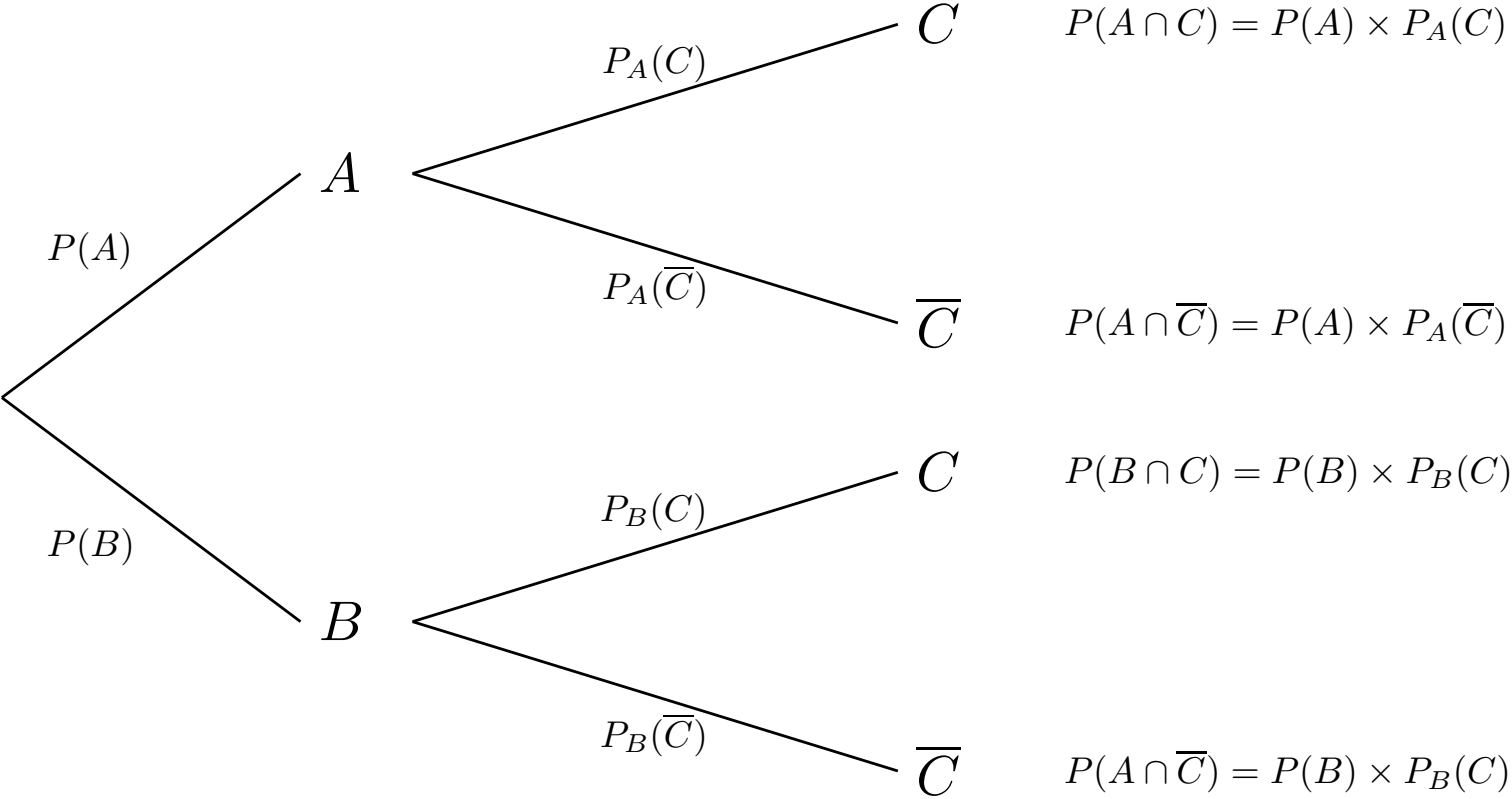
A
B
$P(A)$
$P(B)$
$P_A(C)$
$P_A(\overline{C})$
$P_B(C)$
$P_B(\overline{C})$
C
$\overline{C}$
C
$\overline{C}$
$P(A \cap C) = P(A) \times P_A(C)$
$P(A \cap \overline{C}) = P(A) \times P_A(\overline{C})$
$P(B \cap C) = P(B) \times P_B(C)$
$P(A \cap \overline{C}) = P(B) \times P_B(C)$