Conditional Probability: Fundamentals: Takeaways

Concepts

- The probability of an event A can be updated based on the occurrence of another event. The probability that A occurs *given* that B occurs is denoted as P(A|B) and is called the **conditional probability** of A with the condition that B occurs.

- We can calculate P(A|B) using a formula written in terms of set cardinals:

- Another way to calculate P(A|B) consists of using a formula written in terms of probabilities (this is useful when we only know probabilities):

- Both formulas above lead to the same result:

Resources

- [An easy intro to some basic conditional probability concepts](#)

- [A more technical convey of conditional probability](#)