

Random Variables

X

↓

function

↓

values

↓

Process or Experiments

$$\begin{cases} y = 5x + 2 \\ y = 5(1) + 2 = 7 \end{cases}$$

$$X=1, X=2, X=3$$

$$X = \begin{cases} 0 & H \\ 1 & T \end{cases}$$

Tossing a Coin

$$X = \begin{cases} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \end{cases}$$

Rolling a pair
dice

Random Variable

Discrete Random

Continuous Random
Variable

Example

Tossing a Coin }
Rolling a dice }

Example

Tomorrow how many inches }
it is going to rain }

$[1.1, 5.5, 10.5, 10.75]$

Height of the people
attending the event
tomorrow

Example: 150 cm, 160 cm, 171.2 cm