



Search a word or phrase



American

British

hyperplane

[**hahy**-per-pleyn, hahy-per-**pleyn**] ☒ Phonetic (Standard) ☐ IPA**noun***Mathematics.*

- ¹ a subspace of a vector space that has dimension one less than the dimension of the vector space.

Word of the Day

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First recorded in 1900–05; [hyper-](#) + [plane](#).¹

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Example Sentences

 Examples have not been reviewed.

Mathematically, this piece of paper is called a hyperplane.

From [Science Daily](#)

Many safety check algorithms work by generating this hyperplane at a single point in time.

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However, each time the robot moves, a new hyperplane needs to be recomputed to perform the safety check.

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Instead, this new technique generates a hyperplane function that moves with the robot, so it can prove that an entire trajectory is collision-free rather than working one hyperplane at a time.

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This function is an equation that describes where the hyperplane needs to be at each point in the planned trajectory so it remains collision-free.

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WORD OF THE DAY

APRIL 09, 2025

ormolu 

[*awr-muh-loo*]

[Meaning and examples](#)

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rhapsodic.

tenacious.

adaptable.

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