



Belief and probability

Rules for manipulating probability

Introduction to distributions



Reading: Random variables
10 min



Video: Random Variables and Distributions
12 min



Video: Moments, mean and variance
10 min



Video: Joint distributions of Random Variables
5 min



Practice Quiz: Week 2 Distributions Practice
6 questions



Quiz: Week 2 Distributions Graded Quiz
3 questions

Estimation using MoM and MLE

Decisions, loss and priors

More on Priors



Random variables

Given a random process, we might want track the process. The representation of the process mathematically leads us to the idea of a random variable. A random variable is composed of the ideas we have been talking through: sample space, event space, probability space and a mapping of events to the real line. For a general writup, see https://en.wikipedia.org/wiki/Random_variable

Random variables are the quantities we work with when working through questions in statistics.

For the following lectures, please refer to Jupyter Notebook: Fundamentals-lecture3-intro-distributions

✓ Complete

Go to next item

