

Chapter 5 – Matrices

Swapping Rows (Piv)

- The order of a matrix is used to indicate size $\begin{pmatrix} a & b \\ c & d \end{pmatrix}$ is $a \times b \times d$
- Matrices represent transformations
- $\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$ are the identity matrices for 2×2 and 3×3 matrices respectively
- The determinant clearly is the area scale factor, and can be inverted and we get $\det^{-1} = \frac{1}{\det}$
- For a 2×2 matrix, $\begin{pmatrix} a & b \\ c & d \end{pmatrix}$
- If the determinant is equal to 0, the matrix is said to be singular
- Non-singular matrices have an inverse. It can be calculated using:
$$\det^{-1} = \frac{1}{\det} \begin{pmatrix} d & -b \\ -c & a \end{pmatrix}$$
- Matrix multiplication is associative: $(AB)C = A(BC)$
- $\det(A^T) = \det(A)$ (The order is true of the transpose of any $n \times n$ matrix)

Then determinant of a 2×2 is

using the 2×2 matrix $\begin{pmatrix} a & b \\ c & d \end{pmatrix}$

To find the $\det$, we need to first calculate the matrix of minors, and need to calculate the minor for each element

For example:

To find out the minor of a , we need to cross out the row with a , and the column with a , and we're left with a 2×2 matrix, the determinant of which will be the minor.

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \rightarrow \begin{pmatrix} d & -b \\ -c & a \end{pmatrix}$$

We calculate this for every element of the matrix, but in the case of finding the determinant we only need to calculate the minors of a row or column (e.g. we could find the minors of all and it will be the same)

When we calculate the $\det$ we also need to consider the matrix of cofactors. This is the matrix of minors but with the signs changed. The signs alternate the matrix and

$$\begin{pmatrix} + & - \\ - & + \end{pmatrix}$$

We also need to multiply by the original element

The determinant of our original matrix (calculating using the first column) is therefore

$$\det(A) = +a \begin{vmatrix} d & -b \\ -c & a \end{vmatrix} + c \begin{vmatrix} a & b \\ d & -b \end{vmatrix}$$

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Ali Abbas

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