



# War Patterns Of Conflict

**J Elliott**



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web in linear algebra a rotation matrix is a transformation matrix that is used to perform a rotation in euclidean space for example using the convention below the matrix rotates points in the  $xy$  plane counterclockwise through an angle  $\theta$  about the origin of a two dimensional cartesian coordinate system

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1 this follows from  $q^{-1} = q^T$  1 5 11 1 5 13 example consider a cartesian coordinate system with base vectors  $e_i$  a coordinate

transformation is carried out with the new basis given by  $e'_i$  3 3 2 3 3 1 2 3 3 1 3 2

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web coordinates of  $v$  the standard coordinates are  $v_i$  3 are the  $b_i$   $b_i$  are assumed if no other basis is specified this means  $v = \sum b_i v_i$

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

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web the vector  $b$  is parallel to  $a$  and points in the same direction if  $\alpha > 0$  for  $\alpha < 0$  the vector  $b$  is parallel to but points in the opposite direction antiparallel if we multiply an arbitrary vector  $a$  by the inverse of its magnitude  $1/|a|$  we obtain a

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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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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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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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