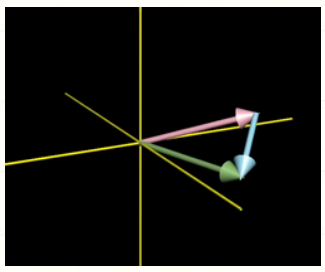
LINEAR ALGEBRA MADE FUN

01

VECTORS

02

LINEAR COMBINATIONS, SPAN, AND BASIS VECTORS



LINEAR TRANSFORMATIONS AND MATRICES

03

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

04

MATRIX MULTIPLICATION

05

COLUMN SPACE AND NULL SPACE

EIGENVECTORS AND EIGENVALUES

$$A\vec{\mathbf{v}} = \lambda\vec{\mathbf{v}}$$

06