

Conditional Probability: Fundamentals: Takeaways



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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](#)



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