

# Antigenic Drift And Antigenic Shift

**Tobias Bleicker**

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two dimensional case the transformation matrix is orthogonal. This follows from the example: consider a cartesian coordinate system with base vectors  $e_1$  and  $e_2$ . A coordinate transformation is carried out with the new basis given by  $\{3e_1 + 4e_2, 4e_1 - 5e_2\}$ .

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web coordinates of  $v$  the standard coordinates are  $v_1, v_2$ . If  $b_1, b_2$  are assumed if no other basis is specified this means  $v = v_1 b_1 + v_2 b_2$ . If  $b_1, b_2$  form a basis of  $\mathbb{R}^2$  then the matrix  $S$  which contains the vectors  $b_k$  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 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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web a translation by a nonzero vector is not a linear map because linear maps must send the zero vector to the zero vector 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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