Week 01
February 6-10, 2006

• Recitation 01: Thursday
  – Covers Section 1.1, 1.2
  – Review set notation, terms, and operators (include De Morgan’s)
  – Discuss sample spaces, define events
  – Stress graphical representations of the sample space and show various representations
  – Review probability axioms and probability laws
  – Give examples of above using Venn diagrams
  – Problem 1 Reinforces the use of set notation, manipulation, and the meaning of ”show”
  – Problem 2 Uses the basics of probability laws in a practical setting
  – Problem 3 ”Classic” 6.041 graphical example for a continuous model

• Problem Set 01: Out 2/8, Due 2/15
  – Covers Section 1.1, 1.2
  – Problem 1 Warm up of set operations and Venn diagrams
  – Problem 2 and 3 Practice using the axioms and laws of probability
  – Problem 4 Probability Law and Graphical methods for discrete probabilistic models
  – Problem 5 Probability Law and Graphical methods for continuous probabilistic models
  – Problem 6 Dice problem with a slight twist
  – Problem 7 Grad Problem: Proving an expansion of a presented probability law

• No tutorials this week.