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## orthogonal

adjective

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## Definition of orthogonal

1a: intersecting or lying at right angles In orthogonal cutting, the cutting edge is perpendicular to the direction of tool travel.
b : having perpendicular slopes or tangents at the point of intersection orthogonal curves
2 : having a sum of products or an integral (see integral entry 1 sense 1 b ) that is zero or sometimes one under specified conditions: such as
a of real-valued functions : having the integral of the product of each pair of functions over a specific interval equal to zero
$b$ of vectors : having the scalar product equal to zero
c of a square matrix : having the sum of products of corresponding elements in any two rows or any two columns equal to one if the rows or columns are the same and equal to zero otherwise : having a transpose with which the product equals the identity matrix
3 of a linear transformation : having a matrix (see matrix sense 5a) that is orthogonal : preserving length and distance
4 : composed of mutually orthogonal elements an orthogonal basis of a vector space
5 : statistically independent mental ability may be classified into several orthogonal ... factors- O. D. Duncan
6: orthographic sense 1 orthogonal projection
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## Other Words from orthogonal

orthogonality $\backslash$ òr-, thä-gə-'na-lə-té (4)) $\backslash$ noun
orthogonally $\backslash$ ór- 'thä-gə-n²l-è © (4) $\backslash$ adverb

## Examples of orthogonal in a Sentence

Recent Examples on the Web It is moved in a straight line (orthogonal or diagonal) to the first vacant intersection beyond the men, and the men so jumped are immediately removed. - Quanta Magazine, "A Life in Games," 28 Aug. 2015 The methods developed so far really think about genetics and environment as separate and orthogonal, as independent factors. - Quanta Magazine, "New Turmoil Over Predicting the Effects of Genes," 23 Apr. 2019

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## First Known Use of orthogonal

circa 1560 , in the meaning defined at sense 1a

## History and Etymology for orthogonal

Middle French, from Latin orthogonius, from Greek orthogōnios, from orth - + gōnia angle - more at - gon
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## The first known use of orthogonal was circa 1560

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orthogonalize
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## Medical Definition of orthogonal

1a: lying or intersecting at right angles
b : being, using, or made with three ECG leads whose axes are perpendicular to each other and to the frontal, horizontal, and sagittal axes of the body the three orthogonal leads were recorded simultaneously on magnetic tape - Massoud Nemati et al

2 : statistically independent mental ability may be classified into several orthogonal...factors- O. D. Duncan
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