

→ Definição de Matriz

$m \times n \rightarrow \# \text{ columns}$

$\hookrightarrow \# \text{ rows}$

$$2 \times 2: A = \begin{pmatrix} a & b \\ d & c \end{pmatrix}$$

$$3 \times 2: B = \begin{pmatrix} a & b \\ c & d \\ e & f \end{pmatrix}$$

$$2 \times 3: C = \begin{pmatrix} a & b & c \\ d & e & f \end{pmatrix}$$

Column Vectors:

$$m \times 1: X = \begin{pmatrix} a \\ b \\ \vdots \\ m \end{pmatrix}$$

row vector:

$$1 \times m = (1 \dots m)$$

$$m \times n: A = \begin{pmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ \vdots & & \ddots & \vdots \\ a_{m1} & \dots & \dots & a_{mn} \end{pmatrix}$$