

Conditional probability

How can we calculate the result in a case where two events are not independent. It means that, if one event occurs it will directly affect the probability for the other event?

If event A and B are those kind of complex events which will not exclude each other. In this case we have a so-called conditional probability (event A affects event B).

Notation: $(p(A | B) \setminus)$

In this case we mean the relative frequency which compares the sum of all probability to the probability of event B (probability of its occurrence).

$$p(A|B) = \frac{k_{AB}}{k_B} = \frac{\frac{k_{AB}}{k}}{\frac{k_B}{k}} = \frac{P(A \cap B)}{p(B)}$$

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