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## **Probability**

It is the opposite of statistics as in statistics we use analyse data, in probability we predict data using assumptions we make about it.

Basic probability law: The probability of an event is 1 - the probability of opposite event

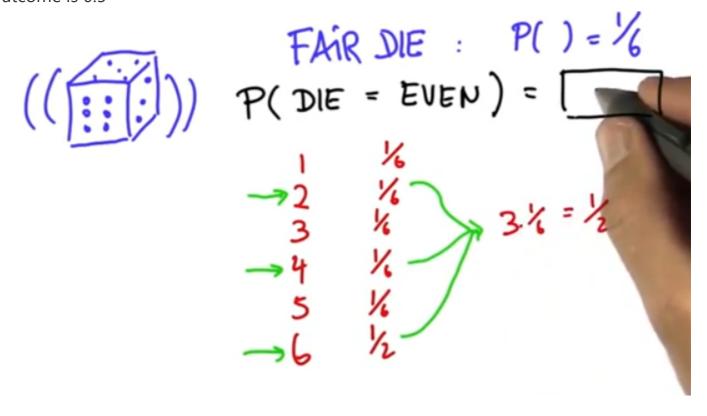
$$P(A) = 1 - P(7A)$$

You can get the probability of a composite event which is the probability (p) times how many event wanted:

EX:

how many times can you flip a coin and get a tails : solution is the P(tails) \* P(tails)

EX: (with solution) how many times can you get an even number on a die flip: the outcome is 0.5



EX2: how many times can you get a double (same number) in a fair dice thrown twice