

4 Thinking probabilistically-- Continuous variables

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In the last chapter, you learned about probability distributions of discrete variables. Now it is time to move on to continuous variables, such as those that can take on any fractional value. Many of the principles are the same, but there are some subtleties. At the end of this last chapter of the course, you will be speaking the probabilistic language you need to launch into the inference techniques covered in the sequel to this course.

 Probability density functions	50 xp
 Interpreting PDFs	50 xp
 Interpreting CDFs	50 xp
 Introduction to the Normal distribution	50 xp
 The Normal PDF	100 xp
 The Normal CDF	100 xp
 The Normal distribution: Properties and warnings	50 xp
 Gauss and the 10 Deutschmark banknote	50 xp
 Are the Belmont Stakes results Normally distributed?	100 xp
 What are the chances of a horse matching or beating Secretariat's record?	100 xp
 The Exponential distribution	50 xp
 Matching a story and a distribution	50 xp
 Waiting for the next Secretariat	50 xp
 If you have a story, you can simulate it!	100 xp
 Distribution of no-hitters and cycles	100 xp
 Final thoughts and encouragement toward Statistical Thinking II	50 xp

HIDE CHAPTER DETAILS