

# Reading #3

- Manning et al. (2008): Chapter 15
  - 15.1: SVM: the linearly separable case
  - 15.2: Extensions to the SVM model
    - soft margin classification
    - multiclass SVMs
    - Nonlinear SVMs
- Due date: Feb 16

# 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?