module 2: numerical optimization

DATA PROBLEM
- RAW DATA
  - housing data
  - spam data
- LABELS

DATA PROCESSING

REPRESENTATION
- FEATURES

SELECTION

LEARNING
- CLUSTERING
- SUPERVISED LEARNING
  - numerical optimization
  - Logistic Regression
  - Perceptron
  - Neural Network

PERFORMANCE
- EVALUATION
  - train/test error, accuracy
  - Cross Validation
  - ROC

ANALYSIS

TUNING