the two provinces respectively to each other. but simple conversion if it is symmetrical It is now seen, however, that the transmission (No a is b = No b is a, Some a is b = Some b is of social material is by psychological processes, (a). The usual discussion in the logics of the such as Imitation (q. v.), &c., and that this doctrine of the equivalence of propositions is differs essentially from that of biological greatly simplified by taking this more general heredity (cf. Galton's Law, of ancestral view of the subject (see Proposition). inheritance, and REGRESSION).

Literature: Weismann, Germ-Plasm, and Trans-subjective (the): Ger. (das) Transstinct; Baldwin, Development and Evolution apprehension by a subject.

(1902); in both of which the relation of the It is used, however, in connection with

duction under Nerve STIMULATION AND (Erfahrung u. Denken, 42), all is trans-sub-

Handing down by oral TRADITION (q.v.) as by Eisler). contrasted with written records.

ponere, to place]: Ger. Hinüberschaffen; Fr. another]: Ger. Transubstantiation; Fr. transtransposition; Ital. trasposizione. Transposi- substantiation; Ital. transustanziazione. In tion consists in transferring a term from the Catholic theology, the change of the elements subject to the predicate, or the reverse, with in the Sacrament of the Eucharist, through no change in the character of the connection; the act of consecration, into the real body and as, No artists who are bankers are clever, No blood of Christ. artists are clever bankers, No bankers are clever It is to be distinguished from consubstantransposition.

Proposition) there must be a change from Church. positive to negative or the reverse (and, if Literature: WISEMAN, Lects. on the Holy the proposition is complex, from the conjunc- Eucharist. tive to the alternative combination and the mad = Any astronomer is mad or devout = a wound, or by external violence. (C.F.H.) All are mad or devout or not astronomers. When both the whole subject and the whole predicate is transposed the change is commonly called contraposition if the copula is non-

logy upon biology has raised the question of symmetrical (All a is b = All non-b is non-a; the relation of the facts of transmission in None but a is b = None but non-b is non-a),

(C.L.F., C.S.P.) Studies in Heredity; recent expositions of subjektive (Volkelt); Fr. (le) transsubjectif; EVOLUTION (q. v.). The literature of Organic Ital. (il) transublicttivo. The objective conselection, e.g., Ll. Morgan, Habit and Insidered as having reality independent of its

two forms of transmission to each other is knowledge, which is said to have a trans-(J.M.B., E.B.P., C.LL.M.) subjective reference, or to demand a 'realm Transmission (in neurology): see Con- of the trans-subjective.' As used by Volkelt jective 'was ausserhalb meines eigenen Be-Transmission (in theology and philology). wusstseins Vorgange geben mag' (quoted

(J.M.B.) Transubstantiation [Lat. transubstan-Transposition (in logic) [Lat. trans + tiatio, from transubstantiare, to change into

artists, None are at once artists and bankers tiation, the doctrine of the coexistence of and clever; or as All but a is b, All but b is a. Christ's body and blood with the elements Any proposition may be 'transformed' into which remain unchanged; from the doctrine other exactly equivalent forms: e.g. the trans- of impanation or subpanation, that the body formation may consist in the change from one and blood are in or under the elements; also sort of connection to another (change of copula, from all theories of the spiritual presence in the extended meaning of that term), as—to merely, i. e. as not involving the actual contake a compound proposition as an example version of the elements. The doctrine, first -It never rains but it pours = always either broached by some of the Greek Fathers, it pours or it does not rain, but this is not was a question of debate during the middle ages, although held by the principal school-Certain copulas permit transposition simply, men. It was formally confirmed by the with no variation in the quality of the term Lateran Council, 1225, the Council of Trent, transposed (as in the instances just given); 1551, and has since that time been the aubut with the non-symmetrical copulas (see thoritative belief of the Roman Catholic

(A.T.O.)

Traumatism [Gr. τραῦμα, a wound]: Ger. reverse), if the change can be made at all: Traumatismus; Fr. traumatisme; Ital. trau-He who is an astronomer and un-devout is matismo. A diseased condition produced by

Traumatrope: see Illusions of Motion AND MOVEMENT (1).

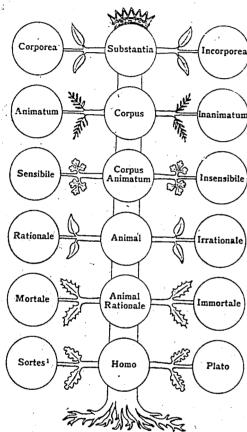
Treason: see HIGH TREASON.

Tree of Porphyry: Ger. Baum des Por-

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phyrius; Fr. arbre de Porphyre; Ital. scala ternaria di Porferio (E.M.). The name given to the figure of a tree which appears in all Tremor, Zittern; Fr. tremblement; Ital. tremore. the old logics.

It is supposed to illustrate the second



It is also sometimes called and figured as a ladder, κλίμαξ, scala praedicamentalis, Javobsleiter, &c.

'Sortes' is the name universally employed in mediaeval logics as the example of an individual. It grew, nodoubt, from an abbreviated spelling of Socrates. But it was pronounced as well as spelled Sortes, and had no connection, in the minds of those who disputed about logic, with the historical Socrates. Indeed, for generations, during the time in which it was in use, only the very learned knew anything about Socrates. One gloss, attributed to the famous Scotus Erigena, in explaining a statement that Socrates was third + major third) are the bases of all other killed by hellebore, narrates, for the information of those less erudite, that Socrates and Hellebore were two Greek philosophers, who became so warm in a logical dispute that the former fell a victim to the fury of the latter.

Tree Structure: see DENDRITE.

Tremor [Lat. tremor, a shaking]: Ger. A continuous spasm of limited range.

Tremor may be physiological, as in shivering chapter of the Isagoge of Porphyry, showing and chattering from cold, or the trembling the genera on the trunk of the tree, and the from fear, and hardly passes the bounds of specific differences on the branches, with sub- the normal in the ordinary tremors accomstance at the top; cf. the figure for an outline. panying old age. In tremor of mental origin there seems to be a loss of the controlling power of the motor centres; and many abnormal tremors regularly become more marked under excitement, embarrassment, fear, and other mental disturbances. Tremors are usually symptomatic of abnormal nervous conditions; and as such the precise variety and progress of the tremor become of considerable diagnostic value. Tremors are characteristic of the effects of poisons, such as alcohol, mercury, lead, opium, &c. (see Alcoholism). In paralysis agitans (see PARALYSIS) the tremor is most significant, and its changes mark the stages of the sease; in Chorea, in general Paralysis, in Hysteria, &c., tremors are also important diagnostic symptoms (cf. these terms, and also MOVEMENT, disorders

> Trendelenburg, Friedrich Adolf. 1802-72.) Born at Eutin, he studied philology and philosophy at Kiel, Leipzig, and Berlin. Private tutor in the family of Postmaster-General von Nagler, 1826-33; professor extraordinary at Berlin, 1833; professor ordinary there, 1837; member (1846) of the Berlin Academy and secretary (1847-72) of the 'historico-philosophical' section. He was made Knight of the Order of Merit on the day of his death.

Trephine [Gr. τρύπανον, an auger, a borer]: Ger. kleiner Schädelbohrer; Fr. tréphine; Ital. trapano. (1) A cylindrical hand-saw, generally provided with removable centre-pin, for removing a circular disk or button from the skull.

(2) Verb: to open the skull with a trephine.

Triad [Gr. τριάς, the number three]: Ger. Dreiklang; Fr. accord (de trois sons), accord parfait (c, e, g); Ital. trio. A chord of three tones, simple or compound.

The major triad c-e-g (major third + minor third) and the minor triad c-eb-g (minor major and minor chords respectively.

Literature: Helmholtz, Sensations of Tone (Eng. trans.), 212.

Tribal Self: Ger. Stammes-(Volks-)seele,

Gesammtpersönlichkeit (Wundt); Fr. conscience mises of which are disjunctively affirmed in sociale, moi tribal; Ital. Io tribole (or soziale). the minor (Cent. Dict.). Cf. DILEMMA. (C.S.P.) The psychological factors involved in the conceived, after analogy with the individual's Fr. trinitarisme; Ital. trinitarianismo. That

The conception is often vague, and stands unity of individual substance and being. upon much the same plane as that of GENERAL (or Social) WILL (q. v.).

Stamm; Fr. tribu; Ital. tribu. (1) One of ment, which ascribes divine functions to the three divisions of the Roman people recog- Father, Son, and Spirit. The necessity arose nized at the beginning of their recorded of reconciling this plurality with the essential

usually compound, the component groups Arians and Trinitarians ended in the triumph being allied hordes or related clans, and all of the latter and the adoption of the Trinity speaking a common language or dialect.

and usually has a military council and a chief.

languages except those of the lowest hordes, Dorner, Syst. of Christ. Belief. and tribes have been loosely described in all ancient and mediaeval literatures; but the Ital. Trinità. The Deity as represented in scientific description and definition (2) were Nicene theology, including three personalities, first made by Lewis H. Morgan, The League Father, Son, and Holy Spirit, in one essenof the Iroquois (1849), Systems of Consan- tially unitary substance. The doctrine is guinity and Affinity (1871), and Ancient often called that of 'tripersonality.' Society (1877). (F.H.G.)

Tribunal (legal); see Court. Trichotomy (in theology) [Gr. τρίχα, in CREED. three, + rapeir, to divide]: Ger. Dreitheilung; Fr. trichotomie: Ital. tricotomia. The threefold distinction of the nature of man into body (soma), soul (psyche), and spirit (pneu- isme; Ital. treteismo. A conception of the

This view has its germ in the New Testament, in such passages as 1 Thess. v. 23. It was advocated by Origen and opposed by stance as well as of personal manifestation. Augustine and Tertullian, who held the dichofound among English divines.

CHOLOGY (biblical).

Trilemma [Gr. τρείε, three, + λημμα, something taken]: Ger. Trilemma; Fr. trilemme;

Trinitarianism [Lat. trinitas, from triorganization of a social group (tribe), when nus, threefold]: Ger. Dreieinigkeitslehre; mental organization, in the form of a personal doctrine of the divine nature which represents the Godhead as combining tripersonality with

The Trinitarian conception, which received (J.M.B., F.H.O.) its first authoritative statement in the Atha-Tribe [Lat. tribus, a third part]: Ger. nasian Creed, has its germ in the New Testaunity of the Godhead so as to avoid poly-(2) An organized group or band of persons, theism. The fierce controversy between as the central dogma of the Christian faith, a A tribe is essentially a military organization, position which it has historically maintained.

Literature: LIDERER, Christl. Dogmatik It should not be confounded with a CLAN (1849); BAUER, Die christl. Lehre v. d. (q.v.), which is essentially a juridical organiza- Dreieinigkeit; Shedd, Defence of Nicene Creed; Hodge, Hist. of Christ. Doctrine: The word tribe has equivalents in all O. OSTERZEE, Christ. Dogmatics (1841-3); (A.T.O.)

Trinity : Ger. Dreieinigkeit ; Fr. Trinite ;

For discussion and literature see TRINI-TARIANISM, ARIANISM, and ATHANASIAN (A.T.O.)

Tripersonality: see TRINITY.

Tritheism (in theology) [Gr. τρείε, three, + Ocós, God]: Ger. Tritheismus; Fr. trithé-TRINITY (q. v.), which virtually represented the Father, Son, and Spirit as three distinct individuals, predicating distinction of sub-

This view arose as a polytheistic reaction tomic view. The distinction has survived to against extreme monotheistic tendencies. It the present day, the trichotomic doctrine find- originated in Alexandria in the 6th century, ing its principal exponents among German and was championed by Philoponeius, Conon theologians, while its chief opponents are of Tursus, Eugenius of Seleucia, and others. Later the party appeared in Constantinople, Literature: Delitzsch and Peck, Bib. where a disputation was held between its Psychol.; J. B. HEARD, The Tripartite Na- representatives and the Patriarch John. The ture of Man (1870); the literature of Psy-tendency has practically disappeared from (A.T.O.) later Christian thought.

Literature: see Trinitarianism. (A.T.O.) Triune God [Lat. tres, three, + unus, one: Ital. trilemma. A Syllogism (q.v.) with three in one]: Ger. der dreieinige Gott; Fr. three conditional propositions, the major pre- le Dieu en trois personnes; Ital. Dio uno