

Dimensions of a vector space can alternatively be characterized as **the trace of the identity map**. This appears to be a circular definition, but it allows useful generalizations. For a definition of a notion where one has a trace but no natural dimension, for example, one may have an algebra of maps. The inclusion of scalars into the algebra gives a map corresponding to the trace. The composition is a scalar operator on a dimensional space, and the trace of identity, and gives the dimension for an abstract algebra. In practice, this map is required to be the identity, obtained by normalizing the trace by the dimensions, so in these cases the constant corresponds to one. Alternatively it may be possible to define the dimension of a vector space as the trace of the identity map.

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