

# Probably About Probability

$p < .05$

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# Probability

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- ⊕ Inferential statistics allow us to decide if one condition of an experiment produces different results than another condition
- ⊕ Inferential statistics are based on the concepts of probability
- ⊕ Thus, probability is an essential aspect of statistics

# What Is Probability?

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- ⊕ Probabilities often deal with *events*
- ⊕ An event is something that happens
  - ⊕ E.g. Rolling a 3 on a fair die is an event
- ⊕ The probability of an event is given by the ratio of how often that event occurs and how often all events occur