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The meaning of velocity

(Definition of velocity from the Cambridge Advanced Learner's Dictionary & Thesaurus © Cambridge University Press) SearchCompliance OPSEC (operations security) OPSEC (operations security) is a security and risk management process and strategy that classifies information, then determines ... smart contract A smart contract is a decentralized application that executes business logic in response to events. compliance risk Compliance risk is an organization's potential exposure to legal penalties, financial forfeiture and material loss, resulting ... 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SearchStorage bare-metal cloud Bare-metal cloud is a public cloud service that offers dedicated hardware resources without any installed operating systems or ... race condition A race condition is an undesirable situation that occurs when a device or system attempts to perform two or more operations at ... storage security Storage security is the group of parameters and settings that make storage resources available to authorized users and trusted ... VelocityIn kinematics, velocity is the rate of change of the position of an object, equivalent to a specification of its speed and direction of motion. Speed describes only how fast an object is moving, whereas velocity gives both how fast and in what direction the object is moving. If a car is said to travel at 60 km/h, its speed has been specified. However, if the car is said to move at 60 km/h to the north, its velocity has now been specified. To have a constant velocity, an object must have a constant speed in a constant direction. Constant direction constrains the object to motion in a straight path. Thus, a constant velocity means motion in a straight line at a constant speed. If there is a change in speed, direction, or both, then the object is said to have a changing velocity and is undergoing an acceleration. For example, a car moving at a constant 20 kilometres per hour in a circular path has a constant speed, but does not have a constant velocity because its direction changes. Hence, the car is considered to be undergoing an acceleration. Velocity is a vector physical quantity; both magnitude and direction are required to define it. The scalar absolute value of velocity is called "speed", a quantity that is measured in metres per second when using the SI system. For example, "5 metres per second" is a scalar, whereas "5 metres per second east" is a vector. The rate of change of velocity as a function of time is "acceleration", which describes how an object's speed and direction of travel change at each point in time. In science a "deceleration" is called a "negative acceleration", for example: −2 m/s². From Longman Dictionary of Contemporary Englishvelocityve-lo-ci-ty /və'lsəti \$ -'lə-/- ●○○ noun (plural velocities) 1 [countable, uncountable] technical the speed of something that is moving in a particular direction the velocity of light The speedboat reached a velocity of 120 mph. a high velocity bullet2 [uncountable]FAST/QUICK a high speed Martínez had good velocity on his fastball.Examples from the Corpusvelocity● Jupiter is a very massive planet, and its escape velocity is correspondingly high.● a beam of high velocity electrons● In addition, there is no difference in velocity between movements which are long and those which are short.● This latter emission is a well-known indicator of shock activity for shock velocities of up to several hundred kilometres a second.● Figure 21.4 shows oscillograms of the velocity fluctuations at different distances from the centre line of a wake.● an experiment to try to predict the velocity of a moving object● the velocity of electrons● Momentum is mass times velocity, so both factors influence the size of centripetal force.● The pressure of the expanding gas gets converted to velocity.● This instrument is used for measuring wind velocity.high velocity● He was in no hurry, and it was dangerous to move at a high velocity so near the ship.● There were early experiments, some of them successful, in which objects moving at high velocity were arrested by the camera.● Very high velocities have been observed in the movement of spray rising from impacts of this type.From Longman Business Dictionaryvelocityve-lo-ci-ty /və'lsətiə've-lə-/- noun [uncountable] ECONOMICS the number of times a particular unit of money is spent over a period of time. A country's GDP is the total amount of money available and its velocityUnless there is a sharprise in velocity, a more inflationary monetary policy would be appropriate.Origin velocity (1500-1600) French velocità, from Latin velocitas, from velox "fast" noun uncountable physics UK /və'lsəti/ ABCDEFGHIJKLMNOPQRSTUVWXYZ Velocity is speed (how fast something is moving) with a direction. Saying that Ariel the Dog is running 3 km/h Westwards is a velocity. (But saying just 3 km/h is a speed.) Copyright © 2018 MathsIsFun.com See velocity in the Oxford Advanced American DictionarySee velocity in the Oxford Learner's Dictionary of Academic English Nearby words vellum noun velociraptor noun velocity noun velodrome noun velour noun swamp noun From the Topic Geography C1 Oxford Learner's Dictionaries Word of the Day (redirected from velocities)Also found in: Thesaurus, Medical, Financial, Encyclopedia.Related to velocities: seismic velocities (və-'lɒs-i-tē)n, pl. ve-'lɒ-i-ties 1. Rapidity or speed of motion; swiftness.2. Physics A vector quantity whose magnitude is a body's speed and whose direction is the body's direction of motion.3. a. The rate of speed of action or occurrence.b. The rate at which money changes hands in an economy.[Middle English velocite, from Old French, from Latin velocitās, from velōx, velōc-, fast; see weg- in Indo-European roots.]American Heritage® Dictionary of the English Language, Fifth Edition. Copyright © 2016 by Houghton Mifflin Harcourt Publishing Company. Published by Houghton Mifflin Harcourt Publishing Company. All rights reserved. (vɹ'lsɪtɪ) n, pl -ties1. speed of motion, action, or operation; rapidity; swiftness2. (Units) physics a measure of the rate of motion of a body expressed as the rate of change of its position in a particular direction with time. It is measured in metres per second, miles per hour, etc. Symbol: u, v or w 3. physics (not in technical usage) another word for speed3[C16: from Latin velocitās, from velōx swift; related to volāre to fly]Collins English Dictionary - Complete and Unabridged, 12th Edition 2014 © HarperCollins Publishers 1991, 1994, 1998, 2000, 2003, 2006, 2007, 2009, 2011, 2014 (və'lsɪ tɪ) n., pl. -ties. 1. rapidity of motion, action, or operation; swiftness; speed. 2. Mech. the time rate of change of position of a body in a specified direction. [1540-50; < Latin velocitās speed. See velocipede, -ty2] Random House Kernerman Webster's College Dictionary, © 2010 K Dictionaries Ltd. Copyright 2005, 1997, 1991 by Random House, Inc. All rights reserved. (və-'lɒs-i-tē) The rate at which an object moves in a specified direction.Usage We normally think of velocity as the speed at which an object is moving—the distance per unit of time. But velocity in physics also includes the direction in which the object is moving, whereas direction has no bearing on an object's speed. For example, if two cars were driving at a rate of 50 miles per hour, and both headed due north, you could rightly say that they were both traveling at the same speed and at the same velocity. But if one of the cars were to turn west at a certain point, continuing at the same rate of 50 miles per hour, you could only say that they were traveling at the same speed, not at the same velocity. Similarly, traveling around a curve, a car may maintain the same speed throughout, but its velocity will be constantly changing. This change in velocity over time is called acceleration. The American Heritage® Student Science Dictionary, Second Edition. Copyright © 2014 by Houghton Mifflin Harcourt Publishing Company. Published by Houghton Mifflin Harcourt Publishing Company. All rights reserved.Rate of motion in a particular direction.Dictionary of Unfamiliar Words by Diagram Group Copyright © 2008 by Diagram Visual Information Limited Noun1.velocity - distance travelled per unit time angular velocity - (physics) the rate of change of the angular position of a rotating body; usually expressed in radians per second or radians per minuteairspeed - the speed of an aircraft relative to the air in which it is flyingescape velocity - the speed of an aircraft relative to the groundhypervelocity - excessive velocity; "the meteorites struck the earth with hypervelocity impacts"muzzle velocity - the velocity of a projectile as it leaves the muzzle of a gunspecular velocity - velocity with respect to the local standard of restradial velocity - velocity along the line of sight toward or away from the observerlight speed, speed of light, c - the speed at which light travels in a vacuum; the constancy and universality of the speed of light is recognized by defining it to be exactly 299,792,458 meters per secondsteerageway - (nautical) the minimum rate of motion needed for a vessel to be maneuveredterminal velocity - the constant maximum velocity reached by a body falling through the atmosphere under the attraction of gravityrate - a magnitude or frequency relative to a time unit; "they traveled at a rate of 55 miles per hour"; "the rate of change was faster than expected"Based on WordNet 3.0, Farlex clipart collection. © 2003-2012 Princeton University, Farlex Inc.Collins Thesaurus of the English Language - Complete and Unabridged 2nd Edition. 2002 © HarperCollins Publishers 1995, 2002nounRate of motion or performance: The American Heritage® Roger's Thesaurus. 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Copyright © 2016 by Houghton Mifflin Harcourt Publishing Company. Published by Houghton Mifflin Harcourt Publishing Company. All rights reserved. (vɹ'lsɪtɪ) n, pl -ties1. speed of motion, action, or operation; rapidity; swiftness2. (Units) physics a measure of the rate of motion of a body expressed as the rate of change of its position in a particular direction with time. It is measured in metres per second, miles per hour, etc. Symbol: u, v or w 3. physics (not in technical usage) another word for speed3[C16: from Latin velocitās, from velōx swift; related to volāre to fly]Collins English Dictionary - Complete and Unabridged, 12th Edition 2014 © HarperCollins Publishers 1991, 1994, 1998, 2000, 2003, 2006, 2007, 2009, 2011, 2014 (və'lsɪ tɪ) n., pl. -ties. 1. rapidity of motion, action, or operation; swiftness; speed. 2. Mech. the time rate of change of position of a body in a specified direction. [1540-50; < Latin velocitās speed. See velocipede, -ty2] Random House Kernerman Webster's College Dictionary, © 2010 K Dictionaries Ltd. Copyright 2005, 1997, 1991 by Random House, Inc. All rights reserved. (və-'lɒs-i-tē) The rate at which an object moves in a specified direction.Usage We normally think of velocity as the speed at which an object is traveling. But in physics, velocity and speed are not the same. Like speed, velocity refers to the rate at which an object is moving—the distance per unit of time. But velocity in physics also includes the direction in which the object is moving, whereas direction has no bearing on an object's speed. For example, if two cars were driving at a rate of 50 miles per hour, and both headed due north, you could rightly say that they were both traveling at the same speed and at the same velocity. 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All rights reserved.Rate of motion in a particular direction.Dictionary of Unfamiliar Words by Diagram Group Copyright © 2008 by Diagram Visual Information Limited Noun1.velocity - distance travelled per unit time angular velocity - (physics) the rate of change of the angular position of a rotating body; usually expressed in radians per second or radians per minuteairspeed - the speed of an aircraft relative to the air in which it is flyingescape velocity - the minimum velocity needed to escape a gravitational fieldgroundspeed - the speed of an aircraft relative to the groundhypervelocity - excessive velocity; "the meteorites struck the earth with hypervelocity impacts"muzzle velocity - the velocity of a projectile as it leaves the muzzle of a gunspecular velocity - velocity with respect to the local standard of restradial velocity - velocity along the line of sight toward or away from the observerlight speed, speed of light, c - the speed at which light travels in a vacuum; the constancy and universality of the speed of light is recognized by defining it to be exactly 299,792,458 meters per secondsteerageway - (nautical) the minimum rate of motion needed for a vessel to be maneuveredterminal velocity - the constant maximum velocity reached by a body falling through the atmosphere under the attraction of gravityrate - a magnitude or frequency relative to a time unit; "they traveled at a rate of 55 miles per hour"; "the rate of change was faster than expected"Based on WordNet 3.0, Farlex clipart collection. © 2003-2012 Princeton University, Farlex Inc.Collins Thesaurus of the English Language - Complete and Unabridged 2nd Edition. 2002 © HarperCollins Publishers 1995, 2002nounRate of motion or performance: The American Heritage® Roger's Thesaurus. 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Link to this page: What will be the period of transit of the projectile when endowed with sufficient initial velocity? and, consequently, at what moment ought it to be discharged in order that it may touch the moon at a particular point?The definition of a "momentary thing" involves problems concerning time, since the particulars constituting a momentary thing will not be all simultaneous, but will travel outward from the thing with the velocity of light (in case the thing is in vacuo). "But," rejoined the officer, "could any balloon withstand the wear and tear of such velocity?"("This model (which, through want of time, we have necessarily described in an imperfect manner,) was put in action at the Adelaide Gallery, where it accomplished a velocity of five miles per hour; although, strange to say, it excited very little interest in comparison with the previous complex machine of Mr.Presently, as I went on, still gaining velocity, the palpitation of night and day merged into one continuous greyness; the sky took on a wonderful deepness of blue, a splendid luminous color like that of early twilight; the jerking sun became a streak of fire, a brilliant arch, in space; the moon a fainter fluctuating band; and I could see nothing of the stars, save now and then a brighter circle flickering in the blue.The canoe whirled with each cunning evolution of the chase, like a bubble floating in a whirlpool; and when the direction of the pursuit admitted of a straight course the little bark skimmed the lake with a velocity that urged the deer to seek its safety in some new turn."Just so," said Nichol; "it is from that point that we must calculate the velocity, since we know already that the velocity at departure was exactly one and a half times more than on leaving the atmosphere."On the contrary he gazed joyfully, his eyes moist with tears, at this bright comet which, having traveled in its orbit with inconceivable velocity through immeasurable space, seemed suddenly--like an arrow piercing the earth--to remain fixed in a chosen spot, vigorously holding its tail erect, shining and displaying its white light amid countless other scintillating stars.My speed was so great that I could see nothing about me but a blurred and indistinct sheet of smooth and frozen snow, that rushed past me with express-train velocity.It was thus with the Pequod's; at almost every shock the helmsman had not failed to notice the whirling velocity with which they revolved upon the cards; it is a sight that hardly any one can behold without some sort of unwonted emotion,(which I naturally assumed to be Women) interspersed with other Beings still smaller and of the nature of lustrous points -- all moving to and fro in one and the same Straight Line, and, as nearly as I could judge, with the same velocity.Presently a great hole was torn in the hull of one of the immense battle craft from the Zodangan camp; with a lurch she turned completely over, the little figures of her crew plunging, turning and twisting toward the ground a thousand feet below; then with sickening velocity she tore after them, almost completely burying herself in the soft loam of the ancient sea bottom.

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