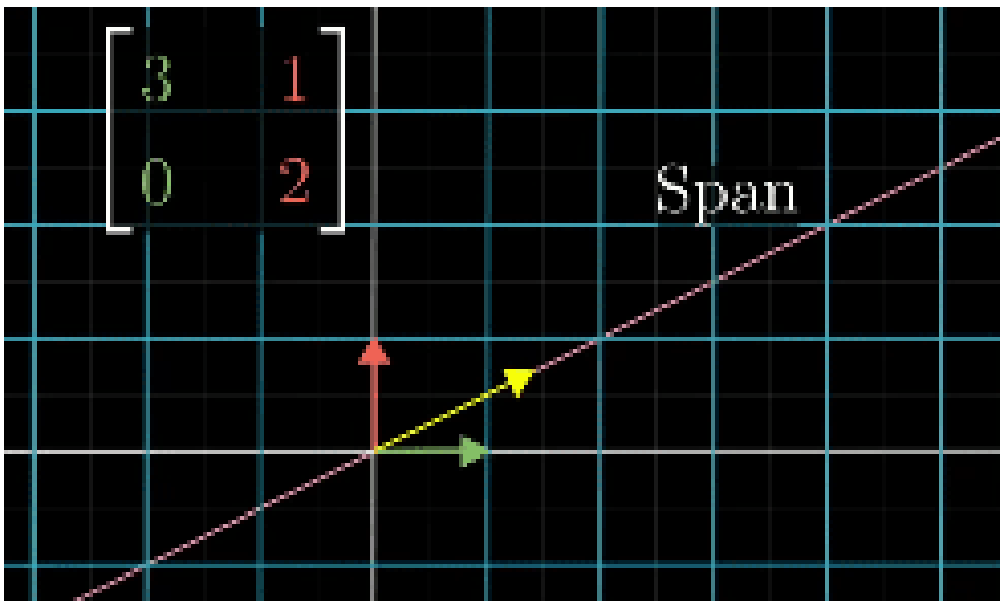
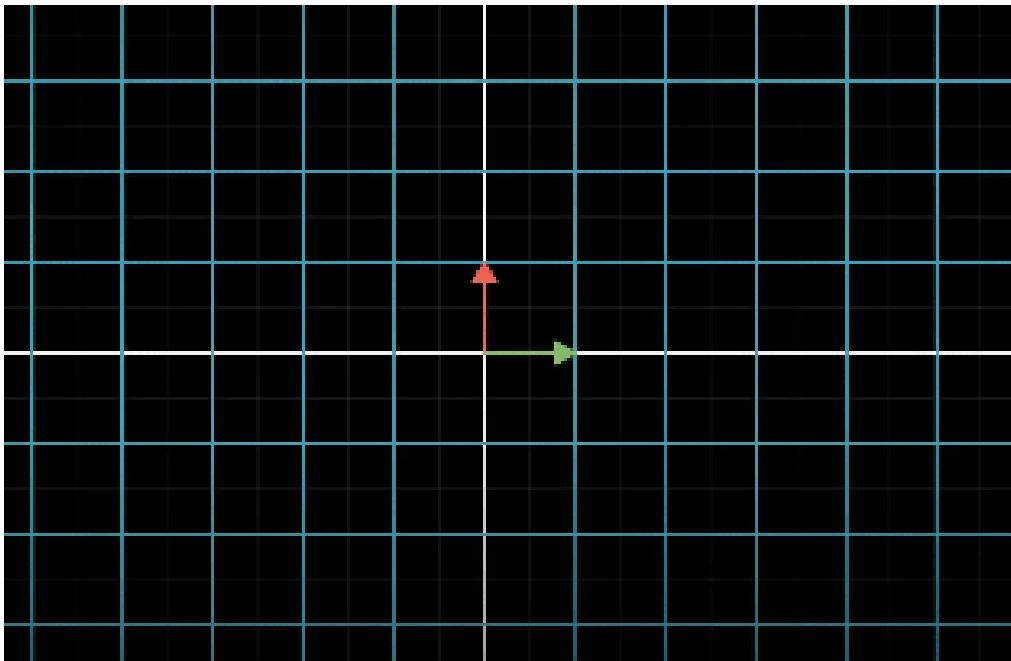
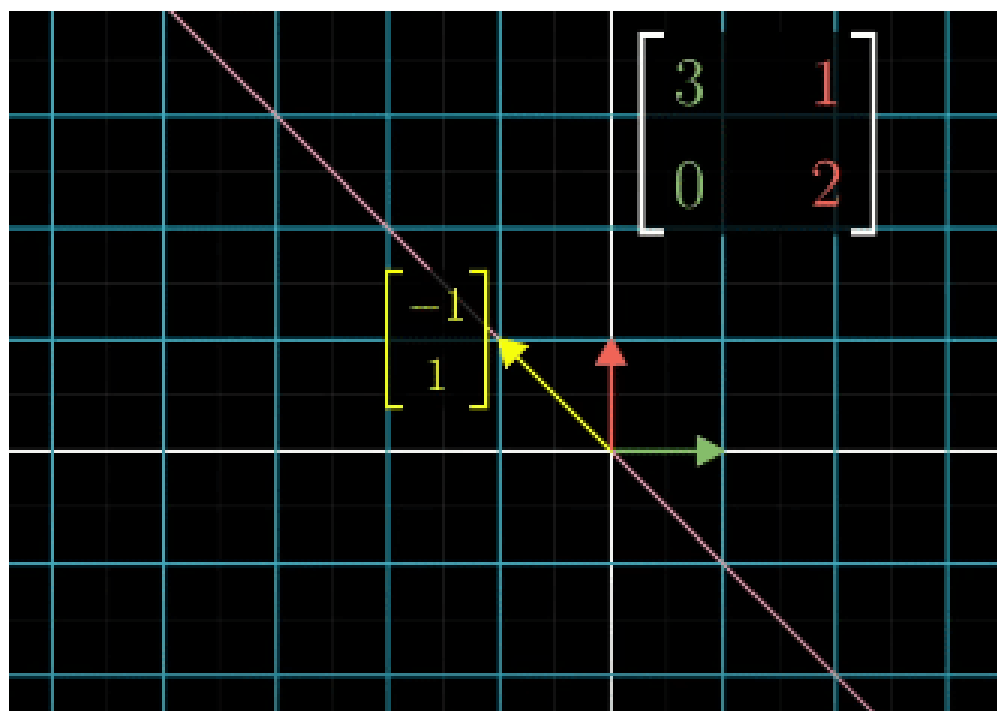
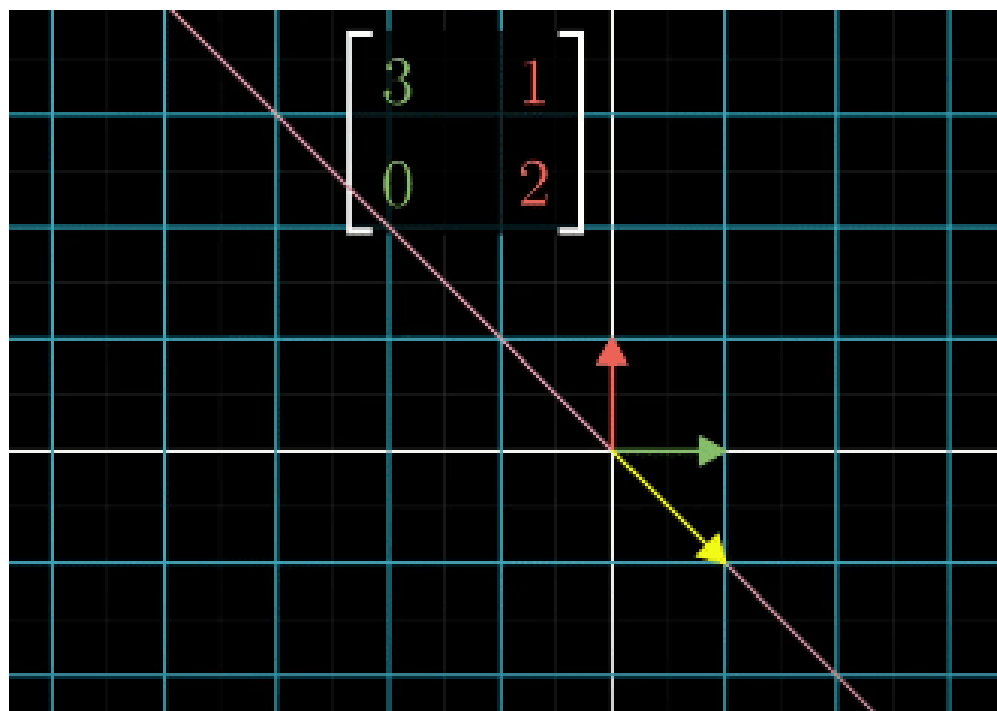
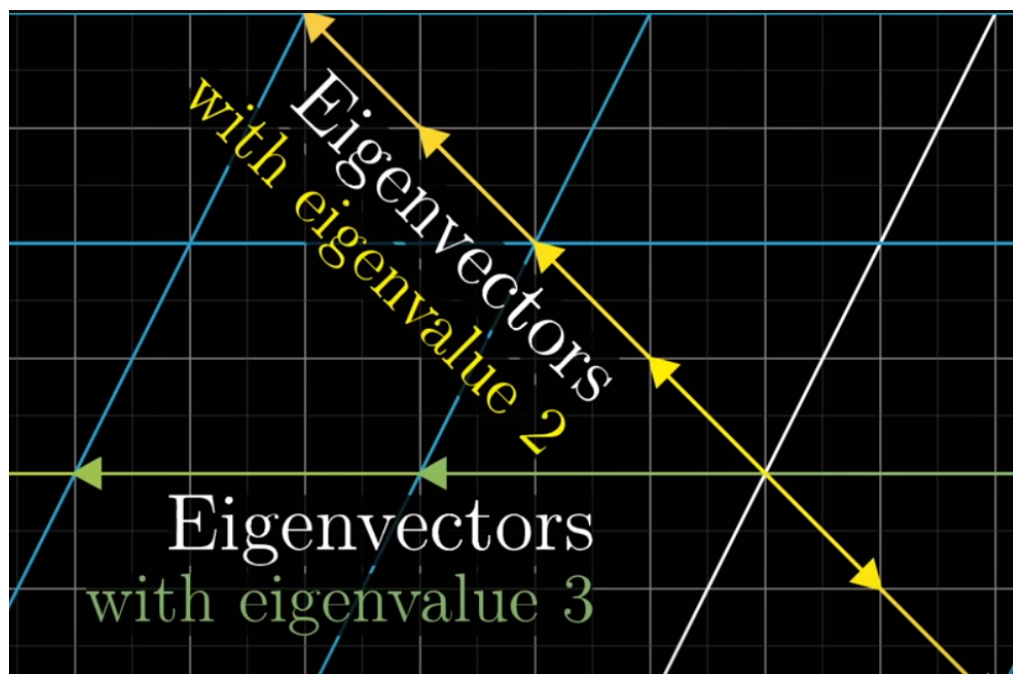
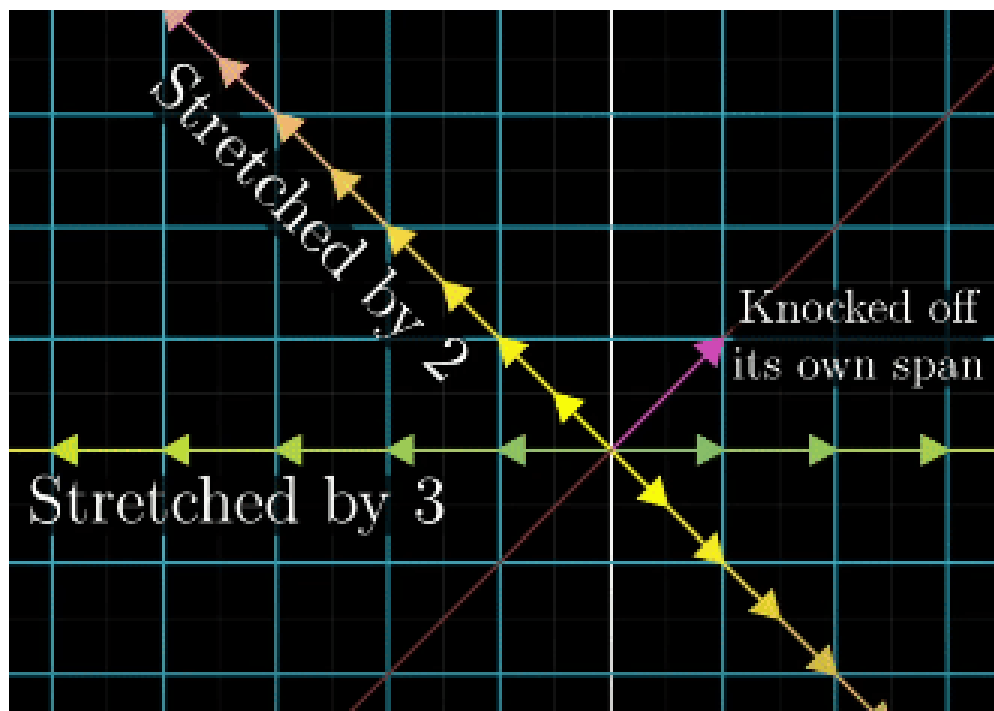


# Eigenvectors and Eigenvalues

Prereq: Change of Basis, Determinants, Linear Transformation, Linear Systems of Equations, span







$$\begin{bmatrix} 0.5 & -1.0 \\ -1.0 & 0.5 \end{bmatrix}$$

Eigenvector with  
eigenvalue  $-\frac{1}{2}$



# “Diagonal matrix”

$$\begin{bmatrix} -5 & 0 & 0 & 0 \\ 0 & -2 & 0 & 0 \\ 0 & 0 & -4 & 0 \\ 0 & 0 & 0 & 4 \end{bmatrix}$$

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Revision #3

Created 9 February 2024 00:58:59 by victor

Updated 11 February 2024 19:26:41 by victor