Source:

1 | Matrix of a vector, $\mathcal{M}(v)$ def

Given a vector $v \in V$ and a basis v_1, \ldots, v_n , the *matrix of \$v\$* "with respect to this basis" is an n-by-1 matrix of the coefficinets. (Because every vector can be written as a linear combination of a basis).

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