorus into melted lead contained in a crucible, or by leating equal parts of lead filings and phosphoric glass with one eighth of charcoal powder. It breaks into lamince, and is composed of 88 lead, 12 phosphorus. As respects the uses of
metallic lead and the oxides, it is well known that the former is much employed in the arts, particularly for buildings and cisterns. For the first of these uses it has many advantages. It is easily worked into any shape, on account of its great sofincss, and is sufficiently malleable to fold two edges over each other, so as to make it water-tight, without soldering. This is a very great advantage; since, when picces are soldered together, the expansion and contraction, by a change of temperature, soon cause a rupture. Although it is in very general use for water cisterns, pumps, and pipes for conveying water, serious objections have, from lime to time, been urged against its employment for this purpose. Doctor Christison has fomud that, in pure water, it is oxidized with considerable rapidity, carbonate of lead being formed by the action of the oxygen and carbonic acid of the air. But if the water, as is the casc with the majority of springs, contains a small proportion of saline matter, especially if a sulphate be present, which never fails to precipitate lead from any of its solutions, the liability of the water to be prejudiced by the lead is very small. And in other cases, there can be no danger in delivering water through aqueducts of lead, provided they are constantly kept full of water, so as always to exclude the air. Great mischicf has bcen produccd by the use of lead in dairies. If the milk runs into the slightest acidity, some lead will be dissolved, and injurious consequences will follow if it is taken into the stomach. In the granulation of lead for shot, a small portion of arsenic is added. The proportion is about 2 per cent. of the white or ycllow arsenic. The compound is heated red-hot for 3 hours in an iron pot, protected by a tight cover, when the contents are let fall into a reservoir of water, from a height of 10 to 150 feet, as the shot are to be coarser or fincr. One part of tin and two of lead form an alloy fusible at $350^{\circ}$ Falir., which is used by timnen under the name of soft solder. Lcad also forms an imperfect alloy with copper. The metal used for comnon brass-cocks is an alloy of these two metals. The union of these two metals, however, is exccedingly slight; for, upon cxposing the alloy to a heat no greater than that in which lead melts, the lead almost cntirely runs off of itself. This process is called eliquation. Of the oxides, the mixture of the protoxide and deutoxide, which forms the red-lead, is of considerable importance as a pigmcnt. Its manufacture in Gerinany is conducted
as follows: 180 pounds of lead are calcined for cight hours upon the hearth of a cupola furnace, and, being constantly stirred, it is then left in the furnace for 16 hours, and only stirred at intervals. This calcined lead, or massicot, is ground in a mill with water, washed on tables, and, being dried, is put into stone pots, of such a size, that 32 pounds fill them somewhat more than one quarter full. Several of these pots are laid horizontally in the color furnace, so that the flame may go quite round them, and a piece of brick is put before the opening of each pot. A fire is kept up in this furnace for about 48 hours, and the matter in the pots stirred every half hour. The process being over, the red-lead is passed through a sieve. In this operation, 100 pounds of lead generally increase 10 pounds in weight. Red-lead is also made from litharge, by heating it in pots in a reverberatory furnace. The salts of lead have the protoxide, as has before been remarked, for their base, and are readily distinguished by the following general characters :-1. The salts which dissolve in water usually give colorless solutions, which have an astringent, sweetish taste; 2. placed on charcoal, they all yield, by the blow-pipe, a button of lead; 3. ferroprussiate of potash occasions in their solutions a white precipitate; 4. sulphureted hydrogen and liydrosulphurcts produce a black precipitate; 5. a plate of zinc a white precipitate, or metallic leaf. Most of the acids attack lead. The sulphuric docs not act upon it unless it be concentrated and boiling. Sulphurous acid gas escapes during this process, and the acid is decomposed. When the distillation is carried on to dryness, a saline white mass is produced, a small portion of which is soluble in watcr, and is the sulphate of lead; it affords crystals. The residue of the white mass is an insoluble sulphate of lcad. It consists of 5 acid and 14 protoxide of lead. Nitric acid acts strongly on lead. The nitrate solution yields by evaporation tetrahedral crystals, which are white, opaque, and of a specific gravity of 4. They consist of 6.75 acid, and 14 protoxide. A subnitrate may be formed by boiling in water equal weights of the nitrate and protoxide; also by boiling a solution of 10 parts of the nitrate on 7.8 of metallic lead. Acetic acid dissolves lead and its oxides; though probably the access of air may be necessary to the solution of the metal itself by this acid. White lead, or ceruse (see Ceruse), is made by rolling leaden plates spirally up, so as to lcave the space of about an inch be-
tween each coil, and placing them vertically in earthen pots, at the bottom of which is some good vinegar. The pots are covered, and exposed for a length of time to a gentle heat in a sand-bath, or by ledding them in dung. The rapor of the vinegar, assisted by the tendency of the lead to combine with the oxygen which is present, corrodes the lead, and converts the external portion into a white substance, which comes off in flakes when the lead is uncoiled. The plates are thus treated repeatedly, until they are corroded through. Ceruse is the only white used in oil paintings. Commonly, it is adulterated with a mixture of chalk in the shops. It may be dissolved without difficulty in the acetic acid, and affords a crystallizable salt, called sugar of lead, fron its sweet taste. This, like all the preparations of lead, is a deadly poison. The common sugar of lead is an acetate ; and Goulard's extract, made by boiling litharge in vinegar, a subacetate. The power of this salt, as a coagulator of mucus, is superior to that of the other. If a plate of zinc be suspended, by a thread, in a solution of acctate of lead, the lead will be revived, and form an arbor Saturni. The acctate, or sugar of lcad, is usually crystallized in needlos, which have a silky appearance. They are flat, four-sided prisms, with diledral summits; specific gravity, 2.345. It is soluble in $3 \frac{1}{2}$ tinnes its weight of cold water, and in somewhat less of boiling water. Its constituents are 26.96 acid, 58.71 basc, and 14.32 water. Acetate and subacetate of lead in solntion have been used as external applications to inflamed surfaces, scrofulous sores, and as cyewashes. In some extreme cases of hemorrhage from the lungs and bowels, the former salt has been prescribed, but rarely, and in minute doses, as a corrugant or astringent. The colic of the painters shows the very deleterious pperation of this metal when introduced into the system in the minutest quantities at a time. A course of sulphureted hydrogen waters, laxatives, of which sulphur, castor-oil, Epsom salts, or calomel, should be preferred, a mercurial course, the hot sca-bath, and flectricity, are the appropriate remedies. Dealers in wines have occasionally swectened their acid wines with litharge, or its salts. This nefarious adulteration is at once detected by the use of sulphureted lyydrogen water, which will throw down the lead in tha state of a dark brown sulphurct. burgundy wine, and all such as contain taitar, will uot hold lead in solution, in consequence of the insolubility of
the tartrate. The proper counter-poison for a dangerous dose of sugar of lead is solution of Epsom or Glanber salt, liberally swallowed; either of which medicines instantly converts the poisonous acetate of lead into the inert sulphate. Sugar has been found to nentralize the poisonous action of acetate of lead, and therefore may be regarled as an excellent antidote to it. -We proceed now to sucak of the ores of this metal, and the method of their reduction. 1. There exists but a single ore of lead which ever occurs in sufficient quantity by itself to justify its explora-tion;-that ore is the Sulphurct. (See Galena.) It not unfrequently happens, however, that the veins and heds of this speeios embrace a variety of other ores of lead dispersed through them, which, being mingled with the sulphuret, materially angment the yield of that ore, and which, therefore, require to be noticed, not merely as objects of natural history, but as of value to the miner, who, from their often unpromising aspeet, is liable to overlook thenz among the refuse matters of the mine. In addition to what has already been said of the sulphuret mider the article Galena, we give here a simple mode of assaying a small portion of this ore. Scparate 50 grammes of it as perfectly as possible from the engaging rock, or gangue ; pulverize it, and, mingling it with 12.5 grammes of iron in small pieces (small tacks, for example), introduce the mixture into a Hessian crncible, which, being placed within a second one, is to be expesed to the heat of a windfurnace, or of an ordinary forge, during 15 minutes; it is then removed, suffcred to cool, and broken : a button of lead occupics the bottom of the crucihle, which, on being weighed, makes known the richness of the ore. 2. Curbonate of Lcad, or White Lead Orc, so called from its prevailing color, like all the salts of lead, is perfectly uninetallic in its appearance, and is not unfrequently rejected from among common lead ore, as an carthy mincral. It is both crystallized and massive. The erystals are very oblique four-sided prisms, six-sided prisms variously terminated, acute, double six-sided pyranids, tabular crystals, and twin and macle crystals. They cleave parallel to the sides of a right rhombic prism of $117^{\circ}$ and 63 , which is the primitive form of the species. Lustre adamantine; hardness equal to that of calcarcous spar; brittle; specific gravity, 622. It dissolves with effervescence in muriatic and nitric acids, yields a metallic globule on charcoal before the blow-pipe, and is composed of oxide of lead $8^{2}$, carbonic acid 16 , and
water 2. This species often occurs massive, and intermingled with earth and metallic oxides, and is sometimes tarnished and blackened, so as to be with difficulty recognised. It oecurs in veins in primitive and secondary countries, accompanying galena and other ores of lead. It is pretty abundant in European countries, but has been found very sparingly in the $\mathbf{U}$. States. 3. Sulphate of Lead. Its prineipal crystallizations are an oblique four-sided prism, variously bevelled or truncated, and a broad, reetangular, four-sided pyramid. It admits of cleavage parallel to the planes of a right riombic prism of $103^{\circ} 42^{\prime}$ and $76^{\circ} 18^{\prime}$, its primitive form; lustre shining, adamantine; fracture conchoidal ; translucent; hardness that of calcareous spar ; streak white ; brittle ; specific gravity, 6.3. It decrepitates before the blow-pipe, then melts, and is soon reduced to the metallic state. Its constituents are, oxide of lead 70.5, sulphuric acid 25.75 , water 2.25 . It oecurs, not very plentifully, in the IIartz, Spain, England and Seotland. 4. Mr. Brooke has described, within the few last years, three other varieties of lead ore; one of which consists of 46.9 of carbonate and 53.1 of sulphate of lead; another of 55.8 of sulphate, 32.8 of carbonate of lead, and 11.4 of carbonate of copper; the remaining one of 74.4 sulphate of lead, 18. oxide of copper, and 4.7 of water. These will, doubtless, constitute distinct speeies. 5. Chromate of Lead is of a deep orange-red color; when pulverized, orange-yellow. It occurs crystallized and massive; cleaves parallel to all the planes of an oblique rhonbic prism of about $93^{\circ} 30^{\prime}$ and $86^{\circ} 30^{\prime}$. 'The cross fracture is uneven, passing into conehoidal, with a splendent lustre. It is sonnetimes translucent ; brittle ; specific gravity, 6. When exposed to the blow-pipe, it crackles and melts into a grayish slug. It consists of oxide of lead 63.93 , chromic aeid 36.40 . It las hitherto been found only in Siberiu, where it oecurs in a vein traversing gneiss and mica slate in the gold mine of Beresof, and in a sand-stone near the same place. 6. Molybdate of Lead occurs crystallized in obtuse oetahedrons, variously moditied, and in tabular crystals. It cleaves parallel to the sides of a right square prism, its primary form ; color wax or lioncy-yellow; lustre resinous; translucent; ; liardness below that of calcarcous spar; brittle ; fracture uneven, passing into conchoidal ; specific gravity, 5.0). Before the blow-pipe, it decrepitates; on charcoal, it fuses into a dark-gray mass, in which glolutes of reduced lead are risible. It consists of 58.4 oxide of lead, 38
molybdic acid, and 2.08 oxide of iron. It occurs prineipally at Bleiberg in Carinthia, with other ores of lead. It has also been found, in very small quantity, in the U. States, at Southampton, in Massachusetts. 7. Phosphate of Lead occurs crystallized in the form of a six-sided prism, generally modified on the edges; and, as it cleaves parallel to the sides of the hexagonal prism, the figure is regarded as its primary form; color, shades of green and yellow ; translucent ; lustre resinous; fracture imperfect, conchoidal, uneven; brittle ; hardness equal to that of caleareous spar. Besides occurring in distinet crystals, it assumes globular, reniform, botryoidal and fiuticose shapes. Before the blow-pipe, it melts by itself upon charcoal, and the bead exhibits, in cooling, crystalline facets. It consists of oxide of lead 78.58, phosphoric acid 19.73. In some varieties of this species, arsenic acid is substituted for phosphoric acid. Phosphate of lead is found accompanying the common ores of lead, though rarely in any considerable quantity. Finely crystallized varieties are found at Przibram in Bohemia, at Huelgoet in Brittany, atilLead-hills in Scotland, and at Cornwall in England. In the U.States, it oecurs at the lead mine near Freyberg in Maine. Such are the ores of lead, all of whicl, with the exception of the chromate, are more or less eniployed in furnishing the lead of commerce; but the salts, as lias been remarked above, in very limited quantity, compared with the sulphuret. As the principal thing in the metallurgic treatment of these ores, is to expel the sulphur, aftso pieking and pulverization, they are roasted either in the open air, or in reverberatory furnaces. During this operation, the sulphur volatilizes, and the lead, reduced to the metallic state, or to that of an oxide, runs iuto the basin, or crucible of the furnace, where it is deoxidized by being maintained in contact with ignited charcoal. Thus, by this method, which is that generally adopted, the sulphuret passes at first to the state of an oxide in the reverberatory furnace, afterwards is converted principally into the metallic state, and the remainder is passed into other furnaces, where a renewed heating with charcoal compels it to give up its oxygen, and to assume the condition of perfectly metallic lead. There is another mode of treatment practised in Germany and France to a consideralle extent. It consists in presenting to the sulphur of the ore a substance with which it has a nore powerful affinity than with the lead; this substance
is iron. The workmen commence by melting the ore in a reverberatory furnacc of small size, and when the bath is full, they throw in 28 per cent. of old iron. In a little time, the sulphur passes from the lead to thc iron, leaving the former metal free, which occupies the bottom of the basin. By this means, the same quantity of ore is reduced as in the first described process, with the advantage, too, of a considerable saving of time, and with one half of the labor ; but it is attended with the complete loss of the iron, which, in some districts, however, is so cheap as to be of no consideration. England produces about half the lead of Europe; the Hartz, Austria, Prussia and their dependencies nearly all the remainder. The lead mine of Galena, in Illinois, yielded, in 1829, about 6000 tons of lead.-It is pretty certain that both lead and tin werc emiploycd, in extremely remote ages, in the fabrication of arms, and, above all, in the ormamental parts of them. Homer also alludes to the practicc of putting leaden balls at the end of fisling-lines. The custom of writing, on lead mounts also into very great antiquity. Frontinus and Dio Cassius assure us that the consul IIirtius, besieged in Modena, wrote upon a leaf of lead, respecting his situation, to Decius Brutus, who replied by the same means. Pausanias speaks of certain books of Hc siod written upon sheets of Icad; and, if we may believe Pliny, even public acts were consigued to volumes or lcaves of the same material. The pocts make frcquent allusion to leaden coins. Ficorini, in his Piombi Antichi, has collected and represented a vast number of monuments of this kind. Caylus conceived them to be all Roman; and thus, according to that writer, those even which represent Egyptian divinities, or are inscribed with Greek characters, are yet to be referred to the times of the Roman emperors. Statucs of lead are very rare.

Lead; an instrument for discovering the depth of water. It is composed of a large pieec of lead, from seven to cleven pounds in weight, and is attached, by means of a strap, to a long line, called the lead-line, which is marked at certain distances, to asecrtain the fathoms.To heave the lead, is to throw it into the sea in a manner calculated to produce the desired effect.-Deep-sea lead; a lead of a larger size, being from 25 to 30 pounds weight, and attached to a much longer line than the former, which is called a hand-lead.

Leeva; an Athenian hetara (q. v.), mis-
tress of Aristogiton. Being privy to the conspiracy of Harnodius, and Aristogiton against the Pisistratidx, when examined oin the subject, slie hit off her tongue, that slie might not be able to speak. A statuc was erectal by the side of those of the tyramicides, in honor of her, representing a lioncss without a tongue, by the side of whieh was an inage of Venus, whose priestess she was.
Leaf. As it is impossible to give an entirely satisfactory definition of what is meant by the word plant, or animal, so it has equally defied the exertions of naturalists to give a distinct definition of leaf. Leaves are the part of the vegetable world in which vegetable life manifests itself most strongly. Light and air, which so essentially influence the vegetable kingdom, act chiefly on the leaves; and, in rclation to the air, leaves have been compared to the animal organs of respirationto lungs placed cxternally. They are also organs of nutrition, particularly on the lower surface. The same formation which prevails in the trunk, branches and roots, has been recognised in leaves, only that what in the former is annular and concentric, in the latter is spread out over an extended plane surface. The spiral vessels and sap vessels, which are obscrvable in the lcaf-stalk, are also partly to be traced in the Icaf, and form the ncres and veins, which may be considered as the skeleton of the leaf. The spaces between them are filled with a cellular substance, covcred by a soft, yet firm cuticle. The ccllular substance and the cuticle are differcnt on the upper and the lower surfaces; and, however various the form of the leaves, much conformity always exists in this respect, and is intimately connceted with the life of the plant. The cellular substance is particularly filled with sap, generally of a green color. The cells of the upper surface are commonly disposed lengthwise; those of the lower surfuce, breadthwisc; both commonly destitute of sap. The pores, which are generally only on the lower surface (except in plants whose leaves lie on the water, or close on the ground), serve to transmit the air to the internal parts of the plant; hut in some plants they are not disernible, even in some of the more perfect kinds, particularly if the sap is not green. The leaf changes whatever passes through it into the , lant from without, or from the plant ; and so essential is the influence of light upon segetable life, that the gascous substances given out by plants, in the sun, or in the shade,
or by night, are chemically different. Sound and green leaves, in the sun, cxhale oxygen and absorb carbonic acid gas; but by night, or in the dark, they give out carbonic aeid gas, and absorb oxygen from the air: sickly plants, and those whose lcaves are not green, do this in the sun. The green color, the almost universal hue of plants, is so intimately connected with light, that young plants do not begin to assume this color until they come iuto the light. The importance of leaves to plants is shown by the fact that no plant can grow, nor form blossoms, nor fruits, if deprived of leaves. When fruit lias arrived at a certain degree of maturity, it may, indeed, be ripened more rapidly by depriving the plant of its foliage; but this only proves a diseased state. The fine hairs with which leaves are covcred, and which sometimes become bristles, contribute considerably to the exhalation and absorption of air and moisture; so that a plant often owes its nourishment to the atmospliere more than to the ground; and many plants exhale much more aqueous matter than, on the highest estimation, they can reccive from the ground. The leaves, morcover, have often an important part in the secretion of oily or other substances. There are whole orders of plants, consisting almost entirely of leaves, as certain mosses, heaths, and others, in which the leaf gives place almost entirely to the stem, so that an intermediate formation between the two is presented, as in the cactus, euphorbia, stapelia, \&cc. In many cases, the leaf proceeds only from the joints of the stem, as in the grasses; and, in this case, it retains much of the nature of the stem. No part of the plant is capable of such an immense variety of forms as the leaf, the deseription of which would exceed our limits. The leares form an inportant characteristic in the subdivision of plants. They are divided into simple and compound, the latter class consisting of those in which several leaves are supported on one footstalk; and their various suldivisions are formed on the form 1. of thic apex; 2. of the base; 3. of the circumference ; 4. of the margin; 5. of the surface: 6 . out their position; 7. their substance ; 8 . their situation and position ; 9. their insertion ; 10. their direction. The lobe of a lcaf is the segment around the apex.-We will add here some interesting items of a memoir on the strueture of leaves, read quitc lately by M. Adolphus Brongniart, before the academy of sciences at Paris. The author states that the leaves of plants that live in the air have a
totally different strueture from those that are completely submerged, and that this difference in the structure of organs is in direct relatiou to the two principal functions of leaves-respiration and transpiration. In lcaves exposed to the air, the surface of the leaf is covered by an epidcrinis of uncertain thickness, formed of one or more layers of colorless cetlulcs, closely packed together. This membrane is pierced with the pores usually known by the name of stomata. The doubts that have been entertained of the existence of perforations in these stomata, M. Brongniart thinks he has removed, and that it is certain that, in the ecntre of each stoma, is an opening by which the outer air communicates with the parenchyma. The parenchyma is evidently the seat of respiration; for it is the part that changes color in exercising this function, which becomes grecu by the absorption of the carbon of the carbonic acid of the atmosphere, and which is discolored again, in darkness, by the combination of the carbon of its juices with the oxygen of the air. This parenchyma differs entirely from that of other organs, by the numerous irregular cavities that it contains, which communicate with each other and the outer air by means of the openings of the stomata. It is into these cavities, in the cavernous parenchyma of aërial leaves, that the atmospheric air penetrates, when it is absorbed by the surface of the utricles of the pareneliyma, that are distended with the fluids whieli seem to nourish the plant. According to M. Brongniart, aquatic leaves, if submerged, differ in being completely destitute of epidermis. It is not alone stomata that they want, as has long been known, but the epidermis also. There arc none of the cavitics that abound in the parenchyma of aërial leaves, but, on the contrary, the cellules of the tissue are compactly fastened together, without any interstice, and the air, dissolved in the water, call only act on their outer surfaee. For this reason, the proportion borne by this surface to the whole mass of the leaf, is unusually great. The leaves, from want of epidermis, dry up quickly when exposed to the air, and can only exist in water, or a very humid atmosphere. Hence the author concludes that the epidermis is destined to proteet aërial leaves against too rapid evaporation, and the stomata, or pores, of this epidernis become necessary to maintain a communication between the atinosphere and the parenchyma.

League; a incasure of length, containing more or fewer geometrical paces,
according to the different usages and customs of countries. A sea league contains 3000 geometrical paces, or three English miles. The French league sometimes contains the same measure, and, in some parts of France, it consists of 3500 paces. The mean or common league consists of 2400 paces, and the little league of 2000 . Twenty common Spanish leagues make a degree, or $69 \frac{1}{2}$ Enghish statute miles. The German league (meile) contains four English geographical miles. The Persian league is also equal to four such miles, pretty near to what Herodotus calls the length of the Persian parasang, which contains 30 stadia, eight of which make a mile. (Sce Mile.)
Leagee. Those political connexions which have been called alliances, since the Frencli language has bccome the fashionable language of Europe, were denoted, during the prevalence of Spanish and Italian influence, from 1500 to 1650, by the term league (from the Spanish word liga). To some alliances this term is more distinctly applied. Among these are the league of Cambrai, formed, in 1508, between Louis XII, king of France, the German emperor Maximilian, and Ferdinand of Spain, for the purpose of humbling the republic of Venice, and which was joined, in 1509 , by pope Julius II. This league was dissolved in 1510, as many similar ones have been, in consequence of mutual distrust, and was succeeded by the liga santa, or holy league, between the pope, Maximilian, Ferdinand and Venice. The object of this was to compel Louis XII, whose allies had now become his enemies, to renounce his conquests in Italy; which object was gained. This was the first example of a holy league, which name was derived from the participation of the pope. Thirty years afterwards, a holy league was formed in Germany. For when the principal Protestant princes in Germany united, in 1536, to form the union of Smalkalden, in order to protect their common faith, and withstand the emperor Charles V, the Catholic princes assembled at Nuremberg, in 1538, to take measures for the support of their own faith, and to oppose the designs of the Protestant princes; and, as their league had the protection of the Catholic church for its object, they termed it the holy league. A fourth league, also, called the Catholic, was formed by Henry, duke of Guise, in 1576, against Henry III of France. Its ostensible object was the support of the Catholic religion; but the duke of Guise hadl further views of his own. As Henry

III was without male heirs, the thronc, at his death, would pass to the Protestant prince Henry of Navarre; to exclude whom, and to obtain the throne for hiinself, were the real objects of the duke of Guise. His great popularity seemed to render the accomplishment of his design easy. The example given by Paris in lis favor was followed by all the provinces. The league was sanctioned by the pope and the king of Spain. In 1588, the duke of Guise was murdered at Blois, with his brother Louis, the cardinal, at the king's instigation. The leaguc then declared the throne vacant, and named the third brother, Charles, duke of Nayenne, gov-ernor-general of the kingdom. IIenry III now sought relief in the camp of his former encmy, Henry of Navarre. Ie was there assassinated in 1589 . The war was then pursued by the league against Heury of Navarre, till it was ended, in 1594, by his uniting himself to the Catholic church; and the next ycar the league was dissol ved. We find a fifih league, in Germany, in the seventeenth century, also terined Catholic. The peace of 1555 had not sufficiently restrained the Protestants, and had taken too much from the Catholics. Both partics regarded each other with distrust. The one was accused of encroachments; the other, of unreasonable pretensions. As Henry IV of France was ready to support the Protestant princes in any manner, for the purpose of humbling the house of Austria, these princes, cxcited by the injuries inflicted upon the Protestant town of Donauwerth, assembled in 1608, to form a union for their protcction. Tha Catholic princes now took the same steps as after the union of Sinalkalden: their association (1610) was also hastened by the disputes respecting the succession of JuliersCleves. The principal German princes laid claim to the possessions of Johm Willian, duke of Juliers-Cleves-Berg, \&c., who had died, in 1609, without heirs. Henry IV supported the Protestant princes: a league was therefore formed, by the Catholic princes, at Wurtzburg, in 1610, at the head of which was Maximilian, duke of Bavaria. The unexpected death of Henry IV prevented their coming at once to action; but the union and the league kept up a vigilant opposition to each other till the breaking out of the 30 years' war. The head of the union, Frederic, elector-palatine, became king of Bohemia; and then the two parties took the field. An accommodation was at last effected at Ulm, July 3, 1620, by means of the united French, Spanish, Austrian
and Bavarian influence, in which the union gave up the Bohemian cause, and, after the inperial arms had become victorious in Bolemia, the union was wholly dissolved in 1621. The designs of the Catholies were so well supported by the duke of Bavaria, and his general Tilly, at the head of the troops of the league, that nothing but the interference of Gustavus Adolphus saved the Protestant princes.
league of the Princes. (See Confederation of the Princes.)

Leander. (See Heto.)
Lease. A lease is a demise of lands or tenements, or permission to occupy them for life, or a certain number of years, or during the pleasure of the parties making the contract. The party letting the lands or tenencuts is called the lessor; the party to whom they are let, the lessee; and the compensation or consideration for the lease, the rent. There is a great difference in the habits and usages of differeut commmities, as to the modes of ocenpying lands, and the usual intercst and title of the oecupants. A gireat part of the cultivated territory of Europe is occupied ly lessees, and rents constitute an iminense proportion of the income of persous living upon profits, as distinguished from those who depend partly or wholly upon the fruits of their own labor; so that, in all cconomical speculations in Europe, in regard to agriculture and the profits of lands and tenements, as distinguished from other species of property and income, the lands are always spoken of as leing occupied by lease-holdcrs; whereas, in the U. States, though the tenements in the large towns are usually occupied by lease, and, in the country, many farms are cultivated by those who have only a temporary interest in the soil, yet a great part of the territory is in the possession and occupaney of the proprietors. The general liabit and prejudice is in favor of the oecupant possessing the fee, and if his capital is not adequate to an independent and unincumbered ownership, he generally prefers to purelase, though he mortgages the land assecurity for the purchaseinoney, rather than to hire. This mode of occupying would seem to excite a much more general disposition towards permanent improvements, since the person making then las not only in view the inmediate advantage of the increase of products, but also the remote advantage of the increase of the value of the estate. Where leases prevail, however, it is the policy of the proprietors, as well as tenants, to extend the terms to long periods,
and thus to give the parties a joint interest in improvements. The state of agriculture, in many parts of Europe, where the system of leases prevails, shows that this system is not so uufriendly to improvements in cultivation as to prevent agriculture from being lrought to great pertection under it. But still, all things elsc being equal, it is quite evident that the: proprietor himself will have the strongest motives to a mode of cultivation which adds to the permanent value and produetiveness of the soil. It does not, however, follow, that occupancy and cultivation by proprictors are, on the whole, to be prefierred, in all possible states of the arts, population and wealth of a community. The prevailing occupancy by proprietors has the necessary effect of dividing the territory into small farms; the preference of oue system or the other will, therefore, depend partly upon the kind of production carried on; for there is no doubt that some species of cultivation can be conducted more effectually, and so as to yield the greatest aggregate of products, if they are conducted on a large scale. In all kinds of industry, whether agricultural, commercial or manufacturing, a great saving may be made, and greater results produced by the same labor, by combining the operatives in a large system. This is undoubtedly promoted by the system of leaseholds, since the wealthy are thereby induced to invest their capital in lands, as the safest property, and yielding the inost secure income. The result will be, that the territory will be owned and leased in large tracts. This is the reason why the leasehold system, instead of checking the progress of agriculture, probably, on the whole, contributes to it, notwithstanding the fact that a lessce, though for a long term, has less interest in increasing the permanent productiveness and value of the soil, than the proprietor himself. There is, however, one disadvantage in the leasehold system, and a corresponding advantage in small proprictaries, as the former creates a population of mere laborcrs, called cottagers in England, and peasants in the rest of Europe, who, in general, depend wholly upon their wages for subsistence, and who naturally becoine very numerous, in proportion to the demand for their labor, so that, by their competition for employment, their wages become reduced to the means of a bare subsistence. The labor in which they are employed is the rudcst, and requires the lcast skill and previous instruction of all the differeut species, excepting, perhaps
fishing. The consequence is, the raising a great population, of a rude, uncultivated character, without property, and with very little self-respect or consideration with the rest of the community, and who finally become detached from the rest of the society, and have no arenue of escape from thcir humble condition, so that all generous emulation and enterprise dic away from among them. It is true, that this class is not usually a restless, turbulent or dangerous part of the comnunity ; and it is convenient, perhaps, to those who do not happen to fall within it. But those who desire to see human nature only in a condition of existence adnitting of moral and intellectual culture, and whose philanthropy makes them wish that the whole population may participate in the general inass of intelligence, knowledge and accomplishments, as equally as is practicable, would prefer that no such class should exist as a distinet body, for preeisely the samc reason that they would not wish to see any part of the population reduced to servitude. A division of the territory into sinall proprietarics, and a consequent infusion, through the mass, of a desire of saving, and of possessing something, and the stimulus afforded to cuterprise, by opening to every individual, cren the lowest, access to the next higher class, excites an independence of spirit, an energy and activity, whereby the character of thic people is elevated. But whatever may be, abstractly, most desirable, the condition of the various mennbers of the community is governed, in a great degree, by the operation of cconomical causes, the influence of which cannot be controlled. The power to lease will necessarily depend upon the extent of the lessor's estate in the land or tenement to be leased. A proprietor who has only a life-estate can, of course, lease his property only during lis life. This is the ease with a great part of the landed estates of Europe, the very object of entailments, and other limitations, being to secure the property against alienation, and against incumbrances to the prejudice of the heir or successor to the inleritance; and yet, if the incumbent could not make a lease for a certain time, it would be a great abridgment of the value of the estate to himself, as well as to his successor. The laws, therefore, provide, that certain proprietors of estates for life may lease, on certain terms, for any time not exceeding a certain period, as 21 or 40 years. The laws of the U. States contain very few legislative provisions on this subject. The Eng-
lish common law makes a distinction as to the dignity of leasehold estates, which, in many eases, does not correspond to their comparative value and inportance, the maxim being, that a life-estate, being a freehold, is greater, or of more dignity, than a lease for ever so many ycars, as a hundred or a thousand. A freehold is real estate; whereas a lease is but a chattel interest, though the term may be longer than the longest life. The laws prescribe certain forms for the conveyance of real estate, requiring it to be by deed. These regulations extend also to leaseholds, usually requiring that a lease for more than a certain number of years, as three or seven, shall be in writing. A mere oral lease is binding for a slorter period; and when there is no speeified period of occupancy, the term is understood to be determined either by the agreement for the payment of rent, as a tenement, held oul condition of paying a monthly rent, is understood to be let for the term of a month at a time. or it is determined by the nature of the estate leased, as a farm is, in a mere verbal lease, understood to be let for one year, this being the shortest time for which it is supposed the parties would intend to contract. So it is held in England, and probably the same rule is law in the U. States, though the decisions in some of the states seem to imply, that the letting is also, in this case, determined by the period of payment of rent. But it can hardly be presumed that the parties conld intend that the tenant should plough, and plant, and pay rent, and then quit. Leases usually stipulate that, in case of failure to pay rent, the lessor may enter and expel the tenant. As to notice to quit, if the lease be for a ccrtain time, no notice to quit at its expiration is necessary; but if the tenancy be at will, or by sufferance, it can be determined by either party only at the end of the term for which the contract is construed to run; and the party intending to terminate it at the end of any term, is bound to give previous notice of such intention. The general rule, in this respect, is that of reasonable notice ; but what is reasonable is subject to diverse intcrpretation. Though a lease is terminated, yet the tenant may enter afterwards, to harvest the crops of the fields planted by him before the expiration of his lease. The landlord has one privilege over other creditors of the tenant, in respect to his rent, having a right to distrain chattels on the premises, to enforce and secure payment of it. This remedy exists in England and some of the U.

States, but in other states, the landlord has no preference over any other creditor, in respect to any property whatever of the tenant. A question has been much discussed, and the subject of frequent adjudieations, as to the right of the tenant, at the expiration of his lease, to remove fixtures erected by him on the leased premises. The old doctrine was, that whatever he attaclied to the land, or freehold, became thereby a part of the real estate, and that he had not, accordingly, any right to remove it at the expiration of the terin. This doctrine was first relaxed, in England, in favor of trade, as it was expressed, meaning, however, industry in general; and, on this principle, a very liberal construction was put upon the tenant's right to remove, at the end of his term, any erections put up by him, for the purpose of carrying on his business, whatever it might the. For this purpose, however, thicse fixtures must be such that they may le removed without injury to the estatc. Things incorporated with the frechold, as repairs put upon a building, remain a part of the real estate, and the tenant has no right to remove them, as they thus become the property of the landlord, although the tenant may have been under no agrcement or obligation to make the improvement. The right of the tenant, in this respect, is still more liberally construed in the U. States, and there seems to be no reason why he should not have the liberty of erecting any works or buildings on the promises, or removing them at the expiration of his term, provided he can do so without any injury to the estate ; and the tendency of the decisions is towards the establisliment of this doctrine.
Leather. (See Tanning.)
Lebanon, or Libanus, aid Antilibanus; two parallel ridges of mountains in Syria, bounding Palcstine on the north. The highest summit of Lebanon is 9600 feet. The cities Saida (the ancient Sidon) and Tarabolus (Tripoli in Syria) are situated at its basc. In the parts of the mountain near the latter city, there are a few specimens remaining of the cedars of Lebaron, which the Phæenicians used in their naval architecture. (See Larch.) Antilibanus, or the northern part of the range, is inhabited by the Mutavelis; the southern, by the Druses. (See Druses.)

Lebanon, New ; a post-town of Columbia county, New York; 7 miles W. Pittsfield ; 27 S. E. Albany; population, sce $U$. States. It is situated on the turnpike, between Pittsfield and Albany. The village has a pleasant, picturesque situation,
and is well built. Here is a spring of considerable celebrity, issuing from a high limestone hill, so copiously that the quantity amounts to 18 barrels in a minute. The water contains some lime in solution, but differs very little from very pure mountain water, except by its remarkable temperature, which is that of $73^{\circ}$ Falir, not varying perceptibly at any season. The spring is kept in constant ebullition by a copious emission of azotic gas. It is useful in salt rheums and various other cutaneous affections. The waters are used without injury for all domestic purposes. On the western side of the mountain, opposite to the spring, two miles and a half distant, is a neat village of Shakers, containing about 500 inhabitants. The houses are on a street about a mile in length, and are painted of an ochre yellow. (See Shakers.)

Lebrun, Charles, born at Paris in 1618, first painter to the king, was the son of a statuary of ordinary talent. As early as lis third year, le sketched with coal, and, at 12 years old, painted a portrait of his grandfather, which is not considered the worst of his paintings. He studied with Vonet, and soon surpassed not only all his fellow pupils, but also his master. After lis return from Rome, where, under Poussin, lie had studied principally the works of Rapliael, and the remains of ancient art, he received the order of St. Michael, and, in 1648, was made president of the new royal academy of painting and sculpture. He was also nanied prince of the acadcmy of St. Luke, in Rome. From 1661, he was principally employed in embellishing the residences of Louis XIV and his nobles with works of art, and in superintending the brilliant spectacles of the court. He embellished Versailles, in particular, and was also director of the royal Gobelin (q. v.) manufactory. With the death of Colbert, lis influence declined. He died in 1690. Lebrun possessed a comprehensive genius, which was cultivated by the incessant study of history and national customs. Few painters liave so well understood the human character, and the expression of the passions. This appears from his treatises Sur la Physionomie, and Sur les Caractères des Passions. In invention, he equalled the greatest artists who had preceded lim. He combined a correct judgment with a lively imagination and facility in exccution. He aimed at the highest accuracy of detail, consulting the remains of antiquity, books and learned men, on the minutest subjects. His weak point in painting was his coloring, particularly of flesh.

Lebrun, Ponce Denis Ecouchard, a celebrated poet, who, during his life, rcceived the appellation of the French Pindar, was born in 1729, and became secretary to the prince of Conti. At the age of 26 , he had taken his place in the first rank of lyric poets. At the revolution, he celebrated the birth of frecdom in odes and epigrams ; but, as the prospect darkened, he changed his tone, and, in 1793, deplored, in harmonious verses, the fate of his country,oppressed by tyrants and anarchists. When the academical establishments were reorganized, Lebrun became a member of the institute. He received from Bonaparte, when consul, a pension of 6000 francs. He died September 2, 1807.

Lebrus, Charles François, duke of Placentia, descended from an liumble family in the vicinity of Coutances, came, at an early age, to Paris, where he obtained the protection of M. de Maupcon, whose secretary he became, after having been tutor to his children. He is said to have composed, in 1770, the speech which that gentieman defivered during his dispute with the parliannents. Being nominated deputy to the states-general (1789), he occupied himself, during the sessiou, with affairs of police, finance and domestic administration. When the question of the ehurch property was discussed, he maintained that it would be an act of injustice to divest the ccelesiastical bodies of their possessions, though he admitted that some reform was neressary and expedient. In August, 1790, he voted for the preservation of the Frencli academy, and, in September, he appcared at the tribune, to deliver an opinion against the emission of assignats ; but he could not procure a hearing. In 1795, he was elected to the council of elders, and becane secretary to that body in January, 1796, and president in the February following. In November, 1799, he approved of the now system of government, and was appointed third consul in December. In 1803, the third class of the institutc, of which he had continued to be a member from its first formation, chose him their president. He was nominated arch-treasurer of the empire in 1804, and, in 1805, governor-general of Liguria, and created duke of Placentia. On the retreat of Loutis Bonaparte from the throne of Holland, Napolcon confided to M. Lebrun, under the title of governor-general, the administration of that comntry, from which the events of 1813 obliged him to retire. On his retum to France, he signed the constitution that recalled the house of

Bourbon to the throne, and was sent to Cacı in the quality of commissioner extraordinary. On the 4th of June following, he was created a peer of France by the king, and, in the begiming of July, was appointed president of the first bureau of the chamber of pecrs. After the return of Napoleon, he accepted the peerage from him, and likewise the place of grand-master of the university. By this proceeding M. Lebrun rendered himself incapable of sitting in the new chamber of peers, formed in August, 1815. In the early part of his life, he published, in prose, a translation of 'Tasso's Jerusalem, more remarkable for its elegance than its fidelity. A nev edition of this work appeared in 1805, with an account of the life of Tasso, by Suard (2 vols. 8vo.). He also made a prose translation of Homer's Iliad (3 vols., 8vo.), which has frequently been reprinted. He died in 1824.
Lecin ; a river rising in the Vorarlberg, and emptying into the Danube. It give, its name to the Lechfeld, a plain in Bavaria rendered famous by the defeat of the Huns (q. v.), by Otho I, in 955.
Lector (reader), in the carly church; a servant of the clurch, whose business it was to read parts of the Bible, and other writings of a religious character, to the people. They were consecrated by prayers and ceremonies for this office, and, when their office became extinct, the consecration still remained; so that the lectorship now forms onc of the inferior orders. Lectors are mentioned by Justin Martyr, in the second century, and appear to have been proper officers of the church in the third century. In Germany, it teacher of modern lauguages in a university is called lector, if lee is not a professor.

Leda, according to some authors, the daugliter of Thestius, a king of Atolia, according to others, of Glaucus and Laophonte or Leucippe, was the wife of the Spartan king Tyndarus. In order to enjoy her, Jupiter changed himsclf into a swan, or, as some say, into a goose, in which form he is represented with her in a picture from Herculaneum. By him she had Pollux and Helen, and by Tyndarus Castor. According to other authors, Jupiter first changed her into a goose, and aftcrwards himself into a swan, which was the reason why Leda brought fortl an egg, from which Pollux and Helen sprang. Other traditions say that Jupiter changed himself into a swan, and caused Venus to pursue him in the form of an eagle, when he took refuge in Leda's bosom. During a deep sleep, which
fell upon her at this moment, he gratified his desirc. Others relate that Nemesis changed herself into a goose to cscape the pursuit of Jupiter. Slie then brought lomti an egg, whieh he caused to be carried by Mercury to Leda, who carefilly preserved it until Melen was produced therefrom. Again it is said that Leda brought forth two eggs, one by Jupiter, and another by Tyndarus. From the former sprang Pollux and IIclen; from the latter, Castor and Clytemnestra. Of these different accounts, that has obtained the preferenee, which makes Leda, after having had communication with Jupiter in the form of a swan, to have given birth to Castor and Pollux (Dioscuri).
Ledger Lines; those lines which are added above or beneath the five composing the stave, for the reception of such rotes as are too high or too low to be placed upon or within it.

Ledyard, John, a cclebrated traveller, was born at Groton, in Connecticut, in 1751. He lost his father at an early age, and his mother was left with but scanty means for the education of four children. To her he was indebted for counscls that made an indclible and most salutary impression on his heart. At the age of 19, he went to Dartmouth college, in order to qualify himself to become a missionary among the Indians. At the college, lie acquired knowledge with ease, manifested morc indocility than diligence, and had not been there quite four months when he suddenly disappeared without the knowledge of any one. He is understood to have wandered to the borders of Canada, and among the Six Nations, with whose language and manners he formed an acquaintanee, which was afterwards of mucli service to him in his intercourse with savages in various parts of the globc. Nearly four months clapsed before he returned to his college, and, soon after, in consequence of some reproof for breach of discipline, he resolved to escape altogether. On the margin of the Commecticut river, lie felled a large tree, and fashioned its trunk into a canoe, in which he procceded down the river to Hartford, a distance of 140 miles, nnuch of his coursc lying through a wilderness, and, in several places, being obstructed by dangerous falls. Ledyard then applied himnself to the study of divinity, hut, failing in obtuining a license to preach, he tumed sailor. His first voyage was to Gibraltar, where, being struck with a military parade, lic eulisted, "thinking the profession of a soldier well suited to a

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man of honor and cnterprise." The British commanding officer released lis Hew recruit, who, at the expiration of a year, canie back to New London, but soon afterwards embarked for England, in the hope of obtaining assistance from some wealtly relations there. After working his passage, as a sailor, to Plymouth, he remained destitute of means, and reached London by begging on the road; but, having presented himself at the house of a Ledyard, as an American cousin, he was so coolly received, that his dreams vanished, and his pride prevented him from ever renewing the attempt. Captain Cook was then preparing for his third and last voyage round the world. The idea of accompanying him struck Ledyard with so much force, that he at once enlisted in the British marine service, and soon contrived to gain an introduction to captain Cook. "His manly form," in the words of Mr. Sparks, " mild, but animated and exprcssive eye, perfect self-posscssion, a boldness not obtrusive, but showing a consciousness of his proper dignity, an independent spirit, and a glow of enthusiasm giving life to his conversation and his wholc deportment-these werc traits which could not escape so discriminating an eye as that of Cook. They formed a rare combination, peculiarly suited to the hardships and perils of his daring enterprise. They gained the confidence of thic great navigator, who immediatcly took him into his service, and promoted him to be a corporal of marines." He embarked accordingly, and performed the whole voyage, of which he published an interesting aecount some time afterwards at Hartford, in Connecticut. In this volume, he ascribes the murder of captain Cook, in a great degree, to his rashness and injustice towards the natives of Owhyhce. For two years after the return of the expedition to England, Ledyard remained in the British navy; but nothing further is known or him, in that situation, than that he refused to serve against lis country. In 1782, he made his way home, and took lodgings at Southold, with his mother, who kept a boarding house, and by whom he was not recognised, after an absence of eight years. We find him soon afterwards at L'Orient, whither he had gone in order to carry into effcet his plan of a voyage to the Pacific ocean. At L'Orient, the principal merchants of the place actually furnished him a vessel of 500 tons; but when he was on the point of setting out, the voyage was cutirely abandoned by its
patrons, in consequenee of some misunderstanding with the governinent. He then went to Paris, where he eoncerted a scheme with the famous Paul Jones (q.v.) for aceomplishing his objeet, whieh was also frustrated, and, after making other anxious and fruitless efforts, he gave up altogether the idea of reaehing the North-west Coast by sea, and applied to the empress Catharine of Russia, through the medium of Mr. Jefferson, then Ainerican minister in Paris, for permission to pass through her dominious, having come to the resolution of travelling by land through the northenn regions of Europe and Asia, crossing over Behring's strait to the Ameriean continent, and pursuing his route down the eoast, and to the interior. After waiting, however, for an answer from the ezarina for more than five months, he aeeepted an invitation from London to embark in an English ship, whieh was in readiness to sail for the Pa eifie ocean, and of whieh the owners undertook to have him set on shore on the North-west Coast. After forming his plan, whieh was warmly entered into by sir Joseph Banks and other distinguished men of seienee, and whieh was to land at Nootka sound, thenee strike direetly into the interior, and pursue his course to Virginia, he embarked with nos other equipinent than two dogs, an Indian pipe, and a hatehet. He now thought himsclf secure of his object; but the vessel was not out of sight of land before it was brought baek by an order from the goverminent, and the voyage was finally relinquished. Bearing up with wonderful fortitude against these reverses, he next deternined to make the tour of the globe, from London east, on foot, and proeeeded to St. Petersburg in the proseeution of this design, through the most unfrequented parts of Finland. In that eity, his letters procured him eminent acquaintances, among whom professor Pallas and count de Ségur proved his chief patrons. After waiting there nearly three months, he obtained his passport for the prosecution of his journey to Siheria. On his arrival at Yakutsk, he was prevented, by the Russi:n commandant at the plaee, from proceeding any further; and at Irkutsk, whither he had returned, he was arrested as a French spy, by an order from the enupress, hurried into a kithitka with two guards, conducted with all speed to Moseow, and thence to the frontiers of Poland, where he was released, with an intimation, that if he returned again to the dominions of the empress, he should be
hanged. After an absenee of 15 montlis, he onee more appeared in the British metropolis, to use his own words, "disappointed, ragged, pennyless, but with a whole heart." He was now 37 years of age. Seareely had he taken lodgings in London, when sir Joseph Banks proposed to him, on behalf of the African assoeiation, an expedition into the interior of A friea. He aeeordingly songht an immediate interview with the secretary of the association, to whom sir Joseph gave him a letter ; and, on being asked by him when he would set out, he answered, To-morrow morning. The route traced for him, by the association, was, from Alexandria to Grand Cairo, from Cairo to Semnaar, and thence westward, in the latitude and supposed direction of the Niger. He reached Cairo, whence he was on the point of proceeding on his journey after three months of vexatious delay, when exposure to the heat of the sun, and to other deleterious influenees of the cliniate, at the most unfavorable season of the year, brought on a bilious attack, which proved fatal towards the end of Noveniber, 1788. Zeal, activity, eourage, honor and intelligence distinguished his short but remarkable career. (See Spark's Life of Ledyard, Cambridge, New England, 1828.)

Lee ; all cpithet to distinguish that half of the horizon to which the wind is directed from the other part whenee it arises, whieh latter is called to windward.

Lee, Nathaniel, a dramatic poet, was educated at Cambridge, whither he went in 1668, and afterwards went to London, misled, it is said, by the promises of Villiers, duke of Buekingham. Negleeted by his patron, he turned his attention to the drama, and, in 1675, produced his tragedy of Nero, and, from that time to 1681, produeed a tragedy yearly. He also tried his abilities as an aetor, but failed in the attempt. In 1684, insanity rendered his confinement necessary, and he was taken into Bethlehem hospital, where he remained until 1688, when he was discharged, and wrote two more tragedies, the Princess of Cleves, and the Massaere of Paris, which appeared in 1689 and 1690. He died in 1691 or 1692 , in consequence of some injury received in a drunken night frolic. He is the author of eleven plays, all of which were aeted with applause; but his natural fire and pathos were buried in a torrent of words, and clouded by a tendeney to turgid and bombastic eloquenee.

Lee, Ani. (See Shakers.)
Lee, Charles, a major-general in the

American revolutionary war, a native of North Wales, became an officer at the age of 11 years. He served early in Ainerica, where he commanded a company of grenadiers, at the unsuccessful assault of Tieonderoga, by general Abercrombie, and was wounded. He distinguished himself in 1762 , under general Burgoyne, in Portugal. He afterwards wrote on the side of the American colonies, in a contest between them and the ministry, and then entered the Polish service. During his absence, the stamp act passed, and the hostility to it manifested by general Lee rendered him obnoxious to the royalists of the court of Vienna. In the course of two or three years, he wandered all over Europe, until a duel with an Italian officer, in which his antagonist was killed, obliged him to flee; and, in 1773, he sailed from London for New York. The quarrel betwen Great Britain and her colonies had now assumed a scrions aspeet, and Lee formed the resolution to espouse the cause of the latter. 'Travelling through the colonies, lie became acquainted with the most conspicuous friends of colonial emancipation, and, though yet a Britislı officer on half-pay, was active in encouraging the Amerieans to resistance, and in censuring the measures of the ministry. In 1775, Lee received a commission from congress, and immediately resigned the one he held in the British service; at the same time declaring to the secretary of war his readiness to engage in any lionorable service for the king, but reprobating the present measures as inconsistent with the liberty of the subject. In the quality of major-general in the continental scrvice, Lce arcompanied gencral Washington to the camp before Boston. In 1776, le was dirceted ly the commander-in-chief to occupy New York, and to defend that city and the North river against the enemy. On his arrival there, Lec sct about strengthening the defences of the city, disarning and securing those who were inimical to the American causc, and checking the intercourse subsisting betwecn the British and the townsmen. He was afterwards invested with the clief command in the southerm department. His presenec in the south inspircel a happy ardor and confidence in soldiers and people, while his conduct on the memorable attack of the British upon Sullivan island raised his military reputation. After the discomfiture of the enciny at this fortress, Lee passed into Georgia, where he renained somc weeks, employing himself in fortifying the colony,
and chastising the frontier Indians. Congress anticipating a concentration of the British forces, for the purpose of making a powerful effort at New York, Lee was ortered to Philadelphia, and was despatclıed to the camp at Haarlem, with permission to visit the posts in New Jersey. He reached the army just in time to recornmend its extrication from a situation, where, had the enemy used proper diligence in his operations, it would liave been completely destroyed. The opinion of Lee induced the council of war to make a precipitate movement during the night, by which they eseaped the toils into which they would otherwise have fallen. While marching through the Jerseys to join general Washington, Lee was made prisoner by the English (December 13, 1776), as he lay carelessly guarded, at a considerable distance from the main body, and carried to New York. Washington proposed to exchange for lim six field-officers; but general Howe affeeted to consider Lee as a deserter from the British army, and refuscd to release him on those terms. Several British officers were confined, and held answerable for the treatment of general Lee. The latter was, however, treated in a manner unworthy of a generous cnemy, until the surrender of Burgoync, October 17, 1787. After that event, he was exchanged. The battle of Monmouth concluded the military course of general Lee. Being directed by general Waslington to advanec and attack the cnemy's rear, he approached very near, but, instead of obeying his instructions, suffered his troops to make a disorderly retreat. The commander-inchicf met him in the flight, and reprimanded him for his conduct. Lee replicd in improper language, but executed the subsequent orders of general Washington with courage and ability. Stuug with the indignity which he conceived to have been offered him, he wrote two letters to the commander-in-chief, after the action, of a disrespectful tenor, challenging him to substantiate the charges implied in his expressions on the field. General Lee was arrested, and arraigned before a court-martial, for disobedience of orders, misbehavior before the enemy, and disrespect to the commander-in-chief. August 12, 1778, hic was found guilty of the charges, and sentenced to be suspended from any commission in the arnies of the U. States for the period of one year. The coneurrence of congress in this sentence was thought necessary; and, while yet in suspense as to their detcrmination, he published a de-
fence of his conduct. His abuse of general Washington's character, in this pamphlet, led to a duel with colonel Laurens, one of the aids of the commander-inchief, in which Lee was wounded. Congress confirmed the sentence of the conrtmartial in his case, though not without previous discussion. Lee retired to an estate he had purehased in Virginia, where he lived, seeluded in a sinall hovel, destitute of glass windows or plastering, amusing himself with his books and dogs. While in this situation, he composed a set of political and military queries, in which his bitter feelings were freely vented, and which were afterwards published in Baltimore, where they created considerable disturbance. In 1782, he went to Philadelphia, where he engaged lodgings in a tavern, and, a few days atter his arrival, was seized with a fever, of which he died in obscurity, October 2, 1782. Ilis thoughts would appear to have been cmployed to the end in the profession which lad engaged the best portion of his life, for the last words he was heard to utter were, "Stand by me, my brave grenadiers." From respect to his former services, a large concourse of the people, including many public characters, both French and American, joined in the fumeral solem-nities.-General Lee was hrave in action, of a sound judgment in military affairs, and possessed of the affection of his officers and men. Sensible of his military talents, and insatiably ambitious, he aspired to the chief command, and was little scrupulous about the incans to be employed to attaiu that dignity. Whatever might have been his motives for eugaging in the Anerican cause, he sacrificed much for it, and was useful in its advancement. He was a classical scholar, and possessed an excellent memory and a brilliant fancy. His temper was morose and avaricious. His satirical spirit made liun many enemies. Thongh a genteman in his manners when he chose to appear such, he was often course, and, towards the latter part of his life particularly, became very negligent of his personal appearance. He was very fond of dogs, which he even carried into the company of ladies. With all his faults, however, lie was distinguished for sincerity, veracity, and adherence to lis friends. He was rather above the ninddle size. Ilis countenance was not agrerable. Many persons considered him an atheist, though some exalted ideas of a Supreme l'eing appear in his correspondence. IIe published some essays on military, political and literary subjects, which,
together with his extensive correspondcilce, were collerted in a volume in 1792. A panphlet which he wrote on Aneriean affairs, in the earlier part of his life, was nuch approved of by the friends of this country, and particularly commended by doctor Franklin. It was his carnest desire, expressed in his will, that he should not be buried in any ehnrels or churchyard, or within a mile of any Presbyterian or Anabaptist meeting-house ; and lie assigned as his reason, thiat since his residence in Americu, he had kept so much bad company while living, that he wished to a a oid it when dead.-See Memoirs of Charles Lee (Dublin, 1792) ; Anecdotes of Charles Lee (London,1797); Girdlestone's Facts proving Charles Lee to have beenJunius( Lond.,1813).

Lee, Richard Henry, a signer of the Declaration of Independence, was born Jan. 20, 1732, at Stratford, Westmoreland connty, Virginia, and, after a course of private thition in his father's honse, was sent to the academy of Wakefield, in Yorkslise, England, where he became distingnished for lis proficiency in the classics. He returned to his native country when ahout in his 19th year, and, his fortune rendering it unnccessary for him to devote himself to any profession, his time was most uscfully spent in the improvement of his mind. The first endeavor which lee made to serve liis commtry, was in the capacity of captain of the volunteer companies which were raised in 1755, for the purpose of aiding the experdition under general Braddock. He was disappointed, however, in his patriotic desires, Braddock having refused to accept any more assistance from the provincials than he was obliged to. In his 25 th year, Lee was appointed a justice of the peace for his native county-an office then given ouly to persons of the highest character, and gencrally but to persons of considerable experience. Not long afterwards, he was chosen a delegate to the house of burgesses, from Westmoreland county, and thus commenced the career of polities, for which he was peculiarly fitted, both ly his natural disposition and talents, and the studies in which he was versed. Works of civil and political morality, history, the principles of the civil law, and the laws of his own conntry, had occupied the principal share of his time, whilst he had not neglected the more elegant departments of polite literature; and he soon obtained distinction in debate. His voice was always raised in support of those principles which were advocated by the republican or antiaristocratic portion of the legislature ; and
when, in 1764, the declaratory act was passed in the British parliament, in pursuance of the right clained by that body of taxing America, he was the first to bring forward the subject to the notice of the assembly of which he was a member. A special committee having, in consequence, been appointed to draught an address to the king, a memorial to the house of lords, and a remonstrance to the house of commons, Mr. Lee was placed on it, and selected to prepare the two first papers. These, accordingly, proceeded from lis pen, and, in the words of his biographer and grandson, "contain the genuine principles of the revolution, and abound in the firm and eloquent sentiments of freemen." In 1765, Patrick Henry (q. v.) introduced in the Virginia legislature his famous resolutions against the stamp act, which had just been passed by the British parliament. Mr. Lee lent Mr. Henry's motion his powerful and most zealous assistance. Not long after it had been carried, in spite of the efforts of the influential party, who advocated the measures of the mother country, Mr. Lee, amongst other methods which he took to prevent the operations of the stamp act, planned and effected an association "for the purpose of deterring all persons from accepting the office of vender of stamp paper, and for awing into silence and inactivity those who might still be attached to the supremacy of the mother country, and disposed to adrocate the right of colony taxation." The association bound themselves to exert every facnilty to accomplish the end for which they had united together, "at every hazard, and paying no regard to danger or to death." In consequence of the opposition the stamp act encountered in the colonies, the British ministry were forced to repeal it ; but they did so with a reservation of the right of the mother country "to bind the colonies in all cases whatever." In 1767, parliament laving passed two acts, one laying a tax on tea, and the other requiring the legislature of the colony "to make provision for quartering a part of the regular army," Mr. Lee exerted himself in every way to excite a spirit of hostility to them, perceiving, as he did, their despotic tendency, and feeling, even then, that a struggle for freedom must eventually take place. It would be impossible for us, consistently with our limits, to enter into a minute detail of the unceasing efforts of Mr. Lee's patriotism between this period and the assembling of the first congress in Philadelphia; we can only mention that the celebrated plan
which was adopted in 1773 , by the house of burgesses, for the formation of corresponding committees to be organized by the legislatures of the several colonies, and also that of corresponding clubs or societies, among the "lovers of liberty" throughout the provinces, for the purpose of diffusing amongst the people a correct knowledge of their riglits, of keeping them informed of every attempt to infringe them, and of rousing a spirit of resistance to arbitrary measures,--both originated with him. The same idea had, about the same time, been conccived and proposed by Samuel Adams in Massachusetts-a circumstance which has occasioned a dispute concerning the merit of having given birth to measures which were the forerunners of the general congress. It cannot be doubted, however, that Mr. Lee followed only the suggections of his own mind with regard to the proposal, as, several years before, in 1768, he had requested Mr. Dickinson of Pennsylvania, in a letter, to bestow his consideration upon the advantages of plans which he communicated to him of the same purport. In 1774, the first general congress assembled at Pliladelphia, and Mr. Lee attended it as one of the Virginia delegation. His labors during this session, as throughout his whole congressional carecr, until his zeal and activity were partially arrested by hodily infirmities, were unrenitting. Of all the leading committecs-those to prepare an address to the king of England, to the people of Britain, and to the colonies, and those to state the rights and grievances of the colonies, and to carry into effect the resolution of non-intercourse with Great Britain-he was a member; and from his pen proceeded the memorial of congress to the people of British America. In the following year, he was unanimously elerted, by thie people of Westmoreland county, to the assembly of Virginia, by which he was sent to the second congress. At this period, hostilities were in full operation between the two countries, and one of the first acts of the new congress was to invest George Washington with the command of its armies. His commission and instructions were furnished by Mr. Lee, as chairman of the comunittee appointed for that purpose. The other committees on which he served in this session, were those named to prepare munitions of war, to encourage the manufacture of saltpetre and arms, and to devise a plan for the more rapid diffusion of intelligence throughout the colonies. The
second address of congress to the people of Great Britain-a composition unsurpassed by any of the state papers of the time-was written by hin this session. But the inost important of his services, in this second congressional term, was his motion, June 7, 1776, "that these united colonies are, and of right ought to be, free and independent states; that they are absolved from all allegiance to the British crown; and that all political connexion between them and the state of Great Britain is, and ought to be, totally dissolved." His speech on introducing this bold and glorious measure, was one of the most brilliant displays of eloquence ever heard on the floor. After a protracted debate, it was determined, June 10, to postpone the consideration of this resolution until the first Monday of the ensuing month of July; but a committee was ordered to be innmediately appointed to prepare a declaration of independence. Of this committee he would have been the chairman, according to parliamentary regulations with regard to the original mover of au approved resolution; but he was obliged, on the same day (the 10th), to leave congress, and hasten to Virginia, in consequence of the dangerous illness of some of the members of his family. Mr. Jefferson (q. v.) was substituted for him, and drew up) the declaration. In August following, Mr. Lee returned to his seat in congress, which he continued to occupy until June, 1777 , pursuing, with unabated ardor, the path which was to Iead to the freedom and happiness of his country. In that month, he solieited leave of absence, and returned to Virginia. This step was taken on account of the delicute state of his health, and also for the purpose of clearing his reputation from certain stains which malice or over-heated zeal had thrown upon it, which he effectually did, by demanding an inquiry into the allegations against him, from the assembly of his native state. The result of this inquiry was a most honorable acquittal, accompanied by a vote of thanks to him for the fidelity aud zeal of his patriotic services, which the speaker of the house, the venerable George Wythe, in communicating it to him, prefaced by a warm and flattering eulogy. In Angust, 1778, he was again elected to congress, but was forced, by his declining licalth, to withdraw, in a great degree, from the arduous labors to which he had hitherto devoted himself. In 1780, he retired from his seat, and declined returning to it until 1784. In the interval, he served in the as-
sembly of Virginia, and, at the lieard of the militia of his county, protected it from the incursions of the enemy. In 1784, he was chosen president of congress by a unanimous vote, but retired at the end of the year, and, in 1786 , was re-elected to the Virginia assembly. In the convention whieh adopted the present constitution of the U. States, Mr. Lee joined in the vote of congress which submitted the plan they proposed to conventions of the people of the stater. He was, lowever, hostile to it himself, thinking that it had too great a tendency to consolidation. When it was adopted, he and Mr. Grayson were ehosen the first senators from Virginia under it, and, in that capacity, he moved and carried several amendments. In 1792, his health forced him to retire from public life, when he was again honored by the Virginia legislature with a vote of thanks. He died June 19, 1794.

Lee, Francis Lightfoot. (Sec Appendix to this volume.)

Lee, Arthur, a distinguished revolutionary patriot, was born in Westmoreland county, Virginia, Deceinber 20, 1740. He was the youngest of five brothers, all of whom became eninent. He was sent to the school at Eton, in England, and, upon the completion of his course there, entered the university of Edinburgh, where he eommenced the study of medicine, and took his degree of M. D. with great distinction, winning a medal for the best botanical treatise, which was published by order of the university. Having travelled through Holland, Germany, Italy and France, doctor Lee returned to Virginia, and commeneed the practice of his profession at Williamsburg, then the metropolis. His success was great ; but the bent of his mind to politics determined himr, before long, to return to England, and study law, in order that he might acquire familiarity with the science of politics and govermment, and fit himself for taking a part in public affairs, which were then beginning to wear a highly interesting and serious aspect. Before his return, he had heard the parliamentary debate on the stamp aet, and, when the duty bill was passed, he wrote a series of anonymous papers in relation to it. In 1776, he went again to Loudon, which city he found the stronghold of popular opposition, and the society of the supporters of the bill of rights the most aetive in conducting it. Of this society he became a member, with the design of connecting the grievauces of the two nations, and purchased the freedom of the city, which cinalificd linn to vote in muni-
cipal aftairs. The eomplaints of America were introduced into the famous Middlesex petition by Mr. Lee, associated with Wilkes; and he also suecessfully proposed a resolution, that the inembers of the club would support 110 candidate for parliainent who would not pledge himself to promote the granting of the power of selftaxation to Anerica. The celebrated Junins was an adviser of this body, and with him Mr. Lee had an amicable dischssion on some points of Ameriean policy , about which they happened to differ. His political publieations at this periodin which he adopted the signature of Ju mius Imericanus-were numerous, and procured for him the acquaintance of Burke, doctor Price, and others of the popular leaders. In 1770, he was admitted to the bar, and began the practice of his new profession under the most favorahe auspices; and such success attended his exertions as to enable him to lay the fommations of an ample fortune. In the same year; the assembly of Massachusetts appointed lim their agent, in case of the absence or death of doctor Franklin; and before cither of the contingencies oecurred, he assisted the venerable sage with his hearty coöperation. As a testimony of the sense of his services, that state subsequently, in 1784, presented him with a tract of land containing 4000 acres. In the spring of 1774 , he set out on a tour to France and Italy, and, when at Paris, pul)lished an Appeal to the People of Great Britain. Learing, however, of the dissolution of parliament, before he had completed his journey, he hastily returned from Turin to London: On the retum of doctor Franklin to Ancriea, in the same year, he becane the sole agent of Massachusetts. The secret committce of congress appointed Mr. Lee their London correspondent. The principal object of this regulation was, to learn what was to be hoped from the European powers. Mr. Lee directed his impuiries particularly to the French ambassador at the British court, through whom he obtained assmances from the count de Vergemes, that his govermment would serretly furmish to the colonies f200,000 worth of arms and ammunition, to be transported from Holland to the West Indies. He was afterwards appointed by congress one of the commission to the court of France, in conjunction with Silas Deaue, to whom doctor Franklin was atirrwards added, and continued to labor mreasingly for the cause of his country, hy his writings, negotiations, and never-failing vigilance in deteeting what-
ever might prove iujurions to its interests. At the same time, he also acted as agent for Virginia, and had the address to procure, under cireumstances of special favor, from the royal arsenal, warlike stores to the amount of nearly $£ 260,000$. In December, 1777, congress appointed him sole commissioner to Spain, still retaining him on the commission to France. The British ambassador remonstrated against his reception, in consequence of which he was detained at Burgos, on his way to Madrid; but, upon sending a spirited reply to the remonstrance, no further interruption was attempted, and he proceeded to the capital. He there pursued the same policy which he had practised in London and Paris, ingratiating himself and his cause with the men of influence, and appealing boldly and directly to the government, from which he finally procured a large pecuniary loan. Having accomplished all that seemed practicable, he returned to Paris; when, the commissioners laving determined on the expedicney of conciliating Frederic of Prussia, and prevailing with him to withhold his assistance from England, Mr. Lee was selected for that duty, and repaired to Berlin, where he was allowed to reside in a private character, and to correspond seerctly with the court. He succeeded in obtaining from Frederic an assurance that he would afford no facilities to Great Britain, in procuring additional German auxiliaries, and that he would prohibit the passage, through any part of his dominions, of any troops which that court should thenceforward engage in Germany. He obtained, also, permission for the citizens of the U. States to carry on a direct eommeree with the subjects of Prussia, and for himself to purcliase, for the use of the U. States, arms from the armories from which the king supplied his forces. While in Berlin, his papers were stolen from his chamber; but, upon an order from the king to investigate the affair, they were secretly returned. The blame of this act he cast on the British envoy, who, on the representation of the Prussian nonareh, was reealled. When Mr. Lee left Berlin, it was with an understanding that a correspondence should be carried on between baron Schulenburg and himself, on the affairs of the U. States, and that he should keep the king eonstantly informed of the events of the war with Great Britain, which he did during his residence in Paris. He was also assured that Prussia "wonld not be the last power to acknowledge the independence of his
country." In forming the commercial treaty with France, Mr. Lee objected to two articles, in which it was stipulated that no duties should be charged by the respective governments on any inerchandise exported to the French W West Indies, which yiclded molasses, or on the molasses exported thence to the $\mathbf{U}$. States; and, on the suggestion of France, the decision was left to congress, who directed that they should be expunged. Upon the recall of Mr. Deane, between whom and Mr. Lee there had been some misunderstanding, John Adams was appointed in his place. Their services, however, were soon afterwards superseded by the appointment of doctor Franklin as minister plenipotentiary. During the period of his commission, the peculations of the subordinate agents, who were employed to conduct the commercial details of the public business, had excited the vigilant inspection and unsparing reprehension of Mr. Lee. This interference created a multitude of complaints and insinuations, which were artfully disseminated at home. These rumors were, in a measure, successful in exciting the suspicions of some members of congress; and when, in 1779, it was determined to send a minister to Spain,-and Mr. Lee was certaiuly so promineut a character as to be at once suggested as the fittest can-didate,-he was not appointed, altlough nominated. Upon learning his virtual censure, he resigned his appointments, and returned to America in 1780. He prepared an elaborate report of his official proceedings, and answers to all the charges which had been circulated to his prejudice; but, upon requesting leave to vindicate himself with these in congress, that borly expressed their full confidence in his patriotism, asserting that they had no accusations to make, and requested him to communicate his views and information acquired during his residence abroad. In 1781, he was elected to the asscmbly of Virginia, and by it returned to congress, where lie continued to represcnt the state until 1785. In 1784, he was sent on a delegation to make treaties with the Indians on the northern frontier. He was next called to the board of treasury, with Samuel Osgood and Walter Livingston, in which he continued from 1784 to 1789. Within that period, he also scrved in a legislative committee to revise the laws of Virginia. On the dissolution of the treasury board, he once more sought the shades of retirement, and established himself on a farm on the Rappahannock, where he died Dec. 12, 1792.-See R. H. Lee's Life of Ar-
thur Lee( Boston, 1899), and the review of the same in the North American Review; also his letters in Sparks's Diplomatic Correspondence of the Revolution( Boston, 1831).
Lee, Henry, general, a distinguished officer of the revolution, was born in the colony of Virginia, Jan. 29, 1756, of a highly distinguished family: He received the rudiments of his education from a private tutor, and was then sent to Princetor college, where he was graduated in the 18th year of his age. In 1774, soon after his return loone, he was intrusted with the management of all the private concerns of his father, whilst the latter was eugaged in negotiating a treaty with some Indian tribes on behalf of the colony, and, in the execution of this charge, lie displayed a degree of prudence, industry and ability beyond his years. In 1776, he was appointed a captain of one of the six companies of cavalry, raised by Virginia, after she liad thrown off the authority of the mother country. About this time, the large armies sent by Great Britain into Anerica rendered it indispensable that every possible reinforcement should be sent to general Washington, and, in coulsequence, those companies were incorporated into one regiment, under the command of lieutenant-colonel Bland, and offered by Virginia to congress. Their services were accepted, and, in September, 1777, they joined the main army of the provincials. Young Lee was thus afforded an opportunity of winning distinction, whiclı he quickly did. He maintained a strict system of discipline, and was extremely careful of his men and horses, by which lie was enabled to move with celerity, and strike the eneny by surprise, with certainty and success. He particularly attracted the notice of Washington, who, at the battle of Germantown, selected him, with his company, to attend as his body-guard. In January, 1778, the enemy formed a plan to capture him. Two hundred of their cavalry succeeded in approaching his quarters, a stone house, unperceived, at a time when his troopers were dispersed in search of forage. There were only ten men with lim, most of them officers; but, with these, he defended the house obstinately, and the assailants were constrained to retreat. In consequence of this and other exploits, he was, shortly afterwards, promoted by congress to the rank of major, with the command of a separate corps of cavalry, consisting of three companies, to which both cavalry and infantry were subsequently added. Iu 1780 he was sent, with his legion, to
the ariny of the south, under general Grepne, having bcen previously raised to a lieutenant-coloneley, and continued with it until the end of the war. In the famons retrcat of Greene, before Cornwallis, into Virginia, Lee's legion formed the rearguard of the American arny; and repelled every attempt of the enemy to impede its marel. After Greene had effected his retreat to a place of safety, he seut Lee and eolonel Pickens into North Carolina, to watch and interrupt the movements of Cornwallis, intending to return himself into that state, and bring the British general to battle. While the two colonels were inareling to surprise Tarleton, Lee fell in with a couple of messengers sent to this British officer from colonel Pyle, the commander of a body of 400 Ameriean royalists. The messengers mistook Lee for Turleton, as the aceontrements of his troopers were similar to those of the Brit-i-h officer, and communieated to him full information concerning Pyle's movements. Availing himself of the mistake, Lee personated Tarleton, and sent one of the messengers to Pyle, with directions for him to take post at a certain station, where le and Pickens soon after cance up with him, and dispersed his foree. At the batde of Guilford court-louse, which happenerl soon afterwards, Lee eminently distinguished himself. He was placed, with lis legion, on the left of the front line of Greenc's army, and, although the North Carolina militit, the principal foree attached to their position, abaudoned them at the very eommencement of the aetion, they yet contrived to keep the enemy at hay, until the order to retreat was given by 1he American general. Previous to the Britle in the morning, Lce encountered the cavalry of 'Tarleton, and drove them back with considerable loss. During the interval between this battle and that of Canden, in which Greene was worsted by lord Rawdon, Lee took several forts. After the latter engagement, he was sent 10) aid P'iekens in the capture of Augusta, in Georgia, and, in his way thither, surprised and took fort Godolphin, in which there was a valuable deposit of the enemy's military stores. On his junction with Piekens, they immediately invested fort Comwallis, on which the fate of Augusta depended, and soon forced it to surrender. Its commander was colonel Brown, who was particularly obnoxious to the Americans; and lis life would have been a sacrifice to their hatred, had it not been for the precamtions of colonel Lec. He then retumed, with his prisoners, to
the army of Greene, who was, at that time, besieging the fortress of Ninety-Six. In that siege Lee had a conspicuous share, and, in the attempt made to take the place by storm, he was charged with the attack in one quarter. He was completely suceessful; but, the other assault having been less fortunate, the siege was raised. In the action whieh, a short time subsequently, occurred at Eutaw springs, Lce was also conspicuous, acting at the head । of his infantry. By opportunely dismounting his cavaly, he greatly contributed to the enemy's defeat. In the ensuing month of October, le was scnt by Grecne on a special mission to the com-mander-in-ehief, then employed in the siege of Yorktown, for the purpose of requesting him to prevail on the count de Grasse to afford uaval assistance, to euable Greene to lay siege to and take Charlcston, with the British army, in the south. He annived at Yorktown about the time of the surrender of Cornwallis, and, after executing lis commission, returned to Greene. Near the end of the war, he married. In the fall of 1786, lie was appointed a delegate to eougress from the state of Virginia, in whieh station he remained until the present constitution of the U. States was carried into operation. In the interim, he was elceted a member of the convention of Virginia, which met in Junc, 1788, and ratified that constitution, of which instrument he was a strentous and eloquent advocate. He was afterwards chosen a member of the house of delegates of his native state. In 1792, he retired from lis seat in the assembly, on being raised to the chair of governor, which he filled for three successive years. In the last of them, he was named by president Washington to command the forees which he was constrained to send into the western counties of Pennsylvania, in order to quell the disturbances by which they were agitated. He performed this duty in the most satisfuctory manner. In 1799, he was again ehosen a member of congress, and, while there, in the sane year, he was selected to pronounce a funeral eulogium upou Washington. He retained his seat until the accession of Mr. Jefferson to the chief magistraey of the Union, when he retired into private life, after which he never held any conspicuous office. The latter years of his life were distressed by pecuniary embarrassments, oceasioned, in a measure, by his generons hospitality. It was while he was confined, in 1809, within the bounds of Spottsylvania county, on accomen of pecuniary obli-
gations, that he prepared for publication his excellent memoirs of the southern campaigns, in which he borc so conspicuous a part-a work which, if not remarkable for great polish of style, is cntitled, from its bold, manly and sincere tone, as well as the power of the descriptions, and the interest of the information, to rank with the best works relating to the revolutionary war.-General Lee happened to be in Baltimore, in 1814, when the print-ing-office of an obnoxious paper was threatened by the populace. He was induced, by personal friendship, to take part in the dcfence of the house. In the dreadful attack which was made on the Baltimore jail, to which the party of defenders were carried for safety, he was severely wounded. His health decayed in consequence, and he repaired to thc West Indies, hoping to stop the ravages of disease. In 1818, he returned to the U. States, and dicd March 25 of that year, on Cumberland island, ncar St. Mary's, Georgia.
Leech (hirudo, Lin.); a genus of molluscous animals, which have an oblong body, a mouth surrounded by a lip, and a disk at the posterior extremity, by both of which they can affix themselves to bodies. In the mouth are three small jaws, tongucs, or plaits of skin, by which thcy are enabled to extract the blood of other animals, that forming their principal nourishment. Leeches are hermaphrodites, and some species arc viviparous. They occur in ponds and streams, in almost all countries. They derive their principal interest from the use made of them as a remedial agent, which, however, has been too much neglected in the U. States. There are several of the species which are capable of being thus used, though it is commonly supposed that only two sorts are proper. The employment of leechcs in France may be judged of from the circumstance, that the hospitals of Paris require an annual supply of several hundred thousands. In Philadelphia, the supply required is from 150,000 to 200,000 . As regards the other cities of the U. States, we have no certain information, though to the south their use is very limited. The leeches employed in Philadelphia are usually procured in the U. States, though there is an importation of them every year from Europe ; but thcy are too expcnsive for general use, costing from 40 to 50 cents each. The American species does not draw as much blood as the foreign, which are calculated, on an averagc, to detract one ounce each, whilst the majority of the American do not take more than from two to three
drachms each. The leech, when forcibly pulled away whilst sucking, is very apt to leave the teeth, or plaits of skin, spoken of above, in the womnd, occasioning pain and inflammation of the part ; the leceh is also rendercd incapable of again biting. The most ccitain method of inducing these animals to bitc, is to clernse the skin thorouglily: the leeches should be exposed to the air for a slort time previous to their application, as by this means they will bite more freely. If they are voracious, they may be applicd to the part by being held lightly in the fingers, or they may be placed in a cup which is to be inverted over the part from which the blood is to be drawn. They should not be disturbed whilst sucking, nor the paticnt be exposed to too great warmth, or they will fall off; this they should always be permitted to do of their own accord. They are made to disgorge, by putting them in a weak solution of common salt; and, if they have not been injured, they may be used five or six tilncs. They are taken either by liand or by incans of a ganzo net. In kceping them, great carc should be takcin to renew the water frequently, and not to place too many in the same rcservoir, and to remove speedily all that may die. Notwithstanding every precantion that can be taken, they will sometimes perish in great numbers, apparently from an epidemic disease. It appears that, in such cases, the use of charcoal is the preventive : for this purpose, the bottom of the reservoir is to be strewed with smalt pieces of this substance, kept down by moss. (Sec Derheim's Hist. nat. et med. des Sangsues ; North Am. Med. and Surg. Jour., 1826, \&c.) In 1821, France is said to have exported $1,500,000$, and in 1829, $33,650,000$.

Leeds; a large trading and manufacturing town of England, West Riding of Yorkslire, the principal seat of the woollen trade, and one of the largest as wcll as the richest and most populous towns in the northern part of the kingdom. It is situated on the Aire, which is navigable from the Humber up to the town, whence the Leeds and Liverpool canal procecds on the other hand to the west, so that it is equally open to the eastern and western seas. Along the river, the town extends about two miles from east to west. The houses, mostly of brick, arc in general well built, and, in the modern part of the town, which is daily extending, handsome and elcgant. In the other parts, the streets are narrow, crooked, and in some places dirty. It has eight churches and 20 dis-
senting chapels. Of the manufactures and trade of Leeds and the vicinity, the staple article is woollen cloth. There are also several manufactories for spinning flax for canvass, linen, sacking, thread, \&c. Here arc likewise manufactories for flat and green glass, and for fine and coarse pottery goods. Scveral founderies have bcen erected ; and there is a large manufactory for steam-engines. The borough of Leeds sends no member to parliament. Population in 1821, 83,796, now increased to nearly 100,000 . The parish of Leeds is nearly co-extensive with the borough, and is about 30 miles in circumfcrence. Lon. $1^{\circ} 34^{\prime} \mathrm{W}$. ; lat. $53^{\circ} 48^{\prime} \mathrm{N}$.

Leek (allium porrum); a mild kind of onion, much cultivated and highly estcemed in some places for culinary purposcs. The stem is rather tall, and the flowers are disposed in large compact balls, which are supported on purple peduncles.

Leeward Islands. The terms Leeward and Windward, applied to the West India islands, were given them from their situation in a voyage from the ports of Spain to Carthagena or Porto Bello. The islands, which lic to leeward, extend from Porto Rico to Dominica.

Leeward, To, denotes towards that part of the horizon which lies under the lee, or whither the wind blows.

Lefebvre, François Joseph, duke of Dantzic, marshal and peer of France, \&c., born at Rufack, department of the Upper Rhine, in 1755, after having served with distinction in the wars of the republic and the empire, died in 1820 . He entered the military service in the gardes Françaises, and at the beginning of the revolution was scrgcant. Having warmly embraced the new principles, and distinguished himself by his prudcnce and firmness, his promotion was rapid. In 1794, he was made general of division, and, in the succeeding campaigns, continucd to render himself conspicuous by his courage and military skill. He espoused the cause of general Bonaparte, whose designs he was able to forward on the 18th Brumaire, as he had, at that time, the command of the 17th military division, which included Paris. His services on this occasion were rewarded by the dignities of senator, marshal of the empirc, grand cross of the legion of honor. He bore an important part in the victory of Jena, distinguished himself at Eylau, and reccived the chief command at the sicge of Dantzic, at which he gave the most brilliant proofs of genius and humanity. In 1808, he served in Spain ;
in 1809, again in Germany; and, in the Russian campaign, commanded the implerial guard. After the abdication of the emperor, the king created him peer, and, during the hundred days, Napolcon included him in his upper chamber. His name was consequently erased after the second restoration ; but, in 1819, he was again summoned to take his seat.
Lefevre, Robert ; a portrait painter in Paris; a pupil of Regnault. He produced also historical pieces of great merit, which, with those of David, Girodet, Guerin and Gerard, bclong to the best of the modern French school. Several portraits of Napoleon by Lefcrre are annong the best. He died in 1831.

Lefort, Francis James, the celebrated favorite of Peter the Great, was born at Geneva, 1656. His father, a merchant in that place, sent him to Hamburg to bccome acquainted with commerce; but, having an inclination for a military life, he went secretly to Marseilles, in his 14th year, and entered first the French and afterwards the Dutcl service, which he left to go to Moscow, by the way of Archangel, in 1675. Here he became scerctary to the Danish ambassador; and a fortunate accident gave him an opportunity to gain the favor of the young czar, Peter Alcxicwitsch, which he retained till his death. In hoth was the germ of greatncss, which was gradually devcloped. Peter felt that he necded an instructer and assistant; and Lefort possessed talents fitted for both officcs. The first great service which he rendered the czar was in a rebellion of the Strelitz (1688). Lefort quelled the insurrection, and saved the prince from the danger which threatened his life. This service gained for him the unbounded confidencc of the czar, who was now become the absolute master of Russia. Lefort's influence increased daily. He established the military system of Russia, and laid the foundation of her navy, which Peter afterwards carried to sucl a degree of parfection. Whan Peter travelled into foreign lands, in 1697, Lefort was tho principal of the embassy, in the train of which the czar remained incognito. In the mean time, the nobles, jealous of the favor shown to a foreigner, saw a favorable opportunity to revenge themselves, in the long absence of Lefort and the czar. The Strelitz rehelled; but Peter darted on them with the rapidity of an cagle, and took a bloody revcnge. The czar, Lefort and Menzikoff executed the guilty with their own hands. Soon after, Lefort died (1699). He had a compreliensive and
cultivated mind, a penctrating judginent, inuch presence of inind, great dexterity in sounding those of whom he wished to make use, and an uncommon knowledge of the resources of the Russian empire. The groundwork of his character was firmncss, invincible courage and justice ; but his habits were irrcgular, which hastened his death.

Legates, with the ancient Romans, were the assistants of a proconsul or propretor, in the administration of a province and in the command of the army ; also the higher officers, who commanded under the general-in-chief of any army. Of the papal legates, there arc several kinds. Legatus nalus is a mere title connected with an episcopal sce, by the grant of the popc. These sces lie out of the Roman states; among them arc those of Treves, Cologne, Salzburg. The real envoys are called legatimissi. Among them, the legati a latere have the highest rank, and are sent on particularly inıportant inissions to the principal courts, or into the provinces of the papal dominions as governors. They are taken from the college of cardinals only. The districts of the States of the Church, thereforc, are called legations. Legates who are not cardinals are called nuntii apostolici. If they are sent cum facultate legati a latere, their power is cqual to that of a legate a latere. All Catholic governments, however, do not allow them equal authority. Thus the Austrian expressly prohibits any clergyman from transacting business with the pope through the legate.

Legation is used to signify the body of official persons attached to an embassy; hence secretary of legation. (See Ministers, Foreign.) Counsellor of legation is a title bestowed in Germany--the land of counsellors-on certain officers connected with the ministry for foreign affairs. Very often, however, it is a mere honorary title, conferred upon persons who never had any connexion with politics, as Jean Paul Richter, who was made counsellor of legation, by one of the petty princes. Legation also signifies a division of the States of the Church. (Sec Legate.)

Legato (Ital.) ; a word used in opposition to staccato, and implying that the notes of the movement or passage to which it is affixed are to be performed in a close, smooth and gliding manner, holding each note till the next is struck.

Legend (legenda) ; the title of a book containing the lessons that were to bc read daily in the service of the early Ro-
man Catholic church. The tcrm legend was afterwards applied to collections of biographies of saints and martyrs, or of reinarkable stories relating to them, because they were read at matins, and in the refectorics of cloisters, and were carnestly recommended to the perusal of the laity as proofs of the Roman Catholic faith. The Roman breviaries likewise contain histories of the lives of saints and martyrs, which were read on the days of the saints whom they commemorated. They originated in the twelfth or thirtcenth century, and they contributed much to the extinction of the old German (heatlien) heroic traditions. In the middle ages, a collection of the lives of the saints was known by the name of Legenda Sanctorum, or Historia Lombardica. There is a celebrated collcetion, called the Golden Legend (Aurea Legenda), by Jacolous de Voragine, archbishop of Genoa, who died in the ycar 1298. The histories of saints, which are founded merely on tradition, are also known by the name of Legends. (Sce Baillct's historical and critical treatise on the histories of the saints and martyrs, in his work entitled Les Vies des Saints.) As thesc histories were often nothing more than pious fictions, the name of a legend was given hy the incredulous to all fables of a similar nature, to all fictions which make pretensions to truth. Valcrius $A u-$ gustinus, who was bishop of Verona in the sixteenth century, in his work Dc Rhetorica Christiana, ascribes the numerous fables, which have been ushered to the world under the title of legends, in part to the custom prevailing, in many monasterics, of requiring the monks to write Latin paraphrases and dissertations on the most striking circumstances in the lives of the saints, in which they were allowed to ascribe to tyrants and persecuted saints sucls works and actions as they considercd most adapted to their situation and character. This gave risc to those cmbellishments of history, which were preserved, and afterwards found in monastcries, and mistaken for true histories. Although many of the legends arc tasteless and unmcaning fictions, the offspring of childish credulity, or intended to gratify it, there is also a large number of highly poetical and ingenious fables among them. Hence many poets have atteinpted to avail themsclves of these rude matcrials, and to arrange them in the modern taste; and hence every poetical fiction, in the style of ecclesiastical tradition, whether in verse or prose, is called a legend. The principal characteristic of a lcgend is the miraculous,
which should be of a religious nature, or relating to some traditions of the church, without, lowever, falling into firivolity. 'The legend is a production of Christianity, and, like the traditions of the church, wholly different from the mythos, or ancient fable. The style proper to it is plain and simple, such as would naturally flow from the gentle inspiration of a pious heart, and wholly inconsistent with ornament and poeticial decorations.
Legend is also used for thic motto or words engraved, in a circular manner, round the head or other figure upon a medal or coin. The meaning of this term is similar to that of inscription; but the latter refers chiefly to the writing placed in the middle of the coin, while the legend, as we have just observed, surrounds it.
Legendre, Adrian Marie; professor of mathematics at the military school in Paris. In 1787, a dispute laving arisen between the Euglish and French astronomers respecting the exact situation of the obscrvatorics of Paris and Greenwich, Legendre, together with Cassini and Mechain, was appointed by the French goverument to measure a degree of the meridian between Dunkirk and Boulogne, whilst the English mathematicians performed the sume operation in another place. The results were published by the French savants in 1792. Two ycars after, Legendre published a Mémoire sur les transcendantes Elliptiques, and his Eléments de Géométrie, which has since passed through eleven editions, has been translated in the U. States, and is universally considered a classical work. Legendre las made very important and profound researches respecting the attraction of elliptic spheroids, and has the glory of having been the first to prove that the ellipse is the only form that can preserve the equilibrium of a revolving liquid mass, and that the particles of the mass attract each other according to the square of their distances. This inquiry, which he began in 1782, was followed by another, not less important, on the relation of spheroids to each other. At a later period, in conjunction with Prouy, he calculated the new trigononetrical tables for the decimal division of the circle. In 1808, Legendre was appointed president of the university for life ; in 1815, lonorary member of the committee for pullic instruction; and in 1816, with l'oisson, examiner of the caudidates for the polytechnic scliool. Among his most important works are-1. Nouvelle Théoric des Paralleles (1803); 2. Nouvelles Methodes pour la Détermination des
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Orbites des Cométes, \&c. (1805); 3. Essai sur la Théorie des Numbres (1798, with a supplementary volume, which appeared in 1816, in 4to.); 4. Exercises de Calcul intégral (1807, 4to.). The inemoirs of the academy, of which he is a member, also contain valuable contributions from lim. His method for the determination of the orbits of comets has been mucli admired for its profoundness and ingenuity. In 1824, Legendre, then 72 years old, was deprived of his pension of 3000 francs, because he would not vote for the ministerial candidates for the academy.
Leghorn (Livorno); a commercial city in Tuscany, on the Mediterranean; lat. $43^{\circ}$ $33^{\prime \prime} 5^{\prime \prime} \mathrm{N}$. ; lon. $10^{\circ} 16^{\prime} 53^{\prime \prime} \mathrm{E}$. The streets are even and well paved, but narrow and dark, from the height of the houses, which are of stone: therc are, however, no palaces, like those in the other towns of Italy. The finest street is the strada Ferdinandea, which passes through the middle of the town to the port, through thic piazza d'armi. The town occupies but a small space in proportion to its poputation, contains seven churches, one archducal palace, one Greck, one Armenian church, and 65,355 inhabitants, amongst whon are ahout 20,000 Jews in a separate quarter of the town, who possess a beautiful syuagogue, two schools, a library, a printing-office, several collections, and inany privileges. Greeks, Armenians, and Turks (who have a mosque), are also found here. There are large magazincs of salt, tobacco and oil. In the neighborhood of the town is an excellent quarantine establishment with three lazarettos. The coral works produce 160,000 dollars yearly. There are also distilleries of rosoglio, tanneries, dyeries, paper and tobacco manufactorics. The port is annually visited by more than 4000 ships. A packet sails between this place and Marseilles. Leghorn is the principal commercial town of Italy, and las an extensive trade to the Levant. The principal commercial nations have consuls at Leglora. Cominerce is principally in the hands of foreigners, particularly the English. The Armenians and Jews are the general brokers of all nations. Much commission business is carried on, and there are large deatings in bills of exchange. Since 1633 , it has beelı an important commercial place. The town, which was till then insignificant, was at that time enlarged. The port is protected by two strong towers situated on rocks in the sea, and by an old castle. It is liable to become choked, and has not sufficient depth for large
ships; these, therefore, have to anchor outside the mole which protects the harhor. This is 600 paces in length, is well paved, and used for riding. On the place before the inner port is the colossal marble statue of the grand-duke Ferdinand III. From thence a bridge leads to the outer port, where the greater number of vessels are at anchor. Without the port, on a rock in the sea, is a lighthouse. Good water for drinking is brought from Pisi, to which little vessels go daily, drawn by men or horses. Between the town and the surrounding suburbs is a long promenade, called gli Sparti. The nole, the piazza d'armi, the road to Monte Nero, a place of pilgrinage, also serve as public promenades. In 1279, Leghom was still an open town. When the port of Pisa was destroyed, the prosperity of Leghorn increased, particularly when it passed to Florence in 1421 and 1495. Alexander of Medici made it a strong-hold, and built the citadel. Cosino I declared the port a free port. From this time forward, the wealth of Leghorn has increased (interrupted only by the wars of the revolution, aurd, in 1804, by the yellow fever). The society of arts and sciences there established is called Academia Labronica.

Legio Fulinsatrix (the thundering lefrion). This term was applied to a Roman legion in the time of the emperor Aurelius. The following account of the name is given by the Christian traditions. After the expulsion of the Marcomanni and Quadi from Hungary, the emperor Marcus Aurelius, pursuing these German tribes with a detachinent of his forces, A. D. 174, was shut up in a valley, surrounded on every side by high monntains. To those who were thus cut off from the main body of the army, the heat and the want of water were no less dangerous than the attacks of the enemy. In this crisis, a sudlen shower of rain reäuimated the Roman soldiers. At the same time, a storm of lail, attendod with thunder, assailed the euremy, who were now casily repulsed and conquered. Both heathen and Christian authors agree in their relation of the principal circmmstances of this event. The adherents of each religion saw in it the influence of the prayers of thicir bretliren. According to Dio Cassius (Excerpta Xiphilin., 1. Ixxi, cap. 8), the miracle was wrought by an Egyptian sorcerer in the train of the emperor; according to Capitolinns (Vita Marc. Aurcl., cap. 2t), it was the effect of the emperor's prayers ; but, according to Tertullian (Apologet., cap. 5, Al Scopul., cap. 4) and

Eusebius (Hist. Eccles., l. V, cap. 5), it was brought about by the prayers of the Christians in his army; lrence the legion to which these Christians belonged was denominated fillminatrix. The letter of the emperor Marcus Aurelius, commonly printed in Greck in the first apology of Justin Martyr, gives the same account with the Clristian writers; but it is spurions. The marble pillar erected at Rome in honor of Marcus Aurelius, and still standing, represents this deliverance of the Roman army, the Roman soldiers catching the falling rain, and a wartior praying for its descent. It is not, howerer, to be considered as a memorial of any influence exercised by the Christians in the event.
Legion ; a division of the Roman army. Under Romulus, it was composed of 1000 foot and 100 horse, selected from eacls of the three tribes. The hody thus selected (hence the naine legio) amounted, therefore, to 3300 men. In the time of Polybius, a legion consisted of 4200 men, and it was finally increased to 6200 foot. All the soldiers of a legion were Roman citizens : no slaves were admitted, except in cases of the most pressing necessity ; nor any citizen under 17 ycars old, except in peculiar circunstances of danger. There was commonly an equal number of auxiliaries attached to each legion, so that, in the later periods of Roman history, we must understand by a legion, a corps of 9000 or 10,000 men. The foot of cach legion, when it consisted of 3000 men, were divided into 10 cohorts, and each cohort into threc comparries (manipuli) of 100 each, hence called centuric. When the legion was enlarged, the same division was still retained, with the difference that each manipulus was now divided into two centuries, and each century into ten decurix. The commander of a legion was styled the legatus. Sontetimes, instead of a legate, six military tribunes were appointed from each, who commanded in succession, cach for the space of a month, under the direction of the consul. The principal standard of a legion was a silver eagle ; and the legions were named from their commander (as the Claudian legion), or from the place where they were stationed, or from some deity, or from hirds, or from some remarkable event. In the time of Augustus, the army consisted of 25 legions. Legion is also used, proverbially, to signify a large and indefinite number of persons or things. This term was revived in the time of Napoleon, and has since been commonly applied to a body of
troops of an indefinite number, and usually of different kinds. Sueh legions are mostly formed at the beginning of a war, and dissolved at the close. Of this sort were the English-German legion, and the Russian-German legion, in the last war for the independence of Europe. The Frenelı national guards were divided into legions and eolorts. After the dissolution of the army raised by Napoleon in 1815, the remains of whieh had retired beyond the Loire, the new French army was divided into legions, which were named from the departments. This arrangement, however, was abolished towards the elose of the year 1820 .
Legion of Honor (légion d'honneur); an order instituted by Napoleon, while consul, May 19, 1802, for military and eivil merit. The proposition produced mueh debate in the legislative body, and passed after a strong opposition. It was the objeet of Napoleon to kindle a spirit of amLition, the most necessary national element for the support of wars, of which he foresaw that it would be necessary for him to wage many, and for this purpose the institution was admirably ealculated. At the same time, it eannot be denied that, abstraetly considered, it is to be regretted, that a nation, which had just declared itself so loudly for liberty, slould appear so eager for ribands-an invention of those very times against which the revolution was direeted. Morcau, who was altogether opposed to Napoleon, ridieuled the institution. The eross of the legion of honor was given to all who had previously received a military weapon as a mark of honor, and to a great number of new incmbers. Its effect upon the soldiens was very great. After Napoleon's assumption of the imperial dignity, the statutes reecived some modifieations. The oath was originally as follows: "I swear, on my honor, to devote myself to the service of the republic, to the preservation of the integrity of its territory, to the defenee of its government, its laws, and the property by them couseerated; to oppose, by every means which justice, reason and the laws authorize, all acts tending to reêstablish the feudal system, or to revive the titles and distinetions belonging to it ; finally, to contribute, to the utuost of iny power, to the maintenance of liberty and equality." After Napolcon became emperor, the form of the oath was somewhat ehanged. The members swore to devote themsclves to the service of the empire, to the preservation of the integrity of the French territory, to the defence of the emperor, to the
support of the laws, and of the property whieh they had inade saered ; to eombat, by all the ineans which justice, reason and the laws authorized, every attempt to reestablish the feudal régime, and to coneur, with all their might, in maintaining liberty and equality. The deeoration consisted of a star containing the portrait of Napoleon, surrounded by a wreath of oak and laurel, with the leyend Napolion, cnipereur et roi; on the reverse was the Freneli eagle with a thunderbolt in his talons, and the legend Honneur et patrie. The star of the légionnaires was of silver, that of the officers of gold, and was suspended from a red riband with a white margin. The order consisted of grand-crosses (grand cigle), who wore the cross on a broad ribani hanging over the left shoulder, and a star on the left side of the breast; of grandofficers, who wore the cross in the buttonhole, and a star, somewhat smaller, on the left side; of commanders, who wore the eross round the neek; of offieers, who wore the gold eross with a bow in the button-hole, and of legionaries, who wore the silver cross with a simple riband in the button-hole. The legion was composed of 16 eohorts, eaeh of which had its seat in a different eity, and contained 407 meinbers; the whole number was, therefore, at first, 6512. Eaeh cohort had a chancellor, treasurer and chief-the whole order a grand-ehaucellor and grand-treasurer. The pension of a grand-offieer was 5000 franes, ammally; of a commander, 2000 ; of an offieer, 1000 ; of a legionary, 250 franes. There was also an institution for the edueation of the daughters of members of the legion of honor at Ecouen, under the eare of inadame Campan. After the restoration of the Bourbons, the order underwent essential ehanges. The head of Henry IV was substituted for that of Napoleon, with the legend Roi de France et de Navarre; and, on the reverse, the fleur-de-lis took the place of the eagle. The grand-crosses were limited to 80 , the grand-officers to 160 , the commanders to 400 , the offieers to 2000 : the number of the legionaries was left unlimited. New inembers received no pensions, whilst those of the old members exceeded the prescribed sum; but on the death of the old mennbers, the new ones were to receive their pensions. Foreign members received no pensious. It was evident that the legion of honor was coldly treated by the Bourbons, who restored the old orders. The members created during the hundred days were, of course, not aeknowledged by the

Bourbons; lut, in 1831, general Lamarque obtained their acknowledgment by a spirited speeeh, in the chamber of deputies, for which they sent him a sword with an inseription. Military honors are paid to the members of the legion, as they are also to the bearers of the croix de Juillet, whieh has been granted to 1528 persons who distinguished themselves during the struggle of July, 1830. This eross takes preeedence of that of the legion of honor.

Legislatioy. (See Law, Appendix to this volume.)

Legislative Body (corps législatif); an assembly, in the time of the French eonsulate and cmpire, eonsisting of 300 persons, whieh had neither the right to diseuss nor to initiate a law, but merely to vote on a law proposed by the government and discussed by the tribunate (as long as that body existed), in their presence. The tribunate, on the other hand, had not the right to vote. It was an extremely lame contrivance, showing the politieal inexperience of the Frenel at that time.

Legislature, Houses of. Whether it is preferable to have two houses of legislature or one, has been a question on which politicians have maintained different opinions, though, at present, publie opiniou appcars to be in favor of two louses, the instanees of England and the U. States giving great weight to this division of the legislative power, and a single house in the ease of large nations seems to be ill adapted to modern representative governments. During the middle ayes, indeed, and as long as the assembiy of the estates existed, these formed, in general, certainly, only onc body; for, although the different estates may have met in different rooms, they had no proper independence of each other. In England, which has led the way in constitutional institutions, a happy conjunetion of cireumstanees early united the elergy with the ligh nobility into one house, and the lower nobility, or gentry, with the representatives of the eities, into another; whilst, in the countries of the European continent, the elergy, the nobility, and the representatives of the cities, although they constituted different estates (in some eases, the superior nobility [magnates] and the free peasants formed also distinet estatcs), made but one legislative body; and, in most cast $\sim$; the representation was so unequal, that the nobility and elergy entirely outweighed the eommons, threw all the burdens of the state upon the eitizens and peasantry, and prevented, almost entirely, the developement of constitutional
establishments. In England, however, the division into two houses has had the cffect of repressing the assumptions of different elasses, by making them mutually elueeks upon each other, dereloping eonstitutional and public law, and introducing gencral taxation, and has eontributed most cssentially to the superiority in politieal advantages of the English people over the other nations of Europe. (See the article Great Britain, division Parliament ; in that article, also, will be found an aceount of the priviteges of the two houses, and of the difference between them.) In the more important Euglisl colonial establishments, political institutious, modelled, to a eonsiderable. degree, on those of the mother country, have been introduced-a governor, with a couneil (appointed by the English govermment), and a house, or assembly, with members eleeted by the people. This is the ease where the extent and population of the colony warrants suel an organization, and where the colony does not belong to a company, or where the great number of natives, living interspersed with the eolonists, does not prevent such an establishment. Thus a eouncil and a house of assembly exist in the two Canadas, Nova Seotia, New Brunswick, the English West Indies, aud they existed in many of the colonies, whieh afterwards deelared themselves the United States of Ameriea. The latter estahlished, on deelaring theniselves independent, a congress, eonsisting of delegates from the several states, invested with certain powers by the artieles of confederation, and forming but, one body. After the elose of the revolutionary struggle, the federal constitution established a house of representatives, chosen by the people of the several states, and a scnate, consisting of members chosen by the legislatures of the several states for six years. The separate states also established eaeh tivo houses of legishature, with the exeeption of Vermont, whieh has but one. In Massaehusetts and New Hampshire, the senators are apportioned among distriets, with reference to the amount of taxes paid by the distriets respectively. In the other states, the rule of apportionment is that of numbers. In the tabular view of all the constitutions of the U. States, affixed to the artiele Constitution, the reader will find the term for whiel, and the conditions upon whieh, the members of the two houses are elceted, in the different states, and for the fedcral government. The Frencli revolution began by uniting the thrce estates in one
house, in 1789. Different constitutions were framed in rapid succession. The, constitution of Sept. 3, 1791 (monarchical), established but one legislative house. The constitution of June 21, 1793 (republican), declared, in section 39 , the legislative body "one, indivisible and permanent." The constitution of the year III, Sept. 23, 1795 (with a directory of five members), established a council of elders, consisting of 250 members, and a council of five hundred. The members of the latter were to be, at least, 35 years of age, those of the former, at least, 40 years. The council of five hundred had the exclusive right of initiating laws. Both were chosen for three years. The constitution of Dec. 13, 1799 (consular), established a legislative body, which could only adopt or reject propositions made by the government, and communicated and discussed by the tribunate. (Sce Legislative Body.) The members were chosen for five years. There was also a conservative senatc. (See Senate.) The consulate for life, and the imperial government, retained the legislative body, but the tribunate was abolished. The Charte Constitutionnelle at last established houses of peers (for life or hereditary), and of representa-tives-the latter on the basis of taxation. (See Charte Constitutionnelle, Eleetion, and France.) In the article France, it will be scen, that, in 1830, when the elder Bourbon line was declared to have forfeited the throne, it was provided, in the additions to the charter, that the organization of the peerage should undergo a revision in 1831 : the result we shall give under the article Peer. Poland, by the constitution granted by the emperor Alexander, has two honses-a senate, consisting of inembers appointed for life by the sovereign, and not by the viceroy, and a house of representatives. The kingdom of Norway has two chambers-the Logthing (1. v.) and the Odelsthing, both together composing the Storthing. (q. v.) Bavaria, Hanover, Würtemberg, Baden and HesseDarinstadt have each two houses. The constitution which Joseph Napoleon gave to Spain, July 6, 1808, establislıed one house, the cortes, consisting of three estates, -the prelates, nobility and people, with a semate, which, however, is not to be considered as a branch of the legislature. The constitution of the cortes of March 14, 1812 , established hut one house-the cortes. This organization was initated in Piedinont, Naples and Portugal, at the time of the respective recolutions in those countries. The constitution granted to

Naples by Joseph Napoleon, June 20, 1808, established one house-a national parlia-ment-consisting of five benches (sedili), those of prelates, nobility, landholders, learned ment and merchants. Lord Bentinck's constitution for Sicily (1812) established two houses. In Sweden, by the constitution of June 7, 1800, there is but one house, consisting of the estatesthe nobility, clergy, citizens and crown peasants. In the kingdon of the Netherlands, there were two houses of the statesgeneral, one composed of members for life; and, also, two houses of the provincial estates. Saxe-Weimar has but one house, as had Saxe-Hildburghausen, at least before its union with Meiningen. Under the article Netherlands, we shall give the new Belgian constitution, provided it is settled. In the Ionian Islands, there is a senate of 10 members, and a legislative body of 40 members. (Sce Ionian Islands.) The diet of Switzerland (Tagsatzung) consists of 19 deputies, who vote according to instructions from their respective cantons. The constitution of the German diet (Bundestag) is similar. (See Germanic Confederation.) Neilher of these bodies has any resemblance to the congress of the U. States. The constitutions of the new American governments, is Colombia, Prazil, Mexico, \&cc., have, in general, established two houses, ou the plan of those of the U. States. In Bolivia, the legishative department consists of three branches, the tribunes, the senators, and the censors. (See Brazil, Peru, Mexico, \&e.) We ought to mention, in connexion with this snl)ject, that, in most governments, the executive has also a legislative voice, in so far that its sanction is required to give the force of law to the acts of the legislative bodies. Thus, in England and France, the royal assent is neeassiny to the passage of a bill. In the U. Slates, the president, and, in the larger part of the states, the grovernors, have a provisional velo.
Legitimacr; from lex (the law), whence lcgitimus (conformable to law); hence legitimate children are the offispring of a lawful marriage ; and those which are borm out of wedlock are said to he legitimated when they are declared legitimate by the state. A person legitimates his clains when he produces legal pront of their justice. After the French revolution, in the last century, had deprived the Bourbons of the throne of France, to which they laid claim by virtue of their right of succession, and, in particular, after their recovery of it, in 1814, the word legitimacy became very common in the language of

European politics. The question Who is the legitimate ruler? is intimately connected with the general sulject of sovereiguty. (q. v.) Formerly, when political questions were treated less scientifically, legitimacy was not so much a point of contest. States, countries, nations, passed ly inheritance, conquest, marriage contracts, \&c., and the legitimacy of a prince was decided, generally, like an aflair of ordinary diplonacy; less, howe ecr, in the case of England than of the continent. But when the allies dethroned Napoleon and his brothers, they wanted something to oppose to the clains which he derived from his election by the pcople. A phanton was therefore created, at the cougress of Vicnna, called legitimacy, and, since that time, has been constantly used, hut never defined, which, indeed, it cannot be, because the facts before the world are too stubborn for this theory of the hereditary descent of nations, like common property. If this right of inlicritance could be proved, legitimacy would be something very easily definable; but there is a difference between an estate and a nation. The Austrian Observer, a semiofficial paper, in order to prove the Turks legitimate masters of Grecce, once defined legitimary thus: "Every sovercign is lcgitimate who is such by a long series of treaties with other lawful sovereigns." Austrian logic! Misconceptions of certain passages of the Ohd Testament, a confusion of religions and political ideas, together with feudal views surviving the institutions which gave them birth, have involved the question of legitimacy in great obscurity. The most absurd doctrines have been broached in the attempt to support this doctrinc of the holy alliance, and other follies, which have been maintained at the expense of the blood and happiness of nations. The people of a republic, of course, need no arguments to convince them of the futility of the theory ; but we might say to the European advocatcs of legitimacy, that it has no foundation in history. If force is to he adopted as its basis, don Miguel is the legitimate ruler of Portugal. If it rests on long possession, we might ask how many generations are required to legitimate robbery; or we might say, with Luther, that, on this principle, Satan is the most legitimate of rulers, because lis kingdoin is the oldest. In our prosuic times, those who rest the right of sovereignty on birth cannot, like the ancients, nake a Jupiter or an Apollo the founder of a royal liue, and deduce the divine right of princes
from their divine descent; and, if they look no higher than a human ancestor, it will be hard to prove the dircet descent of many a princely house from the source whence it derives its claims to sovereignty. The memoirs of courts show how often plebeian blood has been mixed with royal. But it is needless to spend time in refuting a theory which even Clateaubriand, once its stanch defender, has disclaimed. In a late specch, he says, "I do not believe in the divine right of kings," and "monarchy is no longer a religion ; it is a political form."* For all who consider the state as a society of men with equal rights, and the government as establishicd for their welfare, the question is easily solved. He who rules with the approbation of the people is legitimatc. If, after subunitting, for a while, to one family, they choose to transfer their allegiance to another, they have, incontestahly, the right to do so. The mistakes to which they may be liable, in nsing their rights, do not affect the rights thenselves. The good of the people is the solc object of government, and no title, lowever high-sounding, or old, or well-earned, can contest with it. History, moreover, is full of instances of reigning houses displaced by revolutions, and succeeded ly others, which have been considered legitimate, on account of their acceptance by the people. [As this question has afforded, and is likely to aflord, so much dispute in Enrope, the following article is given from the Gcrman Conversations-Lexicon. Every one knows what a shock the doctrine of legitimacy lias received from the late revolutions, particularly that of France, and it is not necessary for us to attempt a formal refutation of such parts of the following article as may be objectionable.] The word legitimacy is now commonly used, in Europe, to denote the lawfulness of the governinent, in a hereditary monarchy, where the supreme dignity and power pass by law from one regent to another, accoriling to the right of primogeniture. In this sense, Napolcon Bonaparte is called an illegitimute ruler of France, though he was acknowledged hy the French nation, and by other powers (even by England, which negotiated and concluded with him, as first consul, the peace of Amiens). Louis Stanislaus Xavicr, on the contrary, as the

[^18]eldest brother of Louis XVI, is called a legitimate ruler of France, because (agrecably to the Salic law, which prevails in the French monarchy), after the death of Lonis XVI, his son was to succeed to the throne, under the title of Louis XVII; and, as he dicd without children or brothers, and his sister (the present duchess of Angoulème) could not succeed, his first uncle (formerly count of Provence) was to be considered as Louis XVIII, although the Bourbon dynasty, in fact, ceased to rute at the death of Lonis XVI. This signification of the word is plainly too limited; for, 1 . it is not adapted to states with elective governments, notwithstanding a regular government is cstablished in them, as well as in hereditary states, by constitutional laws, and consequently there are legitimate rulers in them; 2. it is not adapted to hereditary states, if the reigning family becomes extinct, when a new family must be called by the nation to the throne, or a different form of hereditary succession be adopted in regard to the persons who are to fill the highest offices of dignity and power. But there is an error, also, at the very foundation of the above definition of legitimacy: it supposes that the state, that is, the people living in a certain territory, in civil union, is the private property of a single family, transmissible, like all other private possessions, from the parents to their children, or other relations, as long as any branch of the family is living; for one inan can never, rightfully, be the property of another-still less a multiturle of people, in civil union, or a state. If the idea of property was applicable in this case, the ruler ought rather to be called the property of the statc, than the state the property of the ruler; but the idea does not admit of being applied to the relation existing between a state and its governor. This relation can be properly considered only as a contract, by which the dominion of the state is given to the ruler, whether the compact be merely virtual and tacit, or express and formal, and whether the supreme power is given to a definite individual, who is appointed anew every time, or to a whole family, from which the rulers are to succeed one another, withont a fresh choice, in order to prevent the dangers attendant on frequent elections. But there is another and more comprehensive signification of the word legitimacy, by whicl! we are to understand the order existing in a state,and established lyy law, with respect to the form of government, and the persons to whom
it is intrusted. The historical origin of this order is not to be taken into the acconnt, but merely the fact that it is established by the law (which, in theory, expresses nothing else than the universal will, or the will of the people), and has thus gained the form of a right. If we look to history, we shall find few governments that have a claim to legitimacy as having been lawful in their origin. As regards the Bourbons, it is well known that Hugh Capet, the founder of the third dynasty of the French kings, from whom also the Bourbons descended, gained the French throne, to the injury of the existing sovereigns, by his courage and ability, in the tenth century. If it is asserted that illegitimate authority was made legitimate by being transmitted from one person to another, then it must be conceded, that, if Napoleon had died before his abdication, and left the power to his son, the latter would have been a legitimate sovercign of France, and consequently there would have been two legitimate dynasties in the kingdom-the Bourbon and the Napoleon; but it is not easily understood how mere transfer can make that power legitimate which was at first illegitinate. It cannot be considered the same as prescription (prascriptio); for prescription only takes place when a positive law, relating to the rights of private persons, has fixed a certain period, within which some result takes place; but neither national law, nor the laws of single states, fix any kind of prescription in regard to the rights of a government. A ruler, in truth, becomes legitimate, if the people submit to him, and thus in fact, if not formally, consent to cede to him the supreme dignity and power; but this was the case with Napoleon. The French people acknowledged him their sovereign-first under the title of first consul, and afterwards under the title of emperor; and the state of things thus established in France, was approved even by foreign powers. The French nation cannot have been forced to submit to him, because, when he took the reins of the government, he had come from Egypt without an army, and his power was far too small to subdue the whole French people. Grant that one party was unjust in declaring the family of Louis XVI to have forfeited the throne, still the French princes, hy their flight from France, had, in a manner, banished themselves, and resigned their claims to the throne; for these claims could not be maintained by words merely, but required action. They were not permitted to leave the king, with
whose person all their rights were ronnected; on the contrary, they were bound to defend lis person and his rights, as a sovereign, even at the peril of their lives. But, as they regarded only their own safety, and deserted France and its throuc, it might easily be shown that they, in fact, renounced their clains, and even promoted that anarchy, from which none but a mighty liand could rescue their country. If now France acknowledged its deliverer (for such Napoleon, at that time, indisputably appeared) as its monarch, because the old dynasty suffered its claims to be overlocked, what was wamting to make lim a legitimate sorereigu? But this legitimacy wes wanting, when, on his return from Elba, he undertook to resume the throne of France; for, in this case, he overthrew an existing political order, and occasioned a kind of anarely. A large part of France formally withstood him, and refused to send representatives to the champ de Mai, where he intended to establish his legitimacy. Moreover, no forcign power recognised liis authority. What the event would have been if Napolcon had prevailed at Waterloo, cannot be determined; but it is certain that the modern French theory of legitimacy would have been subjected to the greatest difficulties. This theory, however, has never been reduced to practice, but only the more limited onc aboveexplained, as is proved by history in general, and, particularly, by the history of England, where the throne of the Stuarts is now occupied by sovereigns, whom all the world looks upon as legitimate, though, till the death of the last pretender, they must have been viewed, according to the ultra theory, as illegitimate. This leads us to the conclusion, that the proper point of view for considering legitinacy, at present, in Europe, is not, in relation to the lawful title to power, but only to its actual existence; and that the national law of modern Europe, while it aims to put an end to the convulsions of the last 30 years, is founded on the support of the present state of things with the changes confirmed ly the unanimous consent of the principal European powers. Hence arises a very definite notion of legitimacy, wholly free firom the difficultics which occur in accounting for the lawful origin of power. For, on this ground, it is no longer necessary to show how a national govermment and dynasty was established in early times, but only that it is now acknowleilged. The acknowledgnent is that of the European powers,
so called by way of eminence ; that is, areording to the use of the term since the congress of Vicnua, in 1815, of all those states which do not depend entirely for their existence on a federative mion ; or of the eight powers which signed the peace of Paris; or, in a more limited sense, of the five powers which sent their commissioners to the last congress. In this practieally adnitted signification, legitimaey relates not merely to the dynasty, but also to the forms of government. It holds strict monarchical prineiples, as a general rule, and allows only the few actually existing exceptions; but it would be impossible to acknowledge an antimonarchical change, even thongh it were proposed voluntarily by the sovereign himself; for with this idea of legitimacy is elosely comnected the right of the European powers to prevent, by force of arms, any alterations in thie government, which are opposed to the monarchical prineiples of other states; and as, in this, it has reference only to the dangers whieh may acerue to other states from the establishment of republican institutions in any one, it considers only the fact of their existence, not the manner of their origin. The right of armed interference in the internal affairs of foreign states, it is well known, has never been disputed, but by England and America. Incleed, it has been naintained, even by philosophers (Kant,Zuin ewigem FYiedenOn perpetual l'eace) who make it a fimdamental article of international law, that no state should be without a representative govermment. This right of armed intervention, however, admits of serious question : if it was once ackno wledged, it inight be used, also, by republics. In addition to the importance of the doctrine of legitimacy, in regard to suljects of international law, it is equally important as respeets the internal government of a state ; as it depends chiefly upon this to decide how far the acts of a govermment, merely usurped, can be obligatory on the legitimate government, if it should be again restored. This obligation can neither be maintained, nor denied, unconditionally. It is impossible to declare all those acts of the public authority, which have taken place during a long usurpation, invalid. It would be equally absurd to treat as absolutely unalterable all abuses of justice (coufiscations, penal laws, attackis upon the private property of the legitimate ruling house) by which the usurpation was attended. If the previous sovercigu, therefore, is deposed, no onc can refuse to
the people the right of subinitting, at least for a season, to that power which lias been establislied in the place of the legitimate government, especially when the latter has ceased to struggle against the usurper, or continues its resistance without sufficient means. This priuciple was nowhere expressed so early and so decidedly as in England; for nowhere has there been such a variety of governments, which were afterwards declared to be mere usurpations, as there, during the contest, for 64 years, between the houses of York and Lancaster, and, subsequently, at the time of the commonwealth and of Cromwell. Hence the English early learned to distinguish actual sovereignty (government de facto) from legal goverument (government de jure), and laid down the position, that subjects were bound to yield obedience, even to a usurper, as long as he is in full possession of public power, and that they are equally guilty of high treason in forming conspiracies against such a usurper, as against the lawful monareh. (This is said by sir Matthew Hale, in his Pleas of the Crown, i, 60; Blackstone, Commentaries, i, 370 , and iv, 77.) Accordingly, under Edward IV of York, when he had deprived the house of Lancaster of the throne, in the person of Heury VI, persons were punished, who had been guilty of treason against the last king of the deposed house; and an express law of Henry VII, in the year 1495 , declared all persons innocent, who had promised or yielded obedience to the king de facto (the usurper). Although Charles $1 I$ numbered the years of his reign from the death of his father (Jan. 30, 1649), yet all the acts of the interregnum remained in full force, unless they were necessarily repealed by the enactment of new laws. In France, at the restoration, the statesinen were obliged to adopt the same principle. The idea of legitimacy is to be considered, moreover, in reference to the limits of the power of sovereigns, as well the natural and universal, as the positive or conventional. Even the ancients distinguished tyranny-power without a just foundation (tyrannis absque titulo, or (Isurpation)-from the unjust use of power in itselflegitimate (tyrannis exercitio); and, if legitimacy is once viewed as a principle of national law, it must necessarily be as much an object of support, in this latter relation, as it is against usurpation and revolution. The maintenance of the existing state of things is as much required in this view as in the others, and for a higher purpose. If the European powers
are justifiable in maintaining their monarchical principles, they are no less authorized to maintain them in their purity ; that is, as the means of legal authority, and to prevent the ruin of those institutions by which they are to be kept from degenerating into despotism ; or, if these iustitutions have already been destroyed, to renew them, as prudence and the spirit of the times will allow. This authority, which may be deduced from a necessary duty, they have particularly when it is requisite to support an existing government, by arms, against usurpation or the violence of the mols. When this view of legitimacy finds place among the practical principles of national law (and it cannot be said to be rejected, as much has already been done in its spirit), an important step will have been made towards the accomplishment of the grand project of universal order, a universal tribunal, and universal peace. (See Malte Brun's Traite de la Légitimité, \&e., Paris, 1825; and the articles Aix-la-Chapelle, Congress, Holy Alliance.)

Lenvans, Jolin George ; a major in the royal Saxon army, and the inventor of a method of topographical drawing, which is called after his name. He was the sou of a miller in humble circumstances, and born May 11, 1765, at Baruth, in the former Saxon electorate. His early education he received from the village sinith, and afterwards worked in the mill. The reeruiting officers, who often attacked the lower class of people in disguise, waylaid him, and carried him off to their quarters, as he was walking to church. Lelmann soon distinguished himself by his industry and skill in writing and drawing. In 1793, he obtained his discharge, in order to devote himself entirely to topographical labors, and surveyed about 500 square miles in the Erzgebirge, together with several private estates. The want of the common facilities for surveying, led him to the invention and application of those important rules, which are found in the second volume of his work. Lehmann also gained much experience in regard to the origin and constitution of single elevations, and of mountainous chains, and afterwards founded upou it his mode of topographical drawing, translated into English by Siborn. He made the campaigns under Napoleon, in the Saxon ariny, and performed important services. Napoleon held him in high estimation. By constant application to his profession, he contracted a disease which finally terminated his life, Sept. 6, 1811. His system is of great importance to the soldier. It was pub-
lished, after his death, by professor Fischer, with Lehmann's last improvernents.

Leibnitz, Gottfried Wilhehm, baron of, one of the most celebrated scholars and philosophers that Germany has ever produced, was bom at Leipsic, July 3, 1646. His father, who was professor of jurisprudence in that city, died before his son had completed his sixth year. Leibnitz attended the school of St. Nicholas, in Leipsic, till he was 15 years old, without, however, adhering strictly to the prescribed course, as he was devotedly attached to Livy and Virgil, among the Latin writers. The latter he knew almost entirely by heart, and, even in his old age, he used to repeat whole books of his poems. He was soon distinguished for rapidity of comprehension and facility of expression. At the age of 15 years, he began his academical course at Leipsic, and, although his principal study was ostensibly law, he paid partieular attention to mathematics and philosophy, at that time taught by James Thomasius. He passed one year at Jena, in order to avail hinself of the instructions of the celebrated mathematician Ehrhard Weigel. After his return to Leipsie, he studied the Grecian philosophy. He gave a splendid proof of his progress, in his philosophical dissertation De Principio Individuationis, which he defended under Thomasius (1664), and which was followed by several legal treatises, e. g. De Conditionibus (1665), and by a renarkable philosophico-mathematical treatise, De Arte combinatoria. In his 20th year, he presented himself to the legal faculty, as a candidate for a doctorate, but was refused on account of his youth, and received his degree at Altorf. He was offered the place of professor extraordinary of law, in that university, but he preferred going to Nuremburg, where there were many distinguished men. The baron Von Boineburg, minister to the elector of Mentz, having become acquainted with him, withdrew him from a society of alchemists, in that city, with which he had connected himself, and, promising him a place in the service of the elector, induced him to fix himself at Frankfort on the Maine. Here appeared, in 1667, his Nova Methodus discenda docendæqqe Jurisprudentia, which is remarkable for its clear, and, at the same time, profound views, and which, at the request of his patron, was soon followed by a treatise, in which he endeavored to prove to the Poles, that it was for their interest to elect the prince of Neuburg king, in preference to any of the other candidates. At the suggestion of

Joineburg, he was now named an electoral counsellor,and chancellor ofjustice; but this business could not satisfy a mind thirsting for knowledge. He contimued his literary labors, and published his Theoria Motus abstracti, and Theoria Motus concreti (1671, -two physical inquiries, remarkable only for the boldness of their views), and also his Sacrosancta Trinitas, per nova Argumenta logica defensa, a work directed against the attacks of the Pole Wissowatius, on the doctrine of the Trinity. In the mean time, the literary splendor of Paris had attracted his attention, and he willingly undertook to accompany the young Boineburg thither (1672). 'The distractions of this capital did not draw him from his studies. He applied himself particularly to mathematies, and enjoyed the aequaintance of the celebrated IIuygens, whose expectations he answered by the invention of un arithmetieal machine, similar to that of Pascal. His patron, Boineburg, died 1673, and Leibnitz, who had nothing to detain him longer in P'aris, declined the place of pensioner in the academy, as it would have been necessary for him to embrace the Catholic religion, and went to England, where he became acquainted with Wallis, Bayle, Oldenburg and Newton. He then applied to the duke of Brunswick-Luneburg, who gave lim the office of counsellor, and a pension, with permission to extend his residence in foreign countries at his pleasure. Availing himself of this permission, he returned to Paris, where he spent 15 months, devoted entirely to mathematics, and then returned, hy the way of England and Holland, to Hanover, where he arrived 1676 , and immediately entered upon the superintendence of the library, which was his principal duty. Here lie soon published his treatise De Jure Suprematus ac Legationis Principum Germania, and labored, with great zeal, to effect the publication of the Acta Eruditorum. On the death of the duke of Brunswick, his successor commissioned Leibnitz to write the history of his house. In order to consult the documents neccssary for that purpose, Leibnitz went (1687) to Vienna, and (as the old counts of Liguria, Tuscany and Este were sprung from the same source as the house of Brunswick) thence to Italy. The three years which he spent in making these tours of investigation, supplied him with an immense mass of diplomatic and political materials, the smallest portion of which appeared in the work he had undertaken: the remainder was published in 1693 and 1700 , under the title Codex Juris

Gentium diplomaticus, and Manlissa Codicis. At the same time, he employed himself in arranging the materials which he had collected for his historical undertiking, aud, after laving published ant essay on the counexion between the houses of Brunswick and Este, which procured him the appointnuenis of privy counsellor of justice, and historiographer, he gave to the world (1707-11) Scriptores Rerum Brunsvicensium ( 3 volumes, folio). But this important work was only a preparatory step. The history itself was never published: the outline only was found among his papers after his death, and published in the Acta Eruditorum for $171 \%$. According to this plan, we should have had a general account of the primitive condition, not ouly of Germany, but of the whole world, in confornity with the views given by Leibnitz in his Protogra. (See the Acta Eruditorum for 1693.) The Accessiones historicr, and the Disquisitio de Origine Francorum, were published at Hanover, in 1715. As Leibnitz displayed a profound knowledge of history in the above-mentioned works, so he slowed a no less intinate acquaintance with theology , in his attempts at forming a plan for reuniting the Protestants and Catholics, in which he spent much fruitless labor, iu conjunction witi Molarus and Bossuet. Among lis plans for the good of mankind, may be mentioned his exertions to invent a universal character, and a common philosophical language (pasigraphy). His labors in another scientific undertaking were better rewarded. The clector of Brandenburg (afterwards Frederic I, king of Prussia) requested his advice in the cstablishunent of the royal academy of sciences at Berlin, and, when the institution was completed, according to his plan, the elector made him president of the academy (1700). Leibnitz furnished a great part of the papers in the Miscellanea Berolinensia, which the new academy publishell in 1710. On the death of the king, threc ycars after, his successor laving little taste for the sciences, Leibnitz foresaw the fall of the society, and therefore hastened to Vienna to obtain for it the protection of the emperor Charles VI. His efforts were unsuceesstul, although he received a most flattering reception from the emperor, who luad already conferred on him the diguities of baron, and of aulic counsellor, with a pension of 2600 florins. He also had an interview with the czar Peter, at Torgan (1711), who, in return for his advice concerning the civilization of his vast empire, couferred on lim the title of privy coun-
sellor, with a pension of 1000 roubles. Loaded with honors, he crowned his literary fame by his celebrated Essai de Théodicée ( 1710 ), in which he maintained the doctrines of preëstablislied harnony and optimism, and which was followed (1715) by his Essai sur l'Entendenent hu1main. The life of this individual, so lighly favored by fortune, was not entirely free from calamity. His unfortunate controversy with Newton, concerning the discovery of the differential calculus, and the pains of the gout, imbittered the close of his active life. He died in his 70 th year, Nov. 14, 1716. His monument, constructed in the form of a temple, bears the simple inscription Ossa Leibnitii. Leibnitz was of the middle size, thin, but of firm health, with a habitual stoop. His hair was black in his youth, but labor early rendered it white; and his eyes, which were short-sighted, were strong, even in old age. He had a pleasing countenance, a warm temperament, and as much aninsition in his deiivery as he had in his labors. He studied during nearly the whole night, aud often took lis sleep in his clair, which is preserved in the library at Hanover. Reading every thing, without distinction, he contented himself with making short extracts, on little pieces of paper, which he kept in different compartments, though his memory was so excellent that He had little need to refer to them. His correspoudence, which extended even to China, together with the other relations which he maintained with different classe3 of men, took up a great part of his time. In his intercourse with others, he was easy, without arrogance or jealousy; irritable, but quickly reconciled. His expenses were very moderate, and his enemies reproached him witl avarice. He was totally negligent of his domestic affairs, and was never married. The spirit of the age, the study of the older systems of philosophy, anong which the Grecian had occupied much of his attention, and, above all, the mathematical turn of his mind, combined to produce his peculiar system of philosophy. Ile expected to reform philosophy hy giving it this direction, and he hoped to establish its principlce in such a manner that the strife between different parties would cease of itself: On this account, he was in favor of rationalisin (q.v.), in the sense in which it was maintained by Plato, aud the system of demonstration, which prevented him from entirely rejecting the scholastic philosophy. There are in philosophy, as in mathematics, necessary truths, which
cannot be learned from experience, but must be grounded in the soul itself, as they rest on principles, the proof of which is independent of the evidence of the senses. This forms the basis of the Leibnitzian rationalism, the principal characteristics of which are a peculiar theory of knowledge, the doctrine of Monadology, and the Theodicea, or doctrine of optimisin. With regard to knowledge, according to this system-1. The nccessary truths are innate in the soul, not, indeed, actually forming objects of knowledge, but capable of being called forth by eircumstances. Whatever is derived from the senses is confused, and distinct knowledge is possessed ouly by the understanding. These views are opposed to the empiricism of Locke. In order to attain truth, it is necessary to use the rules of logic, as mathematicians also use them, by unfolding, analytically, the simple truths contained in a subject, until the fundanental truth is attained. The Cartesian criterion -clearness and distinctuess-is not sufficient. "Our conclusions," says Leibnitz ( $O p$. ii, 24 ), "rest on two great principlesthe prineiple of contradiction (according to which we deem that false which involves a contradiction, and that true which is opposed to falsehood), and the prineiple of the suffieient reason (which teaches that no assertion is true, if no sufficient reason ean be given why it is true, rather than false), which leads to an absolute final reason, independent of aceidental circumstances. But the final reason of the certainty of innate necessary truths is in Good, as the source of all necessary and eternal truth. 2. Monadology forms the central point of the system, and Leibnitz believed that, in this, he had discovered the fundanental basis of actual knowledge. All experience teaches us that there are compound substances; consequently there must be simple ones. The senses give us only confused, the understanding distinct, knowledge; and the simple, which cannot be recognised by the senses, is the ground of the compound. These simple substances, from which the compound are formed, and each of which differs, in its qualities, from all others, since there are no two things exactly alike, Leibnitz calls monads, of which he assumes four sorts-pure monads (or living beings), the souls of beasts, the souls of men, and God, who, as the origin of all knowledge, of reality, and of the existence of things, the eternal, original Monad, he calls the Monas monadum. All created monads are united with bodies, or, rather,
all finite beings are aggregates of monads, some having a central and governing monal. The different classes of monads eonceive of the universe with different degrees of distinctuess: God alone coneeives it perfectly. There is no actual influence (influrus physicus) of one thing on another, but only an ideal comexion; i. e. the internal changes of cach monad are so arranged as to agree with the changes in the monads immediately connected with it. The cause of this agreement is the infinite wistom and almighty power of the Deity. The divine understanding is the prototype of all truth, beauty and absolute good, and by it all the interior changes in the monads were so pretetermined, that there is a perfect harmony in their succession. This predetermination or established harinony was arranged by the Godhead when the plan of the world was formed. 3. The Theodicea is the defence of the supreme wisdon of the Creator of the work, which had been impugncd, on account of the existence of evil. Such a Theodicea Leibnitz attempted, particularly on account of the contrary views brought forward by Bayle. According to the Leibnitzian system, an infinite number of worlds are possible in the divine understanding; but, of all possible ones, God has chosen and formed the best. Every thing which really is, is best in connexion, even if, by itself, it is imperfect. This system is therefore denominated optimism. Each being is intended to attain the lighlest degree of happiness of which it is capable, and is to contribute, as a part, to the perfection of the whole. The existence of evil is no argument against this system, because metaphysical evil is merely a necessary imperfection in the nature of finite things, from which imperfection, physical evil (suffering) and moral evil (sin) necessarily proceed. Moral evil is founded in the freedom of finite spirits, which consists in choosing, according to grounds of preference, one among many physically possible actions; for, although every thing in the world is necessarily determined, still man, being ignorant of the future, must act from the convictions of his reason. Leibnitz nowhere makes a complete connected exposition of this philosophical system, but has only proposed it in his writings, by pieceneal, and it is therefore difficult to follow his course of thought. This is not the place to enter into a more critical examination of the value of these hypotheses; it is sufticient to obscrve, that they liave been of
the greatest scrvice in promoting the progress of reason, as they have given that impulse to the philosophical world, which his mathenatical discoveries, to an account of which we now proceed, gave to the mathematicians of his time. His attention was carly dirccted to mathematical researches; and, in a letter to the countess of Kichamnsegge (1716), he relates, that, even in his loith year, he was oceupied in considering the differences of those numbers whose succession forms a regular series. He thus arrived at the law of constant magnitudes, which is always found exactly, or by approximation, if the members of the serics, and then their first, secoud, \&c., differences are suhtracted from cach other; but, when he was in England, wishing to publish his supposed discovery, he found himself anticipated by a French mathematician, Regnault. A second similar affair induced him to study Mercator's Logarithmotechnica, which he carried with him to France, where he surprised Huygens by commnunicating to him lis discovery of an infinite series for the surface of the circle, similar to that of Mercator for the hyperbola. This was made known by Oldenburg to Newton, who congratulated Leibnitz on his discovery. Animated by this result, Leibnitz resumed his researches into the difference of numbers, and, in this way, he was led to the discovery of the differential calculus. In a letter of June 21, 1677, hc communicated this discovery to Oldenburg, for Newton's examination. In comparing the whole course of reasoning which he pursues in his calculations, with the views which lie at the foundation of Newton's method of fluxions, not the least similarity can be discovered between the two methods; which is the best proof that each of these great men, in reality, attained the same result for himself, entirely independent of the other. Leibnitz, however, reccived no answer from Newton to this remarkable letter, and things remained in this state till 1682, when the Icta Eruditorum was commenced. Leibnitz was, from the beginning, onc of its most active contributors, and, in the October number of 1684, he published a complete account of his differential calculus, exactly as he had communicated it to Newton. It is worthy of remark, that, at this time, no one questioned the claims of Leilnitz to the discovery of this new node of calculation. On the contrary, Newton publicly acknowledged the merit of the German, and made the most honorable mention of him in his Prinvol. vir.
cipia. Leibnitz continucd, with untiringactivity, to nake improvements in his inethod. The differential calculus, together with its converse, which Leibnitz called summato$r y$, but to which John Bernoulli gave the name of integral calculus, was in high esteem on the continent, and had been nuch used and extended, both by Bernoulli and the marquis de l'Hòpital, when, in 1699, 22 y cars after the letter of Leibnitz to Newton, which was dated June 21,1677 , and 15 years after the publication of the theory in the manner already mentioned, in the October (1684) number of the Acta Eruditorum, it was contended, for the first time, by Fatio de Duillier, that Newton was the discovercr of this mode of reckoning. This article was written in an offensive tone, and Lcibnitz answered it in the Acta Eruditorum. His reply, for a time, put an end to the dispute ; but, five years afterwards (1704), Newton, having published his Optics, at the close of which he appended an exposition of his method of fluxions, which he clained to have invented as early as 1666, the . Acta Eruditorum gave an extract from this work in the next year, and, by making a comparison betweenthe method of fluxions and the system of differential calculus, to the disadvantage of the former, awakened anew the dispute between the parties. Keill, professor of astronomy at Oxford, declared, in the Philosoplical Transactions for 1708 , not only that Newton was the original inventor of the new system, but that Leibnitz lad formed his upon Newton's morcly by changing the expressions and the signs. Leibnitz, therefore, wrote to Hans Sloane, secretary to the royal society, to request the society to decide between him and Kcill. The society imnediately named a conmitter, who came to the following conclusion, that, in reakity, there was no difference between the differential calculus and fluxions, and that the question did not turn on the invention of the one or the other, but on priority, with respect to which there was strong proof that Newton had possessed the systen 15 years before the publication of Leibnitz's article in the Acta Eruditorum, and that, therefore, Keill's asscrtion concerning Leibnitz could not be considered as a calumny. This decision of the society only rendered the schism between the parties wider; and Leibnitz rendered the quarrel irreconcilable, by sending a letter to the abbe Conti, who was then in England, and acted the part of a mediator between the parties. In this letter, which was intended to be
shown to Newton, among other offensive expressions, he gave him to understaud, that it was impossible that he should have invented the algorithon of infinitely small magnitudes hefore himself. Newton replied throngh Conti ; and the dispute continued till the death of Leibnitz. Lewis Dutens, secretary of legation in the English service, published the most complete and accurate edition of the works of Leibnitz-Go. Guil. Leibnitii Opera omnia (Geneva, 1768, 6 volumes, 4to.). In Dutens's edition, however, all those philosophical works are omitted which Raspe had published (Ainsterdam, 1760, 4to.), under the title Euvres philosophiques de M. Leibnitz. Both collections should be united. Dutens did not accomplish his undertaking without great difficulty, and he describes, in a very interesting manner, the obstacles he encountered in collecting writings so numerous and so widely scattered, and his correspondence on the subject with Voltaire, in his Mémoires d'un Voyageur qui se repose (volume i. p. 248). Eccard, his intimate friend, and, after his death, lihrarian at Hanover, first wrote the life of this extraordinary man, who had surveycd the whole field of science with a penetrating eyc. We have also eulogies ou him, by Kästner (1769), by Bailly and Fontenelle.

Leicester; a town of England, the capital of Leicestershirc, on the Soare, in the centre of the finest wool district in the kingdom. The chief manufacture is that of combing and spinning wool, and naking it into stockings ; and, in this busincss, it is, except Nottingham, the principal town in the kingdom. It sends two members to parliament. The number of voters is about 2000. Population, 30,125.

Leicester, Earl of. (See Dudley, Robert.)

Leighton, Robert, a pious Scotch prelate, was horn in London, in 1613, and educated at the university of Edinburgh. He was subsequently sent to France, and, on his return, obtained Presbyterian ordination, and was settled at Newbottle, near Edinburgh. Disapproved of by his Presbyterian brethren, as not sufficiently polemical in his discourses, he resigned his living, and was soon after chosen principal of the university of Edinburgh. When Charles II resolved to reëstablish Episcopacy in Scotland, doctor Leighton was induced to accept a bishoprie, but chose the humblest of the whole, Dumblain, and would not join in the poinpous entry of his brethren into Edimburgh. He nevertheless became archbishop of Glasgow,
chiefly impelled, it is believed, by a hope of furthering a scheme of reconciliation between the Presbyterians and Episcopalians. Disappointerl in this hope, as also in his wishes to moderate the acrimonious feelings of both parties, he went to London, and requested leave to resign his sec ; but his resignation was not accepted. He never, however, returned to Scotland, and died in London, Fcb. 1, 1684, in the 71st year of his age. Archbishop Lcighton was celcbrated for his gentleness, moderation and disinteresteduess ; for, although his bishopric produced only $£ 200$, and his archbishopric barely $£ 400$ per annum, he founded exhibitions both in the colleges of Edinburgh and Glasgow. As a preacher, he was adinired beyond all his contemporaries, and his works have not yet lost their popularity, a complete edition of them having been puhlished in 1808 ( 6 vols., 8 vo.), with a life of the author.

Leipsic (properly, Leipzig). There is, perhaps, 110 city in Europe, of its size and nopulation, so important in a literary, cominercial and historical connexion, as Leipsic. At the end of the tentle century, a little Sclavonian village stood in the anglc formed by the confluence of the Parde with the Pleissc. It received its name from the numcrous lindens (Sclavonic, lip, lipa) in the neighborhood. The first mention of Leipsic, as a fortified city, with walls and ditches, is in the twelfth century, in the time of Otho the Rich, who established the two fairs of Easter and Michaelmas. The bull which Alexander V issucd, in 1409, for the establishment of the university, calls it "the populous and spacious Lipzk." The city itself, at that time, was probably of the same extent as at present, for the ditch surromending it existed in 1454. But during the peace which followed the seven years' war, the fortifications fell into dccay, and the ditch was converted into a garden, which, instead of ramparts, encircled the whole city. With the increasing prosperity of the citizens, the city received new embellishments. Leipsic stands in a large plain, which is fertile, and enlivencd by thriving villages. According to Oberreit, the observatory is situated in lat. $51^{\circ} 20^{\prime} 19^{\prime \prime} \mathrm{N}$., lon. $12^{\circ} 21^{\prime} 45^{\prime \prime}$ E. Population, 41,000. The plains of Leipsic are watered by four rivers-the Pleisse, the Elster, the Parde, and the Luppe. The city has four gates, and is divided into four quarters, containing seven squares, six principal streets, and twelve small streets. The principal public buildings, some of which are fire speci-
mens of architecture, are, the town-house, built in 15.9 , the exchange, the churches of St. Thomas and St. Nicholas, the St. Thomas school, the Auerbach court, the Pleissenburg with the ohservatory, the cloth hall, \&c. Among the inhabitants are many descendants of the fugitive Huguenots, Italians, and some Jews, enjoying protection. The commerce of Leipsic, which draws foreigners from almost all nations to the great fairs, has not, indeed, the extent which it had 25 years since, but it employs, nevertheless, directly or indirectly, the majority of the inhabitants. Between 8000 and 9000 purchasers assemble at the great fairs. The principal articles are horses ( 400 to 500 select animals is the average number offered for sale), peltry, cotton stuffs and cotton, wool, colonial products, English and Freuch goods, and the productions of the Erzgebirge, books and works of art. There are, in the city, about 300 retail dealers, and 200 wholesale merchants. Traders often come hither from distant comatries-Greeks, Russians, and even Persians. The book-trade of Lejpsic is unique. Every German publisher has an agent there, who receives and disposes of his publications. The agents send packages of books, twice a week, to all parts of Germany. Twice a year, a book-fair is held at Leipsic, which is attended by booksellers from all parts of the country. Some Frencl, Kussian and English booksellers are also present. The Leipsic annual catalogue of books shows the imnense number that are written in Germany. Manufactures, in general, lave been pursued with little success in Leipsic ; but the manufacture of gold and silver thread, of tobacco, of playing-cards, oil-cloth, besides printing and type-founding, have profitably employed, for years, a large number of workmen. The university library, of ahout 60,000 volumes, with 1600 manuscripts, is principally rich in the philological and medical departurents, as well as in ancient theology. It was formed from the libraries of the suppressed monasteries. The public library, founded in 1605, contains valuable treasures of history and jurisprudence. The collections of paintings of Speck, Keil, and other private individuals, are uncommonly extensive and easily accessible to amateurs. To the young musician, Leipsic affords great opportunities of improvement. The principal productions of modem instrumental music are here heard in great perfection. For centuries have the two learned sehools of St.

Thomas and St. Nicholas been celebrated. Gesner, Emesti, Fischer, Reiske, were educated here. The university was founded in 1409, by a great number of the students from Prague, with their teachers, on which occasion the elector Frederic the Quarrelsone, and his brother Willian, took, as the models of the new institution, the universities of Prague and Paris. Many of the most famous scholars of Germany have taught in this institution, which now numbers 1300 students and upwards of 70 professors. Botanical gardens, hospitals, and other necessary' establishments, are connected with the university.
Leipsic, Battles of. Twice have the destinies of Germany been decided by arms on the plains of Leipsic-Sept.7,1631, and Oct. 18, 1813; and the battle of Nov. 2,1642 , was by no ineans unimportant in its consequences. In the battle of Scpt. 7, 1631, the military talents of Gustavus Adolphus, and the superior tactics of the Swedes, prevailed over the Catholic German generals, T'illy and Pappenheim, and Tilly was shown not to be invincible. Of his arnny of 35,000 to $40,000 \mathrm{men}, 8000$ fell, 3000 were taken prisoners. The victory was decisive, and Protestant principles triumpherl in North Germany. In this battle, the Swedes made goorl use of their leather camons. Eleven years after, in 1642, Torstenson defeated, at the same place, the imperial Saxon troops, under the arclı-duke Leopold William and Piccolomini. But the battle of 1813 was most remarkable for its extent and duration, the magnitude of the contending armies, and the importance of its consequences. For the campaign of 1813, the allied powers had formed the plan of operating on the flanks of Napoleon, and uniting in his rear. With this view, the movements of the Silesian army, under Blücher, and of the northern army, under the crownprince Charles John of Sweden (Bernadotte), were directed to the Lower Elbe, and the movements of the main army, under Schwartzenburg, to the Upper Elbe. Circumstances finally determined the country around Leipsic, as the place where the junction should be formed, and Napoleon cut off from the Saal. In all probability, Napoleon was well aware of this project, but expected to frustrate it. A rapid march between the Mulda and Elbe, a quick passage over the latter river at Dessau, ostensibly with the view of advancing upon Berlin, were to deceive and retard the northern army, and give Napoleon time to turn against Schwartz-
enhurg, and drive lim to the momntains of Saxony. If he was conquered, Blïeher and John were to be deleated and destroyed. In conformity with the plan of the allics, the great Bolnemian army, of 120,000 men, marched, on the 12 th October, in threc coluınns, against Leipsic, over the Erzgebirge. Napoleon, meanwhile, assembled his troops in and around Leipsic. October 15, he inustered his army, and gave the generals their orders. His whole forcc amounted to 80,000 or 90,000 men, the corps of Ney and Regnier heing still on the road, or employed, under Marmont, to cover the country to the northward. In casc of an unfortunate issuc, the corps of Bertrand was to secure the pass of Lindenan. Prince Schwartzenburg commanded the allied forces, although the three monarchs of Austria, Prussia and Russia were present. His pmrpose was an attack, with three columns, on the position of the French. About scven o'elock in the morning of the 16 th , the allied troops pint themselves in motion, carried the French outposts, at the villages of Markleburg, Wachau, and Liebertwolkwitz, and evidently pressed on the enemy's position. The eorps of Victor was obliged to relinquish Liebertwolkwitz to general Klenau. About nine o'elock, the battle had become general, and the thunder of innumerable pieces of artillery was scarcely ever heard so powerfin and so uninterrupted by the oldest soldiers. Both parties displayed the inost brilliant courage. The movement of the left wing of the allies suffered considerably from the firmness of the Poles, who resisted every attempt to cross the Pleisse, and, favored by the ground, kept up an effective fire. Napoleon ordered, in person, the battle on the heights of Liebertwolkwitz. Macdonald carried the Swedish camp, as it was called, by storm, and thus secured to the left wing of the French an essential advantage; but Wachau was the scene of the most obstinate conflict. From this place Napoleon attacked, repeatedly, the centre of the allies. The corps of Ney, which arrived at this juncture from Delitsch, might have deciled the day, but Blücher's army also came in sight. It had pressed forward, from Halle to Skeuditz, on the 16th October, attacked the duke of Ragusa at Wahren, Lindenthal and Breitenfeld, gained a decisive victory at Möckern, after a severe resistance, and now threatened Leipsic from this quarter. Ney had, consequently, to be despatched against it, and the decisive moment was lost:
the emperor Alexander even recovered a lost battery, by the attack of his regiment of Cossack guards; the Russian grenadiers restored the balance of power between the Pleisse and Wachau; and, notwithstanding Napoleon cansed the bells of Leipsic to be rung in honor of his virtory, he had acquired no advantage by it, with the exception of a small portion of ground, so that the two partics werc very nearly in the same position, in the evening, is before the battle. 13ut the arrival of the northern army, which Napoleon had not in the least expected, hut of which he was aware before the allies, made him desirous to retreat. On the 17 th October, the arms of the contending forces wer: permitted to repose, by a tacit agreement ; the allies waited for the arrival of their third main body, under Bennigsen, from Dresden, by way of Grimma, and Napoleon was ineditating an honorable retieat, for which purpose he attempted to open negotiations with the allies, by means of the captive Austrian count Mcerveldt. He is said to have proposed an armistice, demanded permission to cross the Saal without opposition, proffered the cession of the fortresses of the Oder and Vistula, and manifested an inclination for peace. From these measires, the alljes asccrtained his weakness, and refused to listen to the proposals, particularly as they were now informed of the anvival of the northern army, before which Ney and the duke of Ragusa retreated, over the Parde, to Schónfeld. Napoleon was thus reduced, on the 18th, to the necessity of sustaining a defensive hattle, and was compelled to retreat. He took a position more in the rear, between the Pleisse and Parde, protected by several villages. The northern suburbs of Leipsic were defended by a battery, and by Dombrowski and the dinke of Padua (Arrighi). Bertrand still kept the pass of Lindenau open, by which all the umecessary wagons were quickly conveyed to Lützen. Napoleon himsclf took his station in the midst of his guard, at Probstheida, that he might send aid to every weak point, and be able to superintend the whole. According to their plan of the 16 th, the allies aimed at a junction with Bennigsen and the northern army. They soon found themselves on a more favorable ground, which gave complete efficiency to their cannon and musketry. They gained various successcs, and effected a union with Bennigsen. Notwithstanding his ill fortune, Napoleon wits able to fill the chasms and repair his disadvantages; his line was nowhere broken,
nor was he ever assailed in the rear; the force of the allies was gradually cxhansted, and a fair retreat seemed possible for the French; but it was difficult, on account of the want of a free passage for the columns, because all the ways leading to the western suburb of Leipsic, and beyond, to the narrow pass of Lindenau, were covered with flying baggage wagons, and troops in great confusion, and no bridges over the Pleisse had becn prepared for such an event, and no precautions had been taken. It was but a short time before, that Leipsic itself had been slightly fortified, and the garden walls of the suburb, and similar objects, had been transformed into means of defence. Poniatowsky and Macdonald were now appointed to cover the retreat, which took place at daybreak, 19th October. Hardly had the allies observed that the position of the French was abandoned, when they nade preparations to assail Leipsic on all sides, and, after a severe struggle, obtained possession of two gates. To give a faithful picture of the cruel confusion of this retreat, through the city and environs, would be impossible. Every moment increased the disorder of the flying army, and, the only bridge over the Elster having been blown up too soon, the flight was changed into wild desperation. But a short time before, had Napoleon himself, after taking leave of the king of Saxony and his family, reached that important bridge, not without difficulty, and by a circuitous route: 15,000 or $20,000 \mathrm{men}$, in close array, more than 200 pieces of artillery, and an imnense quantity of baggage, were left, and increased the trophies of the victors. Poniatowsky's and Maedonald's bands attempted to escape over the narrow bridge of the Pleisse, and then, hemmed in again by the Elster, to construct a foot-bridge in the gardens of Reichenbaeh; but it was not sufficient for the mass which crowded wer it. The greater part perished in the waters of the Pleisse or the Elster, in which Poniatowsky found a noble death. The rest fell by the lands of their pursuers. Macdonald escaped. By degrees the resistance slackened; the Baden troops were unable to lold the interior of the city, and the allied monarehs entered at the head of their soldicis. The loss of the French in prisoners, killed, and wounded, has becn rated at 60,000 inen. Ainong them, 3000 officers, 300 pieces of cannon, nad an innmense quantity of haggage, \&c., tell into the hands of the allies. The batsle of Leipsic is said to have cost the
victors 45,000 men (viz. 8000 Austrians, 21,740 Russians, 14,950 Prussians, and 300 Swedes). With Napoleon's defeat at Leipsic was connected a series of consequences of immense historical importance. (See the articles Saxony, and RussianGerman War.)

Leisewitz, John Anthony; a German writer, whose tragedy Julius of Tarentum (1776) is esteemed by the Germans one of their best productions, and is still performed. Leisewitz was born 1752, at Hanover, and, at the university, was a friend of Voss, Hőlty, Bürger. He died in 1806, at Brunswick. He burnt the manuscript of his history of the thirty years' war. I is works appeared at Vienna, in 1816.

Leistenwern. (See Franconian Wines.)
Leith; a town of Scotland, in the county of Edinburgh, formerly called Inverleith, and the seaport of Edinburgh. It is divided into two districts, called South and North Leith, communicating by two draw-bridges across the harbor. The town is mostly situated on the south side of the river, and, with the exception of the modern and improved streets, is irregularly built, with narrow streets and lanes, and the houses mostly old-fashoned and inconvenient. In 1800, a magnificent suite of wet doeks was planned, and two of these beantiful basins are now opened for shipping. These docks, comprehending ncarly eight aeres, togetler with three graving docks, have cost about $£ 250,000$. Fortifications were erected by Oliver Cromwell in North Leith, called the citadel, for the purpose of defending the harbor; which were afterwards demolished. There is a martello tower about a quarter of a mile from the pier. Leith carries on an cxtensive trade with the Baltic, and other countries of Europe, such as IIolland, France, Spain, Portugal, and the Mediterranean; also with the West Indies and Ancrica; besides a great coasting trade to the different parts of England and Scotland. A tradc has also commenced with New South Wales, with which distant colony a regular intereoursc is maintained. The Greenland fishery is also prosecuted with great activity. It has extensive ropeworks, and various other manufactories. Ship-building is carried on to a considerable extent ; and there is an cxtensive distillery in the neighborhood. The town of Leith is rapidly extending itself. Population, 26,000 ; two miles north-east Edinburgh. The two towns are now, however, nearly joined, by a confused range of buildings.

Lekane, Henry Louis ; tragic actor, born at Paris, in 1728. It was the inteution of his father, a goldsmith, to bring him up in the same avocation, in which the boy made such progress, that his work was in request even in his 16 th year. He enjoyed, at the same time, the henefit of instruction in the college de Mazarin, where the scholars performed a dramatic piece at the close of the academic year. The means of Lekain were inadequate to the expense required of the performers, and he therefore undertook the office of prompter. He rarely had occasion to make use of the book, so deeply were the plays impressed on his memory, as soon as he had heard them a few times. His greatest recreation consisted in attending the French theatre on Sundays. Social amusement having acquired new life in Paris, after the peace of 1748 , several private theatres were formed, and Lekain joined with a number of young persons in' establishing one, which soon surpassed all the others. Lekain was distingnished for his acting, and Aruand Baculard's comedy Le Maurais Riche was first performed by this company. Voitaire, Arnaud's jatron, was present at the representation, and invited Lekain, who played the part of the lover, to his house. The young actor was embarrassed before this celebrated man, who encouraged him with the words, "Heaven be thanked, 1 have at last found a person who has moved and touched me, even when reciting lod verses." Voitaire advised him, however, not to become an actor, and, in order to induce him not to abandon the trade of his father, offered to advance him 10,000 francs, in order to place hin in a more convenient situation. Lekain liesitated, but his propensity for the stage predominated. When Voltaire perceived that the resolution of the young inan was invincible, he offered to spare him, at least, the expense of apprenticcship, and to build him a theatre in his own house, where Lekain conld play with his young friends. Lekain now lived with Voltaire, whose two nieces played with him, and the poet himself sometines undertook a part. The most distinguished men aspired to the honor of attending these performances. The part of Cicero, in the Rome Preserved, was here seen represented by Voltaire, with an energy and truth, of which tradition still preserves the memory, and, inspired by such a model, Lekain shone in the character of 'Titus. During the six months which he spent in the society of Voltaire, lis dramatic skill was vastly inproved, and, in his Memoires
de Y. Letiain, published by his son (Paris, 1801; new edition, Précédés de Réfexions sur cet. Acteur et sur l'Art théatral, par Talma, Paris, 1825), he says that, at that time, he studied most profoundly the principles of his art. Before departing for Berlin, in 1750, Voltaire obtained for his protege permission to applear on the théatre française. One of lis most splendid parts was Mahomet, in Voltaire's play of the same name. Voltaire called him the only truly tragic actor. His last performance. in the character of Vendome, in Voltaire's Adelaide, was admired above all, and the exertions which he made, on this occasion, were the prinie cause of his speedy death, in 1778. An inflammatory fever hrought him to the grave in a few days. On the day of his death, Voltaire returned to Paris, after an abseuce of 30 years, and the first news which he learned was the distressing information of the death of his protégé.

Leland, John; an English autiquary, born in London, about the end of the reign of Henry VII. He was educated at St. Paul's school, and Christ's college. Canluridge, whence he removed to Oxford, and then to Paris, for further improvement. Returning home, he took holy orders. Heury VIII made him his chaplain and hibrarian, and gave him the titie of royal antiquary. In 1533 , he was empowered, by a commission under the great seal, to search for objects of antiquity in the archives and libraries of all cathedrals, abbeys, priories, \&c.; in consequence of which, he spent six years in travelling over the kingdom, visiting the romains of ancient buildings and monuments, aud collecting materials for the illustration of the history and archæology of England and Wales. He retired to his house in London, to arrange and methodize the stores of intelligence which he had collected, liut, after about two years, died insane, in 1552 , without having completed his undertaking. The great bulk of his collections, after passing through various hauds, was placed in the Bodleian library, in an indigested state. Hearne printed a considerable part, forming the Itinerary of Jolm Leland (9 volumes, 8vo.), and Lelandi Intiquarii de Rebus Brilannicis Commentaria ( 6 volumes, 8 vo.).

Lely, sir Peter, a celebrated painter, was born at Soest, in Westphalia, in 1617. His father, a native of Holland, whose family name was Van der Vaes, was a captain in the garrison of that town, but, liaving arquired the nick-name of captain Le Lys, or Lely, his soll retained it as a
proper name. IIc was first instructed by Peter Grebber, at IIacrlem, and, attracted by the eneouragement afforded to the arts by Charles I, he went to England, in 1641, and commenced portrait-painter. He finished portraits both of that monarch and of Croinwell ; but it was not until the resturation, that he rose to the hight of his fame and prosperity. He fell in with the voluptuons taste of the new court, in his representation of the beauties who adorned it, and, by the delicaey and grace of his pencil, became the favorite ladies' painter. He las transmitted the features of most of the beanties of the court of Charles II, and is particularly admired for the grace of the heads and the clegance of the draperies. He was in great favor with Charles II, who knighted him. He died in 1680. The "beauties" at Windsor, by him, are much admired. He likewise exeelled in crayon painting. His historieal pictures are few. At Windsor, there is a Maydalen and a slecping Venus. The duke of Devonshire has his Jupiter and Enropa; lord Pomfret, his Cimon and Iphigenia. (See Walpole's Anecdotes of Painting.)

Leman, or Lac Leman; the name of the former French department, comprehending the republie of Geneva from Lemanus, the ancient name of the lake of Geneva.

Lemberg, or Leopolis (in Polish, Livow); eapital of the kinglom of Galicia, with 47,500 inhabitants, of whom 18,249 are Jews ; next to Brody, the most important commercial place in the cirele of the same name. It is the seat of the Austrian provincial government. Lon. $24^{\circ} 2^{\prime} 53^{\prime \prime}$ E.; lat. $49^{\circ} 51^{\prime} 42^{\prime \prime}$ N. Lemberg is the see of a Roman Catholic, a Greek Catholie, and an Armenian archbishop, and is the seat of the Lutheran superintendent, and of the ehief rabbi. There were forinerly 33 convents at Lemberg, of which 10 only now exikt. It has, also, a university, which was transferred to Cracow, but, in 1817, was reëstablished (26 professors and 220 students). There are several high schools, two theological seminaries, \&ic. The Ossolinsky library is pulbic. Lemberry is 68 leagues east of Cracow, is fortified, and carries on considcrable trade.

Lemercier, Népomucìne Lohis, member of the French academy, poet, and, perhaps, the most talented dramatic writer of onr time in France, born at Paris, in 1770, wrote a tragedy, Meleager, in his 16th year, which, however, survived but a single representation. Others soon followed, some of which obtiancd permanent success;
e. g. his Agamemnon, his Pinto, Christopher Columbus, La Journée des Dupes, \&ie. Besides these plays, his Cours de Literature, and his philosophical satirical poem La Panhypocrisiade, have exeited much attention. A eharacter like his, the objeet of whose exertions was to produce a warms opposition to abuses, must neeessarily have encountered much hostility; but he was most persecuted by the censorship, as a dramatie poct. Lemercier finally gave vent to his displeasure in a very popular satirical prelude to his comedy Le Corrupteur, which, under the title of Dame Censure, ou la Corruptrice (Paris, 1823), scourges, with the keenest irony, the meanness and odiousness of this institution for fettering the mind. Lemercier has produced about 30 tragedies, comedies, and other dramatic productions for the stage, exclusive of his other works, in verse and prose. His last historieal drama, in five acts, Richard III et Jeanne Shore (Paris, 1824), from Shakspeare and Rowe, is plamed with nuch genine, but does not meet with the applause, in Paris, that is bestowed on the Jane Shore of the young poct Liadières. Lemercier's poetry does not please tastes formed on the rules of Aristotle and Boileau. He has frequently disregarded the French system of the unities, particularly in his Columbus. He does not polish his verses with sufficient industry, and is, therefore, by no means a miversal favorite with his countrymen; and only one of his tragedies has been preserved on the French theatreshis Agamemnon. His comedies are always unsuccessful. In 1825, he published two volumes of Chents heroiques et populaires des Soldats et .Matelots Grecs, traduits en Vers Français. His tragedy Les Martyrs de Souli, ou l'Epire moderne, in five acts (Paris, 1825), lias never been performed.

Lemerre, Antoine Marin; a French dramatist, born in 1733, at Paris. He reecived a good education, but, being deprived of his parents while young, he became assistant sacristan to the church of St. Paul. At his leisure, he composed sermons for sale in manuscript-a eircumstance which made him known to the abbé D'Olivet, who employed him to correct the proofs of his edition of Cicero. He was then made an under master of rhetoric at the collcge of Harcourt, in which situation he wrote a tragedy, rejected at the theatre. He afterwards gained six poetical prizes, offered by protincial aeademies. His tragedy of Hy permnestra was acted with success in
1758. He subsequently obtained a place in the office of a farmer-general, who, perceiving that he was better qualified to make plays than to keep financial accounts, generonsly bestowed on hini a pension, that he might be enabled to devote limself to literature. In 1781, he was chosen a member of the French acadeny; and he died in 1792. He produced several tragedies, among which the best and most suecessful were his Widew of Malabar, and William Tell: he also published Les Fastes, ou les Usages de l'Année, a poem in 16 cantos; and a collection, entitled Pièces fugitives (1782, 8vo.).
Lemma, in inathematics, denotes a preliminary proposition, haid down in order to clear the way for some following demonstration, and prefixed either to theorems, in order to render their demonstration less perplexed and intricate, or to problems, to make their solution more easy and short.
Lemming (georychus, Illig.). These quadrupeds, which are of the rat kind, are distinguished by the conformation of the fore feet, and the shorthess of the tail. The fore feet are adapted for burrowing. The tail is shorter than the body. Among the species, the most interesting are the lemining rat (G.lemmus) and the Hudson's bay lenıming (G. Hudsonius). The former of these inhabits the northern parts of Europe, is about the size of the common rat, of tawny color variegated with black, the sides of the head and the under parts being white. The legs and tail are grayish, and the under parts of the body of a dull white. The head is large, short, and thiek; the eyes small; the limbs stont. They feed entirely on vegetables. They form shallow burrows, in summer time, under the ground, and, in winter, make long passages under the snow in search of food. The most extraordinary characteristic of these animals is their migrations, which they undertake at irregular epochs, seeming to be guided by the severity of the approaching winter. In these emigrations, they assemble in incredible numbers, and always march in a straight line, nothing seeming to turn them aside. If they are disturbed whilst swimming over a lake or rlver, they will not recede, but swinı on, and soon reassume their former order. They chiefly move at night, or early in the morining, and make such a destruction among the herbage, that the surface of the ground over which they have passed appears denuded. Exposed as they are to every attack, and destroyed in attempting to cross rivers and lakes, the diminu-
tion of their numbers is very great, so that few return to their native haunts. They never enter dwellings, but keep in the open air. When emraged, they raise themselves on their hind feet, and utter a barking sound. Sometimes they divide into two parties, and attack each othor. They breed several times in the year, pro)ducing five or six at a birth. 'Their numbers are so great in particular years, that the common people, in Norway, believe that they descend from the clonds. From the devastations which they commit, they are often exorcised by the Roman Catholic, clergy.* Their flesh is not used as food, nor the skins for the fur. 'The Hulson's bay lemming is of an ash color, with a tinge of tawny on the back, having il dusky stripe along its middle, and a pale line on each side. The hair is very fine, soft and long. It is not certain that these animals migrate like the foregoing species, though, from the observations of captain Lyon, this appears probable. He says that he observed long ridges of mouse dung, several inehes ieep, extending for above two miles. This was in a situation in which none of these animals were then found, and in a kind of soil in which they do not live. Hearne thinks that, from appearances, they seldom stray far from their habitations, even in summer, and, in winter, are rarely seen on the surface of the show. This writer, however, may have only had an opportunity of observing them during those years in which they are stationary. They were first described by Forster, from a mutilated specimen, and afterwards, in a fuller manmer, by Pallas. Doctor Richardson (Fauna . An. Boreal.) is of opinion that this lemming is only found in the vicinity of the sea. It occurs in Labrador, and all parts of Northern Americabordering on the Polar sea. It is said to be very inoffensive, and so casily tamed that, if caught, even when full grown, it will become perfectly reconciled to its situation in a day or two, very

[^19]fond of being handled, and will creep, of its own accord, into its master's bosom.

Lemvos (how Stalimene), the most northerly island of the Grecian Archipelago (the LEgean sea), between the Hellespont and moumt Athos (147 square miles, r000 inhabitants), abounds in vines, wheat, \&c. It formerly eontained a voleano, Meschica, which was regarded as the workshop of Vulcan. Mythology assigns this istaud as the residence of Vulean (whenee he is called Lemnius), after Jupiter had hurled him from Olynpus. Varions atroeities, perpetrated on this island (see Hypsipyle), gave occasion, in antiquity, to the use of the cpithet Lemnian, to designate such acts. Among its curiosities are a labyrinth, and the Lemmian cartl (terra sigillata).

Lemone, Francis, a listorical painter, bom at Paris, in 1688, was placed, in liss J3th year, with the painter Galloclie, with whom he remained 12 years, during which tine he paid partienlar attention to the works of Carlo Maratti and Pietro di Cortoma. In 1718 , he became menber of the acadeny. The war of the Spanish succession preventing the support of young antists at Rome, by the French government, he was obliged to defer the accomplishment of lis wish to visit Italy till a rich amateur, by the name of Bergier, took him for lis companion, in 1723 ; but a residenee of six months in Italy, at a time when his talents were already developed, conld not be so useful to him as the carlier study of the treasures of Roman art might have been. He finished, however, one of his best paintings, a female entering the hath, during his residenee in Bologna, Veniec and Rome. On lis return, he was appointed professor at the academy, and soon found an opportunity of displaying his talents in painting the chapel of the Holy Virgin in the clureh of St. Sulpice, the subjeet of which is the aseension. The composition of the picture, however, has some fundamental faults. It was restorcd by Callet in 1780, and eannot therefore be now considered as Lemoine's work. Lemoinc subsequently painted the ceiling in the hall of Hereulcs at Versailles, the largest painting in Europe, being 64 feet long and 54 broad, withont being divided by any arclitcetural interruptions. It contains 142 figures. He had almost finished the work, when he olserved that the main group was plaeed a little too low, and he did not liesitate to raise it, although alterations were thus rendered necessary in almost all the other figures. His exertions in this work, which cost lim the
labor of seven years, weakcned his health. His domestic misfortunes augmented the natural gloom of his disposition, and his chagrin at the marks of favor conferred on inferior artists combined with these cireumstanees to unsettle his reason. In a fit of insanity, he put an cnd to lis life, in 1737. On an unprejudieed estimate of his labors, it eannot be denied, that the decline of the French sehool is principally owing to him. His drawing is ineorrect, his forms are disfigured by maunerism, but lis coloring is brilliant, though wanting in truth, and lis grouping is skilful.
Lemon. The lemon-tree (citrus limonum) was originally brouglit from the tropical parts of Asia, but is now cultivated very extensively in the south of Europe, espceially in Sieily, and the fruit forms an important article of commerce. It is congeneric with the orange and citron, and belongs to the natural family aurantiacea. Its stature is that of ${ }^{\circ}$ a large shrub or sniall tree; the leaves are oval, pointed, twice as long as broad, and, like those of the other species, contain scattered glands which are filled with a volatile oil. The beauty of its smooth evergreen foliage, and the delightful fragrance of the flowers and fruit, have made it a great favoritc in all our green-houses. The shape of the fruit is oblong, but its internal structure does not differ from that of the orange. The juice is aeid and agreeable ; mixed with water and sugar, it forns the well-known refreshing drink ealled lemonade, whieh is in general use thronghout all parts of the civilized world. Lemon-juice is also employed by calico printers to discharge colors. (See Citron.)
Lemonade; a drink made of water, sugar, and the juiee of lemons. Prepared in this simple way, it is a very grateful beverage in warm weather, or to feverish patients. The taste is more agreeable, if the sugar is rubbed with the pecl of the lemon, so as to imbibe the oil contained therein; but the lemonade is thus rendered stimnlant rather than cooling, and many persons suffer from headaehe in consequence. In public houses, cream of tartar is frequently used instead of lcmon-juice, which few persons ean endure without feeling some head-acle. Lemonade was first sold publicly between 1630 and 1633, in Italy, and soon became very common. (Sce Limonade.)
Lemontey, Peter Edward, nember of the French aeademy, jurist and poet, was bom at Lyons, in 1762, and died at Paris, Jume 27, 1826. On the eonvoeation of the cstates in 1789, lee contributed by his
essay-Whether a Protestant can vote in the Election of the Members of the Estates, or be chosen a Member limself-to the restoration of the Protestants, who formed a numerous class of citizens, to their civil rights. Subsequently appointed deputy from the department of the Rhone, hic joined the constitutional-monarchical party, and exerted himself to moderate the extravagant measures of the wild demagogues. He succeeded in saving a great number of absent scholars, artists and travellers from being confounded, in the laws against emigrauts, with those who had left their country with the purpose of introducing foreign arms on their native soil. In the deliberations on the fate of Louis XVI, he conducted with equal humanity and courage. During the reign of terror, Lemontey fled to Switzertand, whence he did not return till after the overthrow of the Mountain party. Deeply affeeted with the ealamity which had involved his native eity in ruin (see Lyons), he published his beautiful ode Les Ruines de Lyon. He afterwards travelled through Italy, published sereral poetical works in Paris, and wrote various operas and romauces. In 1804, the government conferred on him, and two other literary men, the censorship of theatrical works-an ungrateful office, which he at first exercised with mueh diseretion, but in which he subsequently exposed himself to the complaints of authors. After the restoration, he received the order of the legion of honor, and the office of direetor-general of the book-trade. He also suceeeded Morellet in the academy. His romanee La Famille de Jura ou irons-nous à Paris? (written on oceasion of Napoleon's accession to the throne), in four months passed through as many editions. His Essai sur l'Établissement monarchique de Louis XIV (his mas-ter-work, bold and true) was an introduetion to his unfinished Histoire de la France depuis la.Mort de Louis XIV. Of his operas, Palma, ou le Voyage en Grèce, was very successfulduring the revolution, because he boldly attacked in it the Vandalism of those times-the destruction of the Frenel monuments of art, under the name of civism.
Lemot, Francis Frederic, member of the institute, sculptor, professor in the royal academy of the fine arts, at Paris, born at Lyons, in 1773, devoted himself to the study of architecture in the aeademy of Besancon, and, when seareely 12 years of age, prosecuted his studies in Paris. The contemplation of the nasterworks of sculpture, in the capital, awoke in him the love of this art. As he was one
day in the park of Sccaux, drawing the stitue of Ilercules, by Puget, some academicians, among whom was the statuary Dejoux, lapppened to be present. Astonislied at seeing a boy of his age so profoundly engaged, they entered into conversation with him, and, learning that ho had come to the capital on foot, to seek instruction, Dejoux took him under his eare. In 1790 , when but 17 years of age, he gained the prize of the academy for a bass-relief. Louis XVI grauted him a pension, by means of which he pursued his studies in Rome; but, in consequence of the revolution, this supply was cut off, and Lemot, embarrassed by the greatest poverty, went from Rome to Naples, and thence to Florence. He finally ventured, at the advice of the French minister at Florence, Cacault, to return to his native country, to solicit assistance of the existing government in behalf of hiniself, and of several other young French artists, in similar circumstanees. Exposed to great dangers-for, in Itaty, he was regarded as a revolutionist, and, in France, as an emi-grant-he reached Paris, but obtained what he asked only for others, being himself obliged to enlist, as a soldier, in the arny of the Rhine, where he fought under Pichegru. He was stationed at the outposts, when he received orders to return to Paris, and construct the model of a bronze statue, 50 feet in licight, which was to be erected on the square of the Pont Neuf. This statue was to represent the French nation under the image of Hercules. The commission, appointed for the purpose, approved Lemot's model. Political circumstances, however, prevented its exccution; but Lemot made himself familiar with the art of casting in bronze, and this knowledge was afterwards of great service to him, in preparing the statue of Henry IV, which he executed at the command of Louis XVIII. Lemot's principal works are his statues of Lycurgus, Solon and Cicero, in marble; his two bass-reliefs, for the hall of the chamber of peers; his colossal bust of Jean Bart ; a Hebe offering a full goblet to Jupiter ; a statue of king Joachim Murat ; the great frontispiece of the colomade of the Louvre; a girl sleeping; the triumphal car and Vietory, which, with the horses of St. Mark's square, in Venice, adorned the place du Carrousel, in Paris, till the restoration of the monuments of art; and the above-mentioned equestrian statue of Henry IV in bronze. His excellent sculptures on the triumphal arch at Chalons-sur-Marne, were destroyed, ir

1814, with the rest of the monmment. His last work was the colossal equestrian statuc, 17 feet high, of Louis XIV, in heroic costume, for the city of Lyons, in 1824. Lemot's works are eharacterized hy a pure and severe taste, rielmess of invention, and vigor of execution. Under the imperial govermment, he received the orter of the legion of honor, and, in 1817, that of St. Micliael. He also wrote the Notice historique sur la Ville et le Chàteau de Chiffon, ou Voyage pittoresque dans le Bocage de la Vendec (Paris, 1817, 4to.). Lemot died at Paris, in May, 1827.
Lempriere, Johm, D. D., was graduated at Oxford as A. M., in 1792. In the same year, le becanc head-master of Abingdon grammar-school, and afterwards master of the free grammar-seliool at Exeter. In 1811, he was presented to the rectory of Mecth, Devonshire, which living, together with that of Ncwton Petroek, in the suuc county, he held till his deatlı. Doctor Lempriere was an exeellent classical seliolar, and published a Bibliotheca classica as an assistant in the study of antiquities and mythology. His other writings are the first volume of a translation of IIerodotus, with notes, which appeared in 1792 : an entire and elcgant translation of that historian being given to the world by Mr. Beloe, doctor Lempriere desisted from proseeuting his design. A compilation of Universal Biography, first printed in quarto, witl an abridgment of the same, in octavo, both in 1808, was his last work. He died of apoplexy, Feb. 1, 1824.

Lemur. This genus of the monkey tribe (the makis of Cuvier) las been divided into several subgenera; as, Lemur, which is distinguished by having six projecting incisons in the lower jaw and four straight ones in the upper. These animals have long tails, and take the place of apes in the island of Madagascar, none of the latter being found there. Indris, having four incisors below and the saine number above; no tail; only onc species known, which the inhabitants of Madagasear tame and train to the clase, like dogs. Loris, four incisors below, and four above ; no tail. Their molar tecth have sharp points instead of tubereles, and they sometienes fecd on small birds and quadrupeds. Galaro, having six incisors below and four above; tail long and tufted; elongated tarsi to the hind feet, which render them very disproportionate to the superior extrenities. Tarsius, four incisors ahove, two below, and scveral canine teeth between the incisors and molars; tail long, tufied. All these animals
have their thumbs strongly developed, and the first finger on the hinder feet furnished witl a pointed and elevated nail, all those on the other fingers being flat. Their hair is woolly.

Lemures (mania, lamix, ghosts, spectres), among the aacient Romans; the souls of the dead, which tormented men in the night, whence they were called nocturnal or black. In order to lay them, a ceremony called lemuria, lemuralia, remuria, was observed on the nights of the 9 th, 11 th, and 13th May. About midnight, when every body was asleep, the hcad of the family rose, and went, barefooted, softly and in silence, to a fountain. With a snap of the fingers, still keeping silent, he protected himiself from the spectres. Having washed lis hands at the fountain, lic returned, took some black beans in his mouth, and, without looking around, threw them nine times over his head, repeating, each time, Hac ego mitto; his fabis me moosque redimo (These I send; with these beans I redeem me and minc). He then washed his hands again, struck a hollow eopper vessel, saying nine times during the operation, in a supplicating tone, Manes, exite, paterni (Ye souls of my ancestors, depart). He now looked around, and the ceremony was finished. It was believed that the spirits came and colleeted the beans.

Lena ; a large river of Asiatic Russia, whieh rises in the mountains near lake Baikal, and empties, after a course of about 2000 iniles, throngh four arms, into the Northern ocean, after having received the Wilime, Olekma, Aldane and Wilhoui. It forms, at its mouth, a large bay, of the same name, containing many islands, called the archipelago of the Lena, whiel are cold and barren, but inhabited by many animals valuable for their furs.

Lenclos, Ame, called Ninon de, the Freneh Aspasia, was born at Paris, in 1616, of noble parents. The early death of her parents having left her to follow lier inclinations, her character was formed by the bent of her own feelings, and by the study of the works of Montaigne and Charron. Even at an carly age, she was distinguished for her wit and acuteness. She played the harpsichord and several other instruments in a masterly style, sang witl taste, and danced with grace. With such attractions, she had no want of lovers and suitors; but her love of independence prevented her from forming a serious connexion. To render herself entirely free, she invested her property in an annuity, on which she lived frugally, but in good style.

Her income amounted to 8000 or 10,000 livres. Without making a traffic of her charms, she attached lierself to those who pleased her, as long as her inclination continued. Inconstant in love, but true in friendship, equable in her temper, charming in ler conversation, capahle of forming young men, but also of seducing them, sensible, without making a display of her powers, handsome even in old age, she wanted nothing but female virtue, yet she conducted herself' with dignity. She never accepted presents in return for her favors, though she gave herself up, from blind sensuality, to transient passion, without concerning herself whether its object was wortly of her. Having extended her favors, in succession, to the most celebrated men of her time, she proved to all, that mere sensual desire, and not vanity, was the cause of her passion. Notwithstanding her reputation for gallantry, the most amiable and respectable ladies of the time, such as La Fayette, La Sablière and Maintenon, cultivated her friendship. Of madame de Maintenon she used to say, that she wished to employ her to drive avay the tedium of rank and age at Versuilles. Even in her old age, her house was the rendezvous of the most agrecable personagses of the city and court, and of the most distinguished men. Scarron consulted her on his romances, St. Evremond on lis poems, Molière on his comedies, Fontenelle on his dialognes, and La Ruchefoucault on his maxims. Coligny, Coudé, Sévigné, \&c., were her lovers and friends. When the queen of Sweden was in Paris, she paid Ninon a visit. Voltaire speaks of her as having lost her charms af person in extreme old age. St. Evremond maintainsthe contrary. At her death, Oct. 17, 1705, she bequeathed to Voltaire, then a young inau, whose renown she had foreseen, a considerable sum, which he was to expend in books. One of Ninon's sons, named La Boissière, died, in 1732, at Toulon, an officer in the navy. His birth was distinguished by a dispute between an officer and clergyman respecting the paternity. As the matter was doubtful, it was decided by lot, and the officer obtained the paternal title. Ninon's second son died a tragic death. He had fallen in love with his own mother, without knowing his relationship to her. She was obliged to reveal the secret to him, to escape his importunities, and he killed liniself from despair. This terrible event has been introduced, by Le Sage, into his Gil Blas. Ninon, moreover, confessed herself, that she was not happy, and often
said, that, if she had foreseen her course of life, she would rather lave mindergone a voluntary death, than have submited to such a destiny. The Lettres de V. de Lenclos all Marquis de Sevigné are the work of Damours, the author of the life prefixed to the collection. The Correspondance sccrète de, \&c., edited by Ségur (1789), is also a supposititious work.

Lenmi Levape. (See Indians, and Indian Languages.)
Lenoik, Alexander, born at l'aris, in 1762 , rendered the greatest services to the fine arts, by the preservation of the monuments of French art, while director of the French inuseum of antiquities. He receiverl his education in the collége Mazurin, and afterwards in the acadenly of arto at Paris. IIe subsequently devoted himself to painting till 1790 , under the guidance of the painter-royal Doyen. In the beginuing of the revolution, when the finest works of art, preserved in monlasteries and palaces, were destroyed, from hatred of the former despotism in churel and state, Lenoir deternined to save all that he could. He made a propiosal, through Bailly, then mayor of Paris, to collect all the treasures from the monasteries, \&ce., in a grand national museum. Intrusted with the execution of the project, Lenoir engaged in the matter with so much zeal, that his life was several times endangered by his exertions to rescue these treasures from the fury of the new iconoclasts. As he travelled through all France for this purpose, he succeeded in preserving, for posterity, a great part of those monuments which afford the artist an opportunity to compare the progress of art in different periods. By the union of thesc remains, was formed the famous museum of Frenclı antiquities, in the Rue des Petits Augustins, which Lenoir superintended, for alnost 30 years, with uninterrupted industry, so that it may justly be said, that to hinı France is indebted for whatever of this kind it now possesses. After the restoration, the collection was distributed by the royal mandate of 1816 , to the former proprictors, i. e. to the churches and revived monasteries, and the national museun? was broken up ; but Lenoir was appointed superintendent of the calinet of the cathedral of St. Denis. His Investigation into the Costumes and Manners of Antiquity, and his essay on the remains of Western and Eastern art in general, are much esteemed; so also are his Observalions sur la Peinture sur Verre et sur ses différents Procédés (Paris, 1824), and his work La vraie Science des .9rtistes,
ou Corps complet de Doctrines sur les Arts Ulependarks du Dessin (Paris, 1823). He lhas given a description of the museum, as it existed under lins eare, in his .Musée des Monuments Francais (8 vols.), which has bsen trauslated iito Englisht, and to which belongs the collcection of engraving\%, in 22 plates, prepared under lis inspeetion.
Lemormand, Mademoiselle. Tlins Parisian prophetess, well known in the very ligiglest eirelcs of society, for foretelling events firon coffee-grounds, cards, \&e., accuuired a reputation by her dexterity and eunning. During the imperial goverrunent, her saloon-for this sibyl lived in liigh style-was visited by the thost nollie ladies ; but, as she meddled in politieal affiuirs, this Pyyluid of the nineteenth century was banislied from the country. Enruged at her exile, Mademoiselle wrote the Šourenirs prophetiques d'une Sibylle sur les Causes de son Arrestation, le 11 Décembre, 1809 , which she delayed publishing, however, till after the restoration. In this post factum prophecy, the overthrow of the tyrant of the world and lisis faction, and the triumph of legritimaey, werc announleed. A sevcre criticism, by Hoffinann, on this work, which had been well reeeived by a certain class, involved the irritable authoress in a war of words. since her return to Franee, slic has published sevcral Oracles Sibyllins. Her Mémoires historiques at secrets de l'Inpératrice Josiephine, her patroness (Paris, 1820, 2 vols.), exeitcd mueh attention. (See Josiphine.) During the eongress of Aix-la-Chapeclle, Mille. Lenormand was there, and is said to lrave enjoyed the protection of a great potentate. She gives her aecount of this in lier work De la Sibylle au Congri's d'Aix-la-Chapelle, suivi d'un Coupde Ciil sur cllui de Carlsbad. In her latest writings, she has diselosed the simple priueiples of her divinations-Le mois, et le yuuntième de la naissance, lajgc, lcs premitres lettres des prénoms et du liek où lon est aé, la coulleur favorite, l'animal préféré, celui qu'on hait, la fletrr de choix.
Lexotre, Andrew; a French arehitect and ornauncntal gardener. He was born at Paris, in 1613, and was the son of the sulperintendent of the gardens of the 'Tuileries, who, wishing to nrake him an artist, placed liim, as a pupil, witl Vouet, the painter. He showed a strong taste for design, particularly in laying out gardens, and arrangiug their seenery. lie first displayed liis talents at the chateau de Vaux ; but lis plans for the decoration of the park of Versailles contributed principally to establish lis reputation. He af-

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terwards embellished the gardens of Clagny, Chantilly, St. Cloud, Sceaux, the Tuileries, \&e. Louis XIV richly revarded the labors of Lenotre, and, in 1675, bestowed on him letters of nobility, and the cross of the order of St. Micliael. Ho took a journey to Italy in 1678; and, at Rome, he was honorably received by pope Inmocent XI. He died at Paris, in 1700. Delille has celebrated the talents of Lenotre, whose style of ornamental planting was fashionable, not only in France, but in England, till it was superseded by the designs of Kent, Brown, and the modern landscape gardeners.

Lens, in dioptries, properly siguifies a small roundish glass, of the figure of is lentil, but is extended to any optic glass, not very thiek, which either colleets the rays of light into a point, in their passage through it, or makes thein diverge, accordiug to the laws of refraction. Lenses have various figures, that is, are terminated by various surfaces, from which they acquire various names. Some are plane on one side, and convex on the other; others convex on both sides, both of which are ordinarily ealled convex lenses, though, where we speak accurately, the former is called plano-convex. Again, some are plane on one side, and concave on the other ; and others are concave on both sides; which are both ustally ranked among the eoncave lenses; though, when distinguished, the former is called a planoconcave. Others, again, sare coneave on onc side, and convex on the other, which have the name meniscus. In evcry lens, terminated in any of the fore-mentioned manners, a right line, perpendicular to the two surfaces, is called the axis of the lens, which axis, when both surfices are spherical, passes through both their centres; but if one of them be plane, it falls perpendieularly upon that, and goes through the centre of the other. (See Optics.)

Lent, a Teutonic word; in German, Lenz (the spring); in Swise, Glenz; in Duteh, Lent. Several derivations of the word have been proposed. Adelung thinks that it is probably connected witl the German verb leinen (to thaw). In English, Lent means the quadrigesinal fast in spring, whieh, in Italian, is called quaresinia; in French, careine, from the Latin quadragesima. In the artiele Fasts, the subject of fasting, in general, and the fasts and days of abstinence observed by the Roman clurclh, lave been treated of: Lent is a fast intended to prepare Clristians for the Easter festival. Protestants generally consider Lent no: to have been
established before the second or third century ; but the Catholic church maintains, with St. Jerome, St. Leo, St. Aıgustine, and the majority of the fathers of the church of the fourth and fifth centuries, that it is of apostolic origin. They reason thus: that which we find tmiversally established in the church, and of which we cannot, nevertheless, find the institution by a council, must have been established by the apostles ; and the 69th apostolical canon, the council of Nice, in 325, that of Laodicea in 365, and the fathers of the second and third centurics, speak of Lent as a usage generally observed by the church. In the Latin cliurch, Lent formerly lasted but 36 days; in the fifh century, four days were added, in imitation of the 40 days' fast of the Savior, and this usage became general in the Western church, except in the church of Milan. (Sce Dictionnaire de Théologie, artiele Caréme.) The Grceks begin Lent one week sooner than the Roman Catholies, but they do not fast on Sundays, cxcept in passion-week, though thcir fasts, generally speaking, arc muel more striet than those of the Roman Catholics. The Latin monks had formerly threc fasts, of 40 days eaeh; and the Greeks observed four besides Lent ; but they have reduced then to seven days each. Some Oriental seets had still other great fasts. The eighth council of Toledo, in 653, orders that those who hreak the fast, without necessity, shall eat no meat during the whole year, and shall not partake of the Lord's supper at Easter. The bishop must give the sick and aged permission to eat animal food during Lent. Such permissions are, however, generally put into the hands of physicians, from whom it is not difficult to obtain them. Until the ycar 1200, but one ineal a day was eaten during Lent. The close of Lent is celebrated in Catholic eountries with great rejoicings. In Rome, the pizzicaruoli, or shops in which hams, sausages, eggs, \&c., are sold, are illuminated and ornamented, in the most picturesque manner, the night before, in order to attract buyers. The statue of a saint, made of butter, is often seen. Hcaps of eggs are multiplied endlessly by refleeting mirrors, and the whole secne is quite brilliant and attractive. Milk is allowed during Lent. The English church has retained Lent, and many other fasts, but gives no directions respecting abstinence from food. (See Carnival.)*

[^20]Lentil; a species of ervum. The cominon lentil comes from France and the Valais. The thin annual root brings forth weak, creeping, hairy, algullar stalks, from one to two feet long, divided, from near the bottom, into several branelies, and clinging for support to other plants ; the pinnate leaves stand alternately; from the axils of the leaves procecd fine stalks, which each have two or three whitish flowers, hanging down. The pods do not contain more than two sound seeds, flat upon both sides. Lentils arc cultivated for the seeds just mentioned. They require a rather sandy, yet strong soil; they are sown somewhat later than peas and vetches, beeause they cannot endure night frosts; they are to be sowed in drills, and well harrowed. Care is to be taken that the seed is not put too deep into the grotud, and that the young plants are well hoed and well weeded. For the harvest, the time is to be chosen when the little pods begin to turn brown, though the plant may be still quite green; and, if possible, it is best to choose the afternoon of a dry, warm day ; for if the pods are quite ripe, or are wet with rain at the time of gathering, they casily crack open, and a great loss of sced takes place. Two varietics are cultivated - the large garden lentil, and the common field lentil. The former is distinguished by its size, and the greater quantity of mealy substance which it will afford. The straw of lentils is good food for cattle and sheep, particularly for calves and lambs. Lentils are also mixed with vetches, and sowed as food, both grecn and dried, for milch kine. Lentils, when cooked, afford a nutritious food (this should be done in the pod, to preserve their flavor), but, like peas and beans, are not good for persons whose digestive powers are weak, particularly if they are not cooked quite soft. They ought to be boiled for two hours and a half. When they are browned, some butter, and a few onions roasted in butter, are added, also salt; they are then boiled half an hour more. A good soup may also be made of them. Some persons soften the lentils, before cooking, in cold water. Purified rain water is best to cook them in. In the Archipclago, they are one of the principal articles of food. To fatten pigs, lentils are excellent, and, given with other food, increase the milk of cows.
Catholic work quoted above : " If the rieh would add alms to the fast, as the clurch preseribes, the poor would live better, and more comfortably, during Leut, than in any other season of the year, and would bless God for this salulary inslitution" ( $p$. 551, vol. i, Dict. de Théologie, Toulouse, 1817).

Lento (Italian, slow) ; a term used in nusic.

Lentulus; the name of one of the most illustrious families in Rome, several individuals of which distinguished themselves by their virtues and services; others were conspicuous in other ways. Publins Lentulus Sura, an accomplice of Catiline, was strangled in prison. Lentulus Spinther, one of the most luxurious and ostentatious men of his age, was a partisam of Pompey. Having been pardoned by Cosar, who had made him prisener, lie again joined the former, and was present at the battle of Pharsalia. Cneius Lentulus was put to death, in the reign of Caligula, in consequence of being detected in forming a conspiracy against that inonster.

Leo I (the Great, St.) was born, according to some writers, in Rome, and, aecording to others, in Tuscany. The popes Celestine I and Sixtus III employed him in inportant ecclesiastical affairs, while he was only deacon. On the death of' Sixtus III, in 440, Leo was elevated to the papal clair. The Romans were gratified with this choicc ; but the beginning of his pontificate was marked by an intolerant and impolitic act. He caused processes to be instituted against the Manicheans, who were concealed in Rome, and gave up those who persisted in their heresy to the secular arm. In the same manner, he proceeded against the Pelagians, Priscillianists and Entycheans, whom he exterminated. During the session of the council of Chalcedon, in 451, to which Leo had sent four legates, Attila laid waste the Western empire, and threatened Rome. The emperor Valentinian employed Leo to intercede with that formidable warrior, in order to obtain peace. Leo addressed the barbarian with mildness, and, at the same time, with impressiveness ; and Attila, induced probably, however, by other inotives, left Italy, and retired beyond the Danube ; but, in the year 455, the Vandal Genseric took Rome, which was exposed to pillage for 14 days. All the favor that Leo could obtain from him was, to forbid the murder of the eitizens, the burning of the city, and the plunder of the three principal churches in Rome, which contained the rich offerings of Constantine. Leo is the first pope whose writings have been preserved. They consist of 96 sermons, 141 letters, and some other works. A work On the Calling of the Gentiles, and the Epistle to Demetriades, have also been ascribed to him. His style is finished and rhetorical, and his periods have a measured rhythm, which is not
unpleasant. There have been several editions of his works ; one by Quesnel, at Paris (1675, 2 vols., 4to.) ; anotlier at Lyons ( 1700 ,fol.); a third at Rome, by Cacciari ( 3 vols., fol.) ; and a fourth at Venice (1757). Father Maimbourg lias written his life.

Leo X (Giovanni de' Medici), second son of Lorenzo the Magnificent, born at Florence, in 1475, received the tonsure in his seventh year, and was loaded with bencfices. The election of Innocent VIII to the papal chair, favored the ambitious views of his father, and, in 1488, Giovanni, then only 13 years old, was made a cardinal. Lorenzo intrusted his cducation to the Greek Chalcondylas and the lcamed Angelo Poliziano. Giovami, naturally grave, took a greater interest in the writings of the ancient philosophers than in those of the fathers of the church ; it was, therefore, marle a condition of his nomination, that, before he should be invested with the purple, he sloould study theology three years at Pisa. In 1492, Giovanni took his seat in Rome, as a member of the holy college. His father dicd soon after, and was succectled by lis son Pietro, at Florence. As the young cardinal had opposed the election of AIexander VI to the papal see, he exchanged Rone for Florence, where he tived in ligh estimation, until the banishment of his fannily forced him to fly to Bologna. In 1499, he went to Venice, Germany and France, remained some time in Genoi, and then returned to Roine, where he lived in the enjoyment of a select society, and devoted to the arts, particularly music and literature. In 1505, he first took part in public aftairs. Pope Julins II made liim governor of Perugia, and, in 1511, placed him, with the title of legate of Bologna, at the liead of his forces, in the holy league against France. As lis suggestions, however, were little regarded by the Spanish generals of the allied armies, his influence was limited to preserving order in his camp. He was made prisoner by the French, at the batile of Ravemma, in 1512 , but soon after regained his frecdom, on the dispersion of the victorious army, and returncel to Bologna, where he conducted the government as legate, and, after contributing to the reestablislment of the Medici, remained at Florence until the death of Julius II recalled him to Rome. The choice very unexpeetedly fell upon him, and he ascended the papat chair in 1513, in the 38th year of his age, under the name of Leo $X$. He imnediately appointed two of the principal writers of his time, Bembo and Sadolet,
his secretaries. In forcign politics, he followed the system of his predeccsons, opposing the domination of foreigners in Italy as much as possible. He succeeded in driving out the French, put an end to the divisions in the church, and forced Louns XII to a formal submission. ITaring thus restored the public tranquillity, in the first year of his government, he gave all his attention to the promotion of literature and the arts, which had been neglected by his predecessors. The university at Rome was restored and endowed, privileges were granted it, and the most distinguished men selected as instructers. He also established a particular society for the publication of Greck authors, under the supervision of Joln Lascaris. That scholar, whom he had invited from Venice, and Marcus Musurus, brought over a number of young linguists, whose infllence assisted in promoting a taste for classical literature. He requested the possesions of ancient manusrripts, in all countries, to make them known to him; and the publication of the five first books of the Annals of 'Facitus, was one of the finest finits of his efforts. Several private individuals followed the example of the prope ; among whom, Cligi, a merchant, was distinguished, who established a collection of works of art, and published an edition of lindar and Theocritus. To prevent a union of Spain, France and Austria, Leo favored a reconciliation between the kings of England and France, and even pretended to favor Louis's plans ou Milan. IIs design of obtaining the kingrion of Naples for one brunch of his family, and the duchies of Ferrara and Urbino for other branches, made the friendship of this monarch necessary, and produced a secret alliance between them; but, when a French army appeared on the frontiers, he was not satisfied with increasing his power, by a purchase of Modena from the emperor Maximilian, but also sent Bembo to Venice, to detach the republic from the French alliance; in which, however, he did not succeed. This artful, varying policy was, at that time, universal, and Leo camot be especially Whamed for it. After the death of Louis XII, Francis I having ascended the throne, and war appearing unavoidable, Leo joined the alliance of the emperor, the king of Arragon, the states of Florence, Milan and Switzerland; but, after the battle of Marignano, he withdrew, and, in 1515, he had an interview with Francis at Bologna, and formed with him a concordate, advantageous to both, but warinly censured
by the French nation. ln order to increase the power and splendor of his fanily, atier the death of his brother Giuliano, lie deposed the duke of Urbino, in 1516, and gave the duchy to his nephew Lorenzo. Leo saw with regret the reconciliation of the belligerent powers, which was effected in the same year. In 1517, the: duke of Urbino, who liad been deprived of his estates, recovered them by force of arms. Leo, however, collected a powerful arny against him, and forced him t.) renounce lis claims on honorable terms. In the same year, a conspiracy against the pope was discovered, and cardinal Petrucci , who was suspected of lring the principal, was hanged, notwitlstanding the passport which had been given him. Othcrs, whose guilt was not sufficiently proved, were tortured, deprived of their dignities, and banislred. The conduct of the pope, in this instance, was neither magnanimons nor merciful. Leo's magniticence harl exhausted his finances. To procure money, particularly for the completion of St. Peter's, he put all Christendom mader contribution, by the sale of Icters of indulgence. (q. v.) This abuse roused the zeal of Luther, and produced the reformation. Leo, at first, paid little regard to the attacks of Luther, and when he could no longer keep silence, was inclined to lenient measures. In compliance with the wishcs of Maximilian, he assumed more rigor, and summoned Luther to appear in Rome, but finally agreed that he slould defend himself at Augsburg, before the cardinal Caietan. Nothing being decided by that measure, he issued, in November, 1518, the well-known bull, in which he defended the papal authority of dispensing indulgences, and threatened all, who maintained contrary doctrines, with excommunication ; on which Luther appealed to a general council. While open war had thus broken out in the church, Leo endeavored to mite all Christian monarclis in a crusade against the Turkislı emperor Selim, who liad made himself master of Egypt; but their mutual jealousies prevented the execution of his plan. Besides these public chagrins, Leo had great domestic misfortunes to suffer. Lorenzo, who had connected liimself with the French court by marriage, having died, and left only i daughter, Leo therefore amnexed Urlino to the States of the Churelh, and the cardinal Giulio de' Medici was placed in the government of Florence. Though, in Germany, the reformation (q. v.) contirued to gain ground, Italy was not disturb-
cd by foreign wars. This state of things pernitted Leo to indulge his taste for splendor, to promote the arts and sciences, and, at tho same time, to increase the power of his family. Although in alliance with France, he did not give up his plan of preventing the aggrandizement of that power in Italy. With this view, he united with the emperor, in 1521, for the recestablishment of the family of Sforza, in Milan, and took Swiss troops into pay. The war was begun successfully; Parma and Piacenza were taken by the papal troops, and amexed to the states of the Church. The allies entered Milan without resistance, and occupicd the territory of the duke of Ferrara, whom Leo had excommmicated as an ally of France. White cngaged in celebrating his successes, Leo died suddenly, December 1, 1521. The age of Lco is described in Roscoc's Life and Pontificate of Leo X , which has been translated into German, Italian and French.

Leo XII, Annibale della Genga, born at Genoa, Aug. 2, 1760, became cardinal March 8, 1816 , and succceded Pius VII in the papal chair, Sept. 28, 18 23 . He early served the interests of the Roman court as a nuncio in Switzerland, at Dresden, and at other German courts, went on all embassy to Louis XVIII from pope Pius VII, and was finally created vicargeneral of Rome. As pope, he made liinself beloved by the people, by the remission of many taxes, by his benevolence, by personally inspecting the public institutions for the poor, the hospitals and the prisons. His firm maintenance of the rights of the court of Rome involved liim in disputes with the French and Austrian govermments in 1824. On Ascension-day, 1824, he announced the next year as the year of jubilec. His circular epistle to the inations of Christendom, on that occasion, contains a warm attack on Bible societies. May 17, 1824, he gave to the Jesuits and their general, Lonis Fortis, the Roman college, which they had possessed mntil 1773, together with the church of the holy Ignatins, the oratorium, the museum, the library and the observatory, in order that they inight devote themeelves cutirely to the education of the young. Leo XII also strengthencd the comexion of the apostolic sec with the Spanish American republics, particularly witl Chile, and, in 1828, with Colombia, by recognising Bolivar's lishops. He endeavored to frce the States of the Church from robbers and banditti, as well as to suppress the remains of Carbonarism. In 1825 le restored the 43 *
prisons of the inquisition. His attention was particularly directed to the remedy of numerous abuses in the departments of the Roman government, for instance, in the camera apostolica. Leo died in February, 1829 , and was succeeded by cardinal Castiglione, who took the name of Pius VIII. Pius died December, 1830, and was succeeded by cardinal Cappellari (Gregory XVI.)

Leo VI, emperor of the East, surnamed the Philosopher, was the son of Basil I, whom he succeeded, in 886. He rcigned weakly, and the ill success of his generals against the Bulgariaus, obliged him to submit to such terms of peace as those barbarians pleased to propose. A total defeat of his fleet, by the Saracens, also took place a short time before his death, which happened in 911 , after a reign of $2 \overline{5}$ years. He gave his name to several works, the principal of which are, a Treatise on Tactics; Novella Constitutiones; and Opus Basilicon, a collection of laws, begun by his father. He also addressed a letter to the caliph Omar, on the truth of Cliristianity.
Leo, Leonardo, chapel-master in the Conservatorio St. Onofrio, and private composer to the royal chapel at Naples, born in 1694 (according to Piccini, 1701), at Naples, probably studied under Scarlatti. To him, to Pergolesi, and some other composers of that period, is to be attributed the reputation which the Neapolitan school acquired all over Europe. Among lis scholars, Piccini, Sacchini, Pergolesi, Tractta, are distinguished. He surpassed all his predecessors, and, as he became equally perfect in all the departments of composition, he may be csteemed one of the greatest masters of Italy. 111 lis works were studied with veneration by the Italian musicians. Although Leo was very successful in passionate, grand and elevated compositious, hc was not less so in simple, tender and comic, as his comic opera $l l$ cioè proves. Leo is, besides, the first composer who availed limself of the form of rondos in his comic operas. He died in 1742. His best operas are Sofonisba (1718, according to Burney, his first opera); Olimpiade; La Clemenza di Tito (1735); Achille in Sciro (1740). He composed two oratorios-Santa Elena al Calvario (to the words of Metastasio), and La Morte d'Abele. Of his church-music, his Ave Maria, and a Miserere alla Capella, are the most remarkable.
Leo, John (surnamed Africanus), a traveller and gcographer of the sixteenth
century, was born of Moorish parents, at Grenada, in Spain, and, when that city was taken by the Spaniards, in $14!2$, retired to Africa. He studied at Fez, and afterwards travelled through various parts of the north of Africa. Having been captured by pirates, he was taken to Italy, and presented to pope Leo X , who persuaded him to cmbrace Christianity, and gave him his own name on his being baptized. At Rome, he acquired a knowledge of the Italian langaage, into which he translated his Deseription of Afriea, originally written in Arabic. This is a very curious and interesting work, comprising accounts of several countries rarcly visited by Europeans. Leo also composed a treatise on the lives of the Arabian philosophers. He is supposed to have died soon after 1526.
Leoben; a town on the Mur, in the Austrian duchy of Styria, about 1600 feet above the sea, with 2400 inhabitants, fumous as the place where the preliminaries of the treaty of Campo-Formio wcre concluded, between Austria, Naples and the French republic, Aug. 17, 1797, after Bonaparte's successful campaign of 1796 in Italy, against the arch-duke Charles. (See Campo-Formio, Peace of.) Here the young French general displayed great talcuts as a statesman, deriving little aid fron the instructions of the directory. (See .Vapoleon, and Italy.)
Leox, Ponce de Leon. (See Ponce de Leon.)
Leon; one of the great divisions of Spain, usually styled the kingdom of Leon; bounded north by Asturia, east by Old Castile, south by Estremadura, and west by Portugal and Galicia. It was united to Castile in the beginning of the eleventh century. The soil is generally fertile, and produces all the nccessaries of life; and the wine is tolerably good. Population, $1,215,551$; square miles, 21,000 . It is divided into six provinces.

Leon (anciently Legio Septima Gemina); a city of Spain, capital of a province to which it gives name, at the conflux of two rivers, whose united stream runs into the Esla, 10 miles south of the town; 150 miles north-west Madrid ; lon. $5^{\circ} 37^{\prime} \mathrm{W}$.; lat. $42^{\circ} 45^{\prime} \mathrm{N}$. ; population, 5900. It is a bishop's see. This city is very ancient, and was formerly much more rich and populous than it now is. It was the capital of a kingdom of the same name, and the kitgs resided in a palace here till the year 1037. It now contains 13 parish churches, 9 convents and 4 hospitals. The cathedral is handsome. and abounds
in relics. In it are secn the tombs of 37 kings and 1 emperor.
leqnardo da Vinct. (Sce Finci.)
Leosints, king of Sparta, son of king Anaxandrides, ascended the throne 491 years B. C. When Xerxes, king of Persia, invaded Grece with an inmenese army, Athens and Sparta were the only great cities whieh resolved to resist him. The Spartans gave the chief command of the military force to Leonidas, who marched to Thermopylx, in the year 480 B. C., with 300 men. Small as his army was, amounting to but 7000 men , ineluding the allies, lic stationed it so skilfully, that the Persians, on coming to the narrow pass, became awarc of the difficulty of earrying it lyy force. Xerxes therefore attempted to bribe Leonidas, offering him the dominion of all Greece. This proposal being rejected with scorn, the despot sent a herald to order the Greeks to surrender their arms: "Let him come and take them," was the reply of the Spartan king. Thrice did the Persians advance against the pass, in great forec ; thrice were they repelled, with great loss. Meanwhile, a traitorous Greek, named Eplialtes, led a select troop of 10,000 Persians, by a secret path, over the mountain, who, after compelling the few opposing Plocians to take to flight, appeared in the rear of Leonidas. He now saw that all was lost, but resolved to show, by a memorable example, what the Greeks could perform in the cause of their country. Hc is said, also, to have been influenced by an oracle, which declared that Sparta could be saved only by the death of one of its kings. To avoid useless bloodshed, Leonidas dismissed the greater part of his troops, and retained but 300 Spartans, 700 Thespians, and 400 Thebans; the last, in some measure, as pledges of the fidelity of their countrymen, and the Thespians, because they could not be induced to leave their Spartan allies. As soon as Xerxes had learned the successful passage of the troops led by Ephialtes, he threw hinself, with his whole force, into the entrance of the pass. But Leonidas, before day-break, penetrated into the Persian camp. After a long contest, the hero fell, surrounded by fallen cnemies. His men defended his body, till they sunk bencath countless assuilants. This defence of Thermopyle is one of the most remarkable exploits of antiquity. The Greeks erected a splendid monument to the fallen, and celebrated, annually, warlike games over their sepulchres.

Leovise Verse; a kind of Latin verse, in vogue in the middle ages, consisting of
hexameters and pentameters, of which the final and middle syllables rhyine; so called from Leonius, a poet of the twelftls century, who made use of it, or, according to some, from pope Leo I (A. D. 680). Poems of considerable length were written in this barbarons taste. The following distich may serve as an example:
Darmon langucbat, monachus tunc esse volebat; Ast ubi convaluit, mansit ut ante fuit.
Leo versified a great part of the Old Testament in this manner. (Sce Rhyme.)
Leontien (Leontia); a courtesm, the scholar and mistress of Epicurus. According to some, she was his lawful wife; according to others, the mistress of Metrodorus. She is said to have possessed distinguished talents, and to have composed an essay, replete with acuteness and learning, in a beautiful attic style, in defence of the doctrines of Epicurus against Theoplirastus.

Leontodon Taraxacum, or Dandehos. This plant is now so common in many of the settled parts of the U. States, and las become so intimately associated with our other spring flowers, that few, except professed botanists, are aware that it is not a native. It has, however, been introduced from Europe, where it is a very frequent and familiar plaut. The leaves are all radical and rumcinate, or jagged on the margin, and from this circumstance lias been derived its Frenel name-dent de lion, or lion's tooth, of which the English appellation is a corruption. The stems are hollow, and bear single, large, yellow flowers, consisting of a congeries of florets, eaeh of which is succeeded by a naked seed, bearing, on a long pediele, a tuft of radiated down. By means of this tuft, the seed, when detached, is kept suspended in the air, and transported, by the winds, to a distance. In this respect, however, it does not differ from most of the compositc. The whole plant is full of a milky and bitter juice; notwithstanding which, it is in common usc as an carly vegetalle. The roots, when roasted, are said to form a good substitute for coffee, and are used for that purpose in some parts of Germany.
Leopard (felis leopardus). This beautiful but savage animal is spread as widely over the countries of the old continent as the lion, and, throughout this extent, he varies but little, and that merely in magnitude, in the size and form of his markings, and the intensity of their coloring ; but he is every where the same as to form and structure, as well as in character and disposition. His ground color is a yellowish
fawn, which becomes paler on the sides, and is lost in the pure white of the under part of the body. The baek, head, neck, limbs, and under surface of the body, are marked with black spots, of different sizes, and placed in an irregular manner, whilst the sides are covered by numerous distinct roses, formed by the congregation of smaller spots, placed in a circular form. In general appearance, this amimal is fierce, and is, in fact, equally savage and dastardly with the rest of the cat kind. His usual prey is antelopes, monkeys, and the smaller quadrupeds. He always avoids man, except when closely pursued, when he offers an obstinate resistance. Occasionally, however, the lone traveller las fallen a victim to these ferocious and sanguinary animals. When they attack a flock of sheep, the slaughter they commit is almost incredible. Kolbe states that two leopards, a male and fcmale, and three young ones, entered a shecpfold at the cape of Good Hope; the old aninals killed near 100 sheep; when they were satiated, they fed their young, and, each seizing a whole carcass, attempted to move off, but they were waylaid and killed. The Negroes take thems in pitfalls, slightly covered over with hurdles, on which a piece of meat is placed as a bait. From the extraordinary flexibility of the limbs of this animal, he is enabled to ascend trees, in which he usually takes refuge when pursued. When taken young, he can be tamed to a certain degrec. According to travellers in Africa, the flesh of the leopard is excellent, resembling veal. The skins are valuable, selling, in Europe, at from $\$ 20$ to $\$ 50$. -Hınting-leopard ( $F_{\text {: jubata), or chectah, }}$ as it is termed in India, is about the size of a greyhound, with a narrow chest and long legs, of a thin make in the body and limbs, apparently caleulated rather for speed than strength. In fact, this animal forms a sort of conneeting link between the feline and canine groups. He is of a palc yellow color on the upper part, white underneath, and covered all over with very small irregular spots. He has a slight mane, extending along the back of the neck and upper part of the back. He is capable of being perfectly tamed, and is employed, in the East, for the chase of antelopes. He is carried to the field in a cart, in which he is kept chained and hood-winked, till brought within view of a herd, when lie is released, and the hoods removed. The animal steals gradually towards his prey, till he has attained a proper distance, when, with five or six
surprising bounds, he springs upon it. If, however, he is unsuccessful in his attuck, he does not attempt to renew it, but returns, with a mortified air, to his keeper.
Leopold I, Geman emperor, second son of the emperor Ferdinand III and Mary Anne of Spain, born 1640, was chosen, in 1655, king of Hungary ; in 1658, king of Bohemia; and, in 1659, emperor of Germany. On ascending the throne, he was obliged to promise to afford Spain no assistauce against France. The Turks had then defeated the imperial ariny, and desolated Moravia, bccause the emperor had aided the prince of Transylvania, Ragotsky, who liad ceased to pay an annual tribute to the Ottoman Porte. Montecuculi, Leopold's general, supported by 6000 select French troops, under Coligny and Feuillade, defeated the Turks, August 1 , at St. Gothard; but, instcad of improving this victory, the cabinet of Vienna concluded a truce for 20 years, and Ragotsky remained tributary to the Porte. Hungary was to be totally subjugated ; but the nobles of this country attempted to throw off the Austrian supremacy, and to choose a king from their own nation. This undertaking cost Zrini, Frangipani, Nadasti, and other Hungarians, their lives. Tekeli (see Tekeli) now placed himself at the head of the malcontents, and was chosen king of Hungary by the Turks, for an annual tribute of 40,000 zechins. Tekeli called the Turks into the German empire ; with an arny of 200,000 inen, they captured the island of Schütt, and laid siege to Vienna, in 1683. Just as the city was on the point of surrendering, John Sobiesky hastened to its relief. The Turks were attacked in their intrenchments, aud suffered a total defeat. A panic terror seized the grand vizier, Kara Mustapha: he fled, and left his camp to the victor. This defeat was followed by others, and the imperialists recovered all the lost cities. Leopold caused the Hungarian insurgents, whom lie looked upon as the cause of all the dangers which menaced Germany, to be severely punished. Hungary, which had been an elective monarchy, was declared, at the diet of Presburg, in 1687, hereditary in the Austrian male line, and Joscph, the eldest son of the emperor, was crowncd as king of Hungary, without any previous election. Transylvania submitted, without reserve, to the Austrian lousc. Leopold waged three wars with France, which he declared wars of the empire. The first, in 1672, in connexion with Spain and Bran-
denhurg, to assist the Dutch, attacked by the French and English, was unsuccessful on the part of the emperor and empire, and was terminated by the peace of Nimeguch, Fcb. 5, 1670. The sccond war had its origin in the league formed at Augsburg, in 1686, with Itolland and Spain, against France. In this war, the Palatinate was terribly devastated by the French. The German arms were generally successful, and, by the peace of Rysivick, Oct. 30, 1697, France restored all that it had torn from Germany since 1680, besides relinquishing to Germany Brisach, Friburg, Kchl, Philippslurg, and sevcral smaller fortresses. Tlie duke of Lorraine, a near relation of the king, recovered liis tentritories, from which liis family liad been expelled, in 1670, by Lonis XIV. The third war was undertaken by Leopold, in 1702, in order to procure the succession to the throne of Spain for his second son, Charles ; but he died in the course of this war, May 5, 1705. His eldest son, Joseph, already crowned Roman king, in 1690, prosecuted the war with great vigor. (Respecting the great commotions in Hungary, in the beginning of the eighteenth ccutury, see Ragotsky.) As the youngest son of Ferdinand III, Leopold had been educated for the church, and his reign was marked by attachment to the clergy, irresolution, and indulgence towards his ministers, to whom lie intrusted the whole management of the government. He was passionately fond of music, and was hiniself a composer. After he had uttered his last prayer, on lis dcath-bed, he caused his musicians to enter, and departed to the sound of instruments. He was thrice married. Two sons survived him-Joseph I, born in 1678, his successor, and Charles, archduke of Austria, born 1685, who became emperor in 1711.

Leopold II, emperor of Germany, born 1747, on the death of his father, the emperor Francis I (1765), became grandduke of Tuscany, and, during a reign of 25 years, almost regenerated that country. He encouraged commerce, agriculture and manufactures, improved the roads, established penitentiaries, abolished the inquisition, and proclaimed a new criminal code. His financial administration was admirable, and he was personally simple in his manner of living. He preceded his brother Joseph (q. r.), emperor of Germany, in measures of ecclesiastical reform, but conducted them with more prudence and caution, yet to the great displeasure of the Roman court.

When the death of Joseph II called him to the imperial throne, he found the hereditary states of Austria in a critical situation. In pursuance of the terins of the convention of Rechenbaeh with Prussia (July 27, 1790), he coneluded an armistice with Turkey, which was followed by the peace of Sistora, in 1791, surrendering all the Austrian conquests to the Porte. After reducing the revolted Netherlands, by foree of ams, he allowed them the enjoyment of their former privileges, and restored many of the ecclesiastieal estal)lishments, which had been abolislied by Joseph. Quiet was restored in Hungary, the police and the administration of justice were reformed, and public education encouraged. In 1791, he had the celebrated iuterview with the king of Prussia, at Pilnitz, on which oecasion the two monarchs declared the situation of the king of France to be a suljeet of general interest to all the sovereigns of Europe. After having restored many institutions and usages, whieh Joseph's ardent spirit had led him to abolisil, Leopold died, March 1, 1792. Leopold was one of the hest disjosed monarelis who ever sat on a throne, and it is not to be denied that he - ffected much good; lout it was his lot to reign at the time of a great struggle between old and new principles, which is always a difficult, and generally a deplorable situation for a prince, who is 1,lunged into a whirlpool, where all power of self-direction is lost. This should be kept in ınind, in judging of the convention of Reichenbach.

Leorold I, prince of Dessau, a Prussian general, boru in 1676, carly slowed a strong inclination for the military service, aud, in his 12 th year, received from the emperor Leopold the command of a regiment. After having travelled two yeas, he made his first campaigu on the Rline, in 1696. In the war of the Spanish succession, he proved limself a brave and skilful general. He had an honorable share in the victory at Blenheim, and fought with distinetion in Italy. After having commanded the Prussians in the Netherlands, he was made general-fieldmarshal in 1712, and Frederic William I, the new king, was so much attached to him, that he kept lim constantly near his person. In a eampaign against the Sivedes, he was again victorious. Frederic the Great plaeed no less confidence in him, and, in 1742, he received the chief command in Silesia. In 1745, lie gained the bloody battle of Kesseldorf, in consequence of which Dresten was taken by
the Prissians, and peace was concluded. When not in the field, he paid great' attention to agriculture. He died of apoplexy, in 1747. At the time of his death, he was imperial and Prussian general-field-marshal, and governor of Magdeburg. His manners were rough, often coarse; but he was brave, sincere and honest, and very much beloved by the soldiers. A popular march, still often played in Germany, particularly in the North, is called the Dessauer .Marsch, because it was prince Leopold's favorite.*

Leopold, George Christian Frederie, prince of Saxe-Colburg-Saalfeld, husband of the late prineess Charlote, second brother of the present duke of Coburg, was born Dec. 16, 1790. The duehess of Kent, mother of the princess Vietoria, the heiress-presumptive to the erown of Great Britain, is his sister. On the marriage of his sister Ama with the Russian prince Constantine, he received the title of general in the Russian service. In 1808, while the duke of Coburg was absent in Russia, and at Erfirt with Alexander, prince Leopold administered the government with prudence and success, and ever after continued the confidential counsellor of his brother. Napoleon compelled him, in 1810, to give up his command in the Russian army, and he deroted hiniself to the arts and sciences, and the affairs of his house. In 1812, he visited Vienna, Italy and Switzerland. Meantime, the issue of the Russian campaign had elanged the face of things in Northern Germany, and the prinees of Coburg were eager to aid in the common effiorts against the French. Leopold joined the cmperor Alexander in Poland, and entered France, in 1814, in the Russian army. He then visited the British capital, with the allied sovereigns, and here hecame aequainted with the princess Charlottc. On his return to the continent, he repaired to the congress of Vienna, and, in 1816, received the consent of the prince of Wales to the union with his daughter. She had been destined for the prinee of Orange, but the decided inclination which she manifested for prince Leopold, induced the prince regent to abandon that design. The melancholy

[^21]death of the princess, in November, 1817, left the prince a widower; and he resided, for some time, principally on the continent. His pension of $\$ 50,000$, from the British treasury (of which he has lately refused to relinquish a part), has contributed, in some measure, to render him less popular in England than formerly. In 1830, he was chosen king of Greece; but, after having shown a readiness to accept this dignity, he finally declined it, on the ground that the Greeks were not satisfied with the arrangements which had been made by the allied powers. In 1831, he was chosen king of Belgium. (See Netherlands.)

Lepanto, or Ainabachti; formerly a sangiac, in Rumili (Turkey), with 80,000 inhabitants. The capital of the same name, a seaport, was anciently called Vaupactus; lon. $22^{\circ} 20^{\prime}$ E.; lat. $38^{\circ} 27^{\prime}$ N.; population, 2000, according to Hassel. The town is situated in a bay, formerly called the gulf of Corinth, now the gulf of Lepanto, or gulf of Patrass, which is 70 miles long. It is fortified and defended with a castle, built on an eminence. Being ceded by the emperor to the Venetians, it was fortified by them, and, in the year 1475 , stood a siege of four months against the Turks, who lost 30,000 nien. Near this town, don Jolm of Austria obtained a celebrated victory over the Turkish fleet, Oct. 7, 1571. Cervantes, the celebrated author of Don Quixote, fought as a soldier in this battle, and had his left liand shot off by an arquebuse. The 'Turkish fleet consisted of 210 galleys, 23 transports, and 6 galeasses, with heavy artillery. The Spanish fleet was increased by an auxiliary flotilla, sent by the Venetians, and by some papal galleys. Both the fleets sought to come to close quarters. The battle was fought with bows, javelins, grapnels, and with cannon, muskets, pikes and the sword. Jolin of Austria, the commander-in-chief, and Veniero, the commander of the Venetian squadron, attacked the Turkish admiral Ali, took his vessel, and made him prisoner. His head was immediately struck off, and placed above the top of his own flag. The Christians were victorious. The Turks lost 150 vessels; more than 15,000 men were killed, and 5000 Christian slaves liberated. The Christians also lost 5000 men slain and wounded. Nothing prevented their sailing to Constantinople, except a dispute in regard to the division of the booty. This battle put a stop at once to the progress of the Turkish power, which had attained a fearful magnitude in the Mediterranean. (See Barbarossa.) The Christians had almost lost
the hope of effectually resisting it; and, for this victory, don John of Austria (q.v.) deserves the gratitude of the whole Entropean world.

Leper. (See Leprosy.)
Lepidus, M. Amilius, the Roman triumvir, having served the interests of Cæsar ( $\mathrm{q} \cdot \mathrm{v}$. ), was made by hinn his colleague in the consulslip. After the assassination of Cassar, although the republican party endeavored to win hin to their ranks, he joined Antony (q. v.), and aftcrwards made the infanous partition of the empire with hiin and Octavius Cæsar. (See Augustus.). After the victory of Plilippi (q. v.), his two colleagues made a new division, leaving him, however, the command of Africa. Augustus having called him to render assistance against Sextus, Lepidus attempted to render himself master of Sicily, but was obliged to submit to the former, and to take lis seat again in the senate. Montesquien says that he was the worst citizen in the republic. Without firmness or talents, lie seems to have been elevated by fortume to render his fall the more striking.
Leprosy (Greek $\lambda$ derpu) ; a name given to several different diseases. The clephantiasis ( $1 . \mathrm{I}^{\text {r. }}$ ) is sometimes called leprosy of the . Arabs. The leprosy of the Jows is distinguished by white, cutaneoth. spots, composed of smaller spots, which appear sometimes in one place and sometimes in another, and are covered with a rouglı scaly matter. It appears to lave been the leuce of the Greek writers. The Greck leprosy is characterized by hard, insensible tubercles, which appear upon the skin, and are accompanied by a progressive insensibility, and the loss of the voice. It is endemic in Egypt, Java, and some parts of Norway and Sweden. The use of unhealthy articles of food seems to be one of its causes. It is hereditary and contagious. It was introduced into Western Europe in the time of the crusades, but has gradually disappeared. The tubercles which characterize leprosy appear in different parts of the skin: they are liard, rough and numerous, and cause the loss of the hair at the places where they appear. They finally terminate in ulcers, which penetrate even to the bone, producing a caries. They also cause the separation of parts of the body, the toes and fingers, for example, dropping off. These symptoms are accompanied with a languor in the motions, a dullness of the senses, a change of the voice, offensive lreath, and lethargy. There are three sorts of leprosy-the squamous, or scaly,
the crustaceous, in whiel the skin is covered with crusts, and the tubcreulons. The remedy recommended for this disgusting discase is light food, suel as vegelables, soups, milk: sulphur baths, sudorific drinks, mereury, arc sometimes prcseribed. But all remedies are too frequently unavailing. In the middle ages, leprosy, under all the forms of disease to whieh this term has been applied, seems to have been very common and gencral. It should, however, be observed, that almost all eutaneous disorders were considered as of a leprous nature, and treated as such. From the sixth to the fifteenth century, these loathsome disorders attraeted the attention of lawgivers and of the benevolent, and we find numerous ordinances rclating to lepers, affecting their civil rights, and great numbers of hazarhouses in all the countries of Europe. In the historians of those times, thercfore, we are to consider the word leprosy as used indiscriminately of all entaneous diseases; and we may well bc astonished and shocked to find that all such patients were treated somewhat after the manner prescribed in Leviticus for the Jewish leprosy. They were, in fact, treated as eivilly dead: their funeral ohsequies were performed, and masses said for the benefit of their souls. Their marriage ties were dissolved, but a leper might enter into a new connexion with a person who was also afflicted with the disease. They were allowed to enter the eities at certain seasons, but were required to give notice of their approach by sounding a rattle. The consequenees of such a trcatment may be easily imagined. The improved condition of the lower classes, in food, clothing and maner of living in general, and the advaneement of medical seience, have contributed to eradicate this loathsome aud disgusting malady.

Lerma, Fruneis de Roxas de Sandoval, duke de, first minister of Philip III of Spain, was marquis of Dcuia, when he was appointed cquerry to the Iufiunt don Philip, over whom he aequired such influence, that, when the prince ascended the thronc, in 1598, he made him his favorite and prime minister. He concluded peace with England and Holland, and cndeavored to relieve the embarrassed state of the finances, by encouraging agrieulture ; but his measures were ill-contrived. After the death of his wife, he took the eeclesiastical habit, and obtaincd a eardinal's hat, which he coneeived wonld protect him in the possession of his power. But he was deceived ; for lis own son, the duke D'Uze-
da, contrived to supplant him in the king's favor, and suceeeded to his post on lis being dismissed, in 1618. He was accused, without any probability, of having cm1ployed his seeretary, Roderie Calderon, to poison the queen. For this imaginary erinic, Calderon was exeeuted in the next reign. The duke of Lerma died in retirement, in 1625.
Lesage, Alain René; a eelebrater French novelist and dramatie writer. He was born May 8, 1668, at Sarzeau, a small town in Brittany, and was the son of a lawyer, who held an office in the royal court of Rhuys. His father dying in 1682, he was placed under the guardianslip of an unele, who dissipated the fortune of his ward. He studied at the college of the Jesuits, at Vannes, after which he appears to have been employed in his native province for five or six years. In 1692, he went to Paris to study philosophy, and also to solieit some employment. His talents and manners proeured him admission into the best society, where his wit and taste for elegant literature rendered his company very acceptable. His first literary undertuking was a translation from the Greek of the Letters of Aristenætus (1695). Established as a resident in the eapital, he was admitted an advoeate of parliament ; and the abbé De Lyonne gave him a pension of 600 livres. He studied the Spanish language, and produced a multitude of translations or imitations of Castilian dramas and romances. Two of his comedies were published in 1700, and a third was aeted in 1702; but it was not till 1707, when his Crispin, Rival de son Maitre, appeared, that he established his reputation as a theatrical writer. His suecess as a novelist has most contributed to make him known to foreigners. Le Diable Boiteux, the title of which has been oddly translated "The Devil upon two Stieks," became extremely popular; and Gil Blas de Santillane (1715) has furnished a model for numberless imitations in various countries and languages. Lesage projeeted a translation of the Orlando of Ariosto, and published, in 1717-21, Roland l'Amoureux, from Boiardo, as an introduction to the former, which was never cxecuted. In 1732, he published Les Aventures de Guzman d'Alfarache ( 2 volumes, 12 mo. ); and, the following year, Les Aventures de Robert, dit le Chevalier de Beauchesne (2 volumes, 12 mo .), containing the real history of a freebooter, from papers furnished hy his widow. In 1734, appeared L'Histoire d'Estevanille Gonzales (2 volumes, 12mo.); and, in 1735, an anlus-
ing dialogue, entitled Une Journée des Parques (12mo.). The last of his novels was Le Bachelier de Salamanque, which La Harpe considers as inferior to all the prcceding. He did not cease writing, but, in 1740, produced a collection of satirical letters, under the title of La Valise trouree, and, in 1743, a volume of anecdotes. In the year last mentioned, he retired to Boulogne, where he died Nov. 17,1747 . Lcsage produced a great number of comic pieces for the theatre, seven of which he published in his Théätre Francaise (1739, 2 volumes, 12 mo.), including C'rispin Rival de son Maitre, and Turearet, intended as a satire on the farmers-general. Notwithstanding his taleuts, and the success of his numerous compositions, the author of Gil Blas was by no means rich, owing to a carelessness and liberality of disposition, which prevented him from soliciting the great for employments, or from steadily accumulating the products of his literary industry.
Lesage. (See Las Cases.)
Lesbos (now Metelin, from the former capital, Mitylene, once the residence of Aristotle, now a Turkisl fortress); a Greek island, 137 milcs in circumference, contrining 260 square miles, 40,000 inluabitants, for the most part Turks, in the northern corncr of the Egean sea (the Archipelago), on the Asiatic coast. According to tradition, Lesbos, son of Lapithas, and grandson of Æolus, by the advice of an oracle, led a colony to this islaud, cspoused Methymna, daughter of Macarcus, and received with her the dominion of half of the island, to which he gave the name of Lesbos, it having been previously called $I_{s a}$, and Pelasgia, from the Pclasgians. The island containcd forests of becch, cypress and fir trees. It yielded marble of a common quality, and the plains abounded in grain. Warm springs were also found; agates and precious stones. The most profitable production was wine, which was preferred, in many countries, to all the other Greek wines. To the present day, the oil and figs of Lesbos are accounted the best in the Archipelago. The island formerly contained nine cities, for the most part in a flourishing condition; among them, Mitylene, Pyrrha, Methymna, Arisba, Eressus and Antissa: at present, 120 villages are enumerated. Lesbos was originally iuhabited by Æolians, who formed a powerful democracy from an insignificant monarchy. They afterwards made great conquests on the continent and former territory of Troy, ard eveu resisted the Athenians them-
selves: Lesbos was next disturbed by the Samians, and, atterwards, by the Persians, to whom it was finally obliged to sulmit. Atter the battle of Mycale, it shook off the Persian yoke, and became the ally of Athens. During the Peloponnesian war, it separated, more than once, from Athens, but was always reduced to obedience. $A$ distinguished citizen of Mitylene, exasperated that several rich inhabitants had refused his sons their daughters in marriage, publicly accuscd the city of an intention to conclude a leaguc with the Lacedemonians, by which false accusation lie induced the Athenians to send a fleet against Lesbos. The nearest citics, Methymna excepted, armed in defence of their capital, but were overpowcred, the walls of Mitylene demolished, and a thousand of the richest inhabitants put to death. The territory of Methyma alone was spared. The island itself was divided into 3000 parts, of whicl 300 were devoted to the service of the gods, and the rest divided among thic Athenians, by whom they were rented to the ancicnt proprietors. The cities of Leshos, nevertheless, soon rebelled again. The Leshians were, moreover, notorious for thicir dissolute manners, and the whole island was regarded as the abode of pleasure and licentiousness. At the same time, they had the reputation of the highest refincment, and of the most distinguished intellectual cultivation. Poetry and music made great progress there. The Lesbian school of music was celebrated, and is said to have had the following origin: When Orpheus was torn to picces by the Bacchantes, his head and lyre were thrown into the river Hebrus, and both were cast, by the waves, on the shorc of Methymna. Meanwhile, harmonious sounds were emitted by the mouth of Orpheus, accompanied by the lyre, which was moved by the breath of the wind. The Methymnians therefore buried the head, and suspended the lyre in the temple of Apollo. In return, the talent of music was conferred on them by this deity. In reality, Leshos produced musicians superior to all the other musicians of Greece. Among these, the most distinguished were Arion of Methymna, and Terpander of Antissa. Alcæus and Sappho were esteemed the first in lyric poetry. Pittacus (one of the seven wise men), the philosophers Theophrastus and Theophanes (the bosom friend of the great Pompey), and the historians Hellanicus, Myrtilus, \&c., were also natives of this island. It was often chosen as a place of residence by distin-
guished forcigners. Epicurus and Aristotle taught there.

Leslif, John, a distinguished Seotch chemist, mathematician and natural philosopher, professor of natural plilosophy in the university of Edinburgh, is the anthor of numerous scientifie works of great valne. Among them are his Inquiry into the Nature and Propagation of Heat (8vo., 180.4); Elements of Gcometry, Gcometrical Analysis, and Plane Trigonometry (1811); Account of Experiments and Instruments depending on the Relation of Air to IIeat and Moisture; Philosoply of Arithmetic (1817); and various papers in ecientific journals. IIe has likewisc invented several curious and valuable philosophical instruments. His differential thermometer is an important acquisition to physics. (See Thermometer.) Ilis elcction to the professorship, for which he was a candidate, did not succeed without a violent altercation between the members of the university, and some of the divincs of the church of Scotland, who opposed Mr. Leslie on account, as they alleged, of his being a sceptic in religious matters. Mr. Lestie was one of the contributors to the Edinburgh Review, and the Supplement to the Encyclopadia Britannica. The author of Peter's Letters says of Mr. Leslie, "He is a very fat, heavy figure of a man, with-out much more appearance of strength than of activity; and yet by no means a slothful-looking person. His face is one which, at first sight, you would pronounce to be inerely a coarse one, but in which, once informed to whom it belongs, you are at no loss to discover a thousand inarks of vigorous intellect, and faney too. Of this last quality, indeed, his eyes arc, ut times, full to overflowing. In the midst of the sombre gravity of his usual look, there are always little flashes of cuthusiasin breaking through the eloud; and, in this respeet, he forms a striking contrast to the calm, tranquil uniformity of Mr. Playfair's pliysiognomy and deportment."
Leslie, Cliarles Robert, was born in London, October 19, 1794, of Anlerican parents, both of whom were natives of Maryland, to which province his greatgrandfather, Robert Leslie, had emigrated from Scotland soon after the rebellion, in 1745. The fimily returned to Pliladelphia, when Charles Leslie was about five years old, and long before that period lie had given extraordinary indications of a talent for painting. lis first attempts were on the slate, and were gemerally represcutations of horses and soldiers, rude of course, but strikingly spirited and
vol. vil.
characteristic ; and, at six years of age, he could sketch, from recollection, and with great accuracy, the likeness of any persoll whom he was in the habit of sceing. At the age of 13 , he was taken fron school, and placed as an apprentice with Mr. S. F. Bradford of Philadelphia, hookscller; but, though he scrupulously fillfilled the duties of his situation, his heart was with his pencil, and almost every leisure moment was indefatigably devoted to his favorite pursuit. It was liis practice, after seeing a play, to make little water-color drawings of the principal performers in their resplective claracters. He was much struck with Cooke's personation of Richard, and, leaving the house as soon as the tragedy was over, he comneneed a smali sketch of the gifted and eccentric actor in this his most celebrated part; and, when the fanily cane home (having staid to sce the farce), they found the drawing nearly completed. All these drawings of the performers were entircly from memory. The fortunates little sketch of Cooke in Richard was much admired and talked of. The juvenile artist (who was then but 16) became inmmediately an object of notice, and he was consequently cnabled to accomplish his ardent desire of adopting a profession which he preferred to all others, and of secking in Europe those opportunities of improvement which were not to be found in Ancrica. Mr. Bradforl generously gave up his indentures, and! Mr. Sully, with his usual kindness, di: rected his first essay in oil-a sinall head from one of the old masters. Sloortly after his arrival in London, he sent to Pliladelphia his first original oil-pieture, William of Deloraine, , from the Lay of the Last Minstrel. Since that time, he has lived constantly in Europe, his engagements never having allowed him to pay even a transient visit to the country of which he has always considered himself a citiz.n, notwithstanding the eircumstance of lis birth having taken place in England. He has been some years an academician, and it is unnecessary to dilate on the success which has attended his professional career. Anong the huost distinguished productions of his pencil, are May Day in the reign of Elizabeth; Slender courting Ame Page; lady Jane Grey prevailed on to accept the crown; Sanclio relating his adventures to the dueliess, and Falstaff dining at P'age's house. The pieture which, according to custom, he presented to the royal acad-

[^22]emy on being elected a member, is Catharine of Arragon, after her divoree from Henry VIII. His portrait of sir Walter Seott, painted for Mr. Tieknor of Boston, is considered an excellent likeness.

## Lespinasse. (See Espinasse.)

Lessers, John Baptiste Barthclemi, baron of, the fellow traveller of the unfortunate Lapérouse (q. v.), born at Cette, in 1765, devoted himself to the diplomatie eareer. For five years, he was vice-consul in Petershurg, where his father had previously performed the functions of French eonsul-general. In consequence of the recommendation of the minister of war, the duke of Castries, the king of France appointed him interpreter to the expedition of Lapérouse. On his arrival on the coast of Kamtselatka, he received orders, September 29, 1787, to leave the frigate L'Astrolabe (Lapérouse's vessel), in order to convey to France, by land, the aecounts and journals of the thus far sueeessful voyage of the navigator. Under great difficulties, Lesseps travelled, in the roughest scason of the year, from Kantseliatka to Petersburg, where he gave his papers to the French aunbassador, count Ségur, and hastened to Paris, to render to the king more minute verbal information. Appearing, ill compliance with the desire of Louis XVI, in the Kamtschatkan dress which he had brought loome, Lesseps was for some time the objeet of curiosity to the whole court. The monarch subsequently appointed hin consul in Cronstadt, after which he discharged the same office in Petersburg, where he remained till 1812, when Napoleon made him intendant at Moseow. After the change of governunent in 1814, he was sent by Louis XVIII, as charge d'affaires, to Lisbon. Lesseps has published a journal of his travels and observations in Kamtschatka and Siberia (2 vols., 1790).
Lessers, John Baptiste de, born 1774, subprefect of Lambez, remarkable for his adventures, in 1790, emigrated, and served as a common soldier under Condé. In consequence of the amnesty afforded by Bonaparte to emigrants, he returned, and followed a relation to Egypt, became French consul in Alexandria, and acquired many friends by his humanity and benevolence, both among the natives and his eountryinen. Being taken prisoner soon after by the Arnauts, he was dragged to the market to be murdered, when a native, to whom he had once rendered a service, took him from his assailants, on pretence of a wish to sacrifice
him morc slowly and cruelly. Lesseps thus eseaped the sword, returned to France, and, after the union of Tuscany with the empire, was appointed sub-prefeet in Sienna, where lie renaiued till the restoration, when he was removed in the same capacity to Lambez.
Lessing, Gothhold Ephraim, one of the most distinguished German authors, whio contributed more than any other individual to the regeneration of German literature, and whose language is a model of German prose, was renarkable for the versatility of his genius. Lessing was born January 22, 1729, at Kamentz, a town in Upper Lusatia. His father, a striet Lutheran elergyman, gave him his first religious instruetion. In 1741, Lessing was sent to the sehool at Meissen, where he studied Greek, Latin and mathenaties with great suceess. In 1746, lie entered the university of Leipsic, but could never be induced to devote himself to a strict routine of preseribed study. Here he became aequainted with several young men, afterwards distinguished in literature ; and, in connexiou with a friend named Weisse, he translated the Hamuibal of Marivaux, and prepared for the stage a dramatie performance begun while he was at school. This was brought forward by a stage direetress named Neuber, with whom he was acquainted. Aetors were at that time considered as vagabonds, and his father, mueh distressed at his son's mode of life, ordered him to return home. Here he wrote his Anacreontics, though wine and love were little akin to the sobriety of lis situation. In 1750, Lessing went to Berlin, where he contributed to several periodicals, and attracted some attention by his correspondenee with Voltairo, occasioned ly Richier, Voltaire's amanuensis, having shown him a copy of Voltaire's Vie de Charles XII, before it was published. In compliance with the anxious wishes of his parents, he then went to Wittenberg, and applied himself, with his younger brother, very diligently to his studies. At this time, he translated Iluarte's (q. v.) Trial of Wits, and wrote a critique on Klopstock's Messiah. In 1753, he returned to Berlin, and wrote the learned articles in Voss's Gazette. In 1755, he wrote his tragedy of Sarah Sampson, at Potsdam. In the same year, he set out on a tour, with Mr. Winkler, a merchant; but, in consequence of the breaking out of the seven years' war, they only proceeded to Holland. In 1757, in connexion with Nicolai and Mendelssohn, he
edited the Library of Belles-Lettres. He also began his Virginia, which was subsequently completed under the name of Erinilia Galeotti, and is much the most elaboratcly finished of his works. In 1760, Lessing became a member of the royal acadeny of sciences at Berlin, and soon after became secretary to general Tauenzicn, in Brcslau, wrote Minna von Barnhelm, a military comedy, and his Laocoon, or On the Limits of Poetry and Painting, and began deeper researches into philosoplical and theological subjects, though, at the same time, he followed his inclination for games of hazard more than previously. In 1765, he once more rcturned to Berlin, to devote himself solely to the sciences; but, unaccustomed to so sedentary a lifc, he is said to have formed the plan of putting limself at the head of a company of strolling players. We shall not thereforc be surprised to find him, in 1767, In llamburg, whither the proprictors of the theatre had invited him on very favorable terms. While thcre, he wrote his Dramaturgie ; but a misunderstanding with his employers, and the indocility of the actors, rendered his residence at Hamburg disagreeable. At the same time began his dispute, or it may more properly be called quarrcl, with Klotz. (q. v.) Dissatisficd with his situation, he now determined to go to Italy, whicn an advantageous offer of the place of librarian at Wolfenbüttel changed his intention. The little court of Brunswick was then almost the only one in Germany which fostered German literature : the others confined their attention to the French. In 1769, he left Hamburg. In the library of Wolfenbättel, he discovered the MSS. of the exsubstantiator Bcrengarius of Tours, in which he refutes the work of the transubstantiator Lanfrancus. He also published some theological treatises, under the titlc of Wolfenbüttel Fragnnents of an unknown Author, which involved him in a thcological war. In 1775, he went to Vienna, having received an invitation to that city, and accompanied prince Leopold of Brunswick to Italy, which he had long desired to sec. He left Gernany in April, but returncd the same ycar; and the theological disputes in whicl. he was involved, now became so acrimonious, that it was proposed, at Wolfenbüttel, to subject lis writings to a striet censorship. His Nathan the Wise, from its supposed irroligious tendency, added to the fierceness of the controversy. As a pocm, it is, in our opinion, much the fincst that he has writteu. The persecutions which he
encountered destroyed his peace, and he died February 15, 1781. His complete works were published at $\operatorname{Berlin}(1771$, seq.); another edition (Berlin, 1796, seq. 30 vols.); to which must be added his Correspondence, in 2 vols. (Berlin, 1798); a new edition appeared at Berlin (1824), in 34 vols.; a pocket edition has been published at the same place since 1825. Lessing's Thoughts and Opinions, collected and explained from his Writings, by F. Schlegel, appeared at Leipsic (1804, 3 vols.). His brother, K. G. Lessing, published an account of his life (Berlin, 1793, 2 vols.).
Lestocq, John Hermann; a favorite of the Russian empress Elizabeth, twice elevated by fortune to be twice precipitated from his high honors. Lestocq was born in Hanover, in 1692, of French parents, who had fled from the religious persecutions of Louis XIV. He studied surgery under his father, went to Russia, then a good field for men of talents, and cutered the service of Pcter the Great, as a surgeon, and enjoyed his entire coufidence. A sudden change in the emperor's dispositions towards him took place, and Lestocq, without knowing the cause, was banished to Kasan. Catharine I recalled him after the dcath of Peter, and gave liim the place of surgeon at the court of licr daugliter Elizabeth. Entirely devoted to the interests of his mistress, he offered her his assistance in gaining possession of the crown, after the death of Petcr II ; but his daring plans were then rejected. Eleven years later (1740), when the youth of Ivan, and the regency of lis mother Anne, again presented an opportunity, his advice was adopted. The active and politic Lestocq guided the daring cutcrprise, never, even in moments of the greatest danger, losing his presence of mind, and, November 24, 1741, Elizabeth ascended the throne. The new empress made him her privy counsellor, and chief physician, and director-gencral of medical institutions. The king of Poland created him count, and sent him his miniature to be worn in his button-hole, like an order. In compliance with the wishes of the empress, Lestoeq was obliged to interfere in affairs foreign to his province. This circumstance, and the frankness of his character, increased the number of his enemies, who succeeded in exciting the suspicions of the empress. Lestocq was arrested in 1748, and confincd in the fortress of St. Petersburg for trial. At first, he bore this change of circumstances with cheerfulness and calmness; but when he was to be subjected to the rack, he con-
fessed himself guilty. He was deprived of all his honors and estates, and banished to Uglitsch, where he remained three years, and then to Ustjug-Veliki, where he was in prison nine years. His third wife, Marin Aurora, shared the fate of her husband with an exemplary firmness. When Peter III ascended the throne, Lestoen was restored to his honors. Catharine II eontinued his pension without his offiecs. He died in 1767.

Lestrange, sir Roger, a political partisan and controversialist, was the youngest son of sir Hammond Lestrange, knight, of Hunstanton-hall, Norfolk, where he was born in 1616. His father, being a zealous royalist, brought up his son in the same principles. At the age of 22 , he attended Charles I in lis expedition into Scotland, and laid a plan for surprising Lynn, but being detected with the king's commission in his porket, he was tried by a court martial, as a spy, and condenmed. Ife was, however, respited from time to time, until he had lain in prison four years, when, by the connivance of his gaoler, he made his escape to the continent. On the dissolution of the long parliament, he returned home. On the restoration, he was made licenser of the press-a profitable post. In 1663, he set up the Public Intelligencer, which he discontinued on the design, then concerted, of publishing a London Gazette, the first number of which appeared February 4, 1665. In 1679 , he set up a paper, called the Observator, in defence of the measures of the court. In 1687, he was obliged to give up the Observator, because he could not agree with James, who had knighted him, in the doctrine of toleration, although he had written in favor of the dispensing power. His death took place in 1704, at the age of 88 , his faeulties having become impaired some years before. He was the author of a great number of political tracts, full of coarse and virulent abuse, and in a style so rude and vulgar, that he was regarded by Granger as one of the great corruptors of the English language. Lestrange translated Josephus (his best work), Cicero's Offices, Sineca's Morals, Quevedo's Visions, \&c.

Lesceur, Enstaehe, one of the most distinguished French painters, born at Paris, in 1617, was instructed in drawing by his father, a statuary, and was afterwards placed at the school of Simon Vouet, the true founder of the Frencli school of painting. He soon distinguished himself by several pieces in the true Italian style; but his
reputation was not completely established till he had executed lis paintings for the Carthusian monastery in Paris. In 22 pictures, lie delineated ( 164 )- 1651 ), the principal scenes in the life of St. Brmos, the founder of the order. Lithographic: sketches of this work were published at Paris, in 1822 and 23 . In 1650, le painted , for the corporation of goldsmiths, the preaching of the apostle Panl at Ephesus. This painting was presented to the chureh of Notre-Danne, and was exhibited annually on the first of May. His next works were a Magdalen and a St. Lawrence, and, in 1651 , two scenes from the life of St . Martin, \&c. Among the most distinguished of his later works are some mytholngical scenes in the hotel Lambert relating to Cupid and the Muses with Apollo. After completing this work, he died, in the: 38 th year of his age. Incressant toil, and the jealousy of lis companions in art, brought him to his grave. His countrymen call him the French Raphat, and it is not to be denied that lie had great merit. His conceptions are noble and elevated; his composition is simple, careful, and well arranged ; the drawing is eorrect, in good taste, and proves his diligent study of the antique and of the great Italian masters, particularly of Raphael ; his drapery is artfully disposed, and executed with great truth. His figures are full of animation and character; the positions are various, and free from manner. He displays great boldness and freedoin of pencil ; his coloring is delicate and simple, but defieient in truth and vigor, which sometimes renders his pictures too uniform, and oecasionally they have too much ornament. That Lesueur should have reaehed so great excellence, is the more remarkable, as he had never been ont of France, hardly even out of Paris, and had consequently formed himself after the few models of the ancient art and the Italian school to be found there. He had studied Raphael ehiefly through the engravings of Mark Antony. Lesueur, from his education, may be considered as the true representative of the French school; for Poussin, who was a superior artist, belongs more to the Italians than to the French. His mild and ingenuous character made him generally esteemed, although the jealousy of his competitor Lebrun, who tyramized over the taste and opinions of the day, prevented him from enjoying the reputation which was justly due him in his lifetime.

Lesuevr, Jean Baptiste, a musieal eomposer, a descendant of the great puinter

Lesueur, born in 1763, was placed in the musical sehool of the cathedral of Amiens, and, after completing his musical studies, was made direetor of music in the cathedrals at Seez and Dijon, and, in 1784, in the ehurch of the Innocents, at Paris. In 1786, in opposition to several candidates, he received the place of master in the cathedral of Paris, and his elevated and impressive compositions, no less than the excellent manner in which he led the orchestra, made him a universal favorite. His own inclinations, and the adviee of Sacchini, induced him to compose for the theatre. Telemachus was his first opera, which was brought forward with great success in the theatre Feydeau. In 1788, Lesueur resigned his place at Notre-Dame, that he might devote his time to theatrical music, and lived, till 1792, with his friend and patron Bochard de Champagny, in whose house he applied himself so laboriously, that his host, anxious for his health, would not allow him liglits for more than hadf' the night. Lesueur was at that time engaged in writing his opera La Caverne: one night, his light went out, and, unable to endure any interruption, hc lay on the floor before the fire, and continued to write by the feeble light afforded by a few pieces of wood, until he was found in that situation the next morning, by Mr. Champagny. After various disappointments, he finally succeeded, in 1793, in introducing this opera on the stage, whicl met with the most brilliant applause. On Chenier's proposition, he was made professor of music in the national institute, and wrote several pieces of music for festivals, during the time of the republic ; was afterwards displaced by intrigue, but again restored by Bonaparte. In 1793, le composed Paul et Virginie, the Death of Adam, and the Bards. This last and finest work, in which the conposer appears to have called up the very spirit of Ossian, delighted Napoleon to such a degree, that he made him chapel-master at the Tuileries, conferred on liin the order of the legion of honor, and presented him a gold shuff-box, with the inscription" The emperor of the French to the author of the Bards." Lesueur wrote, in connexion witl Cherubini, Méhul, Langlé and Rigal, the work published by Catel (1816), Sur les Principes tlémentaires de Musique. He also wrote Essai sur la Misique saerée (1787), and Lettres et Reponse à Gaillard, sur l'Opéra de la Mort d'Adam, et sur plusieurs Points d'Utilité relatifs aıx Arts et aur Lettres (1801).
Lethargy (lethargus, from $\lambda \eta \theta \eta$, forget-
fulncss); a heavy and constant sleep, with scarcely any intervals of waking. When awakened, the person auswers, but, ignorant or forgetful of what he said, inmediately sinks into the same state of sleep. It is considered as an imperfect apoplexy, and is mostly symptomatic.

Lethe; a river of the lower regions, celebrated in ancient mythology, whose water had the power of making the souls of the departed, who drank of it, forget all their sufferings on earth. Those spirits, in particular, drank of it, who were destined to return to the upper world in new bodies, in order to forget the pleasures enjoyed in Elysium.
Leto. (See Latona.)
Letter of Attorney. (See Attorney.)
Letter of Mart, or of Marque; a commission granted to the commander of a merchant ship, or privateer, to cruise against and nake prizes of the enemy's ships and vessels, either at sea or in their harbors, under pretence of making reprisals for injuries received. The ship so commissioned is also called a letter of mart or marque.
Letters. (See Types, and Writing.)
Letter-Writing. Among the leiters celebrated in French literature are those of madame de Sevigné, Ninon de Lenclos, Babet, Racine, Voltaire, and the collection of Richelet; in English literature, the letters of James Howel, sir William Temple, Addison, Pope, Swift, Bolingbroke, lady Montague, Chesterfield, Gray and Cowper, are celebrated; in Italian, those of Manuzio, Ludovico Dolce, cardinal Bembo, Bentivoglio, Bernardo Trasso, those collected by Lud. Dolee and Annibal Caro, those of Pietro Aretino, Algarotti and Gasparo Gozzi ; in Gcrman literature, the letters of Lessing, Winckelmann, Klopstock, Wieland, Gellert, Weisse, Jacobi, Garve, Abbt, Sturz, Gleim, Bürger, Lichtenberg, J. von Müller, Mathisson, \&e. Bolingbroke made use of the epistolary form for treating philosophical subjects (for instance, the study of history), and Richardson applied it to novels. The Germans also have didactic lctters by Mendelssohn, Jacobi, Herder, J. von Müller and J. G. Müller. In the Freuch as well as the Italian literature, letters form a very considerable branch, and large collections of them exist, among which are the following: Lettres historiques ( 14 vols., Hague, 1692-1698,12 mo.); Lettres historiques et galantes par Madame de $\operatorname{Joyer}$ ( 6 vols., Utrecht, $1713,12 \mathrm{mo}$.); Lettres edifiantes et eurieuses, écrites des Missions ttrangères (34 parts in 32 vols.,

Paris, $1717-17 \gamma 6,12 \mathrm{mo}$.; new edition, 26 vols., Paris, $1780-1783,12 \mathrm{mo}$. ; also in 26 vols., Toulonse, 1810-1812, 12 1no., and an atlas) ; Vouvelles Lettres édif. ( 6 vols, Paris, 1819) ; Lettres serieuses et badines ( 12 vols., Hague, 1729-1740); Lettres Juives ( 6 vols., Amsterdam, 1736 ; new edition, 1741); Lettres caballistiques (6 vols., Hague, 1781) ; Lettres Chinoises ( 5 vols., Hague, 1739) ; Lettres Portugaises (2 vols., Paris, 1796). Ainoug the Italian collections, are Lettere vulgari di diversi nobilissimi Huomini et eccellentissimi In- $^{\prime}$ gegni ( 3 vols., Venice, 1564, also 1567); Lettere d'Uomini illustri, che fiorirono nel Principio del Sec. XVII (Venice, 1744); Letterc Sanesi sopra le Belle Arti ( 3 vols., with engravings, Venice and Rome, 1762 -1786, 4to.).

Lettuce (laeizea sativa); a smooth, herbaceous, amual plant, containing a milky juice, which has been cultivated from reinote antiquity, and is in general use as a salad. The original locality is unknown. The stem grows to the height of about two feet, and bcars small pale-yellow flowers; the inferior leaves are sessile, and undulate on the margin. The young plant only is caten, as it is narcotic and poisonous when in flower. Twenty species of lactuca are known, from various parts of the globe, and one or more of them inhalit the U. States.

Leucadia (at present, Santa Maura, 112 square miles, 17,500 inhabitants) ; an island belonging to the republic of the Ionian Islands (q. r.), on the western coast of Greece. The southern extremity (on which stood a temple of Apollo), at present cape Ducato, in the vicinity of the capital, Leucas (at present, St. Maura), was called by the Greeks the Leucadian rook. It was famous for the festival annually celebrated there, and the (so called) Leucadian leap. At every festival, a criminal was thrown from the rock into the sea, as a sin-offering, loaded, as it were, with all the sins of the people. He wore a dress of feathers, and even living birds were fastened to him, so that he generally fell gently, without much injury, into the deep, whence he was taken out, but was obliged to leave the country forever. No less remarkable was the leap, which many performed of their own accord, from this rock, to free themselves fiom the tortures of unhappy love. It is said that some tried it more than once; but the unhappy lovers generally met with death in the waves. Among the latter are mentioned two females-Artemisia, queen of Caria, and Sappho. (See Sappho.)

Leccertmors. (See Albino.)
Leuchteniberg ; a lordship (before 1806 a landgraviate, with a princely title, and a seat and vote in the diet), situated in the ancient Nordgau, on the river Nal, in the Upper I'alatinate, in the Bavarian circle of Regen. It comprises 84 square miles, with 5300 inhabitimints. Pfreinult is the chief place. The late king of Bavaria conferrel the lordship, in 1817, on his son-in-law Eugene, ex-viceroy of Italy, with the principality of Eiclistädt, held immediately of the crown. Eugene took the title of duke of Leuchtenberg, and made over to the crown of Bavaria the $5,000,000$ of francs, which the king of the Two Sicilies was bound to pay liin for his Neapolitan dotations. His dotations in the Lombardo-Venetian kingdom were given up to Austria, for $7,000,000$, and he retained possession of those in the Mark of Ancona, the income of which is estimated at 850,000 francs ammally. The income of the duke (exelusive of the interests of his large capital) amounts to 1,600,000 francs. The present duke Augustus was born December 9, 1810. His sister Josephine, born March 14, 1807, is crown-princess of Sweden ; Amelia, boru July 31, 1812, ex-empress of the Brazils. There are sevcral other ehildren.

Leucippes; the founder of the atomir school in Greek philosophy, and teacher of Democritus. By some, he is said to have been a native of Abdera; by others, of Elea; and by others, of the island Melos. He lived 500 years B. C. His instructer was Zeno the Eleatic. To settle a contest between reason and sensible experience, which had been mainly excited by the Eleatic school, he invented his system, which he opposed to that of the Eleatics. The more ancient Eleatics denied the reality of motion, vacuity of space, and plurality of matter, reducing all that exists to a single, cternal and immutable substance. Leucippus, on the contrary, assumed the infinity of space. In this space, there are, according to his views, an infinite quantity of particles of inatter, too minute to be perceptible to the senses. In themselves, they are indivisible (thence the name atoms); for, if an infinite divisibility were ascribed to then!, they would at last disappear into nothing. Now, these atoms move from eternity in infinite space, and, by their union and separation, form the origin and end of things. Since unity can never become plurality, nor phurality become unity, the atoms cannot, by their connexion, produce a true unity, but mere aggregations. In sub-
stance, all the atoms are similar, but of an iufinite variety of shapes, by which is explained the varicty of bodies formed by them. Atoms are imoreover distinguisled by their local situation, and the order in which they are compounded. Situation and order are the fundamental properties of the atoms ; from their union and separation arisc properties of the second order (qualitates secundarix), such as hardness, softness, color, sound, smell, \&c. As far as can be deduced from the imperfect notices which we have, Lcucippus explained the origin of the world by the motion of atoms, in the following manner:-From the infinity of atoms, some broke loose, and, becoming confused, produced a rotary motion, by means of which, similar particles were associated with similar particles, while the dissimilar were repelled. From the necessary incquality of the velocity of the bodies, the smaller were driven to the outside, and formed, as it were, an envelope around a kernel. The grosser bodies of this envelope sunk downwards, and, by their mntnal collisions, attennated the envelope. The bodies that sunk downwards compose the earth ; the envelope itself was finally inflamed, and gave rise to the stars. To fire he ascribed round atoms. The atoms composing the other elements-water, air and carth-were distinguished merely by magnitude. Fire, as the most subtile, the lightest and most fluid elcment, he made the soul of the world, the principle of life, sensation and thought. These last modifications, however, according to Leucippus, were not always founded in the natrire of atoms, but merely in the mode of their aggregation. The intellectual substance (consisting of particles of firc) is diffiused through the whole borly. Men and aximals inhale it with the atmosphere, and hence life ccases with the cud of respiration. There is nothing said in his system respecting the sonl of the miverse, a providence or Deity.
Lelucite, or Amphigene, is a mineral which occurs in little masses, laving the appearance of crystals rounded by attrition; also in crystals whose form is that of the trapezohedron, apparently with cleavages parallel to the rhoubic dodecahedron and cube, the latter of which, being the most simple of the two, has been adopted as the form of the primary crystal. Color grayish white ; transluccut ; lustre vitreous; fracture conchoidal ; specific gravity 2.37. Before the blow-pipe alone, it is intilsible ; with borax, it fuses into a transparent glass. It consists of 53.75 silcx,
24.62 of alumiue, and 21.35 of potash. It is found only in volcanic and trap rocks. The lavas of Vesuvins and basalts of Italy abound with it. It is especially abundant between Rome and Frescati.

Leveo; two sylables found in many scientific terms or geographical names, derived from the Greek $\lambda$ evosos, white.

Leucothea. (See Ino.)
Leuctra; a village in Bœotia (at present, Livadia), famous for the great battle in the year $371 \mathrm{~B} . \mathrm{C}$., which the Theban Epaminondas won over the Spartan king Cleombrotus, thus putting an end to the great influence which Sparta had exerted for several centuries over all Greece.

Leusden, John; a celebrated biblical critic and theologian, born in 1624, at Utrecht, where he afterwards obtained the professorship of Hebrew, with the reputation of being one of the most erudite scholars and able divines of the age. He published a new edition of the books of the Old Testament, in the original Hebrew (in 2 vols., 8 vo.), and of those of the New, in Greek and Latin (one thick 12mo.); a Hebrew and Latin Lexicon; an edition of Poole's Synopsis ( 5 vols., folio); Versio Septuaginta Interpretum; Clavis Graca Novi Testamenti; Onomusticon Sacrum; Philologus Hebreus ; Philologus Hebreomixtus; Clavis Hebraica et Philologica Vet. Test.; a Hebrew Psalter, and Commentaries on the Books of the Prophets Joel, Hosea, and Jonah. Leusden died in his native city, about the close of the seventeenth century.

Leuthen; a village in Lower Saxony, west of Breslau, famons on account of a battle gained liere by Frederic the Great, Dec. 5, 1757, over prince Charles of Lorraine. (See Seven Years' War.)

Leuwenhoek, Anthony; a celebrated natural pliilosopher, born at Delft, in Holland, in 1632. His skill in grinding optical glasses led the way to the making of microscopical observations, which procured him no small degree of fame. He began to publish an account of his discoveries in the English Plilosophical Transactions, in 1673 ; and they are contimued from No. xciv to No. ccelsxx of that collection. In 1680, he was chosen a fellow of the royal society; and, in 1698, he entertained the czar Peter the Great, theu at Delft, with an exhibition of his experiments. He appears to have passed the whole of his life at his native place, devoting his time to microscopical researches, chiefly relating to anatomy. He died in 1723. A Latin translation of his works in the Dutch language was publish-
ed between 1695 and 1719 ( 4 vols., 4to.), under the title of Arcana Vaturie detecta, and reprinted at Leyden, in 1722. His industry was great, but preconceived opinions sometimes led him to erroneous conclusions.

Levaillant, Francis, a celebrated traveller, born at Paranaribo, in the Duteh colony of Guiana (Surinam), from childhood displayed a passion for the study of natural history, particularly of ornithology. His desire of extending his knowledge by travelling in the most distant lands was increased in Europe. In Amsterdan, he found a patron in the person of Temmink, the great ornithologist, who warmly encouraged his plans, in the hope of obtaining, through him, great accessions to his excellent collections in natural history, particnlarly ornithology-a hope which was not disappointed. Levailfant first proceeded to the cape of Good Hope, whence he advanced into the interior of Africa. The specimens which he collected on this occasion were cntirely lost. The ship in which they were embarked for Holland was attacked by the English, and burned in the course of the action. Supported by Temmink, Levaillant renewed his labors, and, with a tolcrably large caravan, directed his course to the countries on the north of the colony. Insurmountable obstacles prevented him from pursuing his adventurous rescarches so far into the interior as he wished. The fruits of his labors were, however, important. He was not less fortunate in a second excursion. Levaillant died at Paris, November, 1824, aged 70. It has been objceted to his accounts, that they are not always accurate, and that they are often improbable, though this camot be satisfactorily shown. His readers are interested by his lively descriptions, and by an attractive philosophical originality. His accounts of his first and second excursions were published in French, in 1789 and 1796. He also left some works on natural history, and some separate treatises. The most important of these works are Histoire naturelle des Oiseaux d'Afrique (1799-1807, in 50 numbers, folio), and the Histoire naturelle des Perroquets (1801 - 1805, 2 vols., folio).

Levant (Italian, il Levante ; Frencl, le Levant; the east). This term is ipplied, in a general sense, to the countries on the castern coast of the Mcditerranean sea, and, in a more contracted sense, to the Asiatic coasts of the Archipelago, from Constantinople to Alexandria, in Egypt. The most famous of the commercial cities
of the Levant, taken in this narrow sense (among the French, échelles du Levant), besides Constantinople and Alexandria, are Smyrna, Scanderoon (Alexandretta), and Aleppo. Smyrna, with 100,000 inhabitants, is the principal commercial place of the Levant, and the grand mart of the Asiatic trade. This Levant Proper is under the Turkish dominion, has a very warm climate, nany nountains, and very fertile plains, and is inhabited by Turks, Armenians and Grecks. The staples are grain, rice, tobacco, olives, cotton, silk, Angora goat's hair, safflower, and some minerals. The Levant coffce, as it is called, does not grow in the Levant, but in Arabia, and has this name because it is exported from the ports of the Levant. (See Turncr's Travels in the Levant, London, 1820, and count Forbin's Travels in the East.)

Levef (from the Frencli lever, to rise, and the time of rising) is a word used in high life, or court language, for the cercmonial visits which great personages receive in the morning, as it were at their rising. The levee is distinguished from the drawing-room, inasmuch as, at the levec of a gentleman, gentlemen only appear, and at the levec of a lady, only ladies, while, at the drawing-room, ladies and gentlemen both are admitted. At the levees and drawing-rooms of the sovereigns, persons of distinction, or young members of noble families, are introduced. On the first presentation of daughters of dukes, marquises and carls, it is customary for the queen of England to kiss them on the clicek. The word levee is also used in the U.States for the reception of company by the president.

Levee (French); an cmbankinent on the margin of a river, to confine it within its natural channel. The lower part of Louisiana, which has bcen formed by encroachments upon the sea, is subject to be inundated by the Mississippi and its various branches, for a distance of more than 300 miles. In order to protect the rich lands on these rivers, mounds are thrown up, of clay, cypress logs, and grecn turf, sometimes to the height of 15 feet, with a breadth of 30 feet at the base. Thesc, in the language of that part of the country, are called levées. They extend for hundreds of miles; and, when the rivers are full, cultivated fields, covered with rich crops, and studded with villages, are seen lying far below the river courses. The giving way of these levées, sometines occasioned by a sudden and violent pressure of the water, and sometimes by acci
dental perforations, is called a crevasse (French, a disruption).

Levée-en-Masse (universal rising); a military expression for the rising of a whole pcople, including all eapable of beariug arins, who are not otherwise engaged in the regular service. When animated by patriotic feelings, it is the most formidable obstacle which an enemy cau encomiter; and it is unconqucrable, if favored by the nature of the ground, because ahnost every advantage is on the side of the people. They fight on their own soil; they know the ground; they find support and assistance in every house, from every woman and child; shey fight for their own hearths; they enclose the eucmy on all sides, and can destroy whatever may be useful to him, cut off his communications, pursue, annoy, disturb, assail, harass him incessautly, so that be can effect nothing except getting posscssion of the strong places. It is called Landsturm (landstorm), in German, in distinction frons the Landwehr (militia). This distinction was first made in 1796, when the peasants of Buvaria and Franconia fell upon the rear of the flying French, nnder Jourdan, with much suecess. The Landsturm was yet more effective in 1799, and, in 1813, the governments of Northern Germany called it forth in every part of the country. It eonsisted of every male person capable of bearing arms of any sort, whom age or other rcasons exempted from the militia service. Orders were issucd to turn every thing into weapons, to defend the country by every means, and to injure the enemy in all possible ways, ly destroying provisions and wells, attacking stragglers, intereepting couriers, and escorting prisoners. The Landsturm was useful at the siege of several fortresses. Its organization was founded on municipal divisions. Napoleon ordered the levee-en-masse, when the allies entered France, and it threatened to become dangerous to them; but the capture of Paris put an end to the war. We all know how effeetual the levée-en-masse was in Spain, where even women took part in it, and in Tyrol, under Hofer (q. v.). At present, we witness a levée-en-masse in Poland. The French national guard, with its different classes, might be considered a levée-en-masse, organized on a gigantic plan. The chief difference betwecu a levée-en-masse and militia is, that, in the former, all persons are comprised not included in the latter; that they do not marel far from lome; and that their service is more irrcgular, and even owes
its strength, in some measure, to this irregularity.

Level; a mathematical instrument used for drawing a linc parallel to the horizon, and continuing it at pleasure, and, by this means, for finding the true level, or the differcnce of ascent or descent between several places, for conveying water, draining fens, placing the surfaces of floors, \&e., lerel, and for various other purposes in architecture, agriculture, hydraulics, surveying, \&c. There is a great variety of instruments for this purpose, differently constructed, constituted of different metals, according to the particular purposes to which they are applied; as the carpenter's level, mason's level, balance level, mercurial levels, surveying and spiral levels; but, however their construction may vary, they may all be referred to the following three classes: 1. those in which the vertical line is determincd by a suspended plumb-line or a balanceweight, and the horizontal position is shown by a line perpendicular to it $; 2$. those which determine a level line by the surface of a fluid; 3. spirit levels, which point out the horizontal direction by a bubble of air floating in a fluid contained in a glass tube. 1. Those of the first kind, depending upon the plunb-line, are very comnion, but not very accurate. The simplest form is that of two rulers united in the form of the letter $L$; they must be exactly perpendicular to each other; then, if a plumb-line is suspended from the top of the vertical ruler, and the edge thereof be made to coincide with the plumb-line, the other ruler must be horizontal. This, when applied to the top of a wall, a beam, or a floor, will show if they are horizontal. This is the kind of level used by artificers; sometimes it is formed like the letter A, of three rulers, the plumb-line being suspended from the vertex, and the two legs set on the surface to be levelled. The line hangs opposite to a mark made on the middle of the cross ruler, when the feet are on the same level. Sometimes the horizontal piece crosses the perpendicular at its foot, and the plumb, suspended from the top of the perpendicular, is received in an opening at their junction. 2. The water level shows the horizontal line by means of a surface of water or other fluid, founded on this principle, that water always places itself horizontally. The most simple kind, made of a long wooden trough, which is filled with water, shows on its surface the line of level. This is the ancient chorobates. The water level is also made
with two eups fitted to the two ends of a straight pipe, an inch in diameter, and four feet long. The water communieates from one eup to the other; and this pipe being movable on its stand by a ball aud soeket, when the two cups are seen to be equally full of water, their two surfaces inark the line of level. This instrument, instead of cups, may also be made with two short eylinders of glass, three or four inches long, fastened to each extremity of the pipe with wax or mastich. The pipe, filled with colored water, shows itself through the cylinders, by means of whieh the line of level is determined; the height of the water, with respeet to the centre of the earth, being always the same in both eylinders. This level, though very simple, is yet very eommodious for levelling small distances. 3. The spirit or air level shows the exaet level, by means of a bubble of air, enclosed, with some fluid, in a glass tube of an indeterminate length and thickness, and having its two ends hermetieally sealed. When the bubble fixes itself at a inark in the middle of the tube, the ease in which it is fixed is then level. When it is not level, the bubble will rise to one end. This glass tube may be set in another of brass, having an aperture in the middle, where the bubble may be observed. The liquor with which the tube is filled, is oil of tartar, or aqua secun$d a$, those not being liable to freeze, as cominon water, nor to rarefaction and condensation, as spirit of wine is. These instances will explain the prineiple of the different kinds of levels. Their varieties are too numerous to be deseribed here.

Leven, Loch; a lake of Seotland, about 12 miles in circumference, in the county of Kinross. It contains four islands, on one of whieh was formerly a priory, and on another stand the remains of the eastle of Loeh Leven, once a royal residence, which was granted by Robert III to Douglas. In this castle Mary Stuart was confined, after her separation from Bothwell, and her capture by the confederate lords, at the battle of Carberry Hill. After several unsuccessful attempts, she made her escape, by the aid of George Douglas, her keeper's brother.

Lever, in mechanies; an inflexible right line, rod, or beam, supported, in a single point, on a fulerum or prop, and used for the raising of weights, being either void of weight itself, or, at least, having such a weight as may be commodiously counterbalanced. The lever is the first of those ealled mechanical powers, or simple machines, as being, of all others, the
most simple ; and is ehiefly applied for raising weights to small lieights. (See Mechanics.)

Levesque, Peter Charles; a Freneh writer on history and general literature, born at Paris, in 1736, and, when young, apprentieed to an engraver. Displaying a strong inclination for learning, he was removed to the college Mazarin, where he studied with great success. His family having retired into the country, lie, for some tine, supported himself at l'aris, by working as an engraver. In 1773, he went to St. Petersburg, with a recommendation from Diderot to the empress of Russia, who appointed him professor of belles-lettres at the school of noble eadets. Here he formed the design of writing the history of Russia, and, having completed the work, in 1780 he returned to Paris to publish it. He was admitted into the academy of inseriptions, and, some years after, was appointed professor at the royal college. He was subsequently made a member of the national institnte; and, in 1812, elosed a long life devoted to literary pursuits. Besides hisRussian listory (4th ed., with notes by Malte-Brun and Depping, 8 vols., 1812 , a standard work on Russia), he prodneed a translation of Thucydides; a llistory of France, under the five first Kings of the House of Vabois ; n Critical History of the Roman Republic (3 vols.); Studies in ancient History, and in the History of Grecee, and many other translations and valuable works.

Levi; the third son of Jacob and Leah. The prince of the Siehemites having ravished his sister Dinah, he, witl his brother Simeon, attacked their eity while they were suffering the consequences of eircumeision, to which they had submitted, and murdered all the males. Jacob reproaches them with this aet of cruelty, on his death-bed, and threatens them with the dispersion of their descendants. Moses and Aaron were of this tribe. The Levites were set apart, by Moses, for the service of religion, thus forming a hereditary caste of priests, or religious ministers, who received territories seattered about in the lands of the other tribes. The third book of Moses is called Leviticus, as it relates prineipally to the organization of the ministry. The Mosaic law is sometimes also ealled the Levitical law. (See Moses.)

Leviathan (Hebreiv) is compounded of two words, meaning a great fish, and fastened; hence it probably means a huge fish covered with close seales. The Septuagint renders it $\delta \rho a \kappa \omega \nu$ (a dragon), and кптоу (a whale). From the deseription given of it
in the book of Job (xli.), it is usually considered to mean the crocodile, though some have supposed it to be a whale. (Sec Harris's .Natural History of the Bible.)
Levites. (See Levi.).
Leviticus. (See Levi.)
Lewis ; onc of the largest and most northerly of the Mebrides, on the coast of Scotland, parted, by two arms of the sea, into two divisions, the southern of which is called Haris, and the northern Lewis. It cxtends south-west and north-east 82 miles, and it is from 10 to 23 miles in breadth, containing an area of 902 square miles, or 451,000 acres. It lies bctween $5^{\circ} 40^{\circ}$ and $7^{\circ} 10$ W. lon., and $57^{\circ} 54^{\prime}$ and $58^{\circ} 28^{\prime}$ N. lat. ; population, in 1808, 13,942 ; 30 milcs W. Assynt Point, in Suthcrland.

Lewis, Matthew Gregory, an English writer, whose attempts, both in the departments of the drama and of romance, obtained, at one period, a very considerable share of popularity, though but too frequently disfigured by bad taste, and degraded by licentiousncss, was the son of a gentleman of good property, who was under-secretary at war. The subject of this article was born in the metropolis, in 1773, and educated at Westminster; on quiting which he travelled for improvement, especially into Germany, the literaturc of which country produced a strong impression upon him, and gave that peculiar turn to his compositions, which placed hiin in the foremost rank among the delineators of the marvellous and terrific, and has since loaded the shelves of circulating librarics with hosts of imitators, most of whom exhibit all the extravagances without the genius of their model. Of his writings, the first and most celebrated was the Monk, a romance, in 3 vols., 12 mo , which, althongh much decried for its licentiousness, ran through a great number of editions; Feudal Tyrants, ditto, 4 vols.; Romantic Tales, 4 vols.; Tales of Wonder, in verse, 1 vol., 8 vo.; Tales of Terror, 1 vol., 8vo.; the Castle Spectre, a romantic drama; Adelmorn the Outlaw, ditto ; Venoni, a tragedy; a volume of miscellaneous poctry, and the Bravo of Verice (a translation from the German), 1 vol., 8 vo. Mr. Lewis had a seat in parliament, but seldom took part in the business of the house. Itis death took place in 1818, at sea, whilc on his voyage home from a visit to his West Indian possessions.

Lewis, Francis, one of the signers of the declaration of $\Lambda$ merican independence, was born in 1715, in South Wales, and educated at Wcstminster school, England.

IIe chose, however, mercantile pursuits; converted his patrimony into merchandise at the age of 21, and sailed for New York, whence he proceeded to Pliiladelplia. Here he remained for two years, and then returned to New York. In the disputes between the mother country and the colonies, he sided zealously with the latter. In 1775, he was unanimously elected to the continental congress, from New York. His commercial knowledge and habits rendered him particularly scrviceable to that body. He suffered much, in the course of the revolutionary war, by the devastation of his estate, and by personal imprisonment, having fallen into the hands of the British. Through the influelice of Washington, he was exchanged before the end of the contest. Mr. Lewis died Dec. 30,1803 , in his 89 th year. IIs latter days were passed in comparative poverty, the fortune which he had acquired by trade having been, in great part, sacrificed on the altar of patriotism.

Lewis, Meriwether, a celebrated cxplorer, was born near the town of Charlottcsville, in Virginia, August 18, 1774. His father, a man of independent fortune, died when he was yet a child. He very early gave proofs of that bold and enterprising disposition for which he was subsequently so distinguishcd. At the age of 18 , he relinquished academic studies, and engaged in the pursuits of a farmer, with which he continued to occupy himselfuntil he was 20. General Washington having called out a body of militia, in consequence of the disturbances in the western parts of the country, produced by discontent at the excise taxcs, young Lewis enrolled himself in it as a voluntecr, and from that situation was removed to the regular scrvice. In 1803, president Jefferson proposed to congress to send some competent person on an cxploring expedition to the western part of our northern continent, who might ascend the Missouri, cross the Stony mountains, and descend the nearest river to the Pacific. Congress having approved the proposition, and voted a sum of money for carrying it into execution, captain Lewis, who had then been nearly two years with Mr. Jefferson as his private secretary, was chosen for that purpose. The following testimony of Mr. Jefferson gives an idea of his fitness for the task: "Of courage undaunted; possessing a firmness and perseverance of purpose which nothing but impossibilities could divert from its direction ; careful as a father of those committed to his charge, yet stcady in the maintenance of
order and discipline; intimate with the Indian character, customs and principles; habituated to the hunting life; guarded, by exact olservation of the vegetables and unimals of his own country, against losing time in the description of objects already possessed; honest, disinterested, liberal, of sound understanding, and a fidelity to truth so scrupulous, that whatever he should report would be as ccrtain as if seen by ourselves: with all these qualifications, as if selected and implanted by nature, in one body, for this express purpose, I could have no hesitation in confiding the enterprise to him." That there might be some person with him to assume the conduct of the expedition in case of accident to himself, Willian! Clarke was appointed, at Lewis's request, to accompany him, and received a commission of captain. (For the particulars of this expedition, see the account which has been published of it-Expedition, \&c.-Philadelphia, 1814, 2 vols.). It was highly successful, and occupied three years, the party engaged in it having set out in the summer of 1803 , and returned in the autumn of 1806 . Lewis was soon afterwards made governor of the territory of Louisiana, and Clarke a general of its militia, and agent of the U. States for Iudian affairs. On the new governor's arrival at St. Louis, the seat of administration, he found the country torn by dissensions; but his moderation, impartiality and firmness soon brought matters into a regular train. He was subject to constitutional hypochondria, and, while under the influence of a severe attack of this disorder, put an end to his life, in 1809, at the age of 36 .
Lewis's River ; a river of North America, which rises in the Rocky mountains, and runs north-west into the Columbia, 413 miles from its mouth ; length, about 900 miles.
Lexington; one of the principal towns of Kentucky, capital of Fayette county, on a branch of the Elkhorn, 22 miles S. E. of Frankfort, 85 S . of Cincinnati ; lon. $84^{\circ}$ $18^{\prime} \mathrm{W}$.; lat. $38^{\circ} 6^{\prime} \mathrm{N}$. The place derived its name from the circumstance that some hunters were engaged on the spot in laying out a town (1775), when a messenger arrived with the news of the battle of Lexington, and they immediately decided to commemorate that event by giving the name to the place. Population, in 1830, 5699. The town is regularly laid out, some of the streets are paved, and the buildings are, many of them, large and handsome. The environs are beautiful,
and lighlly cultivated. The manufactures of woollen, paper and cotton are numerous und important ; but the staple manufactures of the place are cordage aud bagging. Among the public buildinya are the court-house, bank, market-louse, lunatic asylum, and eight clurches, of which the Presbyterians have three, the Methodists, Episcopalians, Baptists, Seceders and Roman Catholics, one cach. The U. States bank has an office of discount and deposit there. Transylvania university, at Lexington, was incorporated in 1798, and organized anew in 1818. In 1830, it had 143 under-graduates, 62 in the preparatory department, 200 medical students, and 19 law students.

Lexivgros, a small town in Massachusetts, about twclve miles north-west of Boston, and six south-east of Concorl, is remarkable, in the listory of the American revolution, as the place where the first British blood was slied in armed resistance to the mother country. On the evening of April 18, 1775, a detachment of British troops was sent froin Boston, by general Gage, for the purpose of seizing soine provincial stores at Concord. Notice of this movement having been communicated to the inhabitants on the route, the militia of Lexington, about 70 men in number, were hastily drawn up, on the common, by which the road to Concord passes. The English commander, colonel Sunith, having cominanded them to disperse without cffect, ordered his men to fire. Scenen Amcricans were killed, and three wounded, and the company dispersed, sevcral of the militia discharging their nuskets as they retreated. The British troops then pushed on to Concord, the Americans retiring beyond the river which flows by the village. Onc hundred men were detached to destroy the bridge, across which the colonists had retired; they were, however, repulsed by the latter, and, at noon, the whole detachment took up the march for Boston. The militia of the neighboring towns had meanwhile been collected, and began to hang upon the rear of the Britisls with an irregular but destructive fire from every favorable position. At Lexington, the enemy was relieved by a reinforcement of 1000 men, but was still pursued in the same galling manner till their arrival at Charlestown, in the evening. (See Phinney's History of the Batlle at Lexington, Boston, 1825.) A simple monument of granite, bearing the names of those who fell, was erected at Lexington by the commonwealth of Massachusetts, in 1799.

Lex Loci Contractos (conflict of

Laws). It is a general doctrine, that every goverument lias jurisdictiou of persons within its territories, and also of acts donc within them. It follows, that all contracts made, and obligations assuncd, have an implied reference to the laws of the place of the transaction, unless it appear otherwise on tho face of the contract. Some contracts, however, have referchee to different places for their execution, as a bill of lading for a foreign voyage, a foreign bill of exchange, and many others. Such contracts necessarily refer to the laws of other countries than that in which the contract is made, in respect to the acts contemplated to be donc abroad. The mamer of exccution of the contract nust, in this respect, be governed by the foreign laws. But, for the purpose of ascertaining the meaning of the parties, regard is necessarily had to the languare, laivs and eustoms of the place where it is made. In neighboring territories subjeet to different jurisdictions, where there is much busincss and intercourse between the inhabitants of the different territories, as is, or, at lcast, formerly was, the case in the different provinces of Holland and the Netherlands, and the territories bordering npon them, questions frequently arise as to the code of laws which is applicable to partieular acts of the partics, or provisions of contracts. Many questions have arisen in thoso countries, for instance, respecting the obligations and rights arising on the marriage contract, where the parties were married in one provinec or country, and afterwards removed to another. As to rights of property, consequent immediately upon a narriage, the laws of the place of marriage prevail ; but it will often happen that these laws clash with those of the quarter to which the parties renove, and, in such cases, the general rule is, to givo the laws of the place of the eontract the preference, as far as is practicable. But it will sometimes happen that it is quite impossible to give tham entire effect. Thic French law, for instance, makes the law of marriage, to many purposes, a pecuniary copartuership, and its provisions and remedies are adapted to this construction, and there is no difficulty in cuforcing the rights of the wife under it. But in England and the U. States, it is quite otherwise, as the wiff's personal property, and the use of her real estate, go to the husband, and lier legal riglts are in a great degree suspended during the marriage. If, therefore, parties, mamied in Franee, renove to Englimd or the U. States, whatever respeet might be paid to
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the French law, and the rights and obligations, as to property, arising on the marriage contract under that law, the laws of England, or of the U. States, supply 110 forms of proceeding, and rencdies adapted to such a construction of the contract. As to the acts done and the management of their property after their removal, therefore, they must be governed by the laws of the country of their residence. This question, as to the code of laws which is applicable, arises in relation to the adjustment of general average losses on vessels and their cargoes, it being a rule that such losses are to be adjusted at the port of delivery of the goods; and, where this is a foreign port, the adjustment is necessarily made according to the laws there prevailing. The implied contract between the parties to a bill of lading, to contribute to such avcrage, where the contribution accrues abroad, has refercuce to the laws of the foreign port as to the proportion of the contribution.
Ley, or Lees; a term usually applicd to any alkaline solution made by levigating ashes that contain aul alkali. Soaplces is an alkali used by soap-boilers, or potash or soda in solution, and made caustic by lime. Lees of wine are the refuse, or scdiment, deposited from wine standing quiet.
Leyden (Lugdunum Batavorum) ; a large and beautiful city in the govermment of Sonth Holland, in the province of Holland, kingdom of the Netherlands, situated on a branch of the Rline, with 3000 houses and 28,600 inliabitants; lon. $4^{\circ}$ $29^{\prime}$ E. ; lat. $52^{\circ} 9^{\prime}$ N. It has wide streets (the one ealled Broad street is among the fincst in Europe) and numerous canals. The university of Leyden, fornierly very celebrated, was founded in 1575, and is distinguished for its botanical garden, anatomical theatre, observatory, and valuable library with 60,000 volumes and 14,000 inanuscripts. The number of students, iu 1827, was 323. The Annales Acad. Lugd. Bat. are still continued. Cabinets of plilosoplical, surgical, ehemical instruments, and onc for natural history, belong to the university. Among the building:, the principal are St. Peter's church, with the tombs of Bocrhaave, Peter Camper and Meermamm, and the stadthouse, which contains Luke of Leyden's exechlent picture of the last judgment. A fine view of the whole city is enjoycd from the ancient castle, considered, traditionally, a Roman work. The printing establishments formerly constituted an inportant brancl of the industry of Ley-
den, but are much less extensive at present. The city has woollen manufactures and considerable inland trade. The manufactures have much declined, but the saltworks are important. Leyden suffered much in Jannary, 1807, from the explosion of a ship containing 40,000 pounds of gunpowder. The houses on the side of the canal were overturned, and many persons killed. Natives of Leyden are John of Leyden (q. v.), known as the leader of the Anabaptists, the celebrated Peter Muschenbroek, Rembrandt, Luke of Leyden, \&c. It is connected with Haarlem, Hague and Delft by canals. Leyden was called by the Romans Lugdunum Batavorum (see Batavians), from which the present name was formed in the middle ages. Even in Ptolemy's time, Leyden was a considerable city. It suffered much during the war with Spain (1574).

Leyden, Jan or Joun of. (See John of Leyden.)
Leyden, Luke of. (See Luke of Leyden.)

Leyden, Johin; a poet, antiquary and Orientalist, was born at Denholm, Seotland, in 1775, of parents in humble circumstances, and bred up to such country labor as suited his condition. In his earliest youth, he displaycd the greatest eagerness for the acquisition of knowledge, but enjoyed few opportunities of gratifying it. His predominant desire for learning, however, deternined his parents to prepare him for the church, and he was entered at the college of Edinburgh, in 1790, for the purpose of commencing his professional studies. Here, besides attending to theology, he cultivated medical studies, and, in addition to the learned languages, acquired French, Spanish, Italian, German, the ancient Icelandic, Arabic and Persian. After remaining five or six years in Edinburgh, he became private tutor to two young gentlemen, whom he accompanied to St. Andrew's, and, in 1799, published his History of African Diseoveries, which has since been continued and enlarged by Hugh Murray (3 vols., 8 vo., 1820). At this time, he was also the author of many poetical cffusions in different departments, which appeared in the Edinburgh Magazine, and which, by rendering hinn known to the lovers of literature, introduced him into the best society in the Scoteh capital. In company, he displayed the rudeness and independence, which his carly life and education were fitted to produce in a man of stroug feelings and vigorous genius, united with personal boldness, and much bodily
power and activity. In 1800, he began to preach, and, although popular as a pulpit orator, he was not satisfied with his own discourses. In 1801 and 1802, he ussisted Watter Scott in procuring materials and illustrations for his Minstrelsy of the Scottish Border, and republished the Complaynt of Seotland, with a learned preliminary Dissertation, Notes and a Glossary. Having manifested a strong desire to set out on an expedition to explore the unknown regions of Africa, lis friends, to prevent the execution of this project, procured him an appointment in India, which, however, could ouly be hekd by a person who had taken a surgical degree, and this he actually obtained, after six montlis' unremitting application. While in India, he devoted himself to the study of Oricntal literature, but did not long survive the influence of the climate and his over-exertions in his studics. He died in 1806. His poetical Remains, with a Memoir of his Life, were published in 1821, and, in 1826, the Con1mentaries of Baber, translated by him from the Turkish language. An animated sketch of doctor Leyden's life is contained in the 4th volume (American edition) of the Miscellaneous prose Works of sir W. Scott.

Leyden Phial, in electricity, is a glass phial or jar, coated both within and without with tin-foil, or some other conducting substance, which may be cliarged, and employed in a variety of useful and entertaining experiments. Glass of any other shape, so coated and used, lias also received the same denomination. A vacuum produced in such a jar, \&\&c., has been named the Leyden vacuum. (See Electricity.)

Li (called also caxa); the common copper coin, in China, witlı a square hole in the middle, and an inscription on one side. The copper is alloyed with lead, and the coin, which is cast, is very brittle. 10 lis make one candareen, 100 a mas, 1000 a liang or tale, about $\$ 1,50$.

Lias, in geology; the name of a peculiar formation, consisting of thick, argillaceous deposits, which constitutes the base on which the oölitic series reposes. The word lias is of English origin, and is said to be derived fron a provincial pronunciation of the word layers. The upper portion of these deposits, including about two thirds of their total depth, consists of leeds of a deep-blue marle, containing only a few irregular limestone heds. In the lower portion, the limestone beds increase in frequency, and assume the peculiar aspect which characterizes the lias, preseuting a series of thin, stony beds, separated
by narrow, argillaceous partings; so that the quarries of this roek, at a distanee, assume a striped and riband-like appearance. These limestone beds, when purest, eontain 90 per cent. of earbonate of lime; the residne consisting, apparently, of alumine, iron and silex. In plaees where these beds are less pure, alumine of course abounds. The blue lias, which contains muel iron, affords a strong lime, distinguished by its property of setting under water. The white lias takes a polish, and may be used for the purposes of lithography. The lias clay often oceurs in the form of soft slate or shale, whiel divides into very thin lamine, and is frequently nueh impregnated with bitumen and iron pyrites; in consequence of whieh, when laid in heaps with fagots, and onee ignited, it will continue to burn slowly until the iron pyrites is wholly decomposed. When it falls in large masses from the eliffs upon the sea-shore, as it often does in England, and becomes moistencd by sea-water, it ignites spontaneously. The alum-slate of Whithy, in England, is of this sort. Lias clay is impreguated with a large dose of eommon salt, and sulphate of magnesia and soda ; in consequence of whiel, sjurings of water, rising through it, contain these salts in solution. The Cheltenham and Gloueester springs are in this clay. I'he lias is remarkable for the number and variety of its organie remains, among which are numerous chambered univalves, bivalves, certain speeies of fish and vertebral animals, allied to the order of lizards, some of which are of enormous size. The iehthyosaurus, one of these, has the orbit of its eye 10 inches long and 7 broad; and the plesiosaurus, of which 5 sprecies lave been found, measures 20 feet in length. This roek also embraces, in some instanees, bones of the turtle, fossil wood and jet. The lias crosses England from near Whitby, in Yorkshire, to Lyine, in Dorsetshire. The same formation oeeurs also in Franee, and in the Alps and the Jura. The most valuable mineral substances obtained from it are water-setting lime and alum shale.

Libanus, Mount. (See Lebanon.)
Libation (Latin, libatio, libamentum, from libare, to pour out); properly, a drink offering; but used also for other offerings to the gods, as a meal-eake, or something similar, placed on the altar, and a part of whieh was burned. Libations were also made at domestic meals, some of the food being thrown into the fire on the hearth, in honor of the lares. Of all fruits, a small portion was likewise placed
on an altar, table, \&e., in honor of the gods, or thrown into the sea, in honor of the sea deities. The libations to the dead were not performed till the ninth day after the burning or interment, and eonsisted of milk, wine, or blood, and generally concluded the funeral solemuities. In sacrifiees, the priest was first obliged to taste the wine with which he sprinkled the vietims, and cause those to do the same who offered the saerifiee. This ceremony was called libare (delibare), whence it also means to touch or taste something. Among the Greeks, the $\sigma$ тovod, or $\lambda$ oı $\beta \eta$, was similar to the libatio of the Romans.

Libel, in law, is defined to be the malieious defamation of any person, made public either by writing, printing or pietures, in order to provoke liin to anger, or to expose him to publie hatred, eontempt or ridieule. When defanatory words are merely spoken in eonversation, they exist no longer than during the act of giving them utterance, and are heard only ly those in whose presence they are used; but, when they are committed to paper, they become permanent in their nature, and are eapable of being disseminated far and wide. Words, again, may be spoken in haste, and without thouglit; but the aet of writing necessarily requires time and deliberation. For these reasons, libelling is regarded, by our law, as a more heinous offence than slandering, which is the teelhnical name for spoken defamation; and numberless expressions are libellous, if written and made publie, which are not punishable, if they are inerely spoken. Thus, unless the slanderous words be such as tend to eause it to be believed, that the person slandered is guilty of some erime punishable by law, as theft or perjury, or that he is infeeted with some disease which reuders lim unfit to mix in soeiety; or unless they tend to injure him in the particular trade from whieh he derives his livelihood; or unless they have actually been productive of some damage to him, they are not actionable, though false. For instance, it is not legal slander to say of a private gentleman, that he is a swindler, if he has reeeived no specifie damage therefrom, beyond the mere annoyance of having been subjected to sueh an imputation. But such aeeusations as these, and all others which hold up individuals to publie hatred, contempt or ridieule, beeome libellous when the remembranee of them is deliberately perpetuated by their being committed to writing. Libellers nay be brought to pumishment by a prosecution on the part of the government, or
be compelled to make reparation by a civil action. The civil aetion is grounded upon the injury whiel the libel is supposed to oceasion to the individual ; the public prosccution upon its tendency to provoke it breach of the peace. If the charges contained in the libel are truc, a civil aetion eannot be maintained, beeause it is considered that every man must bear the consequences of his own act; and, thereforc, if he has laid himself open to acensation, he must endure it as the natural result of his own crimes or folly. But, inasmuch as the malieious propagation even of that whieh is true, is caleulated to disturb the publie peaee, the truth of the libellons matter is no defenee, by the common law, upon a proseention by the govermment, although, without doubt, it will, in many cases, entitlc the defendant to the mereiful consideration of the court, when it decides upon the quantum of punishment to be awarded.* In eivil aetions, again, it is necessary to prove that the publieation of the libel was made to others besides the person at whom it is aimed; for, however false and atrocious it may be, it is evident that the person libelled can derive no injury from it, so long as its very existenec is known to none but himself. Therefore an abusive letter, written by one man to another, is not suffieiently pullished to support an action, unless the writer shows it to a third person, bccanse the person to whom it is addressed camnot be injured by it, muless he himself chooses to make it publie; nevertheless, the author of sueh a letter may be prosceuted by indictunent, for it equally tends to ereate a breaeh of the peace. With these distinetions, eivil actions and prosecutions for libel stand very much on the same fonting. In ordinary cases, it is not necessary to prove maliee on the part of the libeller; for, even supposing that the libel was published without any malicious design, yet the injury to the individual, and the danger to the publie peaee, are not the less on that aeeount. But, although the eharges contained in a libel are false, yet, under the particular circumstances of certain rases, the author is exeused, unless express proof can be produced of his having heen influeneed hy hatred or maliee. Thicse are called privileged communications. The master who gives a bad eharaeter of the scrvant who has left him, is privileged, if he aets bona fide, and not

[^23]officionsly; but if, withont application being made to lim to give a charaeter, he volunteers officiously to send one to the person who is about to lire the servant, he is not privileged, and unst stand or fall with the trith or falsehood of his elarges. So, if a father writes to his son, bona fide, warning him against a person whose character he has reason to suspect, that is a privileged communication. It is diffieult to lay down any general definition, which shall comprise all the oceasions when communications are privileged; but, perhaps, we shall not be very wrong in saying that, whenever a communieation is madebona fide, unofficiously, and withont malice, and cither the person who makes it, or the person to whom it is made, has a real substautial interest in the subject to whieh it relates, it is a privileged communication, and the mere fact of its not being true will not render the person who makes it liable, either to a civil action, or to : criminal prosecution. A fair criticism on a public work, or print, \&c. ; a fair comment on a place of publie cutcrtaimment; a fair and impartial account of the proceedings in a court of justicc, and the like, are not considered libellous, unless the subjeets to which they relate are in themselves of such an obseenc, blasphemous or scandalous nature, that a due regard to deecncy enjoins that they should not be publicly diseussed, under which circumstances, even a corrcet statement beeoincs indietable. In a civil aetion, the plaintiff recovers damages, the amount of which is settled by the jury. But, upon an indietment, the jury has merely to acquit the defendant, or to find him guilty, after whieh the court passes judgment, and awards the punishonent, whieh is generally fine and imprisonment, or both; but, by statute 1 George IV, e. 8, persons conrieted a second time of a blasphemous or seditions libel, may be banished for such a term of years as the court thinks fit. The jury decide on the legal innocence or criminality of the alleged libel, without being bound by the direction of the judge. (See Jury.)-Libel, in the eeelesiastical and admiralty courts, is the name given to the formal written statemeut of the eomplaiuant's ground of complaint against the defendant.
Liber; a surname of Bacchus among the Romans, referring to the idea of a deliverer, or liberator. Liber was originally an old Italian god of fertility, whose name was probably derived from the old word libare (to pour out, to water). He was
worshipped in connexion with Libera (Proserpine) and Ceres.

Liberal. In the autiele Arts, the name of liberal arts is said to have been given, originally, to those which were considered suitable for freemen, in contradistinetion to those which were left to slaves. In modern times, the word liberal has reccived a peeuliar political meaning. The two great parties throughout thi European coutinent, are composed of those who adhere to the aneient regime, and object to the principles of equal rights, and of those who, adhering to the latter, are thence called liberals. The struggle is between the feudal, or aristocratic, and the demoeratic principle. There exists, of course, a great variety of shades in both parties. The word liberal received the most distinct signifieation, in a political point of view, in France, during the years preceding the revolution of 1830 . It then meant the party opposed to the ultras and the hierarehists. At present, the name has no longer a distinet party meaning in France, beeause the liberal party rule. But this party is divided into the party $d u$ nouvement, or those who wish further changes, and the stabilitarians, who wish to keep things as they are. The latter, at this moment, hold the reins of government. (Sce the articles Doctrinaires, Centre, and Côté Droit.)

## Liberal Arts. (See aits.)

Liberia; the name which, in 1824 , on the motion of general Robert Goodloe Harper, was given to the territory purclased by the Ameriean colonization society, on the western coast of Africa. The origin and purposes of this association have been already deseribed in the article Colonization Society, as well as the ill success of the first attempt to establish a settlement, in 1820. In the summer of 1821 , cape Montserado, or Mesurado, with a large tract of adjoining country, was purclased of the native chiefs, or head-men. Thic emigrants first cstablished themselves on eape Montserado, under the direetion of doctor Ayres, Jan. 7, 1822 . Almost immediatcly after taking possession of the cape, doetor Ayres was, in consequence of severe illness, obliged to return to the U. States; but, lappily for the colony, Mr. Jehudi Ashmun arrived, aud assumed the superintendence of affiais, Aug. 8. For more than six years, this able inan devoted all his powers to the work of rstablishing, upon broad and sure foundations, this colony, so interesting to the U . States, and so full of hope for Afriea. His defence of the infant settement, in 45*

Deeember, 1822, against the united forces of the natives, showed great courage and talent. During the visit of the present secretary* of the soeiety to the colony, in 1824, the system of government now in operation was adopted, and the benefits which have resulted from it are great. Thic supreme power resides in the agent of the soeiety, but all the civil and military officers of the colony are annually elected by the people. Through the negotiations of the late Mr. Ashmun, great aecessions were made to the original territory of Liberia. Full possession has been obtained of large tracts of country, and a jurisdietion (which excludes all foreign nations from making settlements) acquired over the coast, from cape Mount to Trade Town, a distance of 150 miles. The territory of Liberia is generally low upon the coast, but gradually rises towards the interior, and, at a distanee of from 20 to 30 miles from the sea, hills are visible, of considerable elevation. About 48 miles due north-west from eape Montserado, is Grand Cape mount, which is elevated from a level country, on a base of about four miles in diameter, 900 feet above the sea, which washes it on thrce sides. This mount, the north-western extremity of Liberia bay, is covered with a deep and unfading foliage. Several springs of excellent water descend from it, and the Pissou river (a broad, but irregular and sluggish stream, whieh has been traced to about 100 miles from its mouth) empties itself into the ocean on its northern side. The St. Paul's river, whieh flows into Liberia bay, at the distance of from eight to nine miles north of cape Montserado, is of cousiderable magnitude, and supposed to admit, above its falls (about 20 miles from its mouth), of boat navigation for 200 or 300 miles. The Montserado river is 40 miles long, and enters the sea on the northern side of the cape of the same name. In the Junk district, south-east of cape Montserado 40 miles, are two considerable rivers, one descending from the nortl-north-west, and the other from the cast-north-east, and pouring their waters into the ocean at the distance of only two miles from eaeh other. The river St. John's, 81 miles south-east from cape Montserado, is larger than any we have mentioned, and represented by Mr. Ashmun as majestic, and navigable for vessels of 90 to 100 tons, abounding with fish, and having its course through a fertile, delieious and salubrious country, of a rich and mellow soil, fanned 16 hours in every

[^24]24, even in the dry season, by a sea breeze, tempered and sweetened, in its passage up, the river, by the verdure which crowns its banks, rendering the scene one of the most delightful that can be imagincd. Cape Montserado, upon which is situated Monrovia (so called in honor of president Monroe, one of the carliest and most efficient friends of the colonization society), the earliest settlement made in Liberia, is about $6^{\circ} 27^{\prime} \mathrm{N}$. lat., and $10^{\circ} 40$ W. lon. from Greenwich. Cape Montserado is clevated about 80 feet above the ocean, is washed by the water on three sides, and connected with a level tract of land on the fourth. Its length, from north-west to south-east, is three and one third miles; its average widtl, from north-east to south-west (directly across from the river to the ocean), three fourths of a mile. It comprehends about 1600 acres. From May to October, the wind, on this coast, is uniformly from south-south-west. In November and December, the sea breeze varies from south-southwest to north-north-west, the land breeze commonly from nortli-cast and north. Masters of vessels should remember that this coast may, at all seasons, be descended with little difficulty; but that the ascent, between January and May, is excecdingly slow, both the current and wind being in opposition. Vessels standing by cape Mount ought to give this cape a birth of two or three leagucs. The anchorage ground, at the distance of one or two miles north-east of cape Montscrado, is sufe and grood. The Anerican colonization society has transported to Liberia 1402 free persons of color. Between 100 and 200 slaves, liberated from the grasp of pirates on the coast, have been placed under the protection of the colony. About 300 slaves, taken while about to be brought into the U. States contrary to law, have been removed to Liberia by the government of the U. States. There are four flourishing settlements within the limits of the colony -Monrovia, Caldwell, the Half-way Farms (or New Georgia), and Millsburg, situated 20 miles in the interior, on the eastern bank of the St. Paul's. One of the native tribes has voluntarily placed itself under the laws of the colony, and others have expressed a desire to follow its example. The natives, in the vicinity of Liberia, may be divided into three great classes-the Fey or Vey tribes occupying the country from Gallnias river to Grand Cape mount, a distance of 50 miles, and which are estimated by Mr. Ashmun at 1500. Between cape Mount and cape Montserado is the

Dey tribe, about lalf the number of the Veys. South-west of Montserado are the Bissas, extending over various countries. 'Their number may be estimated at 150,000 . The F'eys are described as a proud, selfish, deceitful ruce ; the Deys as indolent, pacific and inoffensive, and the Bassas as industrious, and many of them lahorious. It is not to be understood, however, that each of these classes is lich together and directed by a single govermment. They are all of them broken up into small and feeble tribes, ntterly incapable of courlucting warlike operations in a united and powerful manner. The people firther in the interior are of a more elevated and eivilized character, have some knowledge of the Arabic language, and some acquaintance with the inore uscful arts. The articles to be obtained by trade at Liberia are cliefly ivory, camwood, gold, tortoise-shell, hides, the teeth of the seahorse, and a small quantity of coffee. The country abounds in cattle, goats, swine and fowls, and in most of the fruits and productions of other tropical climatcs. 'Thus far, the efforts of the American colonization society have been attended with great, if not unexampled, success. The men of color, who have migrated to Liberia, have felt the influences of enterprise and frecdom, and are improved alike in their condition and character. Those who were slaves have hecome masters; those who were once dependent have become independent: once the objects of charity, they are now benefactors, and the very individuals who, a few years ago, felt their spirits depressed in our land, and incapable of high efforts and great achievements, llow stand forth conscious of their dignity and power, slaring in all the privileges and honors of a respected, a free, and a Christian people. The plan of the American colonization society appears practicable to a very great extent, and, we trust, will be made the means of inestimable good to the U. States and to Africa.

Libertas, among the Ronians, personified liherty ; according to Hyginus, a daughter of Jupiter and Juno. When she is represented on coins, with her head uncovered, she is the Roman Liberty; but, with a diadem and veil, she is the goddess Liherty, in general. Gracchus built a temple to the latter on monnt Arentine.

Libertines, or Libertini ; a sect of famatics, in the sixtecnth century, in Holland and Brabant, who placed religion in a perfect union of the soul with God, which having once taken place, all difference between evil and good, sin and vir-
the, ceased ; so that the individual might give hinself up to lis appetites and passions, as these were no longer bad.

Liberty of the Press. (See Press.)
Liberty Tref. At the time of the disturbances excited in the American colonies by the stamp act, a large American ehn was used, in Boston, to hang obnoxious characters in effigy, and to make known the intentions of the sons of libcrty (as the patriots were called), who also held their meetings under it. The following inscription was placed upon it-"This tree was planted in the year 1646, and pruned by order of the sons of liberty, February 14, 1766." It was thenceforward called the liberty tree, but, in 1774, was cut down by the Euglish troops, by whom the town was occupied. The example was initated in other pa:ts of the comery, most of the towns having their liberty tree ; aud, ou the breaking ont of the Frencl revolution (1789), the same emblem was adopted. A liberty tree was planted by the Jacobins in Paris, and nany other citics of Framce followed their example. The same cerenouy was practised by the French troops, on their entrance into foreign countries. The Lombardy poplar was first used, but the French name of this tree (peuplicr), affurding matter of derision, oaks or fir-trees were afterwards used.

Liberty, Cap of. The right of covering the head was, in early times, a mark of liberty. Slaves always went bare-headed, and one of the ceremonies of emancipation was the placing a cap on their head, by their former master. Thus the cap (or the hat) became the symbol of liberty, and has played a part in many revolutions. The swiss owe their liberty to the hat which Gessler ordered to be saluted as a mark of submission. The arms of the united Swiss cantons have a round hat for a crest. In England, the cap (blue, with a white border, and the inscription Liberly, in letters of gold), is used as a symbol of the constitutional liberty of the nation, and Britannia sometimes bears it on the point of her spear ; more common$1 y$, however, she has the trident of Neptune, without the cap, in her left hand, whilst she offers the olive branch of peace to the world in her right hand. The cap was used in France, as the symbol of libcrty, at the beginning of the revolution (1789); and its red color was borrowed from that of the liberated galley-slaves of Marseilles, who went in great numbers to Paris. The Jacobin club, at Paris, afterwards made the red cap a badge of nem-
bership, and it was, therefore, afterwards called the Jacobin cap.

Libra ; the Roman pound unit for weighing. (Sec $\AA s$.) The ancient Romans reckoned money also by pounds, and a libra of silver was worth about thirteen dollars. This word passed over to the various nations of Latin descent or mixture. (See Livre.)

Libraries. The most ancient library is fabulously ascribed to the Egyptian king Osyınandyas of Memphis. Pisistratus first founded a library among the Greeks, at Athens; Xerxes carried it to Persia, but Seleucus Nicator caused it to be restored to Athens. The most celebrated library of antiquity was the Alexandrian. (See Alexandria.) Æmilius Paulus and Lucullus brought the first libraries, as the spoils of war, to Rome. Asinius Pollio founded the first public library, which was also taken in war. Julius Cæsar established a large library, and intrusted it to the care of the learned Varro. Angistus founded two libraries, one of which was called Palatina, because it was in the temple of Apollo, on mount Palatine ; the other was in the portico of Octavia, and was called Octaviana. The conflagration of Nero destroyed several libraries, which Domitian restored. Trajan founded a very excellent library. Publius Victor mentions 28 public libraries in Rome; there were, besides, extensive private libraries. These treasures were destroyed or dispersed, partly by the ravages of the barbarians, partly by the iconoclasts. In the ninth and eleventh centuries, Basil the Macedonian, emperor of the East, and the learned Comncnian inperial family, made several collections of books, principally in the convents of the历gean islands and mount Athos. The Arahians had, in Alexandria, a considerable library of Arabian books. AI-Mamoun collected many Greek manuseripts in Bagdad. In the West, libraries were fommed in the second half of the eighth century, by the encouragement of Charlemagne. In France, one of the most celebrated was that in the abbey St. Germain des Près, near Paris. In Germany, the libraries of Fulda, Corvey, and, in the eleventh century, that of Hirschau, were valuable. In Spain, in the twelfth century, the Moors had 70 public libraries, of which that of Cordova contained 250,000 volumes. In England and Italy, libraries were also founfed with great zeal, particularly, in the former conntry, by Richard Aungerville; in the latter, by Petrarch, Boccaccio and others. After the inven-
tion of the art of printing, this was done more easily and at less expense. Nicholas V founded the Vatican library. Cardinal Bessarion bequeathed his excellent library to the churels of St. Mark at Venice. (See Petit-Radel's interesting Recherches surlcs Bibliotheques anciennes et modernes jusqu'à la Fondation de la Bibliotheque Mazarine (Paris, 1819.) The prineipal libraries of modern times are, the royal library at Paris (more than 400,000 printed books and 80,000 MSS.) ; the central court library at Munich (more than 400,000 books and 9000 MSS.) ; the imperial library at Petersburg ( 300,000 books and $11,000 \mathrm{MSS}$. ) ; the imperial library at Vienna ( 300,000 books and 12,000 MSS.) ; the university library at Göttingen (about 300,000 books) ; the royal library at Dresden (at least 220,000 printed books, 150,000 pamphlets, dissertations and small works not included, and 2700 MSS.) ; the royal library at Copenhagen (stated variously at $130,000,250,000$ and 400,000 volumes; it has 3000 MSS.) ; the library in the Escurial ( 130,000 volunies, and excellent Arabian MSS.) ; the royal library at Berlin (200,000 vols. and 7000 MSS.) ; the academical library at Prague ( 130,000 vols. and 8000 MSS.) ; the royal library in Stuttgard ( 116,000 vols.) ; the Vatican library at Rome ( 360,000 books and 40,000 MSS.). In England, the two largest libraries are the Bodleian in Oxford (stated by some at 500,000 , by others at 250,000 vols. and $30,000 \mathrm{MSS}$.), and the library of the British museum at London (180,000 books and about 60,000 MSS.). Besides the Bibliotheque du roi, there are, in Paris, those of the arsenal ( 150,000 printed books, 5000 MSS.), of St. Geneviève ( 110,000 printed books, 2000 MSS.); of the institute ( 50,000 vols.); of the chamber of deputies $(40,000)$; the Mazarin library $(90,000)$; making in all, $1,200,000$ volumes in the public libraries in Paris. In the rest of France, there are 273 public libraries, the principal of which are those of Lyons (containing together 600,000 vols.) ; Bordeaux ( 105,000 ); Aix ( 73,000 ), \&c. The total number of volumes, in these provincial libraries, is $3,000,000$. Access to these great collections is easily obtained, both by natives and foreigners. In Italy, there are a great number of valuable libraries, of which that at Bologna, founded in 1650, contains 150,000 vols., 9000 MSS .; the Magliabecchi library at Florence, 150,000 vols., 9000 MSS. ; the university library at Genoa, 70,000 vols. ; the Ambrosian at Milan, 60,000 printed vols., and, at least, 15,000 MSS.-according to others, 140,000 vols.
and 15,000 MSS. ; that at Modena, 80,000 vols., and that of Naples 130,000 . The Vatican library is very large and famous, but in much disorder. The number of books in foreign libraries is very difficult to be ascertained with precision, and the statements differ so much, that the above estimates are, in many cases, little better than approximations. In the U. States, the principal libraries are that of Harvard college $(36,000$ vols.) ; of the Boston Athenmeuni (26,000 vols.); of the Pliladelphia library, (27,000 vols.) ; of congress ( 16,000 vols.) ; of Charleston ( 13,000 .)

Libration of the Earthe is sometimes used to denote the parallelism of the earth's axis in every part of its revolution round the sun.

Libration of the Moon. Very nearly the same face of the moon is always turned towards the earth, it being subject to only a small change within certain limits, those spots which lie near the edge appearing and disappearing by turns; this is called its libration. The moon turns about its axis in the same direction in which it revolves in its orbit. Now, the angular velocity about its axis is uniform, and it turns about its axis in the same time in which it makes a complete revolution in its orbit ; if, therefore, the angular motion about the earth were also uniform, the same fuce of the moon would always be turned towards the earth; for, if the moon had no rotation on her axis, when she is on opposite sides of the earth, she would show different faces ; but if, after she has made half a revolution in her orbit, she has also turned lialf round her axis, then the face, which would otherwise have been shown, will be turned behind, and the same face will appear; and thus, if the moon's angular velocity about lier axis were always equal to her angular velocity in her orbit about the earth, the same side of the moon would be always towards the earth ; but as the moon's angular velocity about her axis is uniform, and her angular velocity in her orbit is not uniform, these angular velocities cannot continue always equal, and therefore the moon will sometimes show a little more of her eastern parts, and sometimes a little more of her western parts. 'This is called a libration in longitude. Also the moon's axis is not perpendicular to the plane of her orbit, and, therefore, at opposite points of her orbit, her opposite poles are turned towards the earth; therefore her poles appear and disappear by turns. This is called a libration in latitude. Hence nearly one half of the moon is never visible
at the earth, and therefore ncarly onc half of its inhalititants (if it have any) never see the earth, and nearly the other half never lose sight of it. Also, the time of its rotation about its axis being a month, the length of the lunar days and nights will be abont a fortnight cach. It is a very extraordinary circumstance, that the time of the moon's revolution about her axis should be equal to that in her orbit.

Labya, with the ancient geographers ;on large part of the north of Afriea, west of Egypt, which was divided into Libya exterior and interior ; sometimes also into L. Proper, L. Marmarica and L. Cyrenaic. The Greek authors sometimes comprehended all Africa under this name.

Licenses, or Free Letters, were instruments used to diminish the effect of the Berlin and Milan decrees of Napoleon, and the British orders in council, which threatened the destruction of European commerce, if some exceptions had not becn made by both nations. Englaud decreed first, in November, 1808, that vessels of all nations, the French cxecpted, might be provided with lieenses, good for one year, upon condition of importing grain into England; but, after 1809, lieenses were given under the condition of exporting British manufactures or colonial produce. Licenses were also sold by France, especially for the purpose of suppplyiug her navy. False papers for ships were also in common use. At last, it was decided by England to grant licenses to all ships not French, even though they carried a French license, upon condition that one third part of the eargo should be English goods, the same portion of French (arso being also allowed. France also Eave licenses (to American vessels) to cxport Freneh goods, and, in return, to import colonial produce. Licenses were granted by Russia for trade with England, from 1811, and by Sweden, for the same trade, from 1812; but, at the fall of the famons continental system (sce that article), the licenses became useless.

Lacentiate; an academieal dignity between the baecalaureate and the doctorate, and the obtaining of which is a necessary step to taking the doctor's degrce. Licentiate also signifies the person who has receiverl the degree. A licentiate in theology has the right of delivering theological lectures, and a licentiate in medicine the right to practisc.

Licuens; a family of plants, belonging to the Limnean class cryptogamia, containing about 1200 known specics, whieh are now arranged nnder several genera. Their
substance is powdery, crustaceous, membranous, coriaceous, or even corneoins; and their form that of a horizontal frond, sinuated, lobed, or divided, bearing scattered tuberclcs and cup-like warts, or branching and coralloid. They are common every where, adhering to rocks, the trunks of trees and barren soil. On 凤.seending mountains, they are found flourishing beyond the limit of all other plants, even to the very verge of perpetual snow. Many of them, fixing upon the hardest rocks, by retaining moisture, facilitate their decomposition, and promote the formation of soil. They are generally perennial, and grow by receiving moisture through all parts of their surface, and, though frequently desiecated, the least rain restores their freshness. Many of the spccies appcar to be universally distributed, occurring in all parts of the globe; but the lichens of the equatorial regions and southern hemisphcre have not, hitherto, been satisfactorily examined. Several of the specics are used for sustenance in times of scarcity, by the inhabitants of the northern regions. The tripe de roche of the Canadians, so often resorted to by the fur traders, is also a lichen, somewhat rosembling the substance from which the name is derived. The reindeer moss (ccenomyce rangiferina) is common, in sterile soil, in many parts of the northern hemisphcre ; but, in the arctic regions, it grows in the greatest profusion, often occupying, exelusively, extensive tracts of country, covering the ground to the deptli of a foot or more, and having the appearance of snow. It is celebrated as being the chicf resource of thic reindeer in these desolate recyions. The Iceland moss (physcia Icelandica) is also exceedingly abimdant in the arctic regions, and often affiords aliment to the inhabitants, cither in the form of gruel or brcad, which last, though not agreeable, is very nutritious. The taste is bitter, astringent, and extremely mucilaginous. It is an artiele of commerce, and is very frequently employed in pharmacy, in the composition of various pcctoral lozenges and sirups, and is celebrated as an article of diet, in combination with milk, in coughs and pulmonary affections. The plant consists of a membranous frond, divided into lobes and lacinia, which are unattached, and eithcr smooth or fringed on the margin. It is very abundant in the Alpine region of the White momntains of New Hampshire. Orelial (rocella tinctoria) is still an inportant article of commerce, though much less used now than formerly, on account
of the fugitiveness of the rich purple and rose-colored dyes which it yields. Some of its timts, however, are capable of being fixed, and it is, besides, employed for staining marble, forming blue veins and spots. It grows on roeks, bordering on the sea, in the islands of the Mediterranean, the Azores, Canaries, Cape Verde and Bourbon. That from the Canaries is most esteemed, and is largely imported into Europe. Se veral other liehens afford dyes of various colors, some of which can be rendered permanent. Litmus is also obtained from a liehen. (See Litmus.)
Lichtenberg, George Christopher, one of the greatest natural philosophers, and wittiest writers, that Germany has produeed, born in 1742, at Ober-Ramstadt, near Darmstadt, was the youngest of a family of 18 children. He received from his father some instruetion in physics, and went, after his death, to the aeademy at Darmstadt. He was strong and well formed till eight years of age ; but, at this time, the effects of the carelessness of his nurse beeame visible, in a distortion of the spine. In 1763, he went to Göttingen, where he applied himself to astronomical observations. He made observations upon the carthquake of 1767, and observed, with Kästner, the transit of Venus over the sun's disk, June 19, 1769, as also the comets of 1770, 1771, and 1773, the orbit of whieh last he deseribed, and presented to the academy of sciences of Göttingen. He also constructed lunar charts, in whieh the spots are indicated in the order in whieh they are suceessively covered by the earth's shadow. In 1770, he was offered a professorship at Göttingen, which he entered upon in his 28th year. In this year he went to London. Liehtenberg aseertained by observation, in 1772 and 1773, the situations of Hanover, Osnabrück and Stade. He afterwards undertook to publish, with illustrations, the papers left by Tobias Mayer, and added a lunar ehart, with a deseription of lunar spots; but only one volume appeared. He visited England again in 1774, and wrote upon Garriek and the English stage. He subsequently published an excellent commentary upon Hogarth's engravings. In 1778, he returned to Göttingen. From this period, he leetured upon experimental philosophy. His lectures were of great worth, and his apparatus was prineely. He was ranked as a discoverer in physics, from his observations upon the figures developed upon electrified substances, which he learned to reproduce and exhibit, and which still retain his name. He
also attacked, with much wit, in several publieations, the system of physiognomy to which Lavater lad given sueh curreney ; but le was subsequently reconeiled to Lavater. Other productions, which lie thouglit eensurable, felt the lash of his wit. His taste for drawings illustrative of charaeter, made him a great admirer of Hogarth. He, for a long time, supplied the Göttingen Souvenir with miniature drawings of the heads of Hogarth, accompanied by very witty and ingenious observations. The favorable reeeption of these led to the publieation of a Minute Explanation of llogarth's Plates, with perfeet miniature Copies of them, by Riepenhausen, of which he published four numbers himself: the seven next to the eleventl were published by Böttiger, and the last by Bouterwek. In the last years of his life, Lieltenberg beeame lyypoehondriae and misanthropie, so that he shut himself up in his ehamber, and would see no one. He died of a pulmonary inflammation, Feb. 24,1799 , aged 57 . He was an original thinker, to whom no subjeet of a seientific elaraeter was uninteresting. Seientific, spirit and poetie talent were united in lim in a singular degree, and produced the most peculiar and striking results; but the highest prineiple of the human mind-faith in something divine-was, in his speculative moments, disregarded; and a superstitious belief in dreams, predietions and presentiments, was admitted in its stead.
Lichfield ; an ancient city of England, in the county of Stafford, and a county of itself, with particular local jurisdietion, under the government of the bailiffs and magistrates. It stands on a small brook that runs into the Trent. The city is neat and well built, and eonsists of three or four prineipal streets, and some smaller ones; and is separated from the Close, whieh is in the county of Stafford, by a pool of running water. It is the residence of the dignitaries of the chureh. The eathedral is supposed to have been founded about 656, and was afterwards mueh enlarged and improved. It is one of the most elegant religious edifiees in Great Britain, extending 400 feet in length, and 67 in breadth. In the eentre rises an elegant steeple, to the height of 258 feet, and two smaller ones, at the west end, 183 feet. The interior is finished with corresponding elegance and splendor. The body of the chureh is spacious and lofty, supported by pillars formed of elusters of slender eolumns, with neat foliated capi-
tals. It extends 213 feet in length, from the great west door to the choir, and 153 in breadth: the breadtl of the side-aisles is 66 feet, and the height of the nave 60. Over the great west doors, that open into the nave, is placed a splendid circular window, constructed at the expensc of James, duke of York, in the reign of Charles II. A number of intercsting monuments are dispersed through the church, among them Chantrey's celebrated group of sleeping children. St. Mary's chapel, now thrown open to the choir, is uncommonly beautiful and splendid. Besides the cathedral, the Close contains a variety of buildings, which, except a few houses, belong to the church. The bishop's palace is situated at the north-east corner. It is a spacious building of stone, with the datc of 1687 , and the arms of the bishopric, in front. Lichfield contains a free grammar school, at which were educated Addison, Wollaston, Ashınole, Garrick and Johnson. Population, 5022. 16 miles N. Birmingham.

Lichtenstein, Martin Henry Charles; a linguist and natural philosopher, born at Hamburg, Jan. 10, 1780. At the age of 22 , he received from the Dutch general Janssen, who was appointed governor of the cape of Good Hope, the situation of instructer and physician to his son. He arrived at the cape at the end of the year 1802 , and spent seven months in exploring the interior of the colony. Upon the breaking out of the war, he received, in 1804, the post of surgeon-major to a battalion of Hottentot light infantry, and, after a few expeditions, was named, in 1805, as one of a commission to visit the distant tribe of Bushwanas. Two months after his return, the colony was conquered by the English, and he returned to Europe with gencral Janssen, and to Germany in 1806. In 1810, he went to Berlin, and published there his Journal, of which the two first volumes appeared in 1811. In 1811, lie also became a professor in the newly erected university. In 1819, lic travelled through England, Holland, Switzerland and France ; studied their most celebrated scientific institutions for natural history, and formed connexions which enabled him to augment, greatly, the museum of the university with which lic was comnected.

Lichtrenstein (properly, Liechtenstein), a sovercign principality, the smallest state of the Gemnan confederacy, is situated on the rorthern declivity of the Rhetian Alps (which liere rise to the height of 5600 feet), and on the Rhine. It com-
prises an area of 53 square miles, with 5800 inlıabitants, in 11 villages. Vadutz, a inarket-town, is the chief place. The prince has declared the Austrian code valid in Lichtenstein. The courts of appeal are the Austrian courts. The prince furnishes a contingent of 55 men to the army of the confederacy. He has a voice in the 16 th vote in the diet, and has the 28th vote in the general assembly (plenum). Nov. 9, 1818, he granted his principality a constitution, on the model of the constitution of the German states of Austria. We mention this, on account of the qualifying clauses of the fourth section of this instrument, which would make the electors of Lichtenstein an assembly of patriarchs. It gives the right of voting to every person who pays taxes on an estate valued at 2000 guilders, is 30 years old, of irreproachable and disinterested character, and of a peaceable disposition. The prince's income is 17,000 guilders, but he has large districts, with towns and villages, as an Austrian subject, which contain 350,000 inhabitants, and yield a revenue of $1,500,000$ guilders. He has also considerable possessions in Bohemia.

Lick, or Salt Lick. A salt spring is called a lick, in the western parts of the U. States, from the circumstance that the earth about it, which is impregnated with saline particles, is licked by the bison and deer.

Lictors. Lictors, in Rome, were the public servants, who attended upon the magistrates, to fulfil their commands. Their name (lictores) was derived from their binding offenders hand and foot, previously to the punishment of scourging. The office was borrowed by Romulus from the Etruscans, whose chief magistrates were attended by servants, bcaring axes tied up in bundles of rods, which were callcd fasces. He was himself always preceded by 12 of them. When the regal dignity was abolished at Rome, the royal pomp was retained; and, on this account, consuls, pretors, and other important officers (except the censors), were all attended by lictors. When a magistrate of high rank appeared in public, the lictors preceded him in a file, following each other. It was their duty to clear the road of the populace, that the consul, or other officer, might not be imperled in his progress; and this was effected by the cry, "The consul (or pretor, \&c.) comes," "Make way for the consul." When he returned to lis own house, or entered another, the lictors struck the door with their fasces. They
also took care that proper respect should be slowin to the person of the magistrate. A horseman who met the consul was obliged to dismount. Every one uncovered his head as he passed, left hinn fice passage, \&c. The lictors were the executioners of punishıments. They were free men, but chosen from among the lowest classes, and were often freed-inen of the magistrate whom they attended. The dictators were preceded by 24 lictors ; the consuls, decemvirs and tribunes of the soldiers, by 12; the prextors and master of the horse, by 6 , and the vestal virgins by 1 , ouly.

Liechtenstein. (See Lichtenstein.)
Liege (German, Lúttich; Dutch, Luyk), formerly a bishopric in the circle of Westphatia, was occupied by the French in 1794, ceded to them by the peace of Luneville, and formed the department of the Ourthe. By a decree of the congress of Vienna, and a separate treaty of March 23,1815 , this country was given, as a sovereign principality, to the king of the Netherlands, and formed, until the Belgian revolution of 1830, a province of the kingdom, containing 2160 square miles, with 354,000 inhabitants, some portions of its territory having been added to other provinces. The Meuse and Ourthe water it. In the southern part, which is a continuation of the Ardennes, the soil is rocky, hilly, and covered with woods. The western part is a fertile plain. Grain is not raised in quantities sufficient to supply the wants of the inhabitants, and has been partly superseded by potatoes. Cattle and sheep are raised in great numbers. The Limburg cheeses, which are made in this province, are celebrated. It is rich in coal, calamine, alum, iron, lime, good marble, flints, whetstone and building-stone. The cloth and iron manufactories are considerable, and guns and cloths are exported in large quantities. The new troops of Turkey have been chiefly armed from the workshops of Liege.-Liege, the capital of the province, lies in a valley on the Meuse, at its confluence with the Ourthe. Liege was formerly fortified. There are 17 bridges across the river. The population is 47,000 ; houses, 8000 . There are 40 churches in the city. Lat. $50^{\circ} 3922^{\prime \prime}$ N.; lon. $5^{\circ} 31^{\prime} 50^{\prime \prime} \mathrm{E}$. The iuhabitants are chiefly Walloons, who speak a corrupt French, mixed with Spanish and German. Muskets are made from the value of a crown to 500 louis d'or. There are also cannon-founderies, zinc-works, tanneries, \&c. Nails are manufactured here in great quantity. A university was cstablished at Liege (1817), which, previous
to the troubles of 1830 , had 350 stuilents and several useful institutions conmected with it.
Liegnitz, capital of the government of the same name, in Silesia, Prussia, at the confluence of the Schwarzwasser and Katzbach, the seat of government, \&c., has 9600 inlhabitants, institutions for education, linen-bleachcries, \&c. Frederic the Great defeated general Laudon near Liegnitz, August 15, 1760. Not far from it lies the village of Wahlstatt, from which Blikcher received his title of prince, on account of the battle of the Katzbach (q. v.). The former principality of Liegnitz had dukes of the Piast faunily. The second wife of the king of Prussia, to whom he was united by what is ca!len is lefi-handed, or morganutic inarriage (see Morganatic Marriage), Nov. 11, 1821, bears the title of princess of Licgnitz. She was a countess von Harrach. May 26, 18:2 she joined the Protestant church, having previously been a Catholic.
Liev, in law, in its most usual acceptation, signifies "the right which one person, in certain cases, possesses of detaining property, placed in his possession, belonging to another, until some demand, which the former has, is satisfied." It is, however, not unfrequently used, whenever property, either real or personal, is charged with the payment of any debt or duty, every such charge being styled a lien on the property, although the latter be not in the possession of the person to whom the debt or duty is duc. This second signification would open too wide a field of discussion. We shall therefore confine ourselves to the explanation of the right of detaining, which is the more techmical meaning of the two. Liens are of two kinds : 1. particular liens, that is, where the person in possession of goods may dctain them until a claim, which accrues to liin from those identical goods, is satisfied; and, 2. general liens, that is, where the person in possession may detain the goods, not only for his claim accruing from them, but also for the general balance of his account with the owners. Again, some liens are given by the common law, without any agreement between the parties; some are created by express agreement, and sorne by usage; which latter, indeed, implies an agreement, because, when a man enters into any business, where a particular usage is generally adopted, he is presumed to consent to be bound by that usage, unless, in his dealings with others, he expressly protests against it.-I. The common law gives a lien to the person in
possession of goods in three instances: 1. When the common law compels the members of any particular trade or business, without any option on their part, to accept employment from every person who is willing to pay a reasonable compensation, in recompense for the burden whichs it thus throws upon them, it allows them to detain such goods as are delivered to them in the course of their business, mitil the owner has satisfied any debt which may have arisen out of the transaction in which the groods were so delivered. Imkeepers, common carriers and farriers are entitled to this species of lien; for instance, the proprietor of a coach need not give up a parcel until the carriage of it be paid for. 2. When goods are delivered to a tradesnan, or any other, to expend his labor upon, he is entitled to detain those goods until he is remunerated for the labor which he so expends. Thus a tailor is not obliged to take a customer's cloth and nake it into a coat, but, if he consents to make the coat, the customer camot compel him to deliver it until he is paid for the making. The first kind seens to be included in the second, but they are kept distinet, because it is supposed that the first was, at one time, the only species of lien allowed by the common law, and that the second was a subsequent invention, adopted on equitable considerations in limitation of it. 3 . When goods have been saved from the perils of the sea, the salvor may detain them until his claim for salvage is satisfied; but the finder of goods has in no other casc a lien on the goods found, in respect of the trouble and expense to which the finding and preserving of them may have subjected him. All these are particular liens; and, therefore, the eoach proprietor may not detain the parcel, nor may the tailor detain the coat, nor the salvor the property saved, until payment of the carriage of a former parcel, or of the price of another coat, or of salvage which accrued for saving other groods. Another rule with regard to particular liens is, that they exist only so long as the possession of the goods is retained by the person who has the lien. If he once deliver up the goods to the owner, he waves his lien, which is thereby so effectually amihilated, that it will not be revived, even if the same goods should afterwarls return into his possession. Thus, if the tailor deliver the coat, and it is afterwards sent to him to be inended, he cannot then detain it as a security for the original price, but only for the cost of mending. His remedy to revol. vir.
cover the price must be by a suit at law; and we may here remark, that a creclitor can never prejndice his right of maintaining an action for his demant, by insisting on his right of detaining the goods, for the action and the lien are concurrent rights, and do not interfere with each other. -II. General liens are only created by express agreement, or by usage. It lans been cletermined, that attorneys and solicitors, bankers, factors and brokers, in-surance-brokers, and some others, are, by the custom of their respective trades and professions, entitled to a lien on the property of their clients, customers and einployers, for the general balance of their accounts. Thus an attorney may detain papers which have been delivered to him to assist in the conducting of one cause, as a security for the costs of another; and, if he return them to his client, and they come again into his possession, his lien revives; for, in the case of it general lien, it matters not whether the same or different papers are delivered to the person employed, his right of detaining being the same in both instances.

Lieou-Kieot. (See Loo-Choo.)
Lieutenant. This word, like eaplain (q. v.), and many others, has received gradually a much narrower meaning than it had originally. Its true neaning is a deputy, it substitute, from the French lieu (place, post) and tenant (holder). A licutenant général du royaume is a person invested with almost all the powers of the sovereign. Such was the count d'Artois (afterwards Charles X) before Louis XVIII entered France, in 1814. The duke of Orleans, before he accepted the crown as LouisPlilip, was appointed to the same office by the chamber of deputies. Lieutenantgeneral was formerly the title of a commanding general, but at present it signifies the degree above major-general. Lieu-tenant-colonel is the officer between the coloncl and major. Licutenant, in military language, signifies the officer next below a captain. There are first lieutenants, and sccond, or sous-lieutenants, with diffcrent pay. A lieutenant in the navy is the second officer next in command to the captapin of a ship. According to the new organization of the French navy, of 1831, there are lieutenants de vaisseau and lieutenants de fregate, formerly called enscignes de vaisseau. The latter can command only in the absence of the former. In England, the lord-lieutcnant of a county has the authority to call out the militia in case of invasion or rebellion. The governor of Ireland is also called lord-lieuten.
ant of Ircland. In some English colonies, jointly under a governor-general, the chief magistrate of cach separate colony is called licutenant-governor. Many of the U. States choose lieutenant-governors to act in case of the governor's death, \&c.

Life. (See Physiology.)
Life-Preservers. The human body is a little lighter than an equal bulk of water, so that it naturally floats in this fluid. The mouth, however, in the case of most men lying motionless in the water, would sink below the surface, if the head were not thrown back by a muscular effort. Many persons who fall into still water, and are unable to swim, might be saved, if they had presence of mind sufficient to preserve a proper position. The specific levity of the body, in comparison with water, makes it easy to keep the upper part of it considerably elevated above the surface of the water by attaching to the chest some buoyant substance, even though its bulk be not great ; and many contrivances, called life-preservers, have been invented with this view. A great porti, $n$ of them, however, have been found, in practice, of little or 110 use. One of the latest is the invention of a Mr. Scheffer, in England. It consists of a hollow rylinder, formed without a seam, and perfectly air-tight, hent when distended with air and ready for use : or it is what may be terined a cylindrical ring, withont a seam, and without a break. Of this ring, the external diameter is generally abont 223 inches, the internal diameter about 12 , and the dianneter of the cylinder about $5 \frac{1}{2}$, the dimensions varying, of course, by being specially adapted to the size of the person by whom it is designed to be employed. It contains a small stop-cock, to which an ivory pipe is fixed. Through this pipe the air is injected by the mouth, and retained by the stop-cock; the adjustment and inflation only occupying the short space of one minute. When unexpanded, it folds up into a very small compass, so as to be conveyed in the pocket; and is also very portable, its weight being but twelve ounces. Another life-preserver, invented in the U. States, by a gentleman of Connectient, does not differ essentially from this, except that it is a straight cylinder. It is made of cloth without a seam, and rendered impervious to water by a preparation of caoutchouc, is ahout two feet, or two and a half feet long, and eight or ten inches in diameter; is filled like the one first described, and secured to the body by means of straps passing over the shoulders. When empty,
it occupies but little room, and may even be worn by a man laboring on the deck of a vessel in danger. He can inflate it in a few moments, when he finds it necessary to trust himself to the waves.

Ligament, in anatomy; a strong, compact substance, serving to join two kones together. A liganent is more flexible than a cartilage, not easily ruptured or torn, and does not yield, or at least yields very little, when pulled.

Ligature, in surgery, is a cord, band, or string; or the binding any part of the body with a cord, band, fillet, \&c., whether of leather, linen, or any other matter. Ligatures are used to extend or replace bones that are broken or dislocated ; to tie the patients down in lithotomy aurd amputations; to tie upon the veins in phlebotomy, on the arteries in amputations, or in large wounds; to sccure the splints that are applied to fractures ; to tic up the processes of the peritoneum, with the spermatic vessels, in castration; and, lastly, in taking off warts or other excrescences by ligature. Ligature is also used to signify a kind of bandage or fillet, tied round the neck, arm, leg, or other part of the bodies of inen or beasts, to divert or drive off' some disease, accident, \&c.

Ligatures, among printers, are types consisting of two letters or characters joined together; as $f f, f i, f l$. The old editions of Greek authors are extremely full of ligatures ; the ligatures of Stcpheus are by much the most beautiful.

Light is that which renders objects perceptible to our sense of seeing. It is one of the most interesting subjects that fall under the contemplation of the philosopher: at the same time it must be acknowledged to be one that is as little understood, and upon which opinions are as much divided, as any of the most abstruse subjects of philosophical inquiry. Some consider light as a fluid per se; while others consider it inerely as a principle, and attribute to it a sort of pression, or vibration propagated from the lumninous body through a subtile, ethereal medium. The ancients believed it to be propagated from the sun and other luminous bodies instantancously; but the observations of the moderns have shown that this was an erroneous hypothesis, and that light, like any other projectile, employs a certain time in passing from one part of space to another, though the velocity of its motion is truly astonishing, as has been manifested in various ways. And first, from the eclipses of Jupiter's satellites; it was observed by Rœmer, that the eclipses of
those satellites liappen sometimes sooner and sometimes later than the times given by the tables of them, and that the observation was beforc or after the computed times, according as the earth was nearer to or farther from Jupiter than the mean distance. Henec it was concluded that this circumstance depended on the distance of Jupiter from the earth; and that, to account forit, we must suppose that the "ight is 14 minutes in crossing the carth's orbit. The original observations have received some corrections, and it is now found that, when the carth is exactly between Jupiter and the sun, his satellites are secn eclipsed about cight minutes and a quater sooner than they could be according to the tables; but when the earth is nearly in the opposite point of its orbit, these eclipses happen about eight minutes and a qualter later than the tables predict them. Hence, then, it is certain that the motion of light is not instantaneous, but that it takes up about $16 \frac{1}{2}$ minutes of tine to pass over a space equal to the diameter of the carth's orbit, which is nearly $190,000,000$ of miles in length, or at the rate of 200,000 milcs per second-a couclusion which, it may be added, is placed beyond doubt, by the aberration of the stars discovered by the celebrated doctor Bradley. Upon the subject of the materiality of light, doctor Franklin observes, in expressing lis dissent from the doctrine that light consists of particles of matter continually driven off from the sun's surface, with such enormous swiftness"Must not the smallest portion conceivaable have, with sucl a motion, a force exceceling that of a 24 poumder discharged from a cannon? Must not the sun diminish exccedingly by such a waste of matter, and the planets, instead of drawing nearer to him, as some have feared, reccde to greater distances, through the lessened attraction? Yet these particles, with this anazing motion, will not drive before them or remove the least and slightcst dust they meet with, and the sun appears to continue of his ancicnt dimensions, and his attendants move in their ancicut orbits." He thereforc conjectures that all the phenomena of light may be more properly solved, by supposing all space filled with a subtile elastic fluid, not visible when at rest, but which, by its vibrations, affects that fine sense in the eye, as those of the air affect the grosser organs of the ear ; and even that diffcrent degrecs of vilbation of this medium may cause the appearances of different colors. And the celebrated Euler has maintained
the sume hypothesis, urging some further objections to the materiality of light, besides those of doctor Franklin above alluded to. Newton first discovered that certain bodies excrecise on light a peculiar attractive force. When a ray passes obliquely from air into any transparent liquid or solid surface, it undergoes, at its entrance, an angular flexure, which is called refraction. The variation of this departure from the rectilineal path for any particular substance, depends on the obliquity of the ray to the refracting surface; so that the sine of the angle of refiaction is to that of the angle of incidence in a constant ratio. Newton, having found that unctuous or inflammable bodies occasioned a greater deviation in the luminous rays than their attractive mass, or density, gave reason to expect, conjectured, that both the diamond and water contained combustible mattera conjecture which was verified by sulsequent discovery. Doctor Wollaston invented a very ingenious apparatus, in which, by means of a rectingular prism of flint glass, the index of refraction of each substance is read off at once by a vernier, the thrce sides of a movable triangle performing the operations of reduction in a very compendious mamucr. (Phil.Trans., 1802.) But transparent media occasion not merely a certuin flexure of the white sunbean, called the mean refraction : they likewise decompose it into its constituent colors. This effect is called dispersion. Now, the mcan refractive and dispersive powers of bodies are not proportional to each other. In some refracting media, the mcan angle of refraction is smaller, whilst the angle of dispersion is larger. From the refiactive power of bodies, we may, in many cases, infer their chemical constitution. For discovering the purity of cssential oils, an examination with doctor Wollaston's instrument is of great utility, on account of the smallness of the quantity requisite for trial. This idea of doctor Wollaston has been happily prosecuted by M. Biot with regard to gaseous compounds; and we now have accurate tables of the refractive power of all transparent gaseous, liquid and solid bodies. Carburet of sulphur exceeds all fluid substances in refractivc power, surpassing cven flint glass, topaz and tourmalin; and in dispersive power, it exceeds every fluid substancc except oil of cassia. Rays of light, in traversing the greater number of crystallized bodics, are commonly split into two pencils; one of which, called the ordinary ray, follows the common laws of refraction, agreeably to the tables alluded
to, whilst the other, called the extraordinary ray, obeys very different laws. This phenomenon is produced in all transparent crystals, whose primitive form is neither a cube nor a regular octahedron. The division of the heam is greater or less, according to the nature of the crystal, and the direction in which it is cui; but, of all known substances, that which produces this phenomenon in the most striking manner, is the crystallized carbonate of lime, called Iceland spar. If the white sunbean, admitted through a small hole of a window-shutter into a darkened room, be made to pass through a triangular prism of glass, it will be divided into a number of splendid eolors, which may be thrown upon a sheet of papcr. Newton ascertained that if this colored image, or spectrum, as it is called, be divided into 360 parts, the red will occupy 45 , the orthge 27 , the yellow 48 , the green 60 , the hure 60 , the indigo 40 , and the violet 80 . The red rays, being least bent by the prism from the directionof the white bean, are said to be least refiacted, or the least rcfiangibe, while the violet rays, being always at the other extremity of the spectrun, are called the most refrangible. If these differently colored rays of light be now coneentrated on one spot, by a lens, they will reproduce colorless light. Newton ascribes the different colors of bodies to their power of absorbing all the primitive colors, exeept the peculiar one which they reflect, and of which color they therefore appear to our eye. The different colored riẹs possess very different powers of illuminution. The lightest green, or deepest yellow, which are near the centre, throw more light on a printed page than any of the rays to wards eitherside of the spectrun. The rays of the prismatic spectrum differ from onc another also in their heating power, as was first noticed by Herschel. In viewing the sun, by means of large telescopes, through differently colored darkening glasses, he sometimes expcrienced a strong heat, attended with very little light, and, at other times, he had a strong light with a little heat. This observation led to his well known researches upon this subject, from which he concluded that the maximum heat is just without the spectrim, beyond the red ray. Others have fomd the greatest lieat in the red ray itself; but the recent observations of M. Seebeck have shown that the point of greatest heat was vamiable, according to the kind of prism which was employed for refracting the rays. When a prism of fine tlint glass is used, the greatest heat is constantly
beyond the red; when a prism of crown glass, the greatest heat is in the red itself. It las long been known, that the solar light is capable of producing powerful chemicul changes. One of the most striking instances of it is its power of darkening the white chloride of silver-an effect which takes place slowly in the diffused light of day, but in the eonrse of two or three minntes byexposure to the sunbeam. This effect was formerly attributed to the influenee of the luminous rays; but it appears, from the observations of Ritter and Wollaston, that it is owing to the presence of certain rays, that exeite neither heat nor light, and which, from their peculiar agency, are terned chemical rays. It is fomed that the greatest chemical action is excited just beyond the violet ray of the prismatic spectrum, and that the spot next in ener$g y$ is occupied by the violet ray itself, and that the property gradually diminishes as we advance to the green, beyond which it secms wholly wanting. The sumbeams, in traversing a eolored glass, produce similar effects to those caused by the differently colored portions of the spectrum. Thus the cliloride of silver acquires a black tint behind a blue or violet glass, but does not blacken behind a red or orange glass; on the other hand, it becomes red behind a red glass, and that much more quickly than even in the solar spectrum. light produced by coal and oil gases, or by olefiant gas, even when concentrated so as to produce a sensible degree of heat, was found, by Mr. Brande, to occasion no change in the color of muriate of silver, nor in mixtures of chlorine and hydrogen; while the light emitted by electrized charcoal speedily affected the muriate, and caused these gases to unite, and sometimes with explosion. The concentrated light of the moon, like that of the gases, produced no change. The importance of light to plants is well known: deprived of it, they become white, and contain an excess of saccharine and aqueous parti cles; and flowers owe the variety and in tensity of their lues to the influence of the solar beams. Even animals require the presence of the rays of the sun, and their eolors seem materially to depend upon the chemical influence of these rays. A comparison between the polar and tropical animals, and between the parts of their bodies exposed, and those not exposed to light, shows the correctness of this opinion. (For an account of the physical affections, and other chemical effects of light, see Optics, Phosphorescence, and Polarization of Light.)

Light, Aberration of. (See Aberration.) Light, Difiusion of its Particles. (Sec Divisibility.)
Ligut Cavalry, or Horse. (Sec Cavalry.)
Lighter; a large, open, flat-bottomed vessel, employed to carry goods to or from a ship.

Ligntfoot, John, a learned English divine, born 1602 , received his education at Christ-church, Cambridge. He made extraordinary advances in the Greek and Latin languages, and became curate of Norton-under-Hales. Sir Rowland Cotton made Mr. Lightfoot his chaplain, and took him into his house, where he applied limself to Hebrew with singular assiduity and success. In 1629, he printed his first work, entitled Erubhim, or Miscellanies, Christian and Judaical, whicl he dedicated to sir Rowland Cotton, who presented lim to the vicarage of Ashley, in Staffordshire. Here lie resided until liis appointment as one of the parliamentary assembly of divines rendered it necessary for himn to remove to Loudon. He warnly pressed the speedy settlement of the churcl, in the Presbyterian form. In 1655, he became vice-chancellor of Cambridge, and zealously promoted the polyglot Bible. After the restoration, he was appointed one of the assistants at the Savoy conference, where he, however, attended but once or twice, giving all his attention to the completion of his Harmony. He died Dec. 6, 1675. The works of doctor Lightfoot, who, for rahbinical learning, has had few equals, were printed in 1684, in 2 vols., folio; and again, with additions, at Amstcrdam, in 1686; and by Leusden, at Utrecht, 1698, in 3 vols. An octavo volume of his remains was also published by Strype, which contains some curious particulars of his private life.

Lighthouses were in use with the ancients. The towers of Sestos and Abydos, the colossus of Rhodes, the well-known tower on the island of Pharos, off Alexandria, are examples. Suetonius also mentions a lofty tower at Ostia, and another on the coast of Batavia, erected for the purpose of guiding the mariner by their light. In lighting a great extent of coast, it becomes necessary to provide for the distribution of the lighthouses in such a manner, that they may be readily distinguished from each other, and, at the same time, so disposed as not to leave ressels without some point by which to direct their course; and, in constructing each member of the scries, care should be taken to provide for a sufficient billiancy of light, and for
means of distiuguishing each lighthouse from every other, as well as from other lights on shore or in ships, or in the heavens. The best constructed lighthouses, in Great Britain, are fitted up with parabolic reflectors, consisting of a circular sheet of copper, plated with silver, in the proportion of six ounces to each pound of copper, and formed into a parabolic curre, by the assistance of a gauge, by a rery nice process of hammering. The reflector, thus shaped, is then polished with the hand. An Argand lamp is placed in the focus of the paraboloidal surface, and the oil is supplied by the lamp behind. But the disadvantages of this mode arc acknowledged; such as the loss of light, partly from its absorption by the reflector, and partly from the collision of the rays; the impossibility of increasing the intensity of the light in dark and hazy weather; the difficulty of forming distinguishing lights, \&c. The important invention of the polyzonal lenses, in which refraction is employed instead of reflection, seems, therefore, likely to supersede the use of reflectors. This subject is treated by Brewster (Transactions of the Royal Society of Edinburgh, vol. xi), and by M. Fresnel, in a memoir read before the academy of sciences at Paris-Sur un nouveau Système d'Eclairage des Phares (1822)-and the imperfections of the parabolic reflectors, and the superiority of the polyzonal lenses over others, are explained. Another important problen is the construction of distinguishing lights, so that the mariner may not be deceived in taking one lighthouse for another. Single and double stationary lights, or lights disposed in different forms, were first cmployed: revolving lights were next adopted, which appeared and disappeared at intervals; and these are somctimes exhibited double or triple. The lights nay be so disposed as only to illuminate the safe channel. Difference of color is sometimes made use of as a distinetion. It sometimes becomes desirable, as in hazy weather, to produce a very intense lighlt. A plan was proposed, to effect this object, by lieuteuant Drummond (Philosoph. Trans., 1826), by directing upon a ball of chall, a quarter of an inch in diametcr, three alcoholic flames, by means of a stream of oxygen. The employment of gas, in liglthouses, has also been recommended.

Floating Light differs from the preceding by its being erected on board a vessel, which is strongly moored upon a sand or shallow, to waru ships against upproaching it.

Light Infantri ; a name given to all foot-soldiers not intended to fight in column, or, at least, to fight chiefly as sharpshocters. They are, in some armies, the opposite to grenadiers. However, light mjantry is not a distinguishing name, according to the present organization of armies. (Sce Infantry, Tirailleurs, and Grenadier.)

## Lightnivg. (See Electricity.)

Lightning-Rod. (See Conductor.)
Ligitwood; a name given, in Aneriea, to the knots and other resinous parts of pine trees.
Ligne, Charles Joseph, prince de, a brave soldier and talented author, was horn at Brussels, in 1735. The prince de Ligne devoted his early years to the study of the elassics and the science of war. In 1755, he entcred the Austrian serviee, and served as eaptain till 1758. In 1759, he was made colonel. At the end of the war, he was stationed in the Netherlands, with the rank of major-general, and the count d'Artois invited him to the French court, where his society was generally sought, and he was admitted into the privacy of the royal family. He visited England and Italy. In 1770, he was present at the meeting of Frederic the Great with Joseph II, in Silesia. On a visit to l'etersburg, he received great honors from the empress. His conduct in the Netherlands had made him very popular. He accompanied the empress Catharine to Cherson. At the commencement of the war with the Tinks, he was Austrian ambassador to the Russian army; afterwards, he commanded part of the army which besieged and took Belgrade. He died Dec. 13, 1814. He has given listorical accounts of sereral battles in which he took an active part. His knowledge, experience, activity, and acute observation, appear in his numerous writings, of which 30 volumes were published, at different periods, on a variety of subjects, in verse and prose, in the French language. Madame de Staël edited a selection from them. He gives much information on the leading persons and events of his time, in an amusing and instructive manner.

Lignemitite. (See Guaiacum.)
Ligny, Battle of, on June 16, 1815. (See Quatrebras, and Waterloo.)

Liguori, Alphonso Maria de, born at Naples, Sept. 26, 1696, and founder of the sect called Ligorists, or Redemptorists, was originally a lawyer; but some unpleasant eircumstances in his profession induced him to become a priest, in 1722. He soon
joined the Congregation for the Propagation of the Faith, which had been instituted in Naples, and occupied himself as a missionary in the instruction of the ignorant peasantry: In 1739, he founded a monastery in the hermitage of St. Mary, at Villa Scala (in the Principato Citra), with the approbation of the pope, the members of which were called the order of the most holy Redeemer, aul were to be employed in the instruction of the people. This new order soon extended over both Sicilies. 'The first houses belonging to it were at Salerno, Conza, Nocera and Bovino. For a long time this order, so much like the Jesuits, was unknown beyond the limits of ltaly, till, in 1811, they took possession of the sup. pressed Carthusian monastery at ValSnint, in the canton of Friburg, the ocenpants of which (some Trappists) had bern expelied. They subsequently appeared in the Austrian dominions, and even in the eapital, where they now have a rich establishment. Lignori was, in 1762, appointed bishop of Santa Agata de' Gotici (in the Principato Ultra), by Clement X1II, from which office he was released by Pins V1, in 1775, at his own request, being old, sickly, and so exlausted by fasting and penance, that he was no longer able to perform the duties of his office. He rctired to the ehief foundation of his order, at Nocera de' Pagani, and died there, Aug. 1, 1787, at the advanced age of 90 years. Since 1816, his name las been enrolled in the Romish calendar of saints. 1 lis writings, which are of an ascetic character, have appeared, partly at Naples, and partly at Venice.

Liguria, with the Romans, was that portion of the north of Italy, extending along the Mediterranean, from the borders of France to the city of Leghorn, and bounderl, on the north, by the river Po. $\ln 1797$, the aristocratic republic of Genoa received from Bonaparte a democratic ennstitution, under the uppellation of the Ligırian republic. This repullie ceased to exist in 1805 , when the emperor incorporated it with France. Since 1814, ir has formed part of the kingdom of Sardinia.

Lilac (symnga). This beautiful and fumiliar shrub, the ornament of our gardens, is a native of Persia and the surrounding countries. It belongs to the diundria monogynia of Linnæus, and to the natural family jasminece, in which are included the olive, the privet and the jasmine. The corolla is funnel-shaped, aud divided into four segments; the leaves
are opposite ; and the flowers are agreeably seented, and disposed in large pyramidal raecmes, of a bluish or purplish color. It is of easy culture. Three other species of syringa are known, all from the Eastern continent.

Lalburye, John, a republiean, during the time of Charles I and Cromwell, born in 1618, was plaecd with a clothier in London. Of a bold, unquiet and forward temper, one of his first exploits was to summon his master before the city chamberlain for ill usage. He employed lis leisurc in studying the religious systems and controversies of the time; and the Book of Martyrs, in partieular, inspired him with an enthusiastic passion for encountering all sorts of danger in the cause of truth. Dr. Bastwick, then under star-ehamber prosecution, employed hinı to get anti-episcopal strictures printed in Holland. On his return, le employed himself in similar occupations, but, being betrayed by all associate, he was tried before the star-chamber, where his deportment was so firm that he aequired the appellation of free-born John. He was doomed to receive 500 lashes, and stand in the pillory, which sentence was execnted, in April, 1638 , with great severity. On the meeting of the long parliament, a vote passed the housc of commons, pronouncing the sentcnec against Mr. Lilburne barbarous and illegal, and that reparation should be made to him for his sufferings and losses. He then served in the parliamentary army. Dislike to the measures of Fairfax and Cromwell, induced hinı soon after to lay down his sword, but it was only to take up the pen against all whose political conduct offeuded him. Being committed to Newgate for contempt, when brought before the house of lords for a libel on the earl of Manchester, he contrived, while thus immured, to publish pamphlets in rapid suceession, in which he virulently assailed his enemies, and even made a chargc of high treason against Cromwell and Ireton. For this he was ordered to be tricd for seditious practices; but so active and numerous were his friends among the pcople, that, in 1648, the house of commons thought fit to discharge him, and make an order for reparation for his sufferings. At the time of the king's death, he busied limself in drawing up a new constitution, and boldly maintained the rights of the people against the army. So dangerous did he appear to Cromwell and his council, that he was again committed for high treason, but, being tried before a special
committee, the jury boldly aequitted him. A new offence which he gave the parliament, induced that body to pass a leary fine on him, with an order to quit the country ; on which he retired to Holland, until it was dissolved, when he used all his interest to gain a passport, but, not succeeding, he ventured home without one. Being apprehended, he was again committed to Newgate, and once more tried at the Old Bailey, where he defended himself so ably that he was once more acquitted. He then settled at Eltham, in Kent, became a Quaker, and preached at the meetings of that body at Woolwich, until his death in 1657, at the early age of 39 .

Lille, Comte de; the name which Monsieur (conte de Provence, afterwards Louis XVIII) adopted when he emigrated, during the life of Louis XV1. He was styled thus also by the French imperial government, and in the Moniterr.

Lallo, George, an English tragic poet, borı 1693 , in London. He was by trade a jeweller, but, notwithstanding his atten tion to business, he dedieated a consider able portion of his time to the cultivation of thic drama. Ficlding, the author of Tom Jones, himself a dramatist, and the contemporary and personal friend of Lillo, bcars strong testimony to the integrity of his heart, as well as to the excellence of his soeial qualities. An edition of his plays was published, in 1775, by Davies, in two volunies, 12 mo . The principal are George Barnwell, or the London 'Prentice, a tragedy founded on an incident in domestic life, said to have taken place at Camberwell (this play, till within these few years, it was always customary to represent on lord mayor's day); Fatal Curiosity, also said to be founded in fact; Arden of Feversham, which was certainly so ; and Elmeric.

Lilly, John, a dramatic writer, born about 1553, studied at Oxford and Cambridge. He attempted to reform and purify the English language in two fantastic productions entitled Euphues and his England (1580), and Euphues and his Anatomy of Wit (1581), which met with great success. A specimen of Euphuism may be scen in the character of sir Piercie Shatton, in the Monastery of sir Walter Seott. Lilly was also the author of a famous pamphlet against Martin Marprelate and his party, entitled Pappe with a Hatehet, published about 1589, and attributed to Nashe. (See Warton's Hist. of English Poetry; Ellis's Specimens.)

Lilly, Willian, a famous Englisl! as-
trologer, born at Diseworth, in Leicestershire, in 1602, went early to London, where his necessities obliged him to article limself as servant to a mantuamaker in St. Clement Danes. In 1624, he became book-keeper to a tradesman who could not write, on whose death he married his widow, with a fortune of $£ 1000$. In 1632, he turned his attention to astrology; and he gave the public a specimen of his skill, by an assurance, in 1633, that the king liad chosen an unlucky horoscope for his coronation in Scotland. About this time, he procured a manuscript copy of a book by Cornelins Agrippa, entitled Ars notoria, fiom which he imbibed the doctrine of the magic circle, and invocation of demons. In the sanue year, 1634 , he was allowed, by the dean of Westminster, to assist David Ramsay, the king's clock-maker, in search of a hidden trcasure in Westminster abbey, another associate being found in one John Scot, who pretended to understand the mystery of miners' divining rods. These three worthies accordingly made the experiment on the night appointed, and, after digging up a cothin to no purpose, they were finghtened from the place by a violent storm, which Lilly, in the sequel, attributed to demons, whom he had found means to dismiss. In 1644, he published his Merlinus Anglicus, which he continued, annually, until lis death. Having acquired the friendship of Bulstrode Whitlock, he devoted himself to the interests of the parliament, although he occasionally varied his predictions, in order the more easily to impose on the credulity of the age. In the year 1648, Lilly and Booker, another astrologer, were sent to the camp at Colchester, to encourage the soldicrs by their predictions; and such was his reputation, that he was rewarded for his various services (one of which was obtaining secret intelligence from France) with a pension of $£ 100$ per annum. About this time, he read public lecturcs on astrology, and succeeded so well, that he was enabled to lay out $£ 2000$ in fee-farm rents at Horsham. In 1659, such was the spirit of the age, he received the present of a golden chain from the king of Sweden, whom he had mentioncd with great respect in his almanac. On the restoration, Lilly was taken into custody by order of parliament, as one of the depositaries of the secrets of the republicans, and examined concerning the persons who beheaded the king, when he declared that he had been informed that cornet Joyce acted as the
executioner. A short time after, he suled out his pardon under the great seal, and retired to Horsham. In 1666, some of the members, suspecting, from the hieroglyphic to lis alnanac, that he might lnow something of the causes of the great fire which followed its publication, had him sent for to a committee of inquiry, when lie asserted that he had certainly foreseen the event, but could say nothing as to the eausc. His life, latcly republished, is a very entertaining production, steering, as lie does, between truth and falsehood, and seldom indulging in more of the latter than is necessary to support his character as an astrologer.
Lily; a magnificent genus of plants belonging to the hexandria monogynia of Linneus. The root is a scaly bulb; the leaves simple, scattered or verticillate; the stem lierbaceous, simple, and bearing, at the summit, very large and elegantly formed flowers. The corolla is campanulate, and consists of six petals, which are often reflexed at the extremity: Among the most beautiful of the specics, and indeed of all our garden phants, are the litium candidum, or common white lily; L. martagon, or Turk's cap; and L. tigrinum-all from the Eastern continent. The finest of our own species is the L. superbum, which grows, in marshes, to the height of six or eight feet, bearing reflexed orange flowers spotted with black, which, when numerous on the same stem, make a splendid appearance. Five other species, all of them bcautiful, inhabit the U. States.-The lily has ulways held a prominent place in emblematic language. In the middle ages, and in modem times, the white lily has been the emblem of chastity. Hence the Virgin Mary is often represented with a lily in her hand, or by her side. Garcias, the sixth king of Navarre, established an order of the lily in 1048, in honor of the Virgin, because her picture lad been found on a lily at Nogera, the royal residence. In the beginning of the fifteentl century, Ferdinand I of Arragon founded an order of the lily or flower-pots, the kuights of which wore a double chain, consisting of flower-pots filled with white lilies. The lily, or, rather, the fleur-de-lis, as is well known, is the emblem of the Bourbons, and of many other families. The form is well known, and there are various opinions respecting the origin of this emblem. Some think that the figures originally represented the heads of halberds, which they certainly much resemble. Some take them for the flowers
of the iris, which grow on the river Lys. They have even been taken for becs, or for toads. They were adopted, in 1179, by Louis VII. Philip-Augustus first used them on the royal seals. The settled use of three fleurs-de-lis began with Clarles VI. When the count d'Artois, afterivards Charles X , entered France, in 1814, the lily became a party cmblem. The adherents of the Bourbons wore a lily in the button-hole, susponded by a white riband. The French government subsequently distributed them with much profusion, on various occasions; as to pupils who appcarcd well at public examinations. After the battle of Waterloo, Louis XVIII offered Bläclrer to give the lily to every Prussian soldier; but he declined the honor. During the revolution of 1830 , the lily was not attacked, as the memory of Louis XVIII was respected ; but when the Carlists publicly celebrated the day of baptism of the duke of Bordeaux, the people, indignant at such a scene, destroyed the lily wherever it could be found. The government (Casimir Perrier being prime minister) ordered all the crosses and the lilies to be removed from the public edifices, \&c., though it had just before been in contemplation to introduce the fleurs-de-lis upon the tricolored banners.

Lima, the capital of the republic of Pcru, formerly called Ciudad de los Reyes (city of kings), is situated on the river Rimac, from which its present name is derived by a corrupt pronunciation, about 10 miles from the Pacific ocean; lon. $77^{\circ}$ $7^{\prime}$ W.; lat. $12^{\circ} 2^{\prime}$ S. ; population, according to Caldcleugh (Travels int South America), iu 1824, 70,000; according to Stewart (New York, 1831), who visited it in 1829, 50,000 . It is about 700 feet above the level of the sea, and presents a beautiful appearance from Callan, its port. The entrance is by a beautiful avenue, or public walk, called the alineda, at the end of which was a handsome gate, now in ruins. I'izarro, in laying out the city, distributed the spaccs for the houses into quarters, of 150 varas, or Spanish yards. The streets are broad, and uniformly intersect each orher at right angles, muning either from north to south or from east to west. Sinall strcams of water, conducted from the river above the town, and arched over, contribute to its cleanliness. On the opposite side of the river, connected with the city by a bridge, is the suburb of St. Lazarus. In conscquence of the frequency of the earthquakes by which Lima has suffered, the houses are seldom raised more than
two stories, and are commonly built of wood, with flat roofs, from which construction no inconvenience arises, in a country where rain is unkuown. The houses of the rich are built in a Moorish style, introduced from Spain. They consist of a square pile, of the height above-mentioned, enclosing a quadrangular court, which is surrounded with piazzas, and sometimes contains a second, or even third imer court. The Placa, or great square, in the centre of the city, is surrounded partly with shops, and partly with public buildings, among which are the cathedral, and the government, once the vice-regal palace, in which are shown the hall of assassination, where Pizarro was assassinated, and the hall of independence. The riches which have been lavished on the cathedral are almost beyond belief, any where but in a city which once paved a strcet with ingots of silver, in honor of a new viceroy. The Cabildo, or city-house, built in the Chinese style, the archiepiscopal palace, the mint, the palace of the inquisition (part of which is now occupied as a national museum), and the convent of the Franciscans, said to cover an eighth of the whole city, and which Mr. Stewart found almost deserted, are worthy of notice. Previously to the late changes, the number of monks in Li ma was reckoned at 1200 , but they are now very few. There are 14 convents for women, and a number of casas de exercicio, into which ladies retire for two or three weeks, to perform various acts of pious penance. A university was foundcd at Lima in 1551, which obtained from the crown of Spain the same privileges as that of Salamanca. The higher classes of the inhabitants are generally well educated, and the women are celebrated for their vivacity and beauty. Both sexes smoke; and this practice is excused, under the pretence that it is rendered necessary by the mists and drizzle (called, by sailors, Peruvian dew), which prevail at certain seasons. The mamners of the people are so loose as to be proverbial in that part of the world. Music, bull-fights and cards are the principal amusements; dancing, which is a favorite in many of the southern republics, not being popular with the Limanians. The Spaniards of Lima arc at present almost all Creoles, the Chapetones, or European Spaniards, having left the country during the troubles. In 1824 , there were 15,000 slaves in the city; but the new Peruvian constitution of 1828 abolished slavery. Lima has been repeatedly laid in ruins by earthquakes, more
than 20 of which it has experienced since 1582. The most destructive were those in $1586,1630,1665,1678$, when a great part of the city was totally destroyed; those in 1687,1746 , when not more than 20 houses out of 3000 were left standing, and of 23 ships, in the harbor of Callao, 19 were sunk; those in 1764, 1822 and 1828, the two latter of which were very destructive. (For the political events of which Lima has recently been the theatre, see La Mar, and Peru.)

Limb; the outermost border, or graduated edge of a quadrant, astrolabe, or such like mathematical instrument. The word is also used for the arch of the primitive cirele, in any projection of the sphere in plano. Limb also signifies the olltermost border or edge of the sun and moon; as the upper limb or edge, the lower limb, the preceding limb, or side, the following limb.

Limbo (from the Latin limbus, edge, border) signifies, in the Roman Catholie theology, the place on the borders of hell, where the patriarehs remained, until the advent of Christ, who, before his resurrection, appeared to them, and opened the doors of heaven for them. It is not a dogma of the ehureh, but is universally adopted by the Roman Catholies. The word limbus is neither found in the Bible, nor in the aneient fathers of the chureh; yet, as St. Paul says that Christ descended to the lower parts of the earth (Ephes., c. 4, v. 9 ), it is concluded that good and bad were there; and as the parable of the rich man says, that, between Abraham and Lazarus and the rich man, a great gulf was fixcd, it is concluded that the good in those regions were not only not tormented, but were separated from the wieked. This limbo is called limbus patrum. Some theologians adopt a limbus infantum, where those infants, who died without being baptized, go; but those who follow St. Augustine do not allow this separation of them from the damned, though they do not believe that they are tormented like the latter. It is not known when the word limbus first came into use; but, as inferi (hell) seemed to convey the idea of eternal damnation as a punishment, a inilder term was adopted. Dante, in his great poem, allows the virtuous heathens to dwell in the limbus: thus he finds Socrates there.-Limbo, figuratively, means any place of confinement or restraint. Milton's limbo-"large and round, since called the paradise of fools, to few un-known"-is borrowed from the limbus of the scholastic theologians, and Ariosto's receptacle of lost things.

Limburg; the name of several places and provinees, of which we shatl only mention the province of the Netheriands, containing 1600 square miles, and 293,000 inhabitants, chiefly Catholics. The Walloon, Flemish, Dutch and German languages are spoken. The principal river is the Mcuse. Maestricht is the capital. The celebrated Limburg cheese is made at Limburg, a place in the circle of Verviers, province of Liege (q. v.).

Lime, or Linden (tilia). The species of linden are large trees, with alternate, simple and cordate leaves, and flowers disposed on a common peduncle, which is inserted in the middle of a foliaccous bract. The Ameriean lime, or bass-wood, is a large and beautiful tree, inhabiting Canada and the northern parts of the Union, and very abundant on the borders of lakes Erie and Ontario. The leaves are cordate, acuminate, serrate and smooth. The flowers are yellowish, supported on long, pendulous peduncles, and add mueh to the beauty of the tree. The wood is white and soft, and is used for a few unimportant purposes.- Tbe white lime ( $T$ ? heterophylla) is a sinall tree, almost exclusively confined to the Western States, where it has usually received the same common names with the preeeding. It is distinguished by its large leaves and flow-ers.-The downy lime (1'. pubescens) inihabits a more southern district. In Carolina, Georgia and Lower Louisiana, it has received no specific appellation, other than that of lime. The leaves are truncated at the base, and very downy beneath, and the flowers numerous. The wood of both these species is soft, and has hitherto been employed for no important purposes. The wood of the European lime, however, though light and soft, like the rest, is smooth, close-grained, and much used by carvers and tumers. It is in great demand for the boards of leather cutters, and makes excellent charcoal for gunpowder and for painters. In some countries, the fibrous, imer bark is separated by soaking in water, and inanufactured into fishing-nets, mats, shoes and clothing; and the cordage made from it is said to be remarkably strong and elastic. The wood is sometimes eut into thin strips, and used in the manufucture of chip hats, which resemble those made of straw.

Lime. This earth, well known in its most important properties, from the remotest antiquity, exists in great abundance in nature. In treating of it in the present article, we shall first describe its chemical properties, and afterwards speak of its nat-
ural combinations with the acids, or of the minerals to which it gives rise. Linne is obtained with most facility from the native carbonate, from which, by a strong heat, the carbonic acid may be expelled. This process is conducted on a large scale with the different varietics of limestone, which are calcined or burnt, in order to obtain the caustic earth, or quicklime, as it is called. The lime thus obtained, however, is rarely pure cuough for chemical purposes. The chemist, therefore, when lie would obtain a very perfect article, calcines transparent crystals of carbonate of lime, or prepares it from solution, in the following manner: Marble or chalk is dissolved in diluted muriatic acid, leaving an excess of lime undissolved; ammonia is added, which precipitates any alumine or magnesia. The filtered solution is then decomposed by carbonate of potash, and the carbonate of lime, being washed with water and dried, is decomposed by a strong lieat. The line thus obtained is a soft, white substance, of the speeific gravity of 2.3. It requires an inteuse degree of heat for its fusion, which is effected only by the galvanic current, by the compound blow-pipe, or by a stream of oxygen gas, directed through the flame of an alcohol lamp. The light it emits, during fusion, is the strongest the chemist can produce; and it has, accordingly, been employed for a sigual light, and for facilitating the observation of distant stations, in geodetical operations. Its taste is canstic, astringent and alkaline. It is soluble in 450 parts of water, according to sir H. Davy; and in 760 parts, according to other chemists. The solubility is not increased by heat. If a little water only be sprinkled on new-burnt lime, it is rapidly absorbed, with the evolution of much heat and vapor. This constitutes the phenomenon of slacking. The heat proceeds from the consolidation of the liquid water into the lime, forming a hydrate, as slacked lime is now called. It is a compound of 3.5 parts of lime with 1.25 of water, or very nearly 3 to 1 . The water may be expelled by a red heat. Limewater is astringent, and somewhat acrid to the taste. It renders vegetable blines green; the yellow, brown; and restores to reddened litmus its usual purple color. When lime-water stands exposed to the air, it gradually attracts carbonic acid, and becomes an insoluble carbonate, while the water remains pure. If lime-water be placed in a capsule under an exliausted receiver, which also encloses a saucer of concentrated sulphuric acid, the water will be
gradually withdrawn from the lime, which will concrete into small six-sided prisms. Lime, submitted to the action of galvanism, in high intensity, afforded sir H. Davy satisfactory evidence of its compound nature. It was discovered, in common with the other earths, to consist of a metallic base, which he denominated calcium, and oxygen. The calcium was obtained, in these expcriments, in the state of amalgamation with mercury. On exposing the amalgam to the air or to water, oxygen was absorbed, and lime re-produced. In an experiment designed to obtain the base in an insulated state, by distilling the quicksilver from it, the tube broke while warm, and, at the moment that the air entered, the metal, which had the color and lustre of silver, look fire, and burnt with an intense white light. Lime, it used to be supposed, combined with sulphur and with phosplorus; but it rather appears that it is its base only that unites with these inflammables. The sulphurct of calcium is formed by heating sulphur with lime in a covered crucible. It is of a red-dish-yellow color. When thrown into water, mutual decomposition takes place, and a sulphureted hydro-sulphuret, of a yellow color, with a fetid odor; is produced. Phosphuret of calcium, or phosphuret of lime, as it has usually been called, is obtained in the following manner : a few pieces of phosphorus are placed at the bottom of a glass tube, which is then filled with small pieces of lime. The part of the tube where the lime is, is heated red-hot; and the phosphorus is then sublimed by heat. Its vapor, passing over the lime, decomposes it, and a reddish colored phosphuret of calcium is formed. This substance is remarkable for decomposing water, whencver it is dropped into it, causing an immediate production of phosphurcted hydrogen, which takes fire at the surface of the water. When lime is heated strongly in contact with chlorine, oxygen is expelled, and the chlorine is absorbed. For every two parts in volume of chlorine that disappear, one of oxygen is obtained. When liquid muriate of lime is evaporated to dryness, and ignited, it forms the same substance, which is the chloride of calcium. It is a semi-transparent, crystalline substance ; fusible at a strong red heat; a non-conductor of electijcity; has a very bitter taste ; rapidly absorbs water from the atmosphere, and is hence often employed, in chemical experiments, to deprive gases of any hygrometric vapor existing in them. Chlorine also combines directly with lime, forming the very im-
portant substance used in bleaching, formerly under the namc of oxymuriate of lime, but at present, and more correctly, called chloride of line. It is formed by passing chlorine gas over slacked limc. A great variety of apparatus has been, at slifferent times, contrived for favoring the combination of chlorine with slaeked lime, for the purposes of comincrec. In the opinion of doctor Ure, who has given particular attention to this manufacture, the following construction for subjecting lime-powder to chlorine is the best: It consists of a large chamber, eight or nine feet high, built of siliceous sandstone, having the joints of the masonry secured with a cement composed of pitch, rosin and dry gypsum, in equal parts. A door is fitted into it at one end, whiclı can be made air-tiglt lyy strips of cloth and claylutc. A window in each side cnables the operator to judge how the impregnation gocs on, by the color of the air, and also gives light for making the arrangements within at the commencement of the process. As water-lutes are incomparably superior to all others, where the pneumatic pressure is small, a large valve, or loor, on this principle, is recommended to be made in the roof, and two tumnels, of considcrable width, at the bottom of cach side wall. The apartment would thus be ventilated, without the nccessity of the workmen approaeling the deleterious gas. A great number of wooden slielves, or rather trays, eight or ten feet long, two fect broad, and one inch deep, are provided to receive the sifted slacked lime, containing, generally, about two atoms of lime to three of watcr. These sthelves are piled one over another in the chamber, to the height of five or six feet, cross-bars below each keeping them about an inch asunder, that the gas may have frec room to circulate over the surface of the powder. The alembics for generating the chlorinc, which are usually nearly spherical, are, in some cases, madc entirely of lead; in others, of two hemisphercs, joined together in the middle, the upper hanisphere being lead, the under one cast-iron. The first kind of alcmbic is enclosed, for two thirds from its bottom, in a leaden or iron case, the interval of two inches between the two being destincd to receive steam from an adjoining boiler. Those which consist below of cast-iron have their bottom direetly exposed to a very gentle fire. Round the outer edge of the iron hemisphere a groove is cast, into which the under edge of the leaden hemisphere fits, the joint being
rendercd air-tight by Roman or patent cement-a mixturc of line, clay and oxide of iron, scparately caleined and reduced to a fine powder. It inust be kept in close vessels, and mixed with the requisite water when used. In this leadeu dome, there are four aperturcs, cach secured by a water-lute. The first opening is about 10 or 12 inches square, and is shut with a leaden valve, with incurvated edges, that fit in the water-channel, at the margin of the hole. It is destined for the admission of a workınan to rectify any derangement in the apparatus of rotation, or to detach hard coneretions of salt fromi the bottom. The second aperture is in the centre of the top. Herc a tube of lead is fixed, which desccuds ncarly to the bottom, and down through which the vertical axis passes, to whose lower end the cross-bars of iron or of wood, shcathed with lcad, are attached; by whose revolution the materials receive the proper agitation for mixing the dense mauganese with the sulphuric acid and salt. 'The motion is communieated cither by the hand of a workman, applied from time to tine to a winch at top, or it is given by counecting the axis with wheel-work, impelled by a strcam of water or a steamcngine. The third opening admits the siphon-formed funnel, through which the sulphuric aeid is introduced; and the fourth is the orifice of the cduction pipe. The proportion of the materials for gellerating the chlorine is as follows: 10 cwt. of salt are mixed with from 10 to 14 cwt. of mangancse ; to which mixture, after its introduction into the alcmbic, from 12 to 14 of sulphuric aeid are added, in succcssive portions: that quantity of acid must, however, be previously diluted with water, till its specific gravity becomes about 1.65 . The cduction pipes from all the alembics terminate in a leaden chest, or cylinder, with which they arc connected by waterlutce, having a hydrostatic pressure of two or three inches. In this general diversori$u m$, the chlorine is washed from adliering muriatic acid, by passing through a little water; and, from this rescrvoir, the gas is conducted off by one gencral pipe, and delivercd into the top of the chamber containing the lime, wherc, in consequence of its gravity, it diffuses itself equally over powder spread out upon the shelves. Four days are required for making good markctable bleaching-powder. The manufacturer gencrally expects from onc ton of rock salt, employed as above, a ton and a half of good bleaching-powder. In using the chloride of lime for bleaching,
the colored cloth is first steeped in warm water, to clean it, and it is then repeatedly washed with a solution of caustic potaish, so diluted that it cannot injure the texture of the cloth, and which solution is thrown upon it by a pump. The cloth is then washed and steeped in a very weak solution of the bleaching-powder; again washed, acted on by a boiling ley, as before, and again steeped in the solution; and these operations are performed alternately several times. The cloth is, lastly, immersed in very dilute sulphuric acid, which gives it a pure white color; after which it is washed and dried. The chlorine is known to decompose water, whose hydrogen forms with it muriatic acid, which is always found in the solution (after the process) when liquid cllorine is used, and a muriate, whicn a chloride is cmployed. In a similar manner, it is believed to decompose the coloring inatter, one of whose elements is always hydrogen; and, its composition being thus subverted, it disappears from the fabric with which it existed. Still more important is the use of the chloride of lime in counteracting contagion, and all noxious effuvia. MM. Orfila, Lescure, Gerdy and Hennelle, having to examinc the body of an individual who was supposed to have been poisoned, and who had been dead for nearly a month, found the smell so insupportable, that they were induced to try the application of the chloride of lime, as recommended by M. Labarraque. A solution of this substance was frequently sprinkled over the body, and produced the effect of destroying, after a few aspersions, every unpleasant odor. It was afterwards used in a still inore desperate case, in clearing some offensive drains in Paris, with perfect success. It was also found to be the best and most durable means of disinfecting hospitals, \&c. In such cases, the powder is so exposed to the infected region as to offer the greatest amount of surface, in order that the carbonic acid of the contagious atmosphere may expel the clilorine from the cliloride of lime, which it does by combining with it to form carbonate of lime. A very convenient method of applying it to ordinary apartments, which we are desirous to free from unwholesome cflluvia, is to diffuse about four ounces of the powder through five gallons of watcr, and sprinkle it over the floor by means of a water-pot. lime combines with the acids, neutralizing the acid properties. Its salts are, in gcueral, decomposed by potash or soda, which precipitate the lime, but not by amwhich precip
vol. vir.
monia. Oxalic acid throws down lime from all the other acids; and, this compound being quite insoluble, oxalic acid forms the most delicate test of the presence of lime. Carbonate of lime may be formod by adding carbonic acid to limewater, or by decomposing any of the soluble salts of lime by any of the alkaline carbonates. It is very sparingly soluble in water. Hence lime-water is an excellent test of the presence of carbonic acid. By an excess of carbonic acid, carbonate of lime is rendered soluble. When exposed to heat, it first loses what water it contains, and, if transparent and hard, becomes white, opaque and friable. If the heat be auginented, the carbonic acid is cxpelled, aud quick-lime remains. The experiments of sir J. Hall have proved that if carbonate of lime be heated under strong pressure, so as to prevent the escape of the carbonic acid, it may be melted at a temperature even not higher than $22^{\circ}$ of Wedgwood's scale. By this fusion, it acquires considerable hardness and closeness of texture, approaching, in these qualities, as well as in fracture and specific gravity, to the finer kinds of marblc. The acids expel the carbonic acid with effervescence; and this property of effervescing strongly, on the contact of an acid, affords a discriminating character of this salt. Carbonate of lime abounds in nature. Nitrate of lime may be formed by dissolving lime, or its carbonate, in dilute nitric acid. The solution, on evaporation, affords deliquescent, prismatic crystals, soluble in less than an equal weight of water, at the temperature of $60^{\circ}$, and in still less of boiling water. On being heated, it becomies phosphorescent, and retains this property when cold, forming Balduvin's solar phosphorus. It forms naturally in the plaster of old buildings, and in the limestone caverns of the Western States. Sulphate of lime is formed by adding lime to dilute sulphuric acid. It requires about 500 times its weight of water, at $60^{\circ}$, for its solution. At the temperature of $212^{\circ}$, it is morc soluble, and this latter solution, on cooling, deposits minute crystals. Exposed to heat, it appears to effervesce, or boil, owing to the expulsion of its water; and, at the same time, becomes opaque, and falls into a white powder, which, on being diffused in water, speedily consolidates from a species of irregular crystallization. Sulphate of lime is one of the most abundant minerals in naturc. Phosphate of lime may be formed by decomposing the solution of an alkaline phosphate by muriate of lime. It is a white, insoluble
powder, which is imperfectly vitrified by a very intense heat. It exists in the mineral kingdom, under diffcrent forms, and constitutes 86 per cent. of the bones of animals. Muriate of lime is obtained by dissolving carbonate of lime in muriatic acid. It is extremely soluble in water, the water taking up so much of it as to bccome of a thick consistence.-Lhine in Agriculture. Quicklime, in its pure state, whether in powder, or dissolved in water, is injurious to plants. Grass is killed by watering it with lime-water. But lime, in its state of combination with carbonic acid, is a useful ingredient in soils. When lime, whether freshly burnt or slacked, is mixed with any moist, fibrous, vcgetable matter, there is a strong action between the lime and the vegetable matter, and they form a kind of compost together, of which a part is usually soluble in water. By this means, matter which, was, before, comparatively inert, becomes nutritive; and, as charcoal and oxygen abound in all vegetable matters, the lime bccomes converted into a carbonate. Mild lime, powdered limestonc, marls, or chalks, have no action of this kind upon vegctable matter; by their action they prevent the too rapid decomposition of substances already dissolved; hut they have no tendency to form soluble matter. From these circumstances, it is obvious, that the opcration of quicklime and marl or chatk, depends upon principles altogether different. Quickline, in the act of hecoming mild, prepares soluble out of insoluble matter. It is upon this circumstance that the operation of lime, in the preparation of wheat crops, depends, and its efficacy in fertilizing peats, and in bringing into a state of cultivation all soils abounding in hard roots, or dry fibres, or inert vegetablc matter. The solution of the question, whether quicklime ought to be applied to a soil, depends upon the quantity of incrt vegetable matter it contains. The solution of the question, whether marl, mild lime, or powdered limestone, ought to be applied, depends upon the quantity of calcareous inatter already in the soil. All soils are improved by mild lime, and, ultimately, by quicklime, which do not effervesce with acids; and sands are more benefited by it than clays. When a soil, deficient in calcareous matter, contains much soluble, vegetable manure, the application of quicklime should always be avoided, as it either tends to decompose the soluble matters by uniting to their carbon and oxygen, so as to become mild lime; or it combines with the soluble matters, and
forms compounds having less attraction for water than the pure vegetable substancc. The case is the sainc with respect to inost animal manures; but the operation of the lime is different, in different cases, and depends upon the nature of the animal matter. Lime forms a kind of insoluble soap with oily matters, and then gradually decomposes them by separating from them oxygen and carbon. It combines, likewise, with the animal acids, and probably assists their decomposition by abstracting carbonaceous matter from them, combined with oxygen ; and consequently, it must render them less nutritive. It tends to diminish, likewise, the nutritive powers of albumen, from the same causes, and always destroys, to a certain extent, the efficacy of animal manures, eitlicr by combining with certain of their elements, or by giving to them new arrangements. Llme slould never be applied with animal manures, unless they are too rich, or for the purpose of preventing noxious effluvia. It is injurious when mixed with any common dung, tending to render the extractive matter insolublc. In those cases in which ferincntation is uscful to produce nutriment from vegetable substances, lime is always efficacious, as with tanners' bark. (For the use of lime in building, see Mortar.) Lime is much used by tanners, skimners, \&c., in the preparation of their leather; by soap-boilers, for dissolving the oil, and facilitating its union with the alkaline salt; and by sugar-bakers, for refining their sugar. It is also of some medicinal use, being applied externally in desiccative and epulotic medicines.
Native Salls of Lime, or Calcareous Minerals.-Of these, the first dcserving of mention is the carbonate of lime, limestone, or rhomboidal limestone. This species, in mineralogy, is one which, from its wide distribution, and the immense masses in which it frequently occurs, constitutes an important rock in geology. Its mineralogical character may be expressed as follows: Fundamental or primary form, an obtuse rhomboid of $105^{\circ} 5^{\prime}$ and $74^{\circ} 55.5$; secondary crystals (of which above 600 are, at present, known) are some variety of the rhomboid, the sixsided prism, or of a double six-sided pyramid, all of which afford the primitive rhomboid, by cleavage, with the most perfect facility. No sjecies in mineralogy is so interesting to the crystallographer as the present. To it we owe our first correct ideas of the internal structure of crystals, and the best theory of crystalliza-
tion which has ever been suggested. Lustre vitreous; prevalent color white, also different shades of gray, red, grecn and yellow, and dark brown and black colors, from foreign admixtures; streak grayish-white ; transpareut to translucent ; double refraction very considerable and easily obscrved; brittle; hardness such as to admit of being easily impressed by the knife; specific gravity, 2.72. Besides occurring in distinct crystals, it exists in stalactitic, botryoidal and fruticose shapes, with surfaces uneven, drusy, rouglı or smooth ; and composition columnar, more or less distinct, straight, diverging, and of various sizes. Stalactitic and botryoidal varieties are often composed, a second time, of curved lamcllar particles, conformably to the surface of the imitative shape, the faces of composition being uneven and rough, or irregularly streaked in a longitudinal direction. It also occurs massive; the composition being either columnar, in which the individuals are straight, parallel or diverging, and often of remarkable delicacy; or the composition is granular, the individuals being of various sizes, and even inipalpable. The individuals, in these varieties, cohere inore or less firmly. If the composition be impalpable, the fracture becomes splintery, uneven, flat, conchoidal, or even; on a large scale, it is sonietimes scaly. The fracture is earthy in those varieties in which the individuals coliere but slightly. The breaking up of this species into sul-spccies and varieties, which was practised by the older writers on mineralogy, and which has left us numerous particular denominations, and no little confusion, requires notice in this place. These distinctions, it will be seen, depended chiefly upon the mode of composition, and upon admixtures and innpurities with which the individuals have been affected during their formation. Of these, limestone represents the greater part of the pure varieties of the species. The simple varicties, and those compound ones in which the individuals are of considerable size, and easily cleavable, have been called calcareous spar; compound varieties of granular, still discerniblc individuals, are granular limestone ; both comprehended under the head of foliated limestone. If the granular composition disappear, compact limestone is formed, under which denomination the oolite, or roestone, was comprehended. The roundish grains, however, of the latter, consist of columnar individuals, disposed like the radii of a sphere, and frequently showing distinct traces of cleavage. Common fibrous lime-
stone is produced by columnar composition, in massive varieties; the fibrous calcsinter, by the same, but appearing in various imitative shapes. Peastone, or pisolitc, consists of diverging columnar individuals, collected into curved lamellar ones, forming globular masses, which are again agglutinated by a calcareous cement. Each of the globules, generally, contains a fragment of some heterogeneous matter, is quartz, granite, \&c. Compact limestone passes into chalk, when the individuals are more loosely connected with each other, so that the whole assumes an earthy appearance ; and rock milk, or agaric mineral, is formed, if the mass contains so many interstices that it seems to possess but a small degree of spccific gravity. Calcareous tufa, a recent deposit, formed on the surface of thc earth, is often cleavable, and thus possesses all the properties of calcareous spar. Slate spar is produced by a lamellar composition, in massive varieties, and often exhibits a pearly lustre. Swinestone, anthracolite, marl and bituminous marlite are impure and mixed varieties, partly of calcareous spar, partly of compact limestone. The pure varieties of rhomboidal limestone consist of lime, 56 , and carbonic acid, 43. Very oftell, the varieties contain variable proportions of oxide of iron, silica, magnesia, alumine, carbon or bitumen. If pure, it is entirely soluble in nitric acid, during which a brisk effervescence takes place. In the common fire, it is infusible, but loses its carbonic acid, and becomes burnt, or quick lime. Limestone rarely enters into the composition of rocks: in most cases, the more considerable masses of it form particular beds in other rocks, or constitute rocks themselves; the latter consist chicfly, though not exclusively, of compact limestone ; the former of granular limestone. The simple varicties occur in drusy cavities, more frequently in veins than in beds, accompanied with the varieties of different species. Calcareous tufa and rock-milk, being of a sintery formation, occur upon the surface, and in fissures of limestone rocks. Stalactitic and pisiform varieties are produced by calcareous springs and other waters. The mixed, or impure varieties occur in particular strata, between those of compound varieties of other species. It very often occurs in petrifactions, imbedded in compact varieties of the sane species. Rhomboidal limestone, as has already been remarked, is a species very widely diffused in nature; several of its varieties liave a considerable share in the constitution of mountains, in
many countries. This is particularly true in Switzerland, Italy, Carniola, Carinthia, Salzburg, Stiria, Austria and Bavaria, and in several parts of the U. States. Beds of granular limestone, in gneiss and mica slate, abound in all the New England states; also in New York, New Jersey and Pennsylvania; also of the compact limestone, upon lake Champlain, and throughout the vast district contained between the Alleghany mountains, the lakes, and the Mississippi. Of crystallized varicties, the most remarkable occur in Derbyshire and Cumberland, in the mining districts of Saxony and Bohemia, in the Hartz, in Carinthia, Stiria, Hungary and France, and, in the U. States, at Lockport in New York, forming geodes in compact limestone. Iceland is the locality of the purest and most transparent varieties, fiom whence come the best pieces of the doubly-refracting spar. The crystallized sandstone of Fontainebleau, in France, is a variety of rhomboidal limestone, meclanically mixed with sand. Slate-spar nccurs in Saxony, Norway and Cornwall, and, in the U. States, it Williamsburg and Southampton, Mass., in lead veins, as well as it the iron mine of Franconia, N. H. Pisolite is found in Carniola, and at Carlsbad in Bohemia. Most of the varieties are so common as to render the mention of their localities unnecessary. Several varieties of the present species are usefully employed for various purposes, partly depending upon their mechanical, partly upon their chemical composition. Those used in sculpture and in ornamental arclitecture, are called marble (q. v.) ; the more common or coarse varieties are used for the common purpose of building; a peculiar variety of very fine-grained compact limestone is used for plates in lithography. The best sort is found near Pappenlieim and Sohlenhofen, in Bavaria. Quicklime mixed with sand and water forms mortar (q. v.). Carbonic acid, for chemical purposes, is often obtained from chalk or marble powder. It is also a valuable addition in several processes of melting ores, and in producing certain kinds of glass. There is another species, in mineralogy, called Arragonite, which was formerly confounded with that just described. In composition, it is scarcely distinguished from rhomboidal limestone, the most accurate analyses having been unable to make known more than from .5 to 4.1 of carbonate of strontites in its composition, besides carbonate of lime. Its crystallization, and other characters, however, sufficiently characterize it as distinct from
limestone. It occurs in crystale, which, at first sight, appear to be regular sixsided prisms; but a close inspection will discover a longitudinal crevice down each lateral face, and somewhat similar appearances converging in the centre of the terminal planes. It also occurs in prismatic crystals, of four or six sides, terminated by planes, the prisms often being so short as to impart to the crystal the general form of an octahedron; these are rarely separate, but mostly cross each other at particular angles. Its crystals yield to niechanical division, parallel to the lateral planes of a right rhombic prism of $116^{\circ} 5^{\prime}$ and $63^{\circ} 55^{\prime}$, by measurements taken with the reflective goniometer, on cleavage planes. Lustre vitreous, inclining to resinous, upon faces of fracture ; color white, sometimes passing into gray, yellow, or mountain-green ; transparent or translucent ; brittle; hardness such as to scratch calcareous spar; specífic gravity, 2.93. It is very liable to occur in globular, reniform, and coralloidal shapes, and massive, with a columnar composition. Imbedded crystals, generally twins, or consisting of a greater number of individuals, are found in compound varieties of gypsum, mixed and colored with oxide of iron, accompanied with crystals of ferruginous quartz. Other varieties occur in the cavities of basalt and other trap rocks, in lavas, also in irregular beds and veins. It is found in beds of iron ores, in those coralloidal varieties which have been called fos-femi ; also massive and crystallized. The first, though they occur in cavities and fissures, are not products of a stalactitic formation. The most beautiful crystals, well defined and transparent, occur near Bilin, in Bohemia, in a vein traversing basalt, and filled with a massive variety of the same species, consisting of large columnar particles of composition. The varieties imbedded in gypsum have been found in the kingdom of Arragon, in Spain, from whence the name Arragonite has been derived. Its chief localities are the iron mines of Stiria, Carinthia and Hungary, and the metallic veins of the Pyrenees and England. It has been found, very sparingly, in the U. States. A few specimens of the coralloidal variety have been derived from the gypsum of Lockport, and from between the layers of gneiss, in the quarries of Haddam.Sulphate of lime, or gypsum, is a mineral little less extensively diffused than limestone, forming immense beds and veins, in numerous countries. It presents us witl a very considerable diversity of crys-
tals, which have, for their primary form, a right-oblique-angled prism, of which the bases are oblique-angled parallelograms of $113^{\circ} 8^{\prime}$ and $65^{\circ} 52^{\prime}$. The crystals are cither prismatic or lens-shaped, in their general aspect. Lustre vitreous, inclining to pearly ; color white, sometimes inclining and passing into smalt-blue, flesh-red, ochre-yellow, honey-yellow, and several shades of gray. Impure varieties assume dark-gray, brick-red, and brownish-red tinges. Transparent or translucent ; sectile; specific gravity, 2.31. It occurs massive, in globular masses, in which the individuals are discernible; also granular passing into impalpable. Those varieties of sulphate of lime which are pure, transparent, and perfectly formed, were formerly called selenite, while the more massive and impure varieties were denominated gypsum. The latter was again divided into several sub-spccies, comprehending, almost exclusively, compound varieties, which were easily distinguishable from each other, as their division depended upon the size of the grain, or composition in general. Thus foliated gypsum consists of discernible granular particles ; compact gypsum, of impalpable particles of composition; scaly foliated gypsum consists of minute scaly partieles; tarthy gypsum, of a mealy powder; very thin columnar composition producesfibrous gypsum. Bcfore the blow-pipc, gypsum exfoliatcs and melts, though witl difficulty, into a white enamel, which, after a short time, falls to powder. In a lower degree of heat, it loses its water, and becomes friable, so as to be easily reduced to an impalpable powder. If mixed with water, this powder becomes warm, and soon hardens into a solid mass. It is composed of lime, 33.0 , sulphuric acid, 44.8, and water, 21.0. The massive varieties of this species occur in beds, of a considerable thickness, in sccondary districts, in connexion with compact limestonc, different kinds of sandstone and clay, in alternating layers, in the latter of which the gypsuin somctimes exists in imbedded masses, or crystallinc groups. It is not rare to find dcposits of rock-salt in its viciuity; and brine springs very often issue from the contiguous rocks. Of the organic remains found in gypsum, those of extinct species of terrestrial quadrupeds, in the Montmartre, near Paris, are the most remarkable. It occurs in a great many countrics, particularly in Germany, Switzerland, Austria, Poland, England, France and Spain; in North Amcrica, in the U. States, at Niagara falls, Lockport,
and particularly in the vicinity of Cayuga lake; and in New Brunswick and Nova Scotia. Gypsum is variously employed in manufacturing artificial marble, stuccowork, mortar, \&c.; also for making casts of statues, medals, \&c. It is added to the mass of certain kinds of porcelain and glass. In seulpture, it is used under the name of alabaster. But next to its use in the formation of cements, is the use which is made of it in agriculture. It appears to have been first used as a manure in Germany, and afterwards in France, from whence it found its way into the U. States. It was formerly calcined, but is now ground in mills, after the manner of grain. It is particularly adapted to sandy soils and grass lands, and is very extensively used in the U. States. Another species of the same composition with the gypsum, except the water, is called anhydrite (q.v.). It is of comparatively rare occurrence. -Phosphate of lime, or apatite, is found crystallized in six-sided prisms, terminated by one or more planes, or the prism is terminated by a six-sided pyraınid, and the lateral edges are sometimes replaced by nunerous planes. It yields with difficulty to cleavage, parallel to the side of a regular six-sided prism, whiel is therefore considered as its primitive form. Lustre vitreous, inclining to resinous; color white, passing into blue, green, yellow, rcd and brown; transparent or transluecnt; brittlc; harduess above that of fluor; specific gravity, 3.22. It also oceurs massive. When in fine powder, it is slowly dissolved in nitric acid, and without effervesecnce. Some varieties are phosphorescent upon ignitcd charcoal, and before the blow-pipe; others even when rubbed with hard bodics. It does not melt alone, before the blow-pipe. It is composed of lime, 55.0 , and phosphoric aeid, 45.0. It usually occurs in beds and veins of iron and tin ores. Its principal localitics are Saxony, Bohemia, Salzburg and Cabo de Gata, in Spain; from which latter place very beautifully erystallized specinens are obtained, and which have received, from their color, the name of asparagus stone. It is also found at St. Gothard, and in Devonslire and Cornwall. It has but few and rather unimportant localities in the U. States. Amity and Saratoga, New York, have afforded the best specimens. Fluate of lime. (See Fluor.)-Tungstate of lime, or tungsten, occurs massive, and crystallized in the form of an octahedron with a square base. Lustre vitreous, inclining to adamantine; color generally
white, inclining to yellowish-gray ; translucent or transparent; brittle; hardness that of fluor ; specific gravity, 6 . ; infusible before the blow-pipe. It consists of lime, 19.40, oxide of tungsten, 80.42 . It is found in Bohemia, Saxony and Cornwall; also in the U. States, at Monroe, in Conn.Borate of lime. (See Boracic Acid.)-Arseniate of lime, or pharmacolite, is a very rare species in mineralogy, found in small quantity at Andreasburg, in the Hartz, and at one or two other places in Europe. It occurs in minute fibres, or acicular crystals, which are commonly aggregated into botryoidal or globular masses. Its color is white, or grayish-white, though often tinged of a violet-red, by arseniate of cobalt, which accompanies it. Specific gravity, 2.6. It consists of lime, 25., arsenic acid, 50.54 , and water, 24.46.

Limerick, a city on the Shannon, about 60 miles from its mouth, is about three miles in circumference. The principal public buildings are the custom-house, the cathedral, and the bishop's palace. The cathedral is of great antiquity. There are several charitable establishments ; also a good public library, and a theatre. It contains four Protestant churches, and eight chapels for the Roman Catholics. There is also an extensive barrack for 22 companies of foot and four troops of lorse. Limerick carries on manufactures of linen, woollen and paper. It was taken by the English in 1174. In 1651, it was taken by Ireton. In 1690, it was unsuccessfully besieged by king William in person. In 1691, it surrendered to general Ginkle, afterwards earl of Athlone. Population, from 50,000 to 60,000 , in which are 5000 Protestants ; 119 miles S. W. Dublin ; lon. $8^{\circ} 31^{\prime}$ W. ; lat. $52^{\circ}$ $36^{\prime} \mathrm{N}$.

Limit, in a restrained sense, is used by mathematicians for a determinate quantity , to which a variable one continually approaches ; in which sense, the circle may be said to be the limit of its circumscribed and inscribed polygons. In algebra, the term limit is applied to two quantities, one of which is greater, and the other less, than another quantity ; and, in this sense, it is used in speaking of the linits of equations, whereby their solution is much facilitated.

Liminag (from enluminer, French, to adorn books with paintings). As these paintings or illuminations were always executed in water-colors, limning properly designates that species of art which is now known by the name of minialure painting, though it is sometimes used to
signify the art of painting generally, and particularly portrait painting.

Limoges (Jugristoritum, or Lemovicum); a city of France, capital of the department of the Ifaute-Vienne, and formerly of the province of Limousin (q.v.) ; lat. $45^{\circ} 50^{\prime} \mathrm{N}$. ; lon. $1^{\circ} 16^{\prime} \mathrm{E}$. ; episcopal see ; 25,612 inliabitants. It is an ancient place, and contains some Gaulish and Roman remains. The hotel de ville, cathedral, and episcopal palace, are the principal public buildings. It is also the seat of several literary establishments, and has woollen, linen and cotton manufactures, with paper works, tanneries and iron forges. Several fairs are held here. Birthplace of the chancellor D'Aguesseau.

Limonade; a place and plantation in IIayti, very rich in sugar. It was elevated to a lordship by king Christophe, and bestowed upon his minister for forcign affairs, whom he made count de Limonade. With the death of Christoplie, the count de Limonade returned to obscurity, Though ridiculed by whites, on account of his title, he showed talents in the conduct of his office. It is not true that Christophe killed lim in 1817, as has been said.

Limonadiere; a very essential personage in a French cafe. (See Coffee-Houses, under Coffee.)

Limousin, or Limosin ; an ancient province in the centre of France. Limoges was the capital. It forms at present the chief part of the departments of HauteVienne and of Corrèze. (See Department.)

Lincoln, Benjamin; an eminent American revolntionary general, born at Hingham, Massachusetts, January 23, O. S., 1733. Until the age of 40 years, he was engaged in agricultural pursuits, and, at the commencement of our revolutionary struggle, in 1775, he held the office of lieutenant-colonel of militia. He was elected a nember of the provincial congress, one of the secretaries of that body, and also a member of the committee of correspondence. The council of Massaclusetts appointed him a brigadier, in 1776, and soon after, a major-general, when he employed himself industrously in arranging and disciplining the militia, at the liead of a body of whom, he joined the main army at New York, in October. By the recommendation of general Washington, congress appointed him a inajorgeneral in the continental forces. He commanded a division or detachment in the main army, under the commander-inchief, for several months, during which period he was placed in difficult situations. The commander-in-chief, in July

1775, despatched general Lincoln to the northern army, under Gates, to assist in opposing Burgoyne. Stationed at Manchester, in Vcrmont, Lincohn received and organized the New England militia, as they joined him. A detachment of 500 tnen from his troops, under colonel Brown, surprised the English at the landing at lake Gcorge, took 200 batteaux, with 293 men, and released 100 American prisoners. He then joincd general (Gates's army, of which he was second in command. Herc he was wounded in the leg, and his wound confined him at Albany for several months. After suffering the removal of a part of the main bone, he was conveycd to his residence at Hinghan. In the following August, he repaired to the head-quarters of general Washington, and was designated by congress to conduct the war in the southern department. He arrived at Charleston, in December, 1778, when he found his duties on that station to be of the most difficult nature. An army was to be formed, organized and supplied, that he might be enabled to contend with a veteran eneiny. General Prevost arrived with a flcet and nearly 3000 British troops, about the 28th of December, and, having defeated a small American force, under general Howe, took possession of Savannah. With the design of protecting the upper part of Georgia, Lincoln proceeded to Augusta in April; but the British commander, Prevost, marching upon Charleston, general Lincoln pursncd the same route, and, on arriving at that city, found that the enemy had retired from before it the preceding night. June 19, he attacked about 600 of the enemy, entrenched at Stono Ferry, but was repulsed. French forces arrived with the fleet under count D'Estaing, in the early part of September, 1779. Prevost having repossessed liinsclf of Savannah, an expedition was projected against that place, in conjunction with the French commander. For this purpose, nearly 3000 of the forcign auxiliaries were landed, to which gencral Lincoln added 1000 men from his own troops. The encmy, however, used every cxcrtion to strengthen the defences, and was reinforced while the commander was preparing the articles of capitulation to D'Estaign. 1 regular siege was then attempted; but, various considerations urging the necessity of speedy operations, a general assanlt was made by the combined French and American forces, under D'Estaign and Lincoln, on the morning of the 9th of October. Occurrences entircly accidental frustrated their hopes, and, af-
tcr planting two standards on the parapets, the allies were repulsed, the French having lost 700 and the Americans 240 , in killed and wounded.

After this unfortunate but bold assault, general Lincoln entered Charleston, and, in order to put it in a proper posture of defence, importuned congress for a reinforcement of regular troops, with additional supplies, but his requisitions were but partially granted. General sir Henry Clinton arrived in February, 1780, and, having debarked a strong force in the neighborhood, encamped before the American lines, March 30. Notwithstanding the great superiority of the enemy, general Lincoln determined to attempt the defence of his post, and, accordingly, to a demand of unconditional surrender, returned an immediate refusal, but was obliged to capitulate, May 12 , by the discontent of the troops and the inhabitants, the great superiority of numbers on the part of the enemy, and the expenditure of his provisions and ammunition, after a constant cannonade had been kept up for a month. For a fortnight previous to the surrender, he had not undressed to sleep. His reputation was too firmly established to be shaken by the disastrous termination of his southern campaign, and credit was given him for having for three months withstood the power of the British commanders, and so cffcctually retarded the execution of their future plans. Owing to the delay, North Carolina was saved for the rest of the year 1780. In November following, general Lincoln was exchanged for general Phillips, who had been taken prisoner at Saratoga. In the campaign of 1781, Lincoln commanded a division, and at Yorktown pcrforıned a conspicuous part. At that place, the army of Cornwallis capitulated to the combined forces of France and America, on similar terms to those which had been granted to general Lincoln at Charleston. On the latter was conferred the office of receiving the submission and directing the distribution of the conquered troops; and the day succeeding the surrender, bis services were commended in the general order of the commander-in-chief. In October, 1781, he was appointed by congress secretary of war, still retaining his military rank. He tendered his resignation of this office three years afterwards, which was received by congress with an expression of their approbation of his conduct both in the field and cabinet. General Lincoln then retired to his farm. In the year 1786-7, the governor of Massachusetts
appointed him commander of a body of militia, despatched to suppress the insurrection conducted by Shays and Day in that state. His dexterity and vigor in this transaction happily effected the object in view, with very little bloodshed, a few persons only being killed in a slight skirnish. In May, 1787, he was elected lieutenant-governor of his native state. He was a member of the convention for ratifying the federal constitution, and, in the suminer of 1789 , was appointed by president Washington collector of the port of Boston. He was a member of the American acadeny of arts and sciences, and of the Massachusetts historical society, to the publications of both which he contributed. He died in 1810.

Lindsay, or Lyndsay, sir David, an ancient Scottislı poet, descended from a noble family, was born in 1490. He entered the university of St. Andrew's in 1505, and, in 1509, became page of honor to James V, then an infant. In 1528, hic produced his Dremc, and, in the following year, presented his Complaynt to the king. In 1530, he was inaugurated Lyon king-at-arms, and knighted, and, in 1531, sent on a mission to Charles $\mathbf{V}$, on his return from which he married. He soon after occupied himself on a drama, of a singular kind, entitcd a Satyre of the Three Estatis, which was followed, in 1536, by his Answer to the King's Flyting, and his Complaynt of Bascha. On the death of Magdalen of France, two months after her marriage with James V, Lindsay's inuse produced his Deploratioun of the Dcath of Quene Magdalene. During the succecding regency, he espoused the cause of the reformers, and, in 1548 , was sent, in his capacity of Lyon herald, on a mission to Christiern, king of Denmark. On his return, he publishcd the most pleasing of all his poems, entitled the History and Testament of Squire Meldrum. His last and greatest work, the Monarchie, was finished in 1553. The date of his death is unknown; but the latest authority seems inclined to place it in 1557. Lindsay entered with great zeal into religious disputes, and his satires powerfully assisted to expose the vices of the clergy. As a poet, he is inferior to Dunbar and Gawin Douglas. His Dreme is deemed his most poetical composition. An accurate edition of the works of Lindsay was published by Mr. George Chalmers, in 1806.

Line, mathematical, is extension in length, without breadth and thickness ; it is either straight or curved. In navigation, the equator is called the line ; licnce
the expression "to pass the line." In decimal measures of length, it is the 10 th ; in duodecinal measures of length, it is the 12th, part of an inclı. In the art of war, a series of soldiers or ships, drawn up in order of battlc, are called a line; hence the phrase "ships of the linc." In gencalogy and jurisprudence, it signifies a series of persons, in the order of their dcscent from a certain ancestor.
Line, Troops of the, are contradistinguished from the guards and light troops.
Line, Vessels of the. (Sce Navy, and Ship.)
Linex; a cloth of veryextensive usc,made of flax, and differing from cloths made of hemp only in fineness. In common lincn , the warp and woof cross each other at right angles; if figures are woven in, it is called damask. The species of goods which come under the denomination of linen, are table-cloths, plain and dannasked, cambric, lawn, shirting, sheeting, towels, Silesias, Osnaburgs, \&c. The chief countries in which linens are manufactured are Russia, Germany, Switzerland, Flanders, IIolland, Scotland and Ireland. Of these, Russia principally manufactures shceting and sail-cloth; Germany, sliirtings, slieeting and bagging ; Switzerland, both fine and coarse goods; Flanders, the fincr articles, cspecially cambric and lawn; Holland, shceting of the best description; Scotland, coarse shirting ; and Ireland, shirting, damask table-linen and towelling, of superior quality. Immense quantities of linen are annually exported from Ircland to England, and several other parts of Europe, as well as to North and South America, the West Indies and Africa. The flax-seed is, for the greater part, procured from America; but other nations, engaged in this lucrative branch of trade, cither raise their secd at home, or procure it from the north of Europc. In several parts of Gcrmany, Switzerland, Flanders and France, linens are frequently embellished with painting; and at London and the other parts of England, the produce of the Irish linen manufacture is beautifully printed in the manner of calicoes. The beauty of lincu consists in the evenness of the thread, its fineness and density. The last of these qualitics is sometimes produced by subjecting it to rollers; hence linen with a round thread is preferred to that with a flat thread. The warp or woof is not unfrequently made of cotton yarn, which renders the cloth less durable. Linen threads cannot be spun by the machinery used in spinning
cotton and wool, on account of the length and rigidity of the fibres of the flax. The subject of spiuning flax by machinery has attracted much attention, and Napoleon once offered a reward of $1,000,000$ francs to the inventor of the best machine for this purpose. Machines have been constructed both in Europe and the U. States, which spin coarse threads of linen very well and rapidly. But the manufacturc of fine threads, such as those used for cambrics and lace, continues to be performed by hand on the ancient spin-ning-wheel.-In a historical view, linen is interesting, as forming the dress of the Egyptian priests, who wore it at all their religious ceremonies; hence they are styled by Ovid and Juvenal, "linen-wearing." (See also Lev. xvi. 4, and Speicer On the Laws and Rituals of the Jews.) From Egypt, linen passed to the Romans, but not till the time of the cmperors. The Roman pricsts also began to wear linen garments at that time. Linen was also used as a material for writing, though the expression libri lintei, carbasini, was also applied to cotton and silk, as well as linen. The Sibylline books and the nummy bandages, covered with hieroglyphics, are proofs of this use of linen. In the midAlc ages, linen and woollen cloth formed the only materials for dress ; and fine lincı was held in very high estimation ; even the writer of the $\mathcal{N}$ ibelungen-lied mentions it. Germany and Brabant then ranried linen manufactures to the greatest perfection. Linen is yet nccessary for the manufacturing of good paper. Cotton has, of late years, taken the place of linen for many purposes, on account of its greater cheapness. (Sec Cotton, and Byssus.)

Ling ; a specics of marinc fish, belonging to the great genus gadus. It is from three to four feet in length, and somewhat like the pike in slape. This fish abounds on the coasts of Great Britain, where it las long formed an innportant branch of trade. It is in perfection from the beginning of February to May ; in June, the spawning season commences. When in season, its liver abounds with an oil of excellent quality and flavor; but when it becomes out of season, this organ assumes a red color, and contains but little oil. This oil is procured by subjecting the liver to a slow fire, otherwise a very small quantity is obtained. According to the English law, such of these fish as are curcd for exportation, must measure 26 inches from the shoulder to the tail ; otherwise they are not entitled to the bounty
granted for the encouragement of this trade. There is another species of ling, the cel-pout ( $G$. lota), which is from one to two feet long, of a yellow color, variegated with brown. This is the only species of the genus which is found in freslı water. It abounds in the lake of Geneva. It is amazingly prolific, 128,000 ova having been counted in a single female. It is much esteemed as an article of food, and its liver, which is very voluminous, is highly prized by epicures.

Lingam ; the symbol of the creating and producing power, sacred among the Indians and Egyptians. (See Indian Mythology.)

Lingard, Johm, D. D., a Catholic priest, settled at Newcastle-upon-Tyne, has displayed considerable acuteness in defence of his religion from the charges brought a aainst it by Protestant writers. He published, in 1805, Catholic Loyalty vindicated. The next year, the bishop of Durham, in a charge to his clergy, having attacked the Catholies, Mr. Lingard answered him, in Renarks on a Charge (1807). This brought on a sharp controversy, in which several persons of ability took part, and Mr. Lingard published a General Vindication of the Remarks, with Replies to the Reverend T. Le Mesurier, G. S. Faber, and others (12mo., 1808). These two pamphlets were followed, on the same subject, by Documents to ascertain the Sentiments of British Catholics in former Ages (8vo., 1812); a Review of certain Anti-Catholic Publications (8vo., 1813) ; and Strictures on Doctor Marsh's Comparative Vicw of the Churches of England and Rome (8vo., 1815). In the last of these publications, Mi: Lingard asserted that the church of England was inodern, compared with that of Rome; an assertion which so much iritated the late doctor Kipling, that he was absurd enough to threaten the author with a process in Westminster-hall, if he did not prove the truth of what he had stated. In 1809, Mr. Lingard published the Antiquities of the Anglo-Saxon Church ( 2 vols., 8vo.), a work of merit. Doctor Lingard is principally known in foreign countries as the author of a History of England till the Revolution of 1688 (8 vols., 4to., 148 vo., 1819-1831), of which several editions have appeared, and which has been translated into several languages. Although the object of this work is the vindication of the Catholic church and clergy in England from the party misrepresentations of Protestant writers, yet it is allowed to be written in a candid aud dispassionate tone. As a his-
torian, the author is acute and perspicuous, judicious in the selection and arrangement of his materials, and clear and interesting in lis narrative. He writes from original sources, which he has examined with care and diligence, and on many points gives new and more correct views of manners, events and characters. In 1826, he published a Vindieation, \& e., in reply to two artieles in the Edinburgh Review (Nos. 83 and 87, written by doctor Allen), charging him with inaceuraey and misrepresentation. A more favorable notice of the history has sinec appeared in No. 105 of the same Review. Tytter (History of Scotland, 3 vols., 8 vo., 1830) charges doctor Lingard with inaccuracy in Scotch history.
Lingua Franca; a corrupt Italian, mixed with other words, the dialeet spoken between the inhabitants of the coast of North Africa and the Levant and Europeans. It is, in fact, the Crcole of the Mediterranean, and is extremely useful for a traveller in those countries. It is easily learned by one who knows Italian, and still more casily understood.

Lingua Geral; a corrupted Portuguese, spoken on the coast of Senegambia.

Llingoet, Simion Nieholas Henry ; boin in 1736, at Rheins, where his father, who had been professor at the college of Beauvais, was living in a kind of exile, having been banished by a lettre de cachet, on aecount of his participation in the Jansenistic controversy. This eireumstance was the origin of Linguet's saying "that he was born under the auspices of a lettre de cachet." Having studied law at Paris, in the same college where his father had been professor, and having obtained the three first prizes of the university in 1751 , he attracted the notice of the duke of Deux-Ponts, who was at that time in Paris, whom he accompanied on a journey to Poland. Linguet soon returned to his own country, and, on the breaking out of the war between France and Portugal, went to Spain as secretary to the prince of Beauvau. He there made himself acquainted with the Spanish language and literature, and, during his stay at Madrid, he published translations of some of the works of Calderon and Lope de Vega. His first historical attempt, Histoire du Siecle d'Alexandre, whieh was dedieated to the king Stanislaus Lesezinski, was published immediately after his return to Paris. His brilliant oratorieal powers, and his thorough acquaintance with the law, gave him a great reputation at the bar, but,
at the same time, his severe remarks and bold ideas created him many enemies. His controversy with D'Alembert, who at that time had ahnost the entire control of the academy, prevented him from becoming a member of that body. His fame as an author and lawyer, however, inereased, and several cases conducted with great ability, such as that of the duke d'Aiguillon against the government, and the eriminal cause of the count de Morangies, on whieh he wrotc an excellent treatise, raised him to high consideration, but at the same time excited the jealousy of his colleagues, whom he ineensed to such a degree, by some of his diatribes, that they formed a sort of conspiracy against him, binding themselves not to plead with him. Even the parliament became engaged in these disputes, and Linguct, whose replies and remarks inereased in bitterness, was struek from the list of parliamentary advocates. As a political writer, he sueceeded no bettcr. His Journal politique, commeneed in 1777, offended the prime minister Maurepas, and was suppressed. Linguet, thinking his personal freedom endangered, went to Switzerland, Holland and England. He afterwards resided at Brussels, until M. de Vergennes procured him permission to return to France; but, his adversaries finding some new cause of complaint, he was thrown into the Bastile by means of a lettre de cachet, where he remained above two years, and was then banished to Rethel for a short time (1782). He went again to London, and therc published a work against arbitrary power, to which he had fallen a saerifiee, but which he had himself defended in an carlier work, Theorie des Lois. He afterwards continued his Annales politiques at Brussels, and flattered, with so mueh address, the emperor Joseph II, who had been pleased with his memoir on the navigation of the Scheldt, that the emperor gave him 1000 ducats, with letters of nobility. But having taken the part of Van der Noot and of the Brabant insurgents, he was ordered by Joseph to leave the Netherlands. In 1791, he again appeared in Paris, and pleaded for the negroes of St. Domingo at the bar of the convention. At a later period, he became an object of suspicion to the terrorists, and, his attempt to escape having failed, he was arrested, June 27, 1794, and condemned to death by the revolutionary tribunal, for having, according to the sentence, flattered the despots of Vienna and London. His writings on law are numerous. Of Linguet's works on
history, politics, political economy, and the fine arts, we mention only his Histoire des Révolutions de l'Empire Romain, from Augustus to Constantine ; Fanalisme des Philosophes ; Théatre Espagnol; Lettres sur la Théorie des Lois; Mémoires pour ${ }_{l}$ D Duc d'Aiguillon et le Comte Morangiés ; Du plus heureux Gouvernement; Mémoires sur la Bastille; and particularly his Annales politiques, civiles et littéraires, du 18 Siecle, which contain much important matter for the political and literary history of the times.
Link, doctor Henry Frederic, professor and director of the botanical garden at Berlin, was born at Hildesheim, Feb. 2, 1769, and educated there. In 1786, he went to Göttingen to study medicine, and, in 1788, obtained the prize proposed for the medical students. In 1792, he became ordinary professor of natural history, chemistry and botany, at Rostock. In 1797, he accompanied the count of Hoffmannsegg (q. v.) on his journey to Portugal. In 1811, he left Rostock, and became professor in the university at Breslau; finally, in 1815, he went to Berlin as professor of medicine and director of the botanical garden. Among the writings of this naturalist are his Observations upon a Journey through France, Spain, and especially Portugal (3 vols., Kiel, 1801); (the part treating of Portugal is particularly valuable); and his work, the PrimitiveWorld and Antiquity illustrated by Natural Science ( 2 vols., Berlin, 1821), which contains the results of many years' deep study. All the writings of this ingenious man are equally distinguished by correctness of language and clearness of description.

Linn, John Blair, an American poet, was born March 14, 1777, at Phippenburgh, Pennsylvania. His poetical talents displayed themselves while he was yet a youth at Columbia college, New York, and, be-
fore he had reached his 17 th year, a volume of his effusions, both in prose and verse, was published. After finishing his collegiate course, he commenced the study of law, at the age of 18 , with general Hamilton, but continued in his office only about a year, during which time, lie brouglit a tragedy, called Bourville Castle, upon the stage, with success. Having removed to Sclienectady, and received strong religious impressions, to which he had always been inclined, he entered upon the study of theology, and, in 1798, he was licensed to preach, and soon became distinguished for pulpit eloquence. He was installed pastor of the first Presbyterian church in Philadelphia, in June, 1799. The duties of this situation he discharged for the two subsequent years, in a manner consistent with the fervor of his piety and the excellence of his mind. He continued, however, to cultivate his poetical talents. His Powers of Genius, a didactic poem of considerable length, experienced flattering success, and in a few months reached a second edition. In the same volume with it were printed various minor pieces. A controversy in which he became engaged with doctor Priestley, was engendered by a publication of the latter on the merits of Socrates, which were placed before those of Jesus Christ. The religious feelings of Mr. Linn prompted him to answer the doctor's pamphlet, which he did in a manner worthy of his cause. The last work on which Mr. Linn employed his leisure hours, was a narrative poem, published by his friends, under the title of Valerian, after his death, whiclı took place August 30, 1804.

Linnean Society; a society in London, instituted in 1788, by sir J. E. Smith, and incorporated in 1802, for the promotion of the study of natural history.

## APPENDIX.

Joseph Napoleon Bonaparte,* the eldest brother of Napoleon, of all the members of his family the one in whom the emperor plaeed the greatest confidenee, was born January 7, 1768, at Corte, in the island of Corsiea. His father being sent to Paris, as the deputy of the estates of that provinee, carried him to the eontinent, and placed him at the eollege of Autun, in Burgundy, where he completed his eourse of studics with great diligenee. Joseph was desirous of entering the military service, but, in complianee with the last wishes of lis father, who died at Montpellier, in the prime of life, he returned to his native eountry in 1785, and, in 1792, becane a member of the departmental administration, under the presideney of the celebrated Paoli. When the Englislı took possession of Corsiea, Joseph retired to the eontinent. In 1794, he married the daughter of

[^25]M. Clary, a rich citizen of Marseilles. $\dagger$ Joseph united with his eolleagues of the department in urgent eutreaties for supplies requisite to drive the English out of the island, but their applieations were disregarded until 1796; and it was not until after the oecupation of Italy by the Freneh army, that their efforts were crowned with suecess. $\ddagger$ In the beginning of this eampaign, Joseph aecompanied his brother Napoleon, who, after the vietory of Mondovi, sent him to Paris to convince the dircctory of the necessity of coneluding a peace with the king of Sardinia. Peaee was concluded, and Joseph appointed minister of the republic at Parma, and, a few months afterwards, minister, and then annbassador, at Rome. He had obtained from Pius VII the promise of a brief, exhorting the Vendears to lay down their arms, and to submit to the republie, when the intrigues of the enenies of France, and the temerity of the revolutionists, produeed the eatastrophe whielt obliged him to leave Rome. The papal seerctary of state, and the diplomatic eharaeters connected with Joseph, united in rendering him justice in their statements to the Frenel direetory. (See the Moniteur of Nivose 23, year VI-January 12, 1798.)
$\dagger$ The sister of Joseph's wife was married to Bernadotte, and is the present queen of Sweden.
$\ddagger$ It has often been erroneously stated, that Joseph Honaparte was secretary to Salicetti, is meraber of the convention (the only member from Corsica who voted for the death of the king). It has likewise been erroneously stated. that Joseph was this year elected member of the five hundred, and that opposition was made to his taking a seat in that body, on the ground that he was not of legal age. Joseph was at this time (9th Fructidor, yeai V-September 1, 1797) ambassador at Rome.

The pope not giving satisfaction for the murder of general Duphot, comnitted in the presence of Joseph, who never lost his calmness, and used every means in his power to preveut further bloodshed and outrage, the latter returned to Paris, where the directory expressed their entire satisfaction with his conduet at Rome.* He was now offered the enbassy to Prussia, but preferred to enter the council of the five hundred, which soon close him their secretary. When Napoleon was in Egypt, the French experienced important reverses in Europe. The battle of the Trebia had been lost; the French had evacuated the Genoese territory; the French army in Switzerland was in a eritieal situation until the decisive victory of Massena at Zurieh, and all the conquests in Italy were at stake. Joseph despatched a Greek of Cephalonia, named Burmbacki, to Egypt, to induce his brother to hasten back; and he assisted him in the revolution of the 18 th Brumaire, year VIII, which placed general Bonaparte at the head of the consular govermnent. Under the consulate, Joseplı was a member of the council of state, and, as such, was appointed, with Roderer aud De Flenrieu, to terminate the differences then existing between France and the U. States. The trenty of September 30, 1800, was signed at Joseph's estate of Mortefontainc. Soon after (F'elruary 9, 1801), he signed, with count Cobentzl (y. v.), the treaty of Lunćville, beeween France and Austria. Mareh 20,1802 , the treaty of Amiens was signed, which, on the part of France, had been likewise conducted under his direction. Whilst engaged in diplonatie pursuits, Joseph suggested a plan to unite France, Eugland, Spain and IIolland, for the suppression of that system of rapine and piracy, whereby smaller states were annoyed by the corsairs of Barbary, to the disgrace of the great powers of Cluristendom. His brother, then first consul, adopted the plan. In 1803, Joseph was created a senator and grand offiecr of the legion of honor, and presided, in the same year, in the electoral college of the department of the Oise. Joseph Bonaparte was one of the signers of the concordate with the pope, by which the inmunities of the Gallican ehureh were secured, and the toreh of fanaticism,

[^26]which burued in the West of France, was extinguished. Nearly at the same time, the treaty of guaranty was signed with Austria, Russia, Prussia and Bavaria, which recognised the various political ehanges whieh had taken place in the German empire. In this negotiation, also, Joseph was invested with fall powery on the part of France. When, in 1804, the eamp of Boulogne was formed, the collsul inade his brother colonel of the fourth regiment. When Nupoleon ascended the imperial throne of France, the same sena-tus-consulte which (supported by $3,700,000$ votes) ereated Napoleon emperor, deelared Joseph and his children heirs to the throne, in case of the death of Napoleon withont issue. $\dagger$ In the same year, the crown of Lombardy was offered to him, but Joscph firmly resisted the entreaties of the cimperor and of lis friends, not choosing to renounce the new politieal bonds which attached hins to France, nor to enter into engagements which pressed hard upors Lombarly. During the eampaign of Austerlitz, in 1805, prince Joseph presided in the senate, and administered the govermment. 1 few days after the battle of Ansterlitz, Joseph reeeived an order from the emperor to place himself at the head of the army destined to invade the king dom of Naples, whose sovercign had broken the treaty with Franee, and whose troops had been angmented by a large body of Russians and English, in consequence of which Napoleon had declared, "Ferdinand has ceased to rulc." On February 8, 1806, the Freneh entered the territory of the enemy. Joseph commanded the centre, whilst Masséna and Gouvion de Saint-Cyr commanded the two wings, took Capua, which surrendered without much resistanee, and entered the eapital February 15, being received, if any reliance were to be placed upon publie demonstrations of joy, as the deliverer of the people. King Ferdinand had fled to Sieily, and the English and Russians effected their retreat. All the fortresses were to be delivered up to the French; and Gaëta, commanded by the prince of Hesse-Philippsthal, only resisted, the commandant disavowing the regeney which Ferdinand had appointed before his flight, and which had concluded the treaty with Josepl. The very day of his entry, Joseph was seen walking about in the street, attended by one aid-de-camp

[^27]only, even among the crowds of still excited lazzaroni, faithful to his opinion that the people fecl confidence in those who trust thenn, and never pay with bad treatment those who have treated them well. No sooncr had he organized a provisional government in the capital, than he set out with a corps d'elite under the command of general Lamarque ( $q . v$. .), to inform limself of the actual state of the country, and of the feasibility of an attempt upon Sicily. He soon convinced himself of the abject situation of the inhabitants (whom the character of former governments had rendered pretty indifferent as to any change of the administration, believing that nothing would improve their situation), and of the impracticability of a landing in Sicily. It was during this journey, that Joseph first received intclligence that the emperor had recognised him king of Naples. Napoleon, fearing that Joseph would refuse the throne of Naples, as he had refused that of Lombardy, consented that Joseph's relations with France should remain the same; and the senate, of which he was president, in his capacity of grand-elector, deputed three of its members to him to induce him to accept the offered crown. These were marshal Perignon, general Ferino and count Rœderer. Joseph received them as his old colleagucs, lodged them in the palace, and retained count Rcederer (q.v.), who had long been his friend, as minister of finance. Joseph was always pleased to acknowledge his obligations to this friend, for his services in the administration of the finances, and in the formation of the laws and institutions which created a public credit-something till then unknown in that country. Napoleon said that the loss of count Rœederer from his council of state was never adequately supplied. Josepl's reign in Naples forms the period of his life oll which the biographer dwells with the greatest satisfaction. It was the misfortune of Joseph to be twice called to rule over nations guided by priests, and left in ignorance, and thereforc easily to be excited against any change ; yet the critical nature of lis situation did not deter him from trying every means in his power to ameliorate the condition of his subjects. He introduced into his council, among others, Frenchmen distinguished by their abilities; such as Ræderer, Salicetti, Dumas, Miot, \&cc. With them he planned such changes as his unreserved conversations with men of all classes, on his long journey, had suggested to him. He held up to the mem-
bers of his administration the advantageous consequences of the French revolution, contriving to avoid its evils, and enjoining them to inake justice and moderation the guides of all their neastures. The country was soon entirely cleared of the enemy. Convents were abolished, and their inmates provided for ; their rich possessions were in part used to contribute to the solidity of the public credit; fendalism was overthrown, leaving only the honorary titles; provincial intendants were appointed instead of the former presidi, a kind of proconsuls; public instruction greatly improved; the finances regulated, as we have already mentioned, under the care of Rœederer; the interior custom-lines, so injurious to the welfare of nations, removed to the frontiers ; the system of justice greatly improved by substituting the Frenclı code for the confused pragmatiche, and by organizing. the judiciary ; national guards were formedan institution which, in that as well as all the other Italian countries, would have had the best effects. These effects, indeed, were in part apparent in the growth of a civic spirit among the inhabitants, so long degraded by foreign or domestic tyranny. A new army was created; the public debt was put on a systematic footing; all banks were united into one ; excrvations (q. v.) at Pompeii and in Magna Grecia begun, and a learned society founded, under the name of the royal academy, divided into four classes; the roads were improved; the system of the mesta* abolishcd, according to an early plan of the celebrated Filangieri; the stiff and pompous Spanish court etiquette was much curtailed, so that the king became accessible to his subjects; and the half-barbarous lazzaroni were civilized. Villages were established, and the lazzaroni were made to labor in excavations or workshops. Their pay was partly given in beds, and in domestic utensils, so that their improvement was begun in the only way in which it could be successful -by accustoming them to a home. Thus a numerous class, who had resisted all attempts to civilize them, and with whom neither missionaries nor philanthropists could be successful, were rendered useful,

[^28]and a fruitful source of crime would soon have been entirely stopped. He who formed the idea of civilizing these beings by giving them a home, whether it was thie king or one of his eounsellors, richly deserves the thauks of the eountry, though the return of the Bourbous was unfortunately also the signal for the return of wretchedness. - The bands of robbers likewise vanished. When Joseph arrived in Naples, the revenue of the state did not exceed 7,000,000 ducati. It was augmented by him to $14,000,000$, without inereasing the publie burdens. Naples then had no constitution, but Joseph, presiding in person at the meetings of the council of state, heard every measure discussed, and no instanee is on record of a measure being adopted against the opinion of the majority. Success was erowning his laudable endeavors, when, uufortunately for him, he was, against his will, called by lis brother to reeeive a prouder diadem. As the period upon whicl we are now entering has been made the subject of great misrepresentations, and forins, at the same time, an insportant part of the history of Napoleon's time, and of Spain, we shall treat of it at some length. In an interview, some months previous, with the emperor Napoleon at Venice, he received an intimation of the feuds which distraeted the reigning house of Spain, and of the politieal rimbarrassments to which they must lead. He now reeeired fiom Bayonne, where the Spanish princes had joined Napoleon, a pressing invitation to proceed without delay to that city. Nothing was yet decided, and no views explained. In this unecrtainty, Joseph set out, eherishing the hope of again returning to his family at Naples. At a short distance from Bayonne, he was met by the emperor, who informed him that the passions of the Spanish princes had produeed a erisis, which had arrived but too soon; that they were as far from a harmonious agreement at Bayonue as they had been in Spain; that Charles IV preferred retirement in France, nu certain eonditions, to reëntering Spain without the prince of peaee; that botl le and the queen ehose rather to see a stranger ascend the throne than to cede it to Ferdinand ; that neither Ferdinand nor any other Spaniard wished for the return of Charles, if he was determined to restore the reign of Godoy, and that they also would prefer a stranger to him; that he (the emperor) pereeived that it would cost him a greater effort to sustain Charles, with the prince of peace, than to
change the dyuasty; that Ferdinand appeared to him so inferior, and of a character so vague and uneertain, that it would be higlily iudisereet to eommit himself on his behalf, or attempt to sustain a sou in the struggle to dethrone his father, and that such a dynasty was as little suited to Spain; that no regeneration was practicable whilst it continued; that the first persomages of the kingdom, in rank, iuformatiou and charaeter, assembled in a national junta at Bayonne, were eonvinced of this truth; and that, since destiny pointed out this course, and he then felt assured of aeeomplishing what he would not have voluntarily undertaken, he liad nominated his brother, the king of Naples, who was aeceptable to the juinta, and woukd be so to the nation at large. Ferdinand had long since solicited one of his nieees in marriage, and the kingdom of Etruria, but, sinee his residence at Bayonne, and more intinate knowledge of that prinee, he did not think proper to aceede to his wishes. He further urged that the Spanish prinees had gone farther into France, and had ceded to him all their rights to the crown, which he liad transferred to his brother, the king of Naples; that it was highly important that his brother should not lhesitate, lest the Spaniards, as well as foreign monarehs, inight suppose that he (Napolcon) wished to eneirele his own brows with this additional erown, as he had done with that of Lombardy, some years before, upon the refusal of Joseph to aceept it; that the tranquillity of Spain - of Europe-the reconciliation of all the members of his own fanily,* depended upon the course which Joseplı was then about to adopt ; that he could never allow hinself to helieve, that regret at leaving all enehanting eountry, where no danger or difficulty rennained to be combated, could induce him to refuse a throne where many obstacles, it was true, were to be surmounted, but where also much good was to be aecomplished. When Joseph arrived at Bayonne, the members of the juita were all assembled at the châtean of Marrae, and he was obliged to receive their addresses, to which he returned indefinite answers, postponing a decision until he could, in the course of a few days, see the different members in private. The Spanish princes were gone. The duke del Infantado and Cevallos passed for the warmest partisans of Ferdinand: both were presented the next

[^29]day to take leave. Joseph had a long. conversation with the duke, which terminated in a full offer of his services. This nobleman then observed, that he now found the intelligence which had been transmitted to him by his agents at Naples was truc, and if Joseph was destined to be to Spain what he had been to Naples, no doubt could exist that the entire nation would rally round him. He also assured him that he would find the same dispositions in Cevallos, and in all the members of the junta; that those who were regarded as the most violent partisans of Ferdinand entertained for that prince, of whom they knew little, and expected every thing, merely that sort of attachment which a inisgoverned nation exhibits towards any one whom it considers most competent to redress its grievances. Cevallos held nearly the same language to Joseph, who afterwards received, in succession, all the members of the junta. It consisted of nearly 100 persons. They painted, in strong colors, the evils which afflicted their country, and the facility of suppressing them. In fact, the courtiers of the father and the son were agreed upon one point-the ahsolute impossibility, uamely, of their living together under either of them. Joseph alone, by sacrificing the throne of Naples to ascend that of Spain, appeared to unite all parties, and promised, as they fondly hoped, to restore and even to surpass the happy reign of Charles III. The rising at Saragossa, and in several of the provinces, under the pretence that Napoleon was seeking to amex Spain to France; the assurances given by all the members of the junta (withont a single exception) to Joseph, that his acceptance of the crown would quiet these troubles, insure the independence of the monarchy, the integrity of its territory, its liberty and happincss, finally induced lim to aceept the throne, and he prepared himself to set out for Spain; but he would not leave the throne of Naples without obtaining a pledge that his institutions should be preserved, and that the Neapolitans should enjoy the benefits of a constitution which was, in a great measure, a summary of his own host important laws. He obtained for it the guaranty of the emperor Napoleon. A constitution, founded nearly on the sane principles, was adopted by the junta of Bayome for Spain, and also guarantied by the emperor. Joseph, and the members of the junta, swore fidelity to it. Had events permitted them to maintain their
oaths, it would have contributed much to the regeneration of that people. The recognition of national sovereignty represented in the cortes, the independence of their powers, the demarcation of the patrimony of the crown and the public treasure, would have extricated Spain from the abyss into which she had been sinking for centuries. The accession of Joseph to the throne of Spain was notified by the secretary of state (Cevallos) to the foreign powers, by all of whom, with the exception of England, he was formally recognised. Thus, at first, his relations with the monarchs and governments of the continent were satisfactory. The emperor of Russia had replied to the communication of gencral Pardo, ambassador of Spain, by felicitations gronnded on the personal character of the new king. Ferdinand had written him letters of congratulation, and one among others wherein he implored his intervention and good offices to induce the emperor Napoleon to give him one of his nieees in marriage. The oath of allegiance of the Spaniards who were with hims in France was annexed to these letters, which were made known by a Spanish nobleman to the chiefs of the insurrection. Most of the inembers of the junta had previous kuowledge of them. Upon his entry into Madrid, Joseph found the people greatly exasperated at the events of the second of May, 1808. A stranger to all that had passed, he convened, on the morrow, at the palace, all those persons who might naturally be regarded as representatives of the different classes of society-grandecs of Spain, chiefs of the religious orders, members of the tribunals, priests, officers, generals, the principal capitalists, the syudics of the various bandierafts. All the saloons were crowded , for the first time, with a concourse of men who were astonished to find themselves together. The new king entered into free conversation with his guests, and expressed bimself with candor on the events which had brought him into Spail, on the motives of his conduct, on his riews and intentions. He ventured alone into the different rooms, filled with crowds of persons inimical to him, and inspired much confidence by this fearless reliance on their honor ; but the gleams of popular favor were overcast by the disastrous intelligence from Baylen, which arrived six days after this entertaimnent. The retreat on Burgos was effected, and the king found himself in the midst of marshal Bessières' army. The Spaniards
flocked in from all quarters against the French army, which was unable to resume offensive operations until the month of November. The emperor arived, and put himself at the head of his arny, but was soon summoned, first by the English to the frontiers of .Galicia, whence lie drove them out, and then by the Austrians to Germany. On his departure, he left his brother in command of the forces that remained in Spain. King Joseph returned to his capital January 22, 1809. The people had not lost the remembrance of the hopes which they had conceived ou his first entry. The inhabitants came individually to take the oath of allegiance to him, each in his respective parish. Joseph exerted hiinself to foster and extend these favorable symptoms. On a solemn occasion, he renewed the assurances he had already given of his determination to maintain the independence of Spain ; to preserve her territory entire ; to support her religion, and to protect and uphold the liberty of her citizens-"conditions," he said, "of the oath which I took on accepting the crown: it shall never be dishonored whilst on my head." He pledged himself for the convocation of the cortes, and for the evacuation of Spain by the French troops, as soon as the country should be pacified. "If I love France ns my fanily," he often exclaimed, "I am devoted to Spain as to my religion." The choice of his ministry was made with entire deference to public opinion. The nomination of the members of his council of state was governed by the same spirit. Five regiments were already organized, from which all persons stained by criminal convictions were carefully cxcluded. Infamous punishnents were discontinued, aud the stimulus of honor and love of country, as iu the French army, was substituted for corporal inflictions, which are fit ouly to make slaves, not soldiers. Pursuing the same course which his own sense of justicc and views of policy had dietated in lis former government at Naples, he recognised the existing public debt, and provided means for its extinction; gave facilities for the secularization of monks, without, at that moment, compelling it; inspected, in person, the works then unfinished and neecssary to the completion of the Guadarama canal; promoted that useful enterprise; and generally gave aid and countenance to national industry in its various departments. The earliest military occurrences of his reign were propitious. The battles
of Talavera and Alnonacid paralyzed the enemy's movements, and the king availed liminself of the calm which ensued, to regulate the administration of the interior: He now resolved to suppress eutirely the religidus orters, being couvinced that the restoration of the finances and the clainss of public tranquillity aliku demanded this measure. All ecclesiastical jurisdictions were amulled, and their duties assigned to the civil tribumals, and the privilege of sanctuary heretofore allowed to the churalies was abolished. The councils of the Indies, of the orders, of finance, of the marinc, and of war, whose functions werc almost ideutical with those of the new conncil of state, were dissolved; the points for the collection of the duties fixcd on ihe frontiers; the municipal system was sctled ; laws regulating publie education were digested in the council of state ; the deht, which had been formerly recognised, was guarantied; the aslies and monuments of the illustrious dead, scattered through the suppressed convents, were assembled in several churches, and particularly in the metropolitan at Burgos. The buildings of the Escurial were assigned for the reception of fiften hundred priests, members of the differeut religious orders, who were desirons of contimuing to live in common, either from family reasons, considerations of health, or a strong bias to cousecrate themselves to study in those vast deposits wherein lay buried large collections of manuscripts and other literary treasures, so richly incriting examination and perusal. The buildings of St. Francis were closen for the sittings of the cortes, and the alterations to be made in them put under contract. One hundred millions of reals wcre appropriated as an indemnity to owners of property who had suffered by the ravages of war. Jo seph proscribed no individual because he had been a member of any particular corporation. In his council of state were to be found superiors of religious orders who voted for the suppression of thosn orders;* general officers of the insurgents who voted against the insurgents ;f inquisitors voting agaiust the inquisition it and in his family and houselold, grandees of Spain openly adrocating the most popular laws. $\Lambda$ few months after his return to Madrid, Joseph received intelligence that 50,000 Spaniards had made a descent

[^30]from the Sierra Morena into La Maneha. He marched against them, and, at Ocaña, they were entirely diseomfited by 20,000 Frenelı and 4,000 Spaniards in his serviee. 25,000 prisoners, most of whom entered his army, thirty standards, and the ontire artillery of the army, were the fruits of this vietory. The English, who had advaneed to Truxillo and Badajoz, retired to Portugal as soon as they learned the destruetion of the Spanish army. Upon his return to the eapital, the king was informed of the suecesses of general Kellermann at Alba de Tormes, of marshal Suchet in Arragon, and marshal Augereau in Catalonia, where Gerona had fallen into his hands. He resolved to follow up this series of good fortune. The junta of Seville having summoned the cortes for the month of March, he determined to anticipate them. Leaving Madrid on the 8th of January, 1810, a very few days after the battle of Ocaña, he found himself, on the 11th, at the foot of the Sierra Morena, with a foree of 60,000 men. Marshal Soult aeted as major-general, in plaee of marshal Jourdan, the latter having returned to France. The positions of the enemy were carried in a few hours, and 8000 or 10,000 prisoners taken. The king was attended by his ininisters and the principal offieers of his houschold and guard. He openly announced his intention to hold the eortes at Grenada in the month of March. Cordova surrendered to him without firing a gun. Joseplı pledged himself, without reserve, that as soon as the English evacuated the peninsula, the French armies should also leave it, and that he would follow in their steps, unless retained by the sincere wishes of the nation, when enlightened as to its true interests: he stated that the constitution of Bayonne was now suffieient for the habits and wants of the people, but admitted that it might hereafter be modified aecording to circumstances; that the nation could never enjoy a greater share of liberty than the king wished it to possess, inasmuch as he never could feel himself truly her king, until Spain was truly free, and delivered from the presence of all foreign armies. Marslial Victor advanced upon Cadiz, and the king marle his entry into Seville, where he was reeeived with enthinsiasm. It was in Seville that he reecived, from the hands of the chapter, the French eagles which had fallen into the hands of the Spaniards, after the disastrous aflair of Baylen. They had been left in the eathedral, where they lay hidden amongst
relies of the saints. They were instantly forwarded to Paris, by eolonel Tascher de la Pagerie. Ten thousand men, however, under the duke of Albuquerque, liad anticipated marshal Vietor at Cadiz; the English also hastened thither, and strongly reinforeed the garrison, whilst their squadrons blockaded the harbor. The ehiefs of the insurrection had assembled at Port St. Mary's, in front of Cadiz. They surrounded the king, from whom they reeeived the assurance of his positive determination to assemble the representatives of the nation at Grenada inmediately. All the members of the eentral junta were to form part of this cortes; all the bishops-all the grandees-all the wealthy capitalists. This assembly would have as single question to discuss-"Do we, or do we not, aecept the constitution and the king offered to us by the junta of Bayonne?" If the negative was pronouneed, Joseph would leave Spain, fully determined to reign, if at all, by the eonsent of the people, as he wished to reign for their henefit. But the deputies who undertook to go themselves and treat with their fellow eitizens, unfortunately embarked in small boats, and were detained by the English squadron, and not allowed to land in Cadiz. On the other hand, the French govermment was becomiug weary of the enormous sacrifices which the obstinate resistance of Spain required. Thicy thought that the war there, as in other countries, ought to support itself. The king's system, on the eontrary, forhade exaetions, and tended to calm then exasperation of the Spaniards by kind treatment. He consequently required that Franec shonld continne her saerifiees and her expenditnre. About this time, a measure was adopted by Napoleon, which gave the king the most lively concern. An imperial decree instituted military governments in the provinees of Spain, under which the French general of division becane president of the administrative junta, and the Spanish intendant was reduced to the station of a simple secretary of the borly in whieh he had formerly presided. This state of things could not fail to destroy all the grood whieh had been effected by the campaign of Andalusia. Abandoning, now, all hopes of bringing about the survender of Cadiz by the eonciliatory measures which he had employed, Joseph left Port St. Mary's to visit the eastern part of Andalusia, and directed his route through Ronda. In the course of this journey, he expressed to the deputations from

Grenada, Jaën, and Malaga, his firm resolution never to consent to any dismenberment of the monarchy, or to any sacrifice whatever of national independence -very far, in these particulars, from entertaining the sentiments of Ferdinand, who had actually proposed to the emperor a cession of the provinces on the Ebro. On lis return to Seville, the king issued decrees prescribing territorial divisions, organizing the civil administration within these districts, and directing the formation of national guards. He then intrusted the command of the army of Andalusia to marshal Soult, and returned to Madrid, after an absence of five months. The duke of Santa Fé and the marquis of Almenara, two of his ministers, were dospatched to Paris. The latter was the bearer of a letter from Joseph, announcing his determination to leave a country where he could neither do good nor prevent evil, if the system of inilitary goveruments was not abandoned. The situation of the emperor was then so complicated and critical, that he could not yield to the wishes of the king. King Joseph proceeded in person to Paris, where he had an interview with his brother. The emperor induced him to return to Spain, hy the positive assurance which he gave him, that the military governments should soon cease; that the system had already wrought a good effect upou the English government, who offered to retire from Portugal, if the French troops would evacuate Spain, and to recognise king Josepl, if the Spanish nation recognised him, and France would also consent, on her part, to recognise the house of Braganza in Portugal. The different military districts were to be put under the command of king Joseph, the cortes convened, and the French armies to evacuate Spain as soon as the king was satisfied that their presence was no longer necessary. The subsequent events of this war must be rapidly touched. Marshal Masséna, who had entered Portugal at the head of an army of 75,000 men, after taking Almeida and Ciudad Rodrigo, and defeating the English at Busaco, was compelled, in March, 1811, to withdraw his troops, then reduced, by sickness, forced marches, and want of provisions, to 35,000 men. Marshal Soult laid siege to Badajoz, which surrendered March 19. Marshal Victor had been attacked in his lines at Chiclana. The English had kept alive the flames of insurrection, by landing troops, money and arms at Carthagena and Alicant, and cucouraged, by
every means in their power, the resistance of Cadiz. It was at this noment, that the first rumors were circulated of the approaching rupture between France and Russia. The English, no longer held in check by the army of Portugal, had occupied Ciudad Rodrigo and Badajoz. Marshal Victor, the remainder of the imperial guard, and several regiments of the line, were recalled to France. All hopes of a negotiation with England had vanished; partial insurrections multiplied; new guerillas were formed, supported by the gold of the English and the exasperation of the inhabitants; the communications became more difficult than at any previous time. Navarre was ravaged by the band of Mina, now swelled to an army ; famine was laying waste the capital and the provinces. Suclı was the face of affairs when the emperor Napoleon, setting out on his Russian campaign, invested king Joseph with the command of the armies. Under such circumstances, honor no longer permitted him to retire from a post of difficulty and danger. Marshal Jourdan returned to him. In the carly part of May, 1812, the English, having taken the fortifications erected for the defence of the Tagus, threatened at the same time the army of the south and the army of Portugal. Early in July, Josepl marched from Madrid with the guard and the troops of the neighboring garrisons, directed his march on Penarandia, and joined marshal Marmont, who had passed the Tormes on the 20th, and been defeated at Arapiles. November 3, he returned to Madrid. Ifaving remained a single day at Madrid, Joseph passed the Tormes, and found himself on the batule field of Arapiles, at the head of more than 100,000 men. But the rain, which liad been falling in torrents, had rendered the roads nearly impassable, and greatly retarded the movements of the ariny of the south. The English profited by this delay, and hurried their retreat by the road of Ciudad Rodrigo, which still remained unoccupied. The success of this day was limited to 5000 or 6000 prisoners, ainong whom was the English general of cavalry lord Paget. The king entered Salamanca with the army of Portugal. The enemy retired to Portugal, and the French army soon found itself weakened by the loss of more than $30,000 \mathrm{men}$, who received orders to repass the Pyrenees. He soon after received a positive order from the emperor to leave Madrid and take up the line of the Duero. The state of affairs in Russia made obedience to this
order a matter of positive duty, and the departure of the king for Valladolid took place instantly. As soon as Madrid was abandoncd, the fires of insurrection were kindled, and raged with greater violence than ever. Spaniards, English, Portuguese, all advanced upon the French army, then enfeebled by the loss of its best officers, who had been withdrawn to aid in the formation of new corps in France. After the battle of Vittoria, Joseph returned to Paris, where his brother, the emperor, again left him, with the title of his licutenant, when he departed to put himself at the head of that army, which, after assailing all the armies of Europe in their respective countries, was at last reduced to defend itself on its own soil. The empress Maria Louisa was left regent of the empire. Joscph, as the emperor's lieutenant, had the honor of the military command. Joseph was left as counsellor of the empress, together with the prince arch-chancellor of the empire, Cambacères. The empress had instructions to follow the advice of these counsellors. If the events of the war should intercept all communication between the imperial head-quarters and the capital, and the enemy make his way to Paris, Joseph had verbal instructions from the emperor, and, after his departure, a written order, to remove the king of Rome and the empress, to proceed with them to the Loire, and to cause them to be accompanied by the grand dignitaries, the ministers, the officers of the senate, the legislative body, and the council of state. Joseph soon after had ample reason to acknowledge the judgment and foresight which had dictated these precautions. Reserve was thrown aside, and many senators no longer dissembled their opinions in favor of proclaiming Napoleon the Second, or the regency of the empress, and the lieutenancy of Joseph under an infant emperor. Joseph then made known to his brother the necessity of concluding peace upoll any terms; and when the slender corps of marshals Marmont and Mortier were brought under the walls of Paris, pursued by an enemy vastly superior, and all communication between the enıperor and his capital was cut off, Joseph communicated to the empress and the arch-chancellor the last letter from his brother, whiclı recognised and confirmed his former directions. The ministers, the grand dignitaries, aud presidents of the sections of the council, were assembled, to the number of 22 members. They all admitted that the case provided for had
occurred; and that it was better to leave Paris to its own authorities, and to its own particular forces, than to hazard the fate of thc emperor, and thereby endanger that of the entire empire. The minister of war (the duke de Feltre) declared that there were no arms ready, that they had been daily given out to the new levies as they departed, and were now exhausted. Thus it was unanimously decided that the government should be removed to Chartres, and thence to the Loire. But Joseph remarked, they were yet uninformed as to what enemy they had to do with; that the advancing forces might be reconnoitred, and measures adopted on the result of that reconnoisancc. He offered not to set out with the empress. The ministers of war, of the administration of war, and of the marine, concurred with him, and promised not to return to the empress except in the last extremity, when they should be convinced that they were retiring before the entire mass of the allied armies. If, on the contrary, upon reconnoitring, it should appear that they had only a detached corps to resist, which they could destroy without exposing the capital, they would support the two marshals with all the means under their control. It was in the hope that the last hypothesis might prove correct, that the proclamation of king Joseph was drawn up and published that evening. The empress, her son, the court, the members of the government, the ministers, M. de la Bouillerie, treasurer of the crown, with the funds intrusted to him, took their departure. During the night, the marshals were informed of the enemy's approach. The next morning, they were in conflict with the out-posts. Joseph, accompanied by the ministers of war, of the administration of war, and of the marine, agreeably to the resolution of the council, left Paris to investigate the actual state of affairs more closely. The national guards were put under arms to maintain internal tranquillity, and posted at the different gates to prevent any insult which might be attempted by detached corps. In the morning, marshal Marmont having sent the king information that he was too weak to repel the troops then before him, the king directed marshal Mortier to reinforce him; an order which was promptly complied with. In the afternoon, an officer of engineers of the French ariny, taken prisoner by the enemy, had been admitted to the presence of the emperor of Russia, the king of Prussia, and the Austrian generalissimo. This officer had seen the
enemy's army drawn out, and came to make a report to the marshals, and afterwards to the king. Marshal Marmont declared that he could not hold out longer than four o'clock, nor prevent Paris from being inundated with irregular troops during the niglit. He demanded authority to treat for the preservation of the capital and the security of its population. Some legions of the national guards solicited permission to place themselves in line of battle outside the walls; it was refused, lest Paris might be deprived of their support where it could alone be useful-in the interior, and throughout the immense extent of its chclosure. The decision of the council under the presidency of the empress regent was literally carried into execution under these trying circumstances, when the ministers, who were with the king, admitted that the greatest part of the allied forces was under the walls of Paris. They did not leave Paris until four o'clock, when they learned that the enemy had occupied St . Denis, and that, in a few moments more, it would be too late to cross the Seine. Joseph, passing through Versailles, ordered the cavalry at the depots in that city to follow him, and proceeded to Chartres, where he found the enıpress, and thence to Blois. Great censure has been cast upon king Josepli for his proclamation, in which he assured the national guard that he was not to accompany the cmpress, but would remain at Paris. There is little justice in the exceptions taken to his conduct. No one can doubt that such were his intentions, and those of the council which was then held, and the object of the immediate annunciation of their views can be readily conceived. But a few hours afterwards, every thing was changed by the arrival of the whole allied army under the walls of Paris. There remained to king Joseph the choice of three courses-to accompany the empress to the point designated by the emperor, to remain at Paris, or to follow the army of marshal Marinont. In following the regent he did his duty. Subjected to the commands of the emperor, he was bound to obey them, and not to surrender his wife and son to the enemy. His orders, in a given case, which actually occurred, were precise, to assemble on the Loire the national authorities around the regent, and to collect at the same point all the forces he could obtain. This order was punctually complied with: the armies of the dukes of Castiglione, Albufera and Dalmatia were yet untouch-
ed; the armies of Arragon and of Spain were disposed to receive any impulse which the emperor close to give them: but the idca of resistance was ahandoned, and the abdication of Fontainebleau left Joscph no choicc but a retircment to Switzerland, wherc lic remained until March 19,1815, the day on which lic learned the arrival of his brother Napoleon at Grenoble. He set out alone with his children, and traversed all France, from Switzerland to Paris, constantly accompanied by the cries of the peoplc-" Long live Napoleon, the emperor of our choice! let him remember that the nation desires him alonc! no aristocracy! nothing of the old regime!" The first person Joseph saw, on arriving in Paris, was the generous patriot, who, some montlis previously, had received from him the perilous inission to proceed to Elba, and to warn Napolcon of the assassins who had been sent against lim. He had arrived in time, so that the two first who landed were arrested, and Napoleon saved. His name cannot yet be made public. Two celebrated personages contended for the lionor of having saved Napoleon: onc was madame de Stael, who, as the first person informed of the plot, hastened to give notice of it to Joseph, and proposed to go herself to Elba; the other was Talma, who accompanied her on her visit. Joseph presented to Napoleon the son of madame de Staël, Auřustus, who was cordially received by the emperor. He was the bearer of a letter from his mother, who expressed herself to the emperor respecting " the additional act" thus: "C"est aujourd'hui tout ce qu'il faut à la France, rien que ce qu'il faut, pas plus qu'il ne faut."** Joseph also introduced Benjamin Constant to Napoleon during the hundred days, who drew up the additional articles. Lafayette discussed several times with them the subject of the hereditary peerage, which Napoleon retained because he found it at his return from Elba, and because he had enemies enough without making new ones in the chamber of peers. After the battle of Waterloo, Joseph, when consulted by Napoleon, gave the same advice which Carnot and Merlin de Douai had already given: "Return to the army, and let us contend with the chamber." Na poleon thought, that he could still deliver France from its invaders, but not without the concurrence of the chambers. Joseph followed his brother to Rocliefort;

[^31]both were to go to the U. States, but in different vessels, when there ceased to be a hope of passing the Englislı squadron with the frigates. Joseph inet him once more on the Isle of Aix. He offered to remain in his place in the room which he occupied, whilst Napoleon should go on board of the vessel which he (Joseph) had chartered for himself, and whieh was at Royan with the four individuals who accompanied him. It was otherwise decided. Joseph did not leave France until general Bertrand had informed him of the fatal resolution which Napoleon had taken. He arrived at New York, without being known, the captain and crew of the American vessel thinking him to be general Carnot, desirous of remaining ineognito. By an act of the legislature of New Jersey, expressly enacted for his case, he was enabled to hold real property without beeoming a citizen of the U. States. He erected a seat at a spot ealled Point Breeze, on the bank of the Delaware, near Bordentown, not far from Philadelphia. At this place, he lias resided ever since, under the name of count Survilliers, spending his time in study, in aets of benevolence, and embellishing his estate as far as his moderate means allow. We have found in the U. States the same opinion respeeting hin as in Naples, where we have heard his loss regretted by people of the most different classes. A like opinion respecting him is said to exist in Spain, by persons well informed of the state of that country; this land, as well as Naples, having been plunged by the Bourbons into a state of inisery, from which, probably, they ean be delivered only hy long revolutions. It was once reported that he was colleeting materials for a work on Napoleon and his time; and no one eould nuake more important disclosures relative to the late emperor: In 1799, a novel called Moina, of which a seeond edition was published in 1814, was attributed to Joseph, but never acknowledged by him. In the year 1820, a fire consumed his mansion at Point Breeze, upon which occasion the inliabitants of the neighboring country gave him proofs of their heart-felt interest in him. Not long after the Freuch revolution in July, 1830, a letter signed Joseph Napoleon Bonaparte, count Survilliers, and dated Point Breeze, Sept. 14, 1830, to a French general, who had offered to return with him to their common country, appeared in the public papers, in which he says, "Jai pris comme mon frère Napoléon la devise lout pour le pertple Français; je ne connais donc dans
moi vis-a-vis de la nation que des devoirs à remplir et aucun droit à exercer, ni en mon nom, ni en celui de mon neveu. Les gouvernemens sont un besoin des peuples, c'est à eux à les créer ou à les détruire, selon leur utilité, je suis donc résigné à me conformer au vcu national légitimement exprimé." He further says, that he considers that no Bourbon, of any branch, should he placed on the throne of France; that Napoleon was called to the throne by the voice of three millions and a half of Frenchmen, uninfluenced by foreign arms, and that Napoleon abdicated in favor of his son; so that Napoleon II is the legitimate heir of the throne, until the nation should declare otherwisc, which it had not done. The letter contains the following words, dietated by Napoleon, when dying, to general Bertrand for Joseph: "que mon fils se guide par vos avis, qu'il n'oublie pas avant tout qu'il est Francais; que la France ait sous son règne autant de liberté qu'elle a eu d'égalité sous le mien; qu'il prenne ma devise, tout pour le peuple Français." The letter professes republican principles throughout, and declares the country happy in which a republican government is suitable. Joseph also addressed a protest to the ehamber of deputies at Paris, in favor of his nephew, dated New York, Sept. 18, 1830, and founded on the free choiee of the French people, by which Napoleon was elevated to the throne, with his desceudants, stating that Napoleon abdicated in favor of his son; that the ehambers declared Napoleon II in 1815 , and that he is the only legitimate heir to the throne of France, until the nation has decided otherwise, but that 110 other power or body can decide it. IIe also insists on the impossibility of a reunion between a nation and a reigning house, which founds its claim on the divine right, after they have once been separated. He appcals to the expression of the national will, and declares his willingness to submit to it, whatever may be the result.-The best work respecting the various periods of Joseph's life, is Mémoires du Baron Fain. There have appearcd also in the public papers, letters from Joseph to Napoleon during the congress of Chatillon, entreating the latter to conclude jeace ; and others from Spain, to Napoleon, in which he shows low painful was his situation in Spain. These important letters are authentic. Joseph has two daughters: the elder, Zenaide, is married to lier cousin Charles Bonaparte, son of Lucien (q. v.) ; the younger, Clarlotte, was married to her cousin Napoleon Louis,
son of Louis Bonaparte, former king of Holland (count St. Leu). Napoleon Louis Bonaparte died Marelı 17, 1831, at Forli, in Italy, in consequence of over-exertion during the early part of the existing commotions.
la Guayra; a city and port of entry in the Colombian province of Caracas (q. v.), about four leagues north of Caracas; lat. $10^{\circ} 36^{\prime \prime} 19^{\prime \prime} \mathrm{N}$. ; lon. $67^{\circ} 6^{\prime} 37^{\prime \prime} \mathrm{W}$. La Guayra is surrounded by high mountains, whose crumbling fragments often cause great danage, and which shut in the view, except that of the sea, towards the north, and occasion a great heat during nine months of the year, Fahrenheit's thermometer being generally at $90-95^{\circ}$, sometimes as high as $105^{\circ}$. La Guayra is very healthy, notwithstanding the heat, owing to the dryness of the soil. In 1812, the place was alinost totally destroyed by an earthquake. It lias been since partly rebuilt. La Guayra has no port, but an open road, where vessels are any thing but safe, and is much frequented by foreign ressels, being the nearest port to Ca racas, and supplying with foreign manufactures a great part of Venezuela. The chief imports are British and French manufactures, German linens, and provisions from the U. States. Before its disaster, La Guayra had about 8000 inhabitants, the garrison included; at present, there are about 6000 . The wretched state of Colombia has injured its commeree.

Laycaster comes after Law.
Law, Legislation, Codes. [The interest now felt in law and legal reforins must be our apology for the length of the present article. As we have thought that the views entertained respeeting legislation and jurisprudence by the civilians on the continent of Europe might be not uninteresting to our readers, the article which treats of them in the Conversations-Lexikon has been translated, and forms the first part of the present article, extending as far as the break on page 581. The reinainder, giving the common law view of the subjeet, and treating particularly of codification, is by an eminent American jurist.]-1. Laws are the very soul of a people ; not merely those which are contained in the letter of their ordinances and statute books, but still more those which have grown up of themselves from their manners, and religion, and history. Several modern jurists, as John G. Schlosser and Hugo, have shown how little, in legislation, caprice can prevail over the silent but irresistible influence of public opinion. And even the authors of the Code Niapoléon have
said, with no less elegance than truth, that no legislator can escape that invisible power, that sileut judgmeut of the people, which tends to correct the mistakes of arbitrary legislation, and to defeud the people from the law, and the lawgiver from himself. Frequent experiments have slown that laws, at variance with the manners and religious views of a people, camot be fored upon then, however well meant, and however benefieial may have been their influence upon other nations; and that, by means of laws, a legislator can no more elevate his countrymen to a higher degree of refinement, without passing through the intervening steps, than he can reduce them again to a condition above which they have risen in the natural course of events. Hence Frederic II of Prussia was more happy in lis reforms than Joseph II. For it was by no means the intention of the Prussian legislator to give liis subjects a new system of law, but rather to sanction that which they already possessed; to adapt the letter of the ancient laws to the nutions of right which had gained a footing in the spirit of the nation, and, above all, to remove those uncertainties which had necessarily sprung from the use of a foreign code, which liad cheeked improvement in practice. Indeed, it is not the duty of a skilful legislator to create new laws; but only to develope those which existed prior to any express recognition, and to introduce, with prudence, those positive rules which cannot be deduced from general principles; as the determination of the length of minority, the period of superannuation, the amount of punishments, \&c.; in which the prineiples of natural right are reduced to a practical application. To the province of the practical legislator belong also those forms which are required in the application of legal principles; as the formalities of contraets and of judicial processes, and the rules of evidence, in all which it should be kept in mind that these positive institutions do not, of themselves, constitute law, but are the mere meehanism to facilitate the use of it. They should be viewed only as the means of promoting a higher end. The view of the original ground of laws is a point on whiel not only the schools of European jurists differ, but on which the inost important prineiples of public law come into collis-ion.-2. The schools of modern jurisconsults may be reduced, in reference to their principal characteristies, to four, although these are variously modified, and, in many respects, run into one another. In the
last century, with ferv exceptions, the practical school predominated, which, on the ono hand, esteemed the authority of courts and individual jurists higher than the law, and, on the other, was influenced, in an important degrce, by philosopliy, particularly that of Leibnitz and Wolf. Arguments were, for the nost part, drawn with great logical precision, from the nature of the case. The members of this school felt themselves justified in departing from the letter of the written law, either whenever it seerned not adapted to the existing case, or refcrence could be made to the decisions of courts ou the same point. By this school were introduced a multitude of new opinions, supposed equities, and nilder punishments; and their fundamental vicus were not altogether erroneous. They proceeded on the true notion, that the laws of a people are the resnlt of its own peculiar character, and must take their hue from this. They tried to help the letter of the old laws by deductions from the nature of things, and, by adhering to precedents, to attain to that harmony in the administration of justice, which alone can secure the public confidence. The influence exerted by this school on the legislation of the eighteenth century was very great, particularly through Nettelbladt and Daries; and the code of Prussia, in particular, may be considered as its work. But it wanted a proper system of judicial tribunals, to prevent that fluctuation in practice, in consequence of which all certainty, in regard to law, was lost, so that tho result of the decision of the simplest cause could hardly be conjcctured beforehand. The practical school was divided again into two parties, which agreed only in this, that the jurisconsults, or the judges, might look beyond positive law; but were opposed to each other in so far that one party recognised nothing but the authority of some favorite casuist, and the usage of courts; the other regarded natural right, and what they called reasonableness, as the basis of all their decisions. The former alnost always carried the day; for it often happened that the latter opposed them only till they had become familiar with the routine of practice, and felt themselves at lome in it. In the last 10 years of the eighteenth century, new views suggested themselves to the philosophical jurists. $\Lambda$ nore perfect and living philosophy had examined afresh the foundations of seience. Many a fabric was shaticred, which had preserved the appearance of soundness ouly in conscquence of negrigence.

At the same time, society took a new turn, and every thing seemed aiming at an ideal perfection. All former obstructions in the way of legal reform appeared to be set aside. France became a republican state, and the doctrines of natural right were introduced into practice. But tlings have changed again, so that philosophical law has made but little advance, and has gained but little influence in courts of justice. Philosophical treatises, however, have appeared on some departments ; as on criminal law, on civil process, and particularly on public and ecclesiastical law. But sucli works can have no real value without a profound and accurate treatment of positive law, and have, therefore, produced but little effect. The difference of opinion, in the two parties above-mentioned, lias been of practical importance only on one occasion, viz. when it was proposed to prepare new bodies of law for Germany, or to take from the French legislation (which deserves so much respect in regard to public law), the rules of civil and penal law, and the forms of procedure. This plan presupposed that a code might be formed on purely philosophical principles, which, being adapted to mankind in general, would suit all nations and all times, and become the basis and essence of every other. Corrections might be made in this ground-work by degrees, as the developement of the science of law pointed out deviations from the requisitions of natural justice; and the peculiarities of the legislation of each people miglit he added. F'or even those who believed that all positive legislation was based on a foundation so unalterable and eternal, could not help seeing that the additions to be made, for the purposes of practical application, must be drawn from empirical premises, which werc neither suited to all people, nor constant to any given people; so that such a code, drawn fiom natural law, inust still leave a wide field for positive legislation. This view was taken, particularly in considering the value of the French codes, the adoption of which, in Germany, had been recommended. It was inquired whether the civil code of Napoleon had solved the great problcin how to cstablish a code based on natural justice, and capable of so universal application as to be equally adapted to people living on the Vistula and the Seine, on the Elbe, and Po, and Tibcr. It was soon perceived that the Code Napolén did not reach this ideal. On this occasion, the contest hetween the philosophical and historical jurisprudence came up, which was
afterwards particularly revived by Savigny's Vom Beruf unserer Zeit zur Gesetzgebung, 1815 (the Call for Codification in our Times). The peculiar characteristic of this third school of modern juriststhe historical-is, that they regard no legal principles as capable of universal and unconditional application. They view law as a mere result of the accidental relations of a people, and as changing with them. According to the principles of this school, every thing may be right, even slavery aud many other things, which the philosophical school declares to be a violation of the miversal rights of man, and absolutely wrong. The historical school allows a very narrow sphere to that legislation in which law is based on the will of the lawgiver, and a very large one, on the contrary, to the customary law, which commences and perpetuates itself by popular usage, and the decisions of courts. Its ideal is the Roman law, as it is presented in the writings of jurists before Justinian. Every innovation in the law, on the part of government, it regards as dangerous; and especially new codes, which interrupt the silent growth of legal rules in a country. So far, this school agrees with the views of the practical scliool above-menlionell, from which, in fact, it originated. But it rejects all reasons deduced from a supposed nature of things (or, indeed, from philosoplical opinions of right), and derives existing law, not from the decisions of courts and colleges, in which it perceives many glaring errors, but from ancient laws and law-books. It regards as truly right, not what modern times have recognised and followed as right, but what they would lave esteemed right, if they liad properly understood the ancient sources; ;ind therefore considers that all improvement must be the result of a thorongh examination of history. Notwithstanding the manifest inconsistency of this reasoning,-since, if the system of law, in any country, is formed by self-developement, the newest shape is always the only one that ought to be recognised, and the present canuot be explained from the past,-this view has met with much acceptance, since it avers that whatever is, is right, from the very fact that it is; and in history, by which almost any principle may be proved or refuted at pleasnre, it finds a means of crushing every desire of reform ; but it is most favored because it declares all efforts for something higher to be both foolish and wrong. This view, however, has, doubtless, already reached its acme. It has the merit of having di-
rected to the only successfinl way of minderstanding laws by the aid of history; but the erroncous expectation camot long be maintained, of discovering what should be, from knowing what is, and how that which is, grew up. For, although we may be set in the right way by listory; yet nothing but philosophy can direct us to the proper end. History and philosophy supply each other's defects, and either of them, by itself, leads to partial views. It is only together that they can teach nis the true science of law, and impart the wisdom requisite for legislation. A fourth view has been advanced, in modernt times, which may be termed the strict judicial (legistic). Justly offended at the authority over the laws assumed by the practical school, and the uncertainty which had resulted from the fluctuations of their practice, inpatient of the toilsome researches of a historical jurisprudence, and convinced that the pliilosophical school could afford materials to the legislator only, and not to the judge, a respectable number of jurists abandoned the authority of existing practice, and returncd to the positive laws, though less to the spirit of them than the letter, and frequently to the letter of those laws of which the existence was scarcely known among the people. Much has been said of the injury which attends a sudden change of the laws, by introducing a new code. But, if the object of suclı a codc is to confirm and sanction the ideas of right already prevalent among a people, it can never bring witl it consequences so pernicious as followed the calling up from oblivion, and adopting into use, of antiquated laws, Roman forms and subtleties, and the cruel penal laws of the sixteenth century. In case of the literal application of these old laws, no regard can be paid to the circumstances of the age or to the peculiar character of the particular ordinanccs; and, in consequence of the incompleteness and want of teclinical accuracy in the ancient legislation, the laws of the empire, the old and new ordinances of particular countries, papal ordinances, Roman constitutions, and fragments of legal writers, are unavoidably mixed up in the most embarrassing confusion, to form a mosaic, which has the outward appearancc of an organized whole, but is wholly dcstitute of inward, living energy. The listorical school is right in maintaining that laws can be properly comprehended only by an historical examination of their developement; but it has fallen into the error of the legistic school, in asserting that the deficiencies which are found in every
positive institution should be supplied, not from the fountain of all right, but either by the aid of historical hypotheses, which attribute the most artificial systems to nations in the early periods of civilization, or by hetcrogeneous additions from wholly different systens of lecrislation. In so doing, the historical school have particularly forgotten that the objects of their veneration, the juridical elassies of Rome, owed their greatness to a perpetual habit of reverting to the maxims of natural law (their cequitas). Even the Roman lawyers recognised a universal right, which exists prior to all positive legislation, and without it, and, at the same time, in and with it-the rule of conduct wherever the precepts of positive law have not yet reached. There is an important difference betwcen a maxim of law created by a positive ordinance, and one only acknowledged by it as already existing in natural equity. In the first case, the law canmot extend beyond the immediate object of its crcation: in the second, it is of universal application. Of special importance is this distinction in deciding conecrning relations and acts without the bounds of a state,-for example, a crime committed abroad,-cases in which positive law has a very limited application. But, however narrow the last-mentioncd legistic view may be, it las effected much good, by bringing to light the imperfection, and, in some senses, the utter worthlessness, of the existing positive law, and thus aided to promote the reform, which, in several German states, is so necessary.3. If the question sloould arise, From what publie organ the improvement of laws should procced, it may be answered, The various juridical theories exhibit a great practical difference. But, it least, the two principal parties-the historical and philosophical-are perfeetly agreed in the opinion, that mere caprice, which sces in laws only a means of promoting its own favorite ends, should be, as far as possiblc, excluded: and it is also agreed, that legislation is an office with which neither the judiciary nor the exccutive departinents ean be concerned, without injury to each of them. Nothing ean defend men from the arbitrary exercisc of power but a scparation of the executive, legislative and judicial authorities; for in no other way can each of these three powers be kept within its natural limits. The great discrepancy, both in the intrinsic nature of these powers, and in the charmeter of their results, makes it important that each of them should be adminis.
tered by a separate organ. To govern is the business of the state. The executive government is the organ of the people's will. The characteristic of its acts is command. Such commands, however, are not irrevocable, for, at any moment, they may be repcaled. Opinions contrary to then may be advanced; and, if they encroach on previous rights, the aid of courts nay be enlisted in opposition to then. Law, on the contrary,-and, on this point, the philosophical and historical jurisprudence agree,-is founded, not upon any will, but on the discovery of a right already existing, which is to be drawn either from the internal legislation of human reason, or the historical developement of the nation. The law, too, is not irrevocable, nor can any sanction inake it so; but, as long as it exists, it is of irresistible and universal force. Finally, the judicial de cision is binding only on those who have occasioned its application by resorting to judicial proccedings; but, for such, it is an unchangeable rule, and 110 power whatever can subvert it. The different character of these public functions must not only be obvious in their external forms, so as to be understood by every one who would know his duty, but the very nature of the provisions which they require for their operation is so different as to furnish sufficient ground for making the executive, rcgislative and judicial departments distinct in their organization. But it is a great error of modern (constitutional) politics, that they have conceived of this division of duties, as if all connexion and mutual influcnce of the threc powers must he done away; hence the election of judges by the people, and a legislation which could be neither urged nor restrained by the executive (no veto, or only a limited one). This very naturally produced political dissensions, which could only end in the ruin of the state. But, if the cxecutive power is what it ought to be, nothing can be done in the commonwealth without its orders; and both the regislative and judiciary departments must receive from it the impulse of their activity. The convocation of the legislative body, and the proposal of laws, belong to it; and without its consent, no law can become obligatory upon the people. The execution and promulgation of the laws necessarily rest with the exccutive, and are necessarily joined with an minlimited veto. On the other hand, the influence of the executive government on the legislative should be merely a negative influence, and on the administration of justice,
a formal one ; i. e. no law should le passed without its consent, and the judges should receive their offices from the executive, while the cxecutive is to see that they do their duty; but how they shall speak cannot be prescribed to them. (See Courts.) This is the only means by which unity and harmony, in the action of the public authorities, can be maintaince, while every branch of power is supported by the other, and kept in the right path. The entire separation of these three powers is an error which, wherever it has existed, in ancient or modern times, has brought upon the people as great sufferings as if they had been subject to an arbitrary and molimited dominion.-4. The historico-philosophical view of the sources of laws leads us to results concerning the organization of the legislative authorities, whieh, it is to be regretted, have been often too much overlooked. The conscquence of the unreasonable notion, that legislation is an act of the will, was an idea that the general will of the people might be ascertained, if all the different iuterests to be found in the people could be brought together; or, as this is, in fact, impossible, it was considered sufficient to unite, in representative assemblies, the most important interests-those of agriculture, cominerce and manufactures. In respect to the administration of government, and the judicious choice of means to promote the high ends of the state, this sort of representation may be found sufficient. But, when the question is respecting the establishment of laws, in the highest sense of the word, the most comprehensive intelligence is required. A popular representation, for this purpose, should not represent the fluetuating, capricious will of the people, influenced, as it is, by interest, prejudiee and passion. On the contrary, it sliould be a mirror to reflect all the intellectual power of the nation. Consequently the representatives should be chosen from the most learned, and enlightened, and experienced men, who have the best opportunity to become acquainted with the wants of the people and the defects of the existing laws. That it camot be concluded that a man possesses these qualifications, because he owns a piece of ground, is very clear. And it is equally manifest, that it is a great mistake to esteem such a possession a security for good intentions. Disinterestedness is no consequence of wealth, but of the habit of self-denial; and he learns it much more perfectly who has been inured to it from his youth, than one who has, perlaps, never known a
want. To regard landed proprietors as the proper citizens, and others as mere toleratel tenants of the state, is an alsurdity. Landed property is the offspring of the state, and not vice versa; and the state camnot so distribute the soil, that it may depend on the will of the owner to deprive others of the ineans of subsistence. The more a natural, distinct interest separates landed proprietors, and, indeed, in some sense, the cultivators of the soil also, from the rest of the community, the mors should it be made a main object of public institutions to prevent one party from gaining a decided and pernaneut superiority. But political institutions now have frequently the opposite tendency-a circunstance which, in some places, has had a remarkable influcnce on taxation. The second consequence, resulting from the view of legislation here proposed, is, that the number of representatives needs not be proportionate to the number of the people. In a large state, a larger number of deputies is not needed to represent the intellectual capacity of the people; and a small state, if it regards the ends of legislation, properly needs as many persons in its rep-resentative assembly as the larger. For it should comprehend so many diffcrent kinds of knowledge and talent, that no subject may arise on which a judicious decision cannot be made by the body, by the aid of persous within itself; and that the laws may all have the stamp of moderation, arising from due attention to all interests, which often leads, though by no means necessarily, to half measnres. This is the greatest difficulty for smaller states, and they can only prevent it by accommodating their legislation to that of their neighbors. The management of the pullic affairs of communities, from the village up to the state, camnot be called legislation, in the sense in which we are now considering the subject: these may be suitably administered by even the smallest state. But if a small state undertakes to establishi a peculiar system of civil rights, of legal procedure, of penal laws, \&c.., it will receive less advantage from such an insulated system than of injury, from the bars to intercourse with its neighbors, which must result from such institutions. Hence it is altogether desirable that, in states which are only minor divisions of one nation, having the same religion, manners and coltivation, the municipal laws, and the institutions for their administration, should, as far as possible, be made common to the whole, although matters of political administration might be kept dis-
tinct. Thus they might secure to themselves the advantages enjoyed by larger states, in the preparation of like laws by experienced colleges (as the French coun(:il), or by juridical commissions, so as to be accommodated to all the existing institutions. Representative assemblics would be freed from the embarrassment of deliberating and deciding upon topics, of which perhaps few, perhaps not a man among them, has any knowledge. But this is not to be observed in sinall states only: very large ones sometimes suffer still more from this evil; for though, on one side, the mass of knowledge united in the body is greater, on the other, a greater number of ignorant men embarrass and confuse: and while too many take part in making laws, but few take an interest in the subject. The thoughtlessness with which this important duty las been performed in England till the present time, is shown by Miller, in an Inquiry into the present State of the Statute and Criminal Law of England (London, 1822). The people of England, therefore (the paradise of the customary law), are at lengtl beginning to feel the urgent need there is of reducing the chaos of single enactments into general codes. This is called the consolidation of laws. Several learned individuals have undertaken to make sucl compends. [So far the German article.]

We now propose to offer some observations, explanatory of the views of lawyers accustomed to the jurisprudence of the common law, on this interesting subject. Civilians are (it seems from the preceding part of this article) divided into several schools, professing different opinions, and actuated by different principles. The course of the common law naturally leads those who are engaged in its studies to take practical rather than theoretical views of alinost every department of it. Hence they can hardly be said to be divided into different schools, or to indulge much in what may be called philosophical, historical or antiquarian inquiries. The actual system, as it exists, is that which they principally seek to administer; and it is only occasionally that very gifted or bolid ininds strike out into new patlis, or propose fundamental reforms. In the pres--nt age, however, a spirit of inquiry is abroad, and the value and extent of codlification liave, among other topics, heen matter of warm controversy among practical lawyers, as well as practical statesmen. W'e shall speak of this subject in the sequel. Legislation, in its hroadest sense, includes those exereises of sovereign
power, which permanently regulate the general concerns of society. Its chief object is to establish laws. And by a law, we understand a rule, prescribed by the sovereign power of a state to its citizens or subjects, declaring some right, chforcing some duty, or prohibiting some act. It is its general applicability, which distinguishes it from a single edict, or temporary and fugitive order of the sovereign will. It is supposed to furnish a permanent and settled direction to all who are emhraced within its scope. It is not a sudden executive direction, but an annunciation of what is to govern and direct the rights and duties of the persons to whom it applies, in future. The rule being prescribed, it becomes the guide of all those functionaries who are called to administer it, and of all those citizens and subjects upon whom it is to operate. Neither is supposed to be at liberty to vary its obligations, or evade its provisions. But as, in the ordinary course of affairs in free governments, every person has a right, where the matter admits of judicial discussion, to litigate the question, what are the true object and meaning of a law, and how far it bears upon his rights, privileges, or duties,--it is understood, that in free governments, and especially in republics, the ultimate adjudication of what the law is, and how far it applies to a given case, is to be definitively settled by the judicial department of the government. It wonld be obviously unfit for the legislative department to settle retrospectively, as to past cases, what was its own meaning, its true office being to prescribe rules for the future. And though the executive department may, in the first instance, settle for itself what the law requires, its decisions cannot, and ought not to be final ; for it has no means to call the proper parties before it to litigate the question, and no power to decree any judgment. Its proper function is to administer the law, and not to make it; to act upon its true construction, and not to fix it. Otherwise, the fundamental principle of a republican government would be overturned ; and laws would be, not settled rules of action to be judged of by courts upon the litigation of parties, deriving their rights from, or in opposition to them ; but would be arbitrary decisions of the sovercign power, without appeal and without inquiry. In the American states, this principle is thought so fundamental, that our constitutions of government expressly separate the legislative, executive and judicial departments front
each other, and assign to each appropriate duties. It is thought that in $n o$ other way can the private rights and the public libertics of the people be secure. A departure from this doctrine would be deemed a direct advancement towards despotism. When, then, in America and England, it is asked what the law is, we are accustomed to consider what it has bcen dcclared to be by the judicial department, as the true and final cxpositor. No one is at liberty to disregard its exposition. No one is deemed above or beyond its reach, as thus declared. If it is supposed to be misconstrucd, or rather not to carry into full cffect the legislative will, a new or declaratory law is passed, and furnishes the appropriate remedy. And this leads us to remark, that the difference between civilians and common lawyers, in respect to the value and obligatory forec of former decisions (which we call precedents), is inost important. The opinion of no jurist, however high or distinguished is his reputation or ability, is of the least importance in settling the law, or ascertaining its construction, in England or the United States. So far as lie may, by his arguments, or comsels, or learning, instruct the court, or enlighten its judginents, they have their proper weight. But if the court decide against his opinion, it falls to the gromm. It has no farther effect. The decision becomes conclusive and binding, and other courts are governed by it, as furnishing for them the just rule of decision. No court would fecl itsclf at liberty to disregard it, unless upon the most urgent occasion, and when it interfered with some other known rule or principle ; and even then, with the greatest caution and deference. In countries where the common law prevails, it is deemed of infinite importance, that there should be a fixed and certain rule of decision, and that the rights and property of the whole community should not be delivered over to endless cloubts and controversies. Our maxim, in trutl, and not in form merely, is, . Misera est servitus, ubi jus est vagum aut incertiom. All this (it seems) is different in the civil law countries. There, the celebrity of a particular jurist may introduce a decisive change in the rule, or at least in the adıninistration, of the law; and even different schools of opinion may prevail in differcnt ages. Precedents have not, as with us, a fixed operation and valne; and judicial tribunals consider, that a prior decision governs only the particular case, without absolutely fixing the principles involved in it. The practice under
the common law has been found to he very beneficial; and, experience having given it a sanction and value which supersede all theory and reasoning about it, it is not often that the matter is discussed upon abstract or pliilosoplical views. But there are inany grounds, which might be urged in support of this practice, which are capalle of vindicating it in the most philosophical discussions. The question, in its most general form, must involve this inquiry, What is best for society, with a view to its interests, its sccurity, its permanency? Now, it may not be irrelevant to renark, that in every modern government, practically fiee, the common law rule has prevailed by general consent; and in those of the Ancrican states which were formerly under the civil law jurisdiction, there has been no desire ever expressed to retain their own rule. On the contrary, the cominon law rule has been cagerly adopted. It is not onl purpose to enter into a review of all the gronnds on which the common law rule might be vindicated; but there are one or two whicl deserve attention. In the first place, the rule has the advantage of producing certainty as to rights, privileges and property. Jn the next place, it controls the arbitrary discretion of jndges, and puts the casc beyond the reach of cemporary feelings and prejudices, as well as beyond the peculiar opinions and complexional reasoning of a particular judge; for he is hemmed round ly authority on cvery side. In the next place, the consciousness, that the decision wiil form a permanent precedent, affecting all future cases, introduces necessarily great caution and delibcration in giving it. If the case only were to be decided, it might be disposed of upon sudden impressions, and upon circumstances of hardship or compassion, or kindness, or special equity. But as the principles involved in it arc to govern all future cases, and those principles must be derived from other aualogies of the law, and be consistent with them, there are very strong restraints upon the judgment of any single judge. And there can be no permanent evil attendant upon any adjudications of this sort ; for the legislative 'power may always apply the proper amendatory corrective at its will. And if the judges are actuated by corrupt motives, tliey may be removed by impeacliment. It is no small proof that the system works well, that, in the comse of many ages, very few decisions (comparatively speaking) have bepn orertimed by the courts themselves, and tilat the legislature has not often found it
necessary to change the rule prescribed by the courts. In fact, positive laws have been annended a hundred times, by the legislature, where one judicial rule has been interfered with. The changes which have bcen wrought in the fabric of the laws, have not so much arisen from inisapplication of principles by the courts, as from the new state of society having rendered the old institutions and laws inexpedient or inconvenient. The circumstances which have been thus alhuded to, have introduced a general and settled course of interpreting the laws, in countries govemed by the common law. No such thing is known, in our jurisprudence, as a philosophical, or historical, or practical school of interpretation. And our laws are not sulject to any varieties of interpretation grounded upon the present predominance of either of them. Certain maxims were early adopted, and they have never been departed from. Supplementary and auxiliary maxims of interpretation have necessarily been introduced. But, when once incorporated into the system, they have been deemed conclusive and obligatory. The sense of a law once fixed by judicial interpretation, is for ever deemed its true and only sense. Among the rules of interpretation belonging to and fixed in the common law, we shall enumerate a few, sorne of which, indeed, may be truly said to belong to the universal elements of rational jurisprudence. It is, perhaps, the exactness and uniformity with which they are applied, by our judicial tribunals, which give them their principal value. Laws may be divided into the following classes: declaratory laws ; directory laws; remedial laws ; and prohibitory and penal laws. Declaratory laws, except so far as they operate upon future rights, are not within the scope of the legislative power in the United States. Our legislatures can - only declare what the law shall be, not what it has been, or is; how it shall govern rights in future, not how it shall act upon the past. Directory laws are those which prescribe rules of conduct, or limit or enlarge rights, or point out modes of remedy. Remedial laws are those whose object it is to redress some private injury, or some public inconvenience. Prohibitory and penal laws are those which forbid certain things to be done or omitted, mder a penalty, or vindicatory sanction. In the nature of things, there is not any indispensable reason why the same rule shonld be miformly applied in the interpretation of all of these different sorts of laws. We shall see that the common law
allows some distinction in this respect. The fundamental maxim of the common law, in the interpretation of statutes, or positive laws, is, that the intention of the legislature is to be followed. This intention is to be gathered from the words, the context, the subject matter, the effects and consequences, and the spirit or reason of the law. But the spirit and reason are to be ascertained, not from vague conjecture, but from the motives and language apparent on the face of the law. 1. In respect to words, they are to be understood in their ordinary and natural sense, in their popular meaning and common use, without a strict regard to grammatical propriety or nice criticism. But the ordinary sense may be departed from, if the context or connexion clearly requires it; and then such a sense belonging to the words is to be adopted as best suits the context. 2. Again: terms of art and technical words are to be understood in the sense which they have reccived in the art or science to which they belong. 3. If words have different meanings, and are capable of a wider or narrower sensc, in the given connexion, that is to be adopted which best suits the apparent intention of the legislature, from the scope or the provisions of the law. 4. And this leads us to remark, that the context must often be consulted, in order to arrive at a just conclasion, as to the intent of the legislaturc. The true sense in which particular words are used in a particular passage, may be often determined by comparing it with other passages and sentences, when there is any ambiguity, or intricacy, or doubt, as to its meaning. 5. And the professed objects of the legislature in making the law often afford an excellent key to unlock its meaning. Hence resort is often had to the preainble of a statute, which usually contains the motives of passing it, in order to explain the meaning, especially where ambiguous phrases are used. $\dot{\mathrm{C}}$. For the same purpose, the subject matter of the law is taken into consideration; for the words must necessarily be understood to have regard thereto, and to have a larger or narrover meaning, according as the subject matter requires. It cammet be presumed, that the words of the legislature were designedly used in a manner repugnant to the sulject matter. 7. The efficts and consequences must also be taken into consideration. If the effects and consequences of a particular construction wonld be absurd, and apparently repugnant to any legislative intention deducible from the objects or context of the
statute, and another construction can be adopted, which harmonizes with the general design, the latter is to be followed. Bht in all sueh cascs, where the effeets and consequences are regarded, they are not permitter to destroy the legislative enactment, or to repcal it, but simply to expound it. If, therefore, the legislature has elearly expressed its will, that is to be followed, let the efficts and eonsequences be what they may. But general expressions, and loose language, are never interpreted so as to include eases which manifestly could not have been in the contenplation of the legislature. 8. The reason and spirit of the law are also regarded ; but this is always in sulordination to the words, and not to control the natural and fair interpretation of them. In short, the spirit and the reason are derived prineifally from examining the whole text, and not a single passage ; from a close survey of all the other means of interpretation, and not from mere private reasoning as to what a wise or benefieent legislanue inight or might not intend. Cases, indeed, may readily be put, whieh are so extreme, that it would he diffieult to believe that any rational legislature could intend what their words are eapable of including. But these cases furnish little ground for practieal reasoning, and are exactly of that class, where, from the generality of the words, they are capable of contraction or extension, according to the real ohjects of the legislature. These objects once aseertained, the diffieulty vanishes. This natural, and sometimes neeessary limitation upon the use of words in a law, we often call construing them by their equity. In reality, nothing more is meant, than that they are construed in their mildest, and not in their harshest sense, it being open to adopt either. 9. For the same purpose, in the common law, regard is often had to antecedent and subsequent statutes upon the same subject; for, being in pari materia, it is natural to suppose, that the legislature had them all in their view in the last enactment, and that the sense which best harmonizes with the whole, is the true sense. 10. For the like reason, words and phrases in a statute, the meaning of which has been ascertained (especially in a statute on the same subject), are, when used in a subsequent statute, presumed to be used in the same sense, unless something occurs in it to repel the presumption. 11. As a corollary from the two last rules, it is a maxim of the common Law, that all the statutes upous the same
subject, or having the same object, are to be construed together as one statute ; and then every part is to be taken into considcration. 12. Another rule is, to construe a statute as a whole, so as, if possible, or as nearly as possible, to give effect, and reasonable effect, to every clanse, sentence, provision, and even word. Nothing is to be rejeeted, as void, superfluous or insig. nifieant, if a proper place and use can be assigned to it. 13. If a reservation in a statute be utterly repugnant to the purview of it, the reservation is to be rejeeted; if the preamble and the enacting clauses are different, the latter are to be followed. But the reservation may qualify tho purview, if consistent with it, and the preamble control the generality of expression of the enacting clauses, if it gives a complete and satisfactory exposition of the apparent legislative intention. 14. The common law is also regarded, as it stood antecedently to the statute, not only to explain terms, but to point out the nature of the mischief, and the nature of the remedy, and thus to furnish a guide to assist in the interpretation. In all cases of a doubtful nature, the common law will prevail, and the statute not be constried to repeal it. 15. Hence, where a remedy is given by statute for a particular case, it is not construed to extend so as to alter the common law in other cases. 16. Remedial statutes are construed liberally; that is, the words are construed in their largest sense, so far as the context permits, and the misehief to be provided against justifies. By remedial statutes, we understand those whose objeet is to redress grievanees, and injuries to persons. or personal rights and property, in civil cases. Thus, statutes made to suppress fraurls, to prevent nuisanees, to seeure the enjoyment of private rights, are deemed remedial. 17. So statutes are to be construed liberally which concern the public good; such as statutes for the advancement of learning, for the maintenance of religion, for the support of the poor, for the institution of charities. 18. The general rule is, that the sovereign or government is not included within the purview of the general words of a statute, unless named. Thus, a statute respecting all persons generally, is understood not to include the king. He must be specially named. But, nevertheless, in statutes made for the puhlic good, which are construed liberally, the king, although not named, is often ineluded by implication. 19. On the other hand, penal statutes, and statutes for the punishment of
crimes, are always construed strictly.The worls are construed most favorably for the citizens and suljects. If they adnit of two senses, cach of which may well satisfy the intention of the legislature, that construction is always adopted which is most lenient. No case is cver punislable, which is not completely within the words of the statute, whatever inay be its enormity: No language is ever strained to impute guilt. If the words are doubtful, that is a defence to the accused; and he is eutitled, in such a case, to the nost narrow exposition of the terms. This rule pervades the whole criminal jurisprudence of the common law, and is never departed from under any circumstances. It is the great leading principle of that jurisprudence, that men are not to be entangled in the guilt of crines upon aubiguous cxpressions. But it is not to be understood, that the statute is to be construed so as to cvade its fair operation. It is to have a reasonable exposition, according to its terms; and, though penal, it is not to be deemed odious. 20. Private statutes, also, gencrally reccive a strict construction ; for they are passed at the suggestion of the party interested, and are supposed to use his language. 21. Statutes conferring a now jurisdiction, and, especially, a summary jurisdiction contrary to the general course of the commou lisv, are construed strictly. They are deemed to be in derogation of the comnon rights and liberties of the people minder the common law, and are on that account jealously expounded. There are many other rules, of a more special character, for the construction of statutes, which the extreme solicitude of the common law to introduce certainty, and to linit the discretion of judges, has incorporated into its maxiris. But they are too numerous to be dwelt upon in this placc. They all, however, point to one great object-certainty and uniformity of interpretation ; and no court would now be bold cnough, or rash enough, to gainsay or discredit them. On the contrary, it is the pride of our judicial tribunals constantly to resort to them for the purpose of regulating the necessary cxercise of discretion in construing new enactments. The legislative power of a govemment is generally coëxtensive with its sovereiguty; and thereforc embraces every thing which respects the conccrins of the society. But it is in fact employed, if not universally, at least generally, in mere acts of amendment and supplenent to the existing laws and institutions. Its office is ordinarily
not so much to create systems of laws, as to supply defects, and cure mischiefs in the systems already existing. The question is often discussed in our day, how far it is practicable to give a complete system of positive law, or a complete code of direct legislation. And, if practicable, the farther question arises, how far it is desirable, or founded in sound policy. These questions have been the subject of ardent controversy among the civilians and jurists of the continent of Europe, living under the civil law ; and, as may well be supposed, different sides have been taken by men of distinguished ability and learning ; and the controversy is, and probably for a long period will be, pursued with great anination and powers of reasoning. In the countries governed by the common law, and especially in England and the U. States, the same questions have of late been matter of wide discussion among the legal profession, as well as among statesmen, and a great diversity of opinion has been exhibited on the subject. It will be our object, in the sequel of these remarks, to put the reader in possession of some of the main grounds of the controversy. The legislation of no country, probably, ever gave origin to its whole body of laws. In the very formation of society, the principles of natural justice, and the obligations of good faith, must have been recognised before any common legislature was acknowledged. Debts were contracted, obligatious created, property, especially personal property, acquired, and lands cultivated, before any positive rules were fixed, as to the rights of possession and enjoyment growing ont of them. The first rudiments of jurisprudence resulted from general consent or acquiescence ; and when legistation began to act upon it, it was rather to confirm, alter, or add to, than to supersede, the primitive principles adopted into it. We, in fact, know of no nation, or, at least, of no civilized nation, whose history has reached us, in which a positive system of laws for the exigencies of the whole society was coëval with its origin; and it would be astonishing if such a nation could be found. Nations, in their origin, are usually barbarous or rude in their habits, customs and occupations. They are scanty in population and resources, and have neither the leisure, nor the inclination, nor the knowledge, to provide systems for future use, suited to the growing wants of socicty, or to their own future advancement in the arts. A few positive rules suffice, for the pres-
ent, to govern them in their most pressing concerns; and the rest are left to be disposed of according to the habits and manners of the people. Habits soon become customs ; customs soon become rules; and rules soon fasten themselves as firmly upon the existing institutions, as if they were positive ordinances. Wherever we trace positive laws, in the early stages of society, they are few, and not of any wide extent; directions for special concerns, rather than comprehensive regulatious for the universal adjustment of rights. No man can pretend that, in Asia, any such universal rules were established by positive legislation, at the origin of the great nations by which it is peopled. The instructions of Moses, as promulgated by divine authority, for the government of the Jews, are not (as every one perccives) designed for every possible exigency of contract, or right, or injury, or duty, arising in the course of the business and history of that wonderful people. They are rather positive precepts, adapted to great occasions, and to govern those concerns which respected their wants, their spiritual advancement, and their duties as the chosen people of God. The Greeks are not known to us, in their early or later history, as having liad a code of universal extent. The Romans, in their carly history, had few positive laws; and those secm to have bcen borrowed from other sources. We often, indeed, see it stated, that the common law of England was originally formed from statutes now obsolete and unknown. But this assertion is wholly gratuitous. There is no reason to suppose that, in the carly history of its jurisprudence, more was done than is usual in other nations, at the sume period of their progress, sucl as the promulgating of some leading regulations, or the forming of some great institutions for the security of the public. In fact, a great portion of the English common law is of modern growth, and can be traced distinctly to sources independent of legislation. The commercial law of England is not two centuries old, and scarcely owes any thing important to positive legislation. In truth, the formation of codes, or systems of gencral law, for the government of a people, and adapted to their wants, is a business which takes place only in advanced stages of society, when knowledge is considerably diffused, and legislators have the means of ascertaining the best principles of policy and the best rules for justice, not by mere speculation and theory, but by the results of experience, and the rcasoning
of the learned and the wise. Those codes with which we are best acquainted, are manifestly of this sort. The institutes, and paudects, and code of Justinian, were made in the latter ages of Roman gran-deur--nay, when it was far on the decline, -not by instituting a new system, but by embodying the maxims, and rules, and principles, which the ablest jurists had collected in different ages, and from all the various lights of reason, and juridical decision, and gencral experience. No man imagines that Rome, in her early history, was capable of promulgating, or of acting upon, such a system. And this system, large as it was, las no pretcnsion to be deemed complete, even for Rome itself. It left an infinite number of liuman conceris undecided by its text, which werc, of course, to be submitted to judicial decision, and to receive the judgment of the wise men, who slould be called, from time to time, to declare the law ex requo et bono. It may indeed be assumed, as a general truth, that the body of every systen of law which has hitherto governed human society, had its origin as customary law; and if it has ever assumed the form of positive legislation, it has been to give it greater saluctity and extent, as well as greater uniformity of operation. This is certainly truc in respect to the common law. That system, as administered in England and the U. States, is, as compared with the positive code, or statutes, of an inmeeasurably wider extent, both in its principles and its practical operation. A man may live a century, and feel (comparatively speaking) but in few instances the operation of statutes, either as to his rights or duties; but the common law surrounds him, on every side, like the atmosphere which he breathes. Returning, then, to the question before stated, it may be inquired, whether it be practicablc, in a refined and civilized state of society, to introduce a positive code, which shall regulate all its concerns. That such a code could be formed in a rude or barbarous age, so as to be adapted to all their future wants and growth, in passing froin barbarism to refinement, seems absolutely incredible. That it could be formed in a refined age, when learning, and large experience, and cnlightened views, and a sagacious forecast, might guide the judginents of the legislature, is the point leforc us. In the first place, it has never yet been done by any people, in any age. The two most illustrious instances of codification are that of Justinian and that of Napoleon. Neither of these purports to
be a complete system of laws and prineiples, superseding all others, and abolishing all others. As far as they go, they purport to lay down positive rules to guide the judgment of all tribunals, in cases within them. But other eases are left to be deeided as they may arise, upon such priuciples as are applicable from analogy, from reasoning, from justice, from the eustomary law, or from judicial diseretion. A positive prohibition to decide in cases not provided for by these codes, is not contained in either. But is it possible to foresee, or to provide beforehand, for all such eases? Society is ever varying in its occupations and concerns, in its objects and its pursuits, in its institutions, its pleasures, its inventions, its intelligence, and, in short, in innumerable relations and diversities of measures and means. How is it possible to foresee, or to limit, these relations or diversities? How is it possible, especially in free governments, to reduce all human acts to the same positive elements? to prevent contraets, and obligations, and rights, and equities, and injuries, and duties, from becoming mixed up in an infinite series of permutations and combinations? Until it has been ascertained what are the utmost limits of human relations, and those limits, with all their intermediate details, can be clearly defined, in every shade of difference, low car. any systern of laws be adequate to provide for, or to guard them, or to fix the rights growing out of them? To suppose that man is eapable of all this, is to suppose that he is omniscient, all-wise, and all-powerful; that he is perfect, or that he ean attain perfection; that he can see all the future in the past, and that the past is present to him in all its relations. The statement of such a proposition carries with it its own refutation. While man remains as he is, lis powers, and caparities, and acts, must forever be imperfect. But it may be said, that a positive code may be firamed, and a deelaration made that it shall be deemed the sole guide and rule, and that all other rules shall be prohibited. Certainly this may be done. But the effect of this wonld be, not to form a perfect code for all the future exigencies of society; but to declare that whatever was left unprovided for in the code, should be neither matter of right nor wrong. It would be to deelare, that, as to all other transactions, now and hereafter, society slould be utterly lawless; and, of conrse, it would be to declare, that a system coufe:sedly imperfect, and not meeting the wents or exigeneies, the
rights or the wishes of society, should still govern it. What would this be, but to provide a bad code for human concerns, which it could not measure or manage? From these considerations, we may assume it as a concession granted on all sides, that a perfect code, to regulate all present, and, a fortiori, all future concemis of any eivilized society, by positive rules, applicable to them, is morally impossible. The only real question is, whether a positive code can be provided, adequate, in a gencral sense, to the present known wants of society. That codes may be formed, more or less comprehensive, to regulate many or few coneerns, to supply defeets, or to give symmetry and order to the law on particular subjeets, cannot be doubted. It has been often done. Perhaps no civilized nation has ever existed, in which there was not, at the same time, a written and an unwritten law, or, in other words, a rule of positive institution and a rule of customary law. All speeial deerees antl ordinances of the sovereign power are of the former kind. Many subjects are of such a nature as to require some positive rule, seeing that natural law cannot fix them upon any invariable basis. For example, there is nothing in the uature of things by which we can say, that land shall, in all possible states of society, dcscend to the possessor's heirs, or who those heirs shall be ; that he shall have a right to dispose of them by testament or deed, and how that testament or deed shall be evidenced; whether bills of exeliange and promissory notes shall be negotiable or not, and to what extent binding upon the parties. These subjects, in the origin of a society, must either be positively provided for, or no rights can exist (strietly speaking) until they have hecome, by usage, fixed in a particular form. But most nations, with whose history we are acquainted, have had many positive laws. And to suit their institutions to the exigencies of society, in all its changes, there must be ordinances to change the old and to frame new rules. In ancient Rome, in the modern governments of coutineutal Europe, and especially in France and in England, great alterations have, from time to time, been made in the existing system of laws. Fundamental laws have been abrogated; amendatory provisions have been established ; existing rules have been methodized, confirned, explained, and limited; and new rules prescribed for new cases. The ordinances of Louis XIV, of 1673 and 1681 , on the subject of meritime and
commercial affairs, are striking instances of this sort. The abolition of feudal tenures ; the regulation of uses and charities; the allowance of last wills and testaments, made in a prescribed mode; the provisions to suppress frauds, in the statute of frauds; the registration of conveyances of lands; the negotiability of promissory notes; and, above all, the positive enactments, various and alnost innumerable, in the criminal code, are illustrations of the same fact, in the listory of English legislation. All these statutes furnished, to a limited extent, a code on the particular subject. And we have recently seen, in the consolidation of the criminal laws of England into a few statutes, under the auspices of sir Robert Peel, a striking instance of substantive codification of the criminal law of England, in many of its most important provisions. But the objections often urged against codes, are not meant to be applied to legislation of this sort, but to systems, which are promulgated for the government of the great concerns of nations, in all their rarious departments and interests. How far this can be done, has bcen a matter of considcrable theoretical discussion. But the question has been practically answered by the celcbrity of several positive codes. Aud among thosc whose success and wisdom have been most generally acknowledged, are the code of Justinian and the code of Napoleon. That either of them furnishes complete rules for all the concerns of society, or excludes the nccessity of judicial interpretation, or positive legislation, cannot be affirmed. That each of them covers a vast mass of the ordinary concerns of society, and fixes, positively and clearly, a great many wrongs and rights, and points out the proper redress, in cases where riglits are to be rindicated and wrongs repressed, cannot well be denied. The question, then, is fairly presented, how far codes of this sort (the ouly ones which, in the actual state of society, arc morally possible) are desirable, and founded in sound policy. It is here, that the advocates and the opponents of codes, under the jurisprudence of the common law, meet on dehatable ground. The lovers of ancient institutions, of existing laws, of customary principles, oppose codes as inconvenient and unnecessary. They hold them to be inconvenient, bccause they fix a stubborn rule, which shall govern future cases, instead of learing them open to the free operations of the common law, which adapts itself to all the circumstances of
the age. They maintain, also, that codes are unnecessary; for, so far as there is any rule, it is already known in the common law; and positive legislation cannot make it more so. It is added (and it is true), that law is gradually formed, and mustdiffer in different ages, according to the different circunstances of society; that it must be varicd according to the progress or regress of a nation; that it can rarely settle comprehensive principles; and must, by degrees, thread its way through the intricacies of human actions; and that an inflexible rulc might work quite as much mischief as none at all; that no legislature can make a system half so just, or perfect, or harnnonious, both from want of time, and experience, and opportunity of knowledge, as judges, who are successively called to administer justice, and gather light from the wislom of their predecessors. Most, if not all, of these suggestions, inay be admitted to be correct, and yet they do not settle the controversy. In the first place, the objectors must admit, that, under the common law, there are positive statutes, which regulate many great concerns and rights of the countries governed by it. The descent and distribution of real estates, the making of last wills and testaments, the forms and ceremonies attendant upon conveyances of real estate, to say nothing of other important subjects, are, in every one of the $\mathbf{U}$. States, provided for by positive statutes. Here we have a rule, which is absolute and inflexible. To say that, if found inconvenient, it may be altered, so as to stuit the future interests of the particular state, is, in effect, no argument at all; for the same may be said as to any provision of a systematic codc. No code is supposed to be unalterable. Again, if it be said, that the lcgislaturc may, and often does, in an carly stage of society, fix great principles and institutions, and then leaves the rest to judicial decisions, and thereby shows its wisdom, the true answer is, that the same reasoning applies to all codes, however extensive, if they leave the judicial tribunals at liberty to decide upon new cases, not governed by, or necessarily included in, the terms of the codc. So far as the legislature has laid down principles (whetlier more or less extensive is of no consequence), these govern ; beyond them, all is left as before. Again, the common law is itself, as far as it goes, a system of rules. These rules are fixed, ccrtain, and invariable, as to all cases falling within them. They are quite as unyielding as any code can be. When the common
law has declared that the eldest son shall be the sole heir, and that the half-blood shall not inherit, a court has no more liberty to depart from these rules, or to refuse to apply then to any case falling within them, upon any notion of hardship, or inconvenience, or ill adaptation to the exigencies of society, than it has a right to say, that a last will and testament shall be good, though not executed according to the requirements of a statute. In each case, it is bound, and bound to the same cxtent. If the question were, whether a positive code should contain a clause prohibiting courts of justice from deciding upon cases not within the purview of the code, there might be much to urge against the policy and reasonableness of such a clause ; but it would furnish no objection to other parts of the code. The only point, with reference to a code, which, under this aspect, would deserve consideration, is, how far it would be desirable to provide for cases which may be foreseen, but have not, as yet, actually been subjected to legislative decision. On one side, it may be said, that it would be best to leave all such cases to be decided, as they arise, upon the result of human experience and human judgment, then acting upon all the circumstances. On the other hand, it may be said, that it is better to have a fixed, present rule, to avoid litigation, and to alter it in future, if unexpected inconveniences should arise. The reasoning on cach side is sound, when applied to particular cases. On each side, it admits of question, when applied to all cases. It may be best, in many cases, to leave the rule to be made, when the case arises in judicial controversy. In others, it may be far better to establish a present rule, to clear a present doubt, or fix a limit to what is now uncertain. Take the case of a bill of exchange, or promissory note; and suppose the question were, at what tinne demand of payment should be made, when it was payable on time, and no rule existed, and yet there was an immense amount of property dependent upon having a fixed, uniform rule; and, until so fixed, there must be endless litigation. Can any one doubt of the benefit of a rule, such as is now fixed in the commercial law of our country, for the purpose of securing certainty, viz. that payment must be demanded on the day on which it becomes due. On the other hand, suppose it were now proposed to make a law, fixing what should be the rate of wages in all future times, in all privatc employinents; would it not, at once, occur
to be impolitic to act upon a rule, the effects of which might imıncdiately, or in future, press unequally and injuriously upon different interests in society? Again, it is said to be unnecessary to reduce the rules of the common law to a code, for they are as certain now as they would be in a positive corle. They are cven more so, because the legislature cannot be presumed able to lay down a positive rule, with all the limitations and qualifications of the common law. Now, both of these suggestions admit of a satisfactory answer. If the rule exists, and lias certainty in the common law, it can be stated. If there are any known exceptions, limitations and qualifications, upon a rule, those also can be stated. If nothing beyond a particular limit is known, then legislation can, at least, go to that limit. And as to all other cases, the same uncertainty exists, botlı at common law and in legislation. The difficulty of the argument consists in assuming, that, because the legislature has prescribed the same rule as the common law, the courts are thereby prohibited from doing what they possessed the power to do before, in the absence of any rule, viz. to find out what is the rule that ought to govern. Now, the legislature may as well leave this power in the courts, after a code, as the common law; and it will be best, unless there is a positive prohibition to the contrary. The other part of the suggestion applies only to the point, whether the code is well or ill formed by the legislature. If badly formed, it will, of course, be proportionally bad; but that furnishes no objection to a code, but to the mode in which it is executed. Then, again, as to the suggestion that it is unuecessary, because the rule already exists in the comimon law, and has certainty : to this several answers may be given. In the first place, if it be conceded, that there is entire certainty in the rule, at cominon law, there can be no harm in making the rulc positive. It may do good; for it will instruct mayy, in and out of the profession, in respect to their rights and duty, who are now sadly ignorant of both, or are liable to be misled by their inperfect inquiries, or their limitcd sources of information. Every man may be able to peruse a concise text; but every man may not have leisure or ability to study a voluminous commentary. Besides, cren in relation to the doctrines of the common law, many of them lie scattered in different cases, and many of them are not sn clear as not to admit of different interpretations, by minds of different learning and
ability. Even lawyers of great rescarch and accuracy, especially where the doctrine, though on the whole clear, is matter of deduction and infercnce, may not, at once, come to the correct conclusion ; and others of less learning and ability may plunge into serious errors. Now, it would be no small gain to have a positive text, which should give, in such cases, the true rule, instead of leaving it open to conjecture and inference by feeble minds. Again, there are many subjects of great intricacy and complexity, which can be fully mastered only by very able minds, resting, as they do, upon nice, and, sometimes, upon technical reasonings, not seen by the common reader. In such cases, the text may admit of very exact statement, but the commentaries necessary to deduce it, may be exceedingly elaborate. The demonstration, or last result, may be clear, but the steps in arriving at it, exceedingly pcrplexed and embarrassing. It may require an analysis by the greatest minds to demonstrate ; but, when once ammounced, it may be understood by the most common minds. For instance, the subject of contingent remainders and executory deviscs is of uncommon complexity in the common law, and many a lawyer may read Mr. Fearne's admirable treatise on the subject, without feeling compctent to expound all its doctrines. And yet, put every principle into a positive text, with all its limitations and restrictions (not to be made out by argument and inference, but given in a direct form), and his labors and his reasoning would be materially abridged, and certainty exist where darkness before overshadowed his mind. Again, the common law has now become an exceedingly voluminous system; and as its expositions rest, not on a positive text, but upon arguments, analogies and commentaries, every person, who desires to know much, must engage in a very extensive system of reading. He may employ half his life in mastering treatises, the substance of which, in a positive code, might occupy but a few hundred pages. The codes of Justinian, for instance, superseded the camel-loads of commentaries, which were antecedently in usc, and are all now buried in oblivion. The Na poleon codes have rendered thousands of volumes only works of occasional consultation, which were before required to be studied very diligently, and sometimes in repcated perusals. Again, what is to be done in the common law, where there are conflicting decisions on the same point, or converging series of opposite doctrines,
approaching towards a conflict? The rule is herc confessedly uncertain. Why should not the legislature interfere, in such a casc, and fix a rule, such as, on the whole, stands upon the better reasouing, and the general analogies of the law? In point of fact, this is often donc. Declaratory laws, in form, are unusual among us; but laws to clear doubts and difficulties are very common. Such interferences ought, doubtless, to be made with caution and prudence, and great deliberation. But this furnishes no just objection to a reasonable exercise of the power. But in the practice under the common law, there is a still stronger ground for interference. In the first place, what the common law is, is always open to question; and if authorities are suggested on eithcr side, it is common enough to find the rulc deduced from them, doubted, denied, or explained away, by parties in an opposite interest. Courts are bound to hear as well as to decide; and although a court may think the rule of the common law clear, from their own prior rescarches and reasoning, it will rarely feel at liberty to stop eminent counsel, when they deny the rule, or seek to overthrow thc authorities and reasonings by which it is supported. The spirit of our tribunals, and the anxious desire, not only to do, but to appear to do justice, lead to a vast consumption of time in these discussions. If the legislature had once recognised the rule in a positive code, there would be an end of all such reasoning. The only question which could remain, would be, whether the rule were applicable to the case. In the next place, there are, upon some doctrines of the common law, a vast multitude of authorities to examine, compare and understand, which requires not only great diligence, but grcat skill. In some cases, there are shades of difference fit for cominent ; in others, obiter dicta, which are to be qualified; in others, doubts thrown out upon collateral heads; in others, reasoning not altogether satisfactory. Under such circumstances, what is to be done? The advocate on the one side comments on every case, and the language of every judge, which furnishes any color of support for his client. His arguments must be met and answered on the other side, not only because no advocate can know what the judges will decide, but what will be the influence upon their minds of a dictum, or doubt, or incidental remark or reason. It is indispensable, therefore, to examine the whole, although, perhaps, neither party doubts what the amount of
authority, on the whole, supports. On one point (we believe) a learned English judge said, many years ago, that there were then more than 170 authorities. It is most probable that the number is now doubled; and yet, upon this very point, a legislative enactment of three lines might put controversy at rest for ever. Perhaps no man in or out of the legal profession would now doubt what the rule ought to be. The difficulty is, that a rule has either been adopted which works inconveniently in particular cases, or a rule has grown out of a hasty adjudication, which subsequent judicial subtilty has been desirous of escaping from; but it is not easy to do so, without breaking in upon the acknowledged force of the rule. Hence distinctions, nice, and, perhaps, not very satisfactory, are found, as blemishes in some parts of the law, which need the legislative hand to extirpate or correct them. But it has been urged, as has been already incidentally noticed, that it is a great advantage to have law a flexible system, which will yield to the changing circumstances of society; and that a written code gives a permanence to doctrines, which would otherwise be subject to modification, so as to adapt them to the particular character of the times. This objection has been already in part answered. In respect to the common law doctrines, they cannot now be changed, whatever may be the changes of society, without some legislative enactment. They furnish a guide to all cases governed by them, until the legislature shall promulgate a new rule. Courts cannot disturb or vary them; and the question of their application to new cases is equally open, whether there be, or be not a code. The legislature can, with the same ease, vary its code as its common law. It can repeal, amend or modify either. But another principal objection is often suggested, and that is, that all the parts of the common law are not in a state susceptible of codification ; and that, as we cannot form a complete system of it, one great object of a code must fail. It may be admitted, that some parts of the common law are too imperfectly settled in principles, and too little understood in practice, to allow of any exact codification. But these parts are principally obsolete, or of rare occurrence and application in the common business of life; so that, if they admitted of being reduced to a text, it may be well doubted if they were important enough to deserve it. There are other parts, again, which have
grown up in modern times, which may be admitted to be yet in an immature and forming state, in respect to which, perhaps, it were better to wait the results of experience, than to anticipate them by positive law. Conceding all this, it falls far short of establishing the inutility of a code in other departments of the common law, not open to the like objections. Because we cannot form a perfect system, does it follow that we are to do nothing? Because we cannot, without rashness, give certainty to all possible or probable details of jurisprudence, shall we leave every thing uncertain and open to controversy? There is not a single state of the Union that has not repeatedly revised, changed, and fixed, in a positive code, many of its laws. The criminal code has almost every where received, in some of its principal branches, a methodical form. Virginia, long ago, reduced some important portions of her law to a positive text. New York has recently gone much farther, and, in the form of a revised code, made very extensive alterations in her common law, as well as in her statutable law. England, in our own time, has consolidated the most important heads of her criminal jurisprudence, in a new and methodized text. No man can doubt, that revisions of this sort may be useful, and, indeed, indispensable for the wants and improvements of society, in its progress from one stage to another. The question of more or less is a mere matter of expediency and policy. It is not a little remarkable, that, in England, almost every change in the general structure of her laws, by positive legislation, has, in all ages, met with a similar objection and resistance, and, when once adopted, has been generally, if not universally satisfactory. But there are many branches of the common law which can, without difficulty, be reduced to a positive text. Their main principles are embodied in treatises, accurate and full, and there can be no want of learned men ready to form an outline of them for the consideration of the legislature. Our commercial law is generally in this state. The law of bills of exchange and promissory notes, of insurance, of shipping and navigation, of partnership, of agency and factorage, of sales, of bailments, and many kindred titles, admits of codification to a very high degree of certainty; and yet, in these branches, there is still room enough to controvert particular decisions and authorities, to make it desirable to give a positive sanction to the better doctrine, and
thus to save the profession from laborious researches, and the public from expensive litigation. 'The ordinance of Louis XIV, on commercial law, dried up a thousand sources of disputation; and the present code of commerce of France has scttled, in a positive manner, most of the questionable points, which had been found unprovided for by that ordinance, and were resigned to judicial decision in the intermediate period. Besidcs, a code furnishes the only safe means of incorporating qualifications upon a general principle, which experience has demonstrated to be proper and politic. Courts often lament that a principle is established in too broad terms for the public good, and yet do not feel themselves at liberty to interpose exceptions which the principle does not sanction.-This article has already spread out into a great length, and inust now be closed. The result of the whole view, is to codes, is, that neither the friends nor the opponents of them are wholly right in their doctrines or their projects; that, in every civilized country, much may be done to simplify the principles and practice of the law by judicious codification, and to give it uniformity and certainty ; that How nuch ought to be done? is a question not admitting of any universal response, but is, or may be, different as to different countries, or, in different ages, as to the same country; that every code, to he useful, must act upon the existing institutions and jurisprudence, and not, generally, supersede them; that what, with reference to the customs, habits, manners, pursuite, interests, and institutions of one country, may be fit and expedient, may be wholly unfit and inexpedient for another; and that the part of true wisdom is, not so inuch to search out any abstract theory of universal jurisprudence, as to examine what, for each country in particular, may best promote its substantial interests, preserve its rights, protect its morals, and give permanence to its liberties.

Laycaster County, the richest and most fertile in Pennsylvania, contains, at present, 27 townships. Its population, in 1810, was 53,927 ; in $1820,68,358$; in 1830, 76,558. It contains 7 furnaces, 14 forges, 183 distilleries, 45 tan-yards, 22 fulling-mills, 164 grist-mills, 8 hempmills, 87 saw-mills, 9 breweries, 5 oilmills, 5 clover-mills, 3 cotton factories, 3 potteries, 6 carding-machines, 3 paper-
mills, 1 snuff-mill, 7 tilt-hammers, and 6 rolling-mills.

Lancaster ; a city of Pennsylvania, $1 \frac{1}{2}$ mile west of Conestoga creek, which falls into the Susquehanna, 62 miles west of Philadelphia ; lon. $766^{\circ} 10^{\prime} \mathrm{W}$. ; lat. $40^{\circ}$ $3^{\prime}$ N. Population, in 1810, 5405 ; in 1820, 6663 ; in 1830, 7684 ; was laid out in 1730. It is a pleasant, lealthy and flourishing city, funcly situated in a fertile, lighly cultivated and delightful country. The houses are chiefly built of brick and stone. The town has an extensive trade with the surrounding country. The inhabitants are mostly of Gerınan descent, and the German language is spoken by many of them ; but the English predominatcs, and most parents give their children atn English education. The banks are 3. The churches and places of public worship are $11 ;-2$ German Lutheran, 1 German Reformed, 1 Presbyterian, 1 Episcopalian, 1 Roman Catl ${ }_{1}$ olic, 1 United Brethren, 1 Methodist, 1 African, 1 Friends' meeting, 1 Independent Methodist. There is an academy witl a classical and English departments ; a scminary, on the plan of mutual instruction, in which 500 children of both sexes are instructed in English, and several private sclools and academies. Franklin college was founded in 1787. It has a large brick luuilding and some funds, but is not in operation. There are two libraries, a reading room, several charitable and religious societies, and a museum. Eight ncwspapers are published in English, and four in German. There are 17 distilleries, 4 tan-yards, 5 breweries, and 2 potteries. Lancaster was early celebrated for the excellence of its stockings, saddles, and guns, and is still famous for its rifles, and the number and excellence of the stage-coaches built here.

Lee, Francis Liglitfoot, one of the signers of the declaration of independence, was born in Virginia, October 14, 1734. Itis education was directed by a private tutor, and he inherited an independent fortune. In 1765, he became a inember of the house of burgesses of Virginia, and continued in that body until 1775, when the convention of Virginia chose him a member of the continental congress, in which he remained until 1779, when he entered the legislature of Virginia. He died at Richmond, in 1797.

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[^0]:    * Though the word is immediately derived from the Italian infanteria and funteria, it is primarily of German origin. We find still, in the dialeet of Lower Saxony, Fant and Vent, signifying a young, unmarried man, and, in a more exteinded meaning, a servent, a soldier on foot. The Ieelandic fant, Italian fante, Danish fiant, Swedish fante, have the same meaning with the Low-Saxon Vent, and are, no douht, connceted with the Latin infuns. With the prefixed sibilant, this root beeame, in Anglo-Saxon, swein, in English swain, in Danish suend (a youth employed in country serviee, a young lover).

[^1]:    vol. vir.

[^2]:    T $\frac{1}{20}$ soft cast steel.
    Tof common east steel.
    $\frac{1}{30}$ the same, but harder.
    $5_{5}^{10}$ the same, too hard for drawing.
    $\frac{1}{25}$ white east iron.
    $\frac{1}{28}$ mottled cast iron.
    $\frac{1}{13}$ black cast iron.

[^3]:    * Savoy is not inciuded here, not being considered a part of Italy by the Revue.

[^4]:    * Leo XII died Feb. 10, 1829, and cardinal Castiglione was elected pope, March 31. He look the name of Pius VIII, and died in December, 1830. Early in 1831, cardinal Cappellari was elecled pope, and assumed the name of Gregory XVI.

[^5]:    * The latest accounts from Europe, at the time we are writing (April 18, 1831), state that the Austrians had been victorious against the Italian insurgents, after a long battle ; that the provisory government had retired from Bologna to the Mark of Ancona; and that the president of the new French cabinet had declared, that for France to prevent other powers from interference in the affairs of Italy, would be interfering herself, and against her principle; so that, if the elements of commotion in Europe do not produce a general war, the Italians will be crushed, and more severely enthralled than ever.

[^6]:    * The sweetness of this tongue, which often gives to a passage a charm independent of the meaning of the words, and resembling that of music, is, in our opinion, no where so apparent as in Tasso's Jerusalem Delivered, and many stanzas have struck us as attracting the hearer irresistibly, though some of them have no partieular charm in the meaning of the words. This also gives the Italian improvvisator a great advantage over one who attempts a similar performance in another language, in which he is entirely thrown upon the meaning of what he says.

[^7]:    * The common fate of parties in periods of

[^8]:    * By the Catholie relief bill (A pril 13, 1829) it is required that every Jesuit in the United Kingdom shall register his name and place of residence with a clerk of the peaec; that any member of the order who shall enter the realm shall be guily of a misdemeanor, and, on conviction, be banished for life (any natural bom subjeet out of the realm, being a Jesuit, is, however, permitted 10 return); the admission of any person to the order is also forbidden; both those admitted and the members who administer the engagement are liable to fine and imprisonment, or banishment.

[^9]:    * The well-known barbarous state of the above-mentioned tribes will lead the reader to qualify the meaning of the words civilization and conversion in other parts of the above arti-cle.-Ed.

[^10]:    * The speech is long, and its gemumeness very suspicious, as it goes carefully through all the points for which the Jesuits had been reproached. It is too long for a king, too systematic for am extempore performance.-ED.

[^11]:    * The length of the articles on the Jesuits may be exensed from the interesting nature of the subjeet. Any view, however, of the subject, which could be given in a work of the eharaeter of the present must be too concise to enable the reader to form satisfactory conclusions; to do which, great knowledge of faets and eritieal acumen are requisite. The artieles ean only serve to indieate the most important points to be investigated. The second article was given to show what construction Jesuits themselves put upon the important eharges against them. We may elose with remarking, that every thing in history has its time, and the order of the Jesuits can never rise to any great eminence in an age in which knowledge is so rapidly spreading. It is conneeted with the old order of things, not with the new; and has twiee returned with servilism into Spain, and once into France. The Eincyclopédie Moderne, in its artiele on the Jesuits, calls them the pretorian guards, the strelitzes, the janizaries of the pope; and it ean lardly be supposed that the guards will flourish when the sovereign is daily deelining in splendor and power.

[^12]:    * It is well known that the literature of Spain is much indebted to the Jews. A list of authors of Hebrew origin gives 561 on philology, 20 on astrology, 67 cominentators or expositors, 81 on philosophy, 52 in grammar, 36 on medicine, 18

[^13]:    * Jovellanos was the first judge in Spain who had the courage to abandon the wig; and it required all the support of the prime minister, count Aranda, to countenauce this step.

[^14]:    * This article, as far as the break on page 283, is translated from the German Conversations-Lexicon, and was written by a German civilian accustomed to the juridical practice of countries where the civil law prevails, and where the trial by jury is imperfectly understood, and, if intro-

[^15]:    * Where the reader may fail to find articles under $K$, he is referred to $C$.

[^16]:    * Cum sonut halcyones cantu, nidosque natantes

    Immota gestat, sopitis fuctibus, unda.
    sil. Ital.

[^17]:    * This work is, at the same time, one of the

[^18]:    * In the session of the chamber of peers, A pril 19,1831 , when the banishment of the elder line of the Bourbous was discussed, even the duke of Fitz-James waved the idea of divine right, and appealed to the people.

[^19]:    * The following is the form of the exorcism used:-"Exorcizo vos pestiferos mures per Deum Patrem + omnipotentem, et Jesum $\dagger$ Christum filiurn cjus, et Spiritum Sanctum, $t$ ab utroque procedenten, ut confestim rceedatis ab his campis, scu vineis vel aquis, nec amplius in eis habitetis, sed ad ea loca transeatis, in quibus nemini noeere pnssitis, et ex parte omnipotentis Dci, et totius curixe coelestis, et ecclesixe sanctre Dei, vos maledicens, quocunque ieritis, sitis maledicti, deficientes de die in diem in vos ipsos, et decrescentes quatenus reliquiæ de vobis nullo in loco inveniantur, nisi necessariæ ad salutcm et usum humanum, quod prestare dignetur ille, qui venturus et judicare vivos et mortuos et seculum per ignem. $\Lambda$ men."

[^20]:    * Though Lent is established to subdue our animal appetites, and 10 induce us to live more spiritually, the following remark is found in the

[^21]:    * It is related of prince Leopold, that he used to pray, before battle, to the following effeet: "O God! assist our side; at least, avoid assisting the enemy, and leave the result to me." This, if not true, shows, at least, the opinion entertained of his simplieity and straight-forwardness, and must be allowed to agree entirely with his character.

[^22]:    - Now in the academy of P:iladelplia.

[^23]:    * By statute, in New York and Massachusetts, the truth may be a just:fication, if the publication was made with good motives and for justifiable eads.

[^24]:    * R. R. Gurley.

[^25]:    * Joseph Napoleon were the names given to the subject of this article at his baptism, but he was accustomed to use both names only on important occasions.-We give the present article more space than the limits of this work would seem to allow, because the short period, during which Joseph Bonaparte reigned in Naples and Spain, the eradication of almost every thing good which had been attempted under his administration, on the return of the Bourbons, and the disfiguring effect of party reports, render it very diflicult to arrive at the truth in regard to this interesting portion of recent history.-We take this opportunity to correct some errors in our article Bonaparte. It was not madame Letitia, the mother of Napoleon, that marricd captain Fesch, the father of the cardinal, but her mother, madame Ramolini. as we have stated in the article Fesch. Madame Letitia did not die in 1822, although an account of her death, with all the particulars of her dying moments, was published about that time. She is still alive. Carletta is a mistake for Paoletta.
    voL. VII.
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[^26]:    * The assassination of general Duphot, and that of the unfortunate Basseville, who, at the time of his death, five years previously, was French envoy at linme, determined the directory to declare war against the pope, and, February 15,1798 , the States of the Clurch were changed iwto a republic.

[^27]:    + In the chronological table in volume VI (article History, year 1806), Eugene Beauharıais is said to have been declared successor to the im . perial throne : imperial is an crratum for ltaliun.

[^28]:    * The system consisted in withholding from culture a large district under the name of the Tavoliere di Puglia, belonging to the crown. This was dedicated to the pasturage of innumerable flocks, which resorted thither every year from all parts of the kingdom. The mesta being abolished, this territory was sold, and brought into luxuriant cultivation.

[^29]:    * It was then proposed to recognise Lucien as king of Naples.

[^30]:    * Father Rey, general of the Augustins.
    $\dagger$ Lieutenant-general Morla, who long held be command al Cadiz and Madrid.
    $\ddagger$ The abbe Lloreate. (q. v.)

[^31]:    * This should be remembered by the readers of the posthumous work of madame de Staekl, Dix Années d'Exil.

