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 $4e2 \ 4 \ 5 \ 2$ if $b_1 \ b_2 \ b_3$ is a basis of $\mathbb{R}^3$ then the matrix S which contains the vectors v_k as column vectors is called the coordinate change matrix

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web and now that we know what D is we can now solve for A we can now solve for the transformation matrix with respect to the standard basis so to do that we have to figure out C and C^{-1} so C remember 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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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
a second coordinate frame rotated with respect to the first frame

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in the following basis $\beta = \{ \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}, \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}, \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} \}$

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