haftigkeit; Fr. véracité; Ital. veracità. The argument.' disposition not to deceive another by positive | Applied mainly to arguments, definitions,

regards speech, has varied much in ancient cious or meaningless. and modern ethics. The Greeks did not | Veridical Hallucinations: see Teleinclude it in the cardinal virtues, or regard PATHY, passim. it as absolutely and invariably obligatory. | Verification [Lat. verus, true, + fucere, to Plato gives expression to their estimate of it make]: Ger. Bewährung, Bestätigung; Fr. in the Republic (ii. 382), where he distin- rérification; Ital. verificazione. It is desirguishes between the true lie' or the lie in able to understand by a verifiable hypothesis the soul, which is hated by both gods and one which presents an abundance of necessary men, and the 'lie in words,' which is, in cer- consequences open to experimental tests, and tain cases, useful and not hurtful, as in deal- which involves no more than is necessary to ing with enemies or with friends in a fit of furnish a source of those consequences. He madness or illusion, and in mythology, where verification will not consist in searching the we do not know the truth. He also justifies facts in order to find features that accord or the 'noble' or 'royal lie' (γενναΐον ψεῦδος): disagree with the hypothesis. That is to no the rulers are privileged to lie for the public purpose whatsoever. The verification, on the good (iii. 389, 414). The modern juridical contrary, must consist in basing upon the conception of morality as obedience to law hypothesis predictions as to the results of has led to a more rigorous enforcement of the experiments, especially those of such predicduty of veracity. Kant, e.g. in his Uber ein tions as appear to be otherwise least likely vermeintes Recht, aus Menschenliebe au lügen to be true, and in instituting experiments in (Abbott's trans, 361-5), maintains the abso-order to ascertain whether they will be true lute obligatoriness of veracity, since lying, or not. if universalized, contradicts the presupposi- These experiments need not be experiments

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CATION. Cf. also CASUISTRY. question of the relativity of ethical formula- the point of view of its abstract theory. absolute ethical principles.

and seems connected with systematized delu- | Verbal (in logic) | Lat. verbum, a word |: (J.J.) Ger. verbal; Fr. verbal; Ital. verbale. Turning Veracity [Lat. verax, truthful]: Ger. Wahr- upon the use or meaning of words, as 'verbal

misrepresentation; that is, not to Lie (q. v.). &c., which involve distinctions of words merely, The appreciation of veracity, especially as and are with reference to fact or truth falla-

tions of human intercourse. 'To be truthful in the narrow and technical sense, involving in all declarations is therefore a sacred uncon- considerable preparation. That preparation ditional command of reason, and not to be may be as simple as it may. The essential limited by any expediency.' A single excepthing is that it shall not be known beforetion would destroy that universality which is hand, otherwise than through conviction of essential to a moral principle. On the Jesui- the truth of the hypothesis, how these experitical depreciation of the virtue on the ground ments will turn out. It does not need any that the end justifies the means, see Equivo- long series of experiments, so long as every (J.S.) | feature of the hypothesis is covered, to render The principles involved in the discussion, it worthy of positive scientific credence. besides the psychological and logical ones What is of much greater importance is that indicated by the word positive in the definition | the experiments should be independent, that (explained under Lie) and in the article Equi- is, such that from the results of some, vocation, would seem to be, or at least to the result of no other should be expable involve, the following (i) the fact of ethical of reasonable surmise, except through the conflict, the possible different of choosing the hypothesis. But throughout the process of lesser of two violations of nominal duties, one verification the exigencies of the economy of which is unavoidable. This raises the whole of research should be carefully studied from

tions. (2) The possible distinction between | When, in 1839, Auguste Comte laid down duties as social or not, the former springing the rule that no hypothesis ought to be enterfrom social relationships, and in so far getting tained which was not capable of verification, their entire sanction from social utilities. This it was far from receiving general acceptance. distinction would possibly open a door for But this was chiefly because Comte did not a 'certain discrimination of higher and make it clear, nor did he apparently underlower, even to those who hold that there are stand, what verification consisted in. He (J.M.B.) seemed to think, and it was generally understood, that what was meant was that the various significance. It has been associated

INVERTEBRATE.

The Vertebrata, sometimes called Chordata, Ocular vertigo is an unusual disorder, due time in their development.

rent motion of outward objects.

of apparent motion of surrounding objects. by pallor, vomiting, and severe physical de-The mechanism, the disturbance of which pression. produces vertigo, is a very complicated one. The vertigo that is characteristic of neur-The special organs of Equilibrium (q.v.) asthenia is largely of a subjective character, are concerned, probably, the somicircular a feeling of swimming and confusion, rarely canals, and the brain centre for such co- amounting to recling or the apparent moving ordinations of equilibrium, situated in the of outward objects. It is generally relieved cerebellum. The sensations obtained from by assuming a horizontal position, and is this source are co-ordinated with visual in- associated with states of fatigue. Vertigo of ferences of position and movement. Vertigo gastric origin is probably not a frequent dismay be produced in most persons by unusual order, although an attack of indigestion, seaor violent locomotion, as oscillation in a sickness, and the like; is the occasion or preswing, turning rapidly around on one's heels, disposition to vertigo in those liable to these ascent or descent in an elevator, the irregular disorders. movements of a ship, balloon, or train. Vertigo | Literature: Gower, Diseases of the Nerv.

hypothesis should contain no facts of a kind with pressure upon the brain, concussion or not open to direct observation. That position injury of the brain (as by tumours, disturbwould leave the memory of the past as some- ances of circulation, blows, &c.), particularly thing not so much as to be entertained as in diseases of the cerebellum; with anaemia . (c.s.p.) of the brain from general anaemia or artero-Vertebrate [Lat. rertebra, a joint]: Ger. sclerosis; its frequency in multiple sclerosis Wirbelthier; Fr. vertébré; Ital. vertebrato. has been noted; it is often a characteristic Strictly, an animal having vertebrae, but used factor in the epileptic seizure, and in some to designate all members of the sub-kingdom cases takes the place of such a seizure; it is to which animals with vertebrae belong. Cf. particularly significant in aural, especially labyrinthine, difficulties, in one form of which The lowest fishes (myxinoids and amphioxus, (Ménière's disease) the vertigo forms the chief a fish-like animal) present no trace of verte-symptom; it is frequent in neurasthenia and brae, the axial skeleton comprising only the related conditions; and it is connected with (c.s.m.) ocular-as-well-as-visceral disturbances.

all possess a dorsal skeletal notochord at some generally to weakness or paralysis of an ocular muscle, and a consequent false orienta-Literature: Gegenbaur, Compar. Anat.; tion of the body with reference to seen Wiedersheim, Vergleichende Anat.: Parker objects. The ocular sensation (as of moving and Haswell, Zoology; C. Claus, Textbook objects) is an important one in all forms of of Zoology (Eng. trans., 1890). (c.s.n.-E.s.g.) vertige. Aural vertige arises from disease in Vertex [Lat., from vertere, to turn]: Ger. the internal ear, and includes Ménière's disease Scheitel; Fr. sommet, vertex; Ital. vertice, as one of its severer forms. This disorder, bregma. The top or crowning point of the which is often preceded by earache, slight head; the highest point of the human skull deafness, ringing in the ears, is of a paroxysmal when the body is in a perfectly erect position. nature. The patient is more or less suddenly It is usually just behind the bregma (Bg, in seized with intense vertigo, may reel about figure given under Craniology, q.v.). (J.J.) or fall to the ground; objects seem to move Vertigo [Lat. vertigo, a turning]: Ger. about, and even slight loss of consciousness Schwindel; Fr. vertige; Ital. vertigine. Diz- may occur. Some patients feel impelled to ziness, with fear of falling, a confused sensa- go through circular or backward movements, tion as of swimming of the head, and appa- others are hurled to the ground as by an unseen force. In repeated attacks the same Vertigo as a sensation may vary in degree forms of movement are experienced, indicating from a slight sense of confusion or instability in some cases a local affection of one canal or up to violent reeling and actual falling in an group of canals. In most cases there is a attempt to correct the subjective sensations succeeding dazed period, often accompanied

as the result of drug action is marked in the Syst.; HITZIG, Der Schwindel, in Nothnagel's Spez. Ther., xvii. 2 (2nd ed., 1898). As a symptom of disease, vertigo is of Vested Rights: see RIGHTS.

Vestige [Lat. vestigium, a footprint]; espiazione vicaria. That theory of the Atone-VESTIGIAL ORGANS AND CHARACTERS,

the fully functional and useful organs or ground of his justification. characters of ancestral animals: a single such organ or character is called a vestige.

phrases rudimentary organs and rudiment, plished by Christ in the stead of the sinner. It thus distinguishes organs in process of DE-GENERATION (q. v., in biology) from organs in process of evolution (cf. Rudiment). Darwin discussed the value of such organs as evi- departure from VIRTUE (q. v.). dence of the transmutation of species. Cf. also Atrophy.

widely accepted, the method of suppression has been discussed. On the Lamarckian Vico, Giovanni Battista. (1668-1744.) hypothesis disuse is itself sufficient to effect Born at Naples, and educated by the Jesuits. reduction of size and complexity, since the Private tutor for several years in the house of effects of disuse are on this hypothesis in- the bishop of Ischia; professor of rhetoric in herited. Those who reject this hypothesis Naples, 1697; royal historiographer, 1735. account for the facts by reversed selection, The bold and profound creator of the philoassuming that the possession of the organ con- sophy of history' (Falckenberg). See Canstitutes a disadvantage, by cessation of selection toni, G. B. Vico. with PANMIXIA (q. v.), and by the principle of economy of growth with Intraselection cism, I. .. (q. v.). Weismann has added the hypothesis of GERMINAL SELECTION (q. v.) or a competi- man]: Ger. virtuell; Fr. (1) virtuel; Ital. tion for nutriment in the waxing and waning |(1)| virtuale. (1) A virtual X (where X is determinants or structural units in the ger- a common noun) is something, not an X, minal substance, by which the stronger which has the efficiency (virtus) of an X. increase while the weaker diminish.

J. G. ROMANES, Darwin and after Darwin, 'potential,' which is almost its contrary. ii; Weismann, The Germ-Plasm; and Ger- For the potential X is of the nature of X, minal Selection.

Veto: see Fiat, and Nolition.

Vibration; Fr. vibration; Ital. vibrazione. the formula, 'what is gained in velocity is The rapid rhythmical movement of a body lost in power.' or parts of a body back and forth in a linear path or closed curve. In the latter case the sentation of the American colonies in the vibration is called circular, elliptic, &c., British Farliament, which was supposed to according to the form of the path.

called a single, and that in both directions touch. So, too, the sun was said to be vira complete vibration. Such a vibratory move- tualiter on earth, that is, in its efficiency. ment when propagated through a homoge-Cf. ETHER

Vicarious Atonement [Lat. vicarius,] des Sühnopfer; Fr. expiation vicariale; Ital. Quantum ad notitiam habitualem sive virtu-

Ger. Spur ; Fr. vestige; Ital. vestigio. See ment which represents it as a substitutionary sacrifice for sin on the part of the Redeemer, Vestigial Organs and Characters. Re- by virtue of which the sinner's debt to the duced and often useless organs or characters divine law is satisfied and the merit of which, on the theory of evolution, represent Christ's obedience is imputed to him as the

The vicarious theory is opposed to the moral theory and presupposes the necessity (C.LL.M.-J.M.B.) of expiation. It rests on the notion of sub-This phrase has largely replaced the earlier stitution, and is the work which was accom-

> Literature: see Atonement. (A.T.O.) Vice [Lat. vitium]: Ger. Laster; Fr. vice; Ital. vizio. Gross, and more or less habitual

Like virtue, vice extends to character, dis-

position, and habit of life. It is contrasted Since the theory of evolution has become in degree with moral defect and FAULT (a.v.).

Victorinus. Marius: see Scholasti-

Virtual [Lat. virtus, strength, from vir, a

This is the proper meaning of the word; Literature: C. Darwin, Origin of Species; but (2) it has been seriously confounded with (C.L.M.) but is without actual efficiency. A virtual velocity is something not a velocity, but a Vibration [Lat. vibrare, to shake]: Ger. displacement; but equivalent to a velocity in

So virtual representation was the non-reprebe replaced by something. So Milton asks Movement in one direction is sometimes whether the angels have virtual or immediate

(3) Virtual is sometimes used to mean neous medium is called an undulation or wave. pertaining to virtue in the sense of an ethical (s.n.) habit.

Virtual knowledge: a term of Scotus defined taking another's place]: Ger. stellvertreten- by him (Opus Oxon., Pt. I. iii. 3) as follows:

alem, primo expono quid intelligo per terminos. habitual control of irrational impulse by Habitualem notitiam voco, quando obiectum reason. Intellectual virtue is the excellent sic est praesens intellectui [i.e. to the thought] or rational exercise of the rational soul itself. in ratione intelligibilis actu ut intellectus The chief intellectual virtues are speculative statim possit habere actum elicitum circa wisdom (σοφία), which deals with the absolute illud obiectum. Voco virtualem, quando ali- nature of things, and prudence or practical quid intelligitur in aliquo, ut pars intellecti wisdom (φρόνησις), which deals with the relaprimi, non autem ut primum intellectum sive tive and changing conditions of human conduct. ut totale terminans intellectionem; sicut cum Aristotle insists upon the intellectual nature intelligitur homo intelligitur animal in nomine, of moral virtue, since the latter, in all its ut pars intellecti, non ut intellectum primum, forms, presupposes rational insight (φρόνησις). sive totale terminans intellectionem. Hoc. The mediaeval moralists followed Aristotle quae esse ipsius primi, ut termini totalis.'

accepted moral standards.

made the moving spring of virtue adequate ence to the intellect, hope and charity to the knowledge of the good, that of vice ignorance will. The Christian Church further added of it; and from this view of the nature of to the classical list of virtues such additional virtue he deduced the unity of the virtues, phases of character as patience and humility. which were simply the different applications The question of the lundamental nature of the knowledge of the good. Plato distin- and value of virtue was investigated by the guished four cardinal virtues, wisdom (σοφία), Stoics and Epicureans, the former regarding courage (ἀνδρεία), temperance (σωφροσύνη), and it as an end-in-itself, the latter as the most righteousness (δικαιοσύνη). Aristotle, investi- important means to happiness. The early gating more carefully the psychological nature British moralists were also more concerned of virtue, defined it as a habit (¿ξις), as distin- with this problem than with that of the good, guished from a mere activity (ἐνέργεια). This raising the further questions of the 'sanchabit implies deliberate choice or preference, tions' of virtue, and of its egoistic or altruand is in accordance with right reason. Its istic content. Butler's contribution to this object or content is the mean (μεσότης) between discussion is most important. In his view the two extremes of excess and defect. The virtue is a following of human nature as application of this doctrine to the details of a systematic whole, or acting in accordance the moral life gives Aristotle his list of virtues, with the guidance of the higher (rational or which includes, besides courage and temper- reflective) principles -- conscience, self-love, ance, liberality, munificence, high-minded- and benevolence. Its obligation is intrinsic: ness, gentleness, agreeableness, truthfulness. man, as a rational being, is a law unto himwittiness, and modesty. In addition to self. these virtues of the individual life, Aristotle Literature: that of Ethics; see also recognizes justice and friendship, as the Bibliog. F, 2, e. virtues called for by the social relations in | Virtue (in theology): Ger. Kräfte (plural), has been taken only of moral or practical the Christian ideal, as faith, hope, love, sub-

satis proprie vocatur intellectum virtualiter, in his division of virtues into intellectual and quia est satis proximum intellecto in actu. moral. To the cardinal virtues of Plato they Non enim posset esse actualius intellectum, added the 'theological' virtues. The former nisi esset propria intellectione intellectum, they regarded as 'natural,' or 'acquired by human acts'; the latter as 'supernatural,' or Virtual difference: a term of the doctrine 'infused by God.' The cardinal virtues lead of formalitates set forth by Scotus, Opus only to natural or human happiness; the (C.S.P.) theological lead to supernatural or divine Virtue [Lat. virtus, manliness, equivalent to happiness. 'Habituation,' says Thomas Aqui-Gr. dρετή, excellence]: Ger. Tugend; Fr. vertu; nas, contributes to both, but in different ways. Ital. virtù. Excellence of character, disposition, It causes acquired virtue; it disposes to infused and habit of life, with reference to generally virtue; and where infused virtue exists, it (J.S.-J.M.B.) preserves it and advances it '(Summa Theol., The nature of virtue and the classification | i-ii. q. 92, art. 1, § 1; cf. i-ii. q. 65, art. 2; of the virtues engaged the attention of both the i-ii. q. 62). The theological virtues are faith, ancient and the mediaeval moralists. Socrates hope, and charity. Faith has special refer-

which the individual stands to the state and Tugend; Fr. vertu; Ital. virtù. Those elements to other individuals. So far, however, account of character are virtues which are distinctive of virtue, which consists in an established or mission to the divine will, &c., and which THIS PAGE LEFT BLANK INTENTIONALLY