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web coordinates of \mathbf{v} the standard coordinates are v_i the b_i are assumed if no other basis is specified this means $\mathbf{v} = \sum_i v_i \mathbf{e}_i$ if \mathbf{b}_i is a basis of \mathbb{R}^n then the matrix S which contains the vectors \mathbf{b}_k as column vectors is called the coordinate change matrix

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web and now that we know what \mathbf{d} is we can now solve for \mathbf{a} we can now solve for the transformation matrix with respect to the standard basis so to do that we have to figure out \mathbf{c} and \mathbf{c}^{-1} so \mathbf{c} remember \mathbf{c} is just the change of basis matrix and all that is is the basis vectors it's just a matrix with the basis vectors in the column

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 however translations are very useful in performing coordinate transformations i ll introduce the following terminology for the
 composite of a linear transformation and a translation definition let a be a real matrix

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web any vector v represented in b can be transformed to a representation in c as follows under the transformation of basis
 notice that the superscript on the transformation matrix m and the subscript on the coordinate vector v are the same and
 seemingly cancel leaving the remaining subscript

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 matrix this transforms the components of any vector with respect to one coordinate frame to the components with respect to
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