

\mathbf{x} takes values in \mathbb{R} . \mathbf{x} takes values in \mathbb{R}^3 .

Notation Table

Symbol	Description
\mathbf{x}	Indicates that \mathbf{x} is a vector, as opposed to a scalar x .
\mathbf{x}	Indicates that \mathbf{x} is a random variable, as opposed to a deterministic variable x . A random variable \mathbf{x} will typically have probability density function $p_{\mathbf{x}}$.
\mathbb{R}	The set of real numbers.