5	Probability:	the	mathematics	of	rando	omness

The theory of probability is the mathematician's description of random variation. This chapter introduces enough probability to serve as a minimum background for making formal statistical inferences.

5.1 (Discrete) random variables

The concept of a random variable is introduced in general terms and the special case of discrete data is considered.

- 5.1.1 Random variables and distributions
- 5.1.2 Probability mass functions and cumulative distribution functions
- 5.1.3 Summaries
- 5.1.4 Special discrete distributions