

x_1	x_2	x_3	\cdots	x_n
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1D array

$$\begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ \vdots \\ x_n \end{pmatrix}$$

column vector

$$\begin{pmatrix} x_{11} \\ x_{21} \\ x_{31} \\ \vdots \\ x_{n1} \end{pmatrix}$$

column matrix

$$(x_1 \quad x_2 \quad x_3 \quad \cdots \quad x_n)$$

row vector

$$(x_{11} \quad x_{12} \quad x_{13} \quad \cdots \quad x_{1n})$$

row matrix