Reading #2: SVMs

Reading #2

- Manning et al 2008: ch 15
  - 15.1: SVM: the linearly separable case
  - 15.2: extensions to the SVM model
    - Soft-margin classification
    - Multi-class SVMs
    - Nonlinear SVMs

- Due: Feb 18 **at 11AM**

Questions

- Q1: What is a hyperplane? What does each axis in the feature space represent?

- Q2: What does SVM try to optimize?

- Q3: What is a kernel? What's the benefit of using kernels?

- Q4: What is soft-margin? Why do we need it?