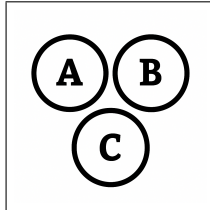
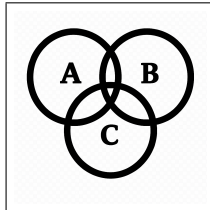


C Conditional Probabilities C



$$\begin{aligned}H &= 60 \\U &= 100 \\P(M \cap H) &= 0.10 \\P(H) &= 60/100 = 0.60 \\P(M|H) &= ?\end{aligned}$$

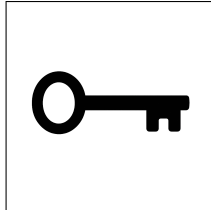


$$\begin{aligned}H &= 60 \\U &= 100 \\P(M \cap H) &= 0.10 \\P(H) &= 60/100 = 0.60 \\P(M|H) &= P(M \cap H)/P(H) = 0.10/0.60 = 1/6 \approx 0.17\end{aligned}$$



$$\begin{aligned}P(A) &= 0.30 \\P(B) &= 0.40 \\P(A \cap B) &= 0.10 \\P(A|B) &= ?\end{aligned}$$

C Conditional Probabilities C



$$P(A) = 0.30$$

$$P(B) = 0.40$$

$$P(A \cap B) = 0.10$$

$$P(A|B) = ?$$

$$P(A|B) = P(A \cap B) / P(B) = \frac{0.10}{0.40} = 0.25$$