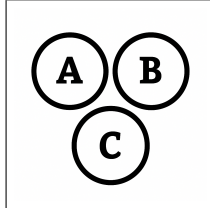


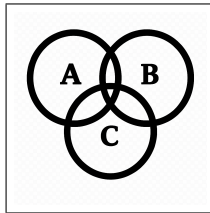
# G

## Probability

# G



$$S = \{B, B, R, R, R\}$$



$$\textcircled{\#}(S, BB) = \textcircled{\#}(S, B) \times \textcircled{\#}(S, B) = 0.40 \times 0.25 = 0.10$$

$$\textcircled{\#}(S, BR) = \textcircled{\#}(S, B) \times \textcircled{\#}(S, R) = 0.40 \times 0.75 = 0.30$$

$$\textcircled{\#}(S, RB) = \textcircled{\#}(S, R) \times \textcircled{\#}(S, B) = 0.60 \times 0.50 = 0.30$$

$$\textcircled{\#}(S, RR) = \textcircled{\#}(S, R) \times \textcircled{\#}(S, R) = 0.60 \times 0.50 = 0.30$$

$$\textcircled{\#}(S, BB) = \textcircled{\#}(S, B) \times \textcircled{\#}(S, B) = 0.40 \times 0.40 = 0.16$$

$$\textcircled{\#}(S, BR) = \textcircled{\#}(S, B) \times \textcircled{\#}(S, R) = 0.40 \times 0.60 = 0.24$$

$$\textcircled{\#}(S, RB) = \textcircled{\#}(S, R) \times \textcircled{\#}(S, B) = 0.60 \times 0.40 = 0.24$$

$$\textcircled{\#}(S, RR) = \textcircled{\#}(S, R) \times \textcircled{\#}(S, R) = 0.60 \times 0.60 = 0.36$$



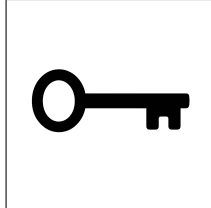
$$S = \{B, B, R\}$$

$$\textcircled{\#}(S, BB) = \textcircled{\#}(S, B) \times \textcircled{\#}(S, B) = ?$$

# G

## Probability

# G



$$S = \{B, B, R\}$$

$$\mathbb{P}(S, BB) = \mathbb{P}(S, B) \times \mathbb{P}(S, B) = 2/3 \times 2/3 \approx 0.44$$