

EXAMPLES OF LINEAR TRANSFORMATIONS

Translation Translation vectors that move the origin of the coordinate system.	
Reflection Reflection across the origin, x-axis, or y-axis.	
Scaling Scaling the coordinate system by a factor of 2 or 1/2.	
Rotation Rotation of the coordinate system by an angle theta.	
Shearing Shearing the coordinate system by a factor of 2 or 1/2.	
Projection Projection of the coordinate system onto a line.	
Orthogonal Projection Orthogonal projection of the coordinate system onto a line.	

$$T(x) = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} ax + by \\ cx + dy \end{bmatrix}$$

PROPERTIES OF THE LINEAR TRANSFORMATIONS

Translation: $T(x) = x + v$

Reflection: $T(x) = -x$

Scaling: $T(x) = kx$

Rotation: $T(x) = R_\theta x$

Shearing: $T(x) = \begin{bmatrix} 1 & k \\ 0 & 1 \end{bmatrix} x$

Projection: $T(x) = \frac{1}{\|v\|^2} v v^T x$

Orthogonal Projection: $T(x) = \frac{1}{\|v\|^2} v v^T x$

$$T(x) = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} ax + by \\ cx + dy \end{bmatrix}$$

LINEAR TRANSFORMATIONS

The linear transformations that map the origin to the origin are called linear transformations. The matrix that represents the linear transformation is called the transformation matrix.



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