$$\begin{split} P: \Omega &\rightarrow [0;1] \\ P(\Omega) &= 1 \\ P(\oslash) &= 0 \\ P(A) &= \sum_{i=1}^n P(A_i) \times P(A|A_i) \\ P(\bar{A}) &= 1 - P(A) \\ P(A \cup B) &= P(A) + P(B), \ A \cap B = \oslash \\ P(A \cup B) &= P(A) + P(B) - P(A \cap B) \\ P(A \cap B) &= P(A) \times P(B), \ A \cap B = \oslash \\ P(A|B) &= P_B(A) = \frac{P(A \cap B)}{P(B)} \\ A_i \cap A_j &= \oslash, \ (\forall) i, j \in \mathbb{N}, \ i \neq j \\ \bigcup_{i=1}^n A_i &= \Omega \\ \text{Formula Bayes: } P(A_i|A) &= \frac{P(A_i) \times P(A|A_i)}{\sum_{i=1}^n P(A_i) \times P(A|A_i)} \end{split}$$