Project Backlog

* Decide what features make an object unique
  + Color
  + Shape
* Extract features from an object into a feature vector
  + Color
  + Shape
* Manually associate a classification with an object
* Read an image as an array of pixels
* Identify edges and corners to isolate image from background
  + Implement edge detector(Canny?)
  + Blur image to remove detail
  + Convert image to grayscale
* Identify general shape of object from edges
  + Research shape context
  + Implement shape context
    - Sample points along edge of object
    - Calculate distance and angle for point pairs
    - Generate log-polar histogram representing shape context
    - Calculate cost of matching point pairs
    - Transform known object to match unknown object
    - Calculate cost of transform
* Identify predominant colors in object
* Be able to reject a classification
  + Manually enter correct classification