



**Why**

If we can interpret the points in  $\mathbf{R}^2$  as displacements, what of the points in  $\mathbf{R}^3$

**Definition**

A *space vector* (or *vector*, *three-dimensional vector*, *3-vector*) is an element of  $\mathbf{R}^3$ .<sup>1</sup>

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<sup>1</sup>Future editions will include visualizations.



