$$\mathbb{P}(\text{at least one } H) = \frac{\#\text{ outcomes in event}}{\text{total \# outcomes}}$$

$$= \frac{3}{4}$$

HH, HT, TH

Equally likely outcomes, finite outcome space

any event E $\quad \mathbb{P}(E) = \frac{\#\text{ outcomes in } E}{\text{total \# outcomes}}$

toss coin 3 times

$$\Omega = \begin{cases} HHH \\ HHT \\ HTH \\ HTT \\ THH \\ THT \\ TTH \\ TTT \end{cases}$$

$\mathbb{P}(\text{Exactly 2 H}) = \frac{3}{8}$

Probability model

Ω outcome space

$\mathbb{P}$ a way to assign probabilities to events