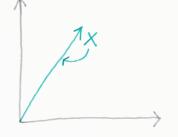


Vectors are ordered arrays of numbers (scalars). Can be thought of as both data and geometrically:

$$X = \begin{bmatrix} x_1 & x_2 & \dots & x_n \end{bmatrix}$$

$$X = \begin{bmatrix} X_1 \\ \vdots \\ X_n \end{bmatrix}$$



GEOMETRICALLY: