Machine Learning. Manhattan College. DeBonis. Project 1.

- Files Necessary: Zero.mat, One.mat
  - Each file contains a matrix where each row is a single digit of length $784 = 28 \times 28$
  - Express each row as a 28×28 matrix of greyscale values from 0 to 255. Let's name this matrix M.
  - To view the image type "imshow(M,[0,255])"
- Write code to perform the following operations:
  i. Read in each matrix.
  ii. Extract two features from each matrix.
  iii. Plot the resulting two dimensional feature points (zeros colored red and ones colored green).
  iv. Try to separate the two classes as much as possible (you may not be able to completely separate them).
  v. If not satisfied, then extract different features.