

Matrix Multiplication as Composition

пятница, 29 марта 2019 г. 23:04

Want to describe multiple transformations.

like rotation and a shear

→ This is called a composition.
in accumulation is

$$\underbrace{\begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix}}_{\text{SHEAR}} \underbrace{\left(\begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} \right)}_{\text{ROTATION}} = \begin{bmatrix} 1 & -1 \\ 1 & 0 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix}$$