

# Eigenvector Example

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- Eigenvalues

$$\mathbf{A} = \begin{bmatrix} 1 & 2 \\ 3 & -4 \end{bmatrix} \quad \lambda_1 = -5 \\ \lambda_2 = 2$$

- Determine eigenvectors:  $\mathbf{Ax} = \lambda\mathbf{x}$

$$\begin{aligned} x_1 + 2x_2 = \lambda x_1 &\Rightarrow (1 - \lambda)x_1 + 2x_2 = 0 \\ 3x_1 - 4x_2 = \lambda x_2 &\Rightarrow 3x_1 - (4 + \lambda)x_2 = 0 \end{aligned}$$

- Eigenvector for  $\lambda_1 = -5$

$$\begin{aligned} 6x_1 + 2x_2 = 0 \\ 3x_1 + x_2 = 0 \end{aligned} \Rightarrow \mathbf{x}_1 = \begin{bmatrix} -0.3162 \\ 0.9487 \end{bmatrix} \text{ or } \mathbf{x}_1 = \begin{bmatrix} 1 \\ -3 \end{bmatrix}$$

- Eigenvector for  $\lambda_1 = 2$

$$\begin{aligned} -x_1 + 2x_2 = 0 \\ 3x_1 - 6x_2 = 0 \end{aligned} \Rightarrow \mathbf{x}_2 = \begin{bmatrix} 0.8944 \\ 0.4472 \end{bmatrix} \text{ or } \mathbf{x}_2 = \begin{bmatrix} 2 \\ 1 \end{bmatrix}$$



# An Introduction To Linear Algebra Eigenvector

**Joacim Rocklöv**



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