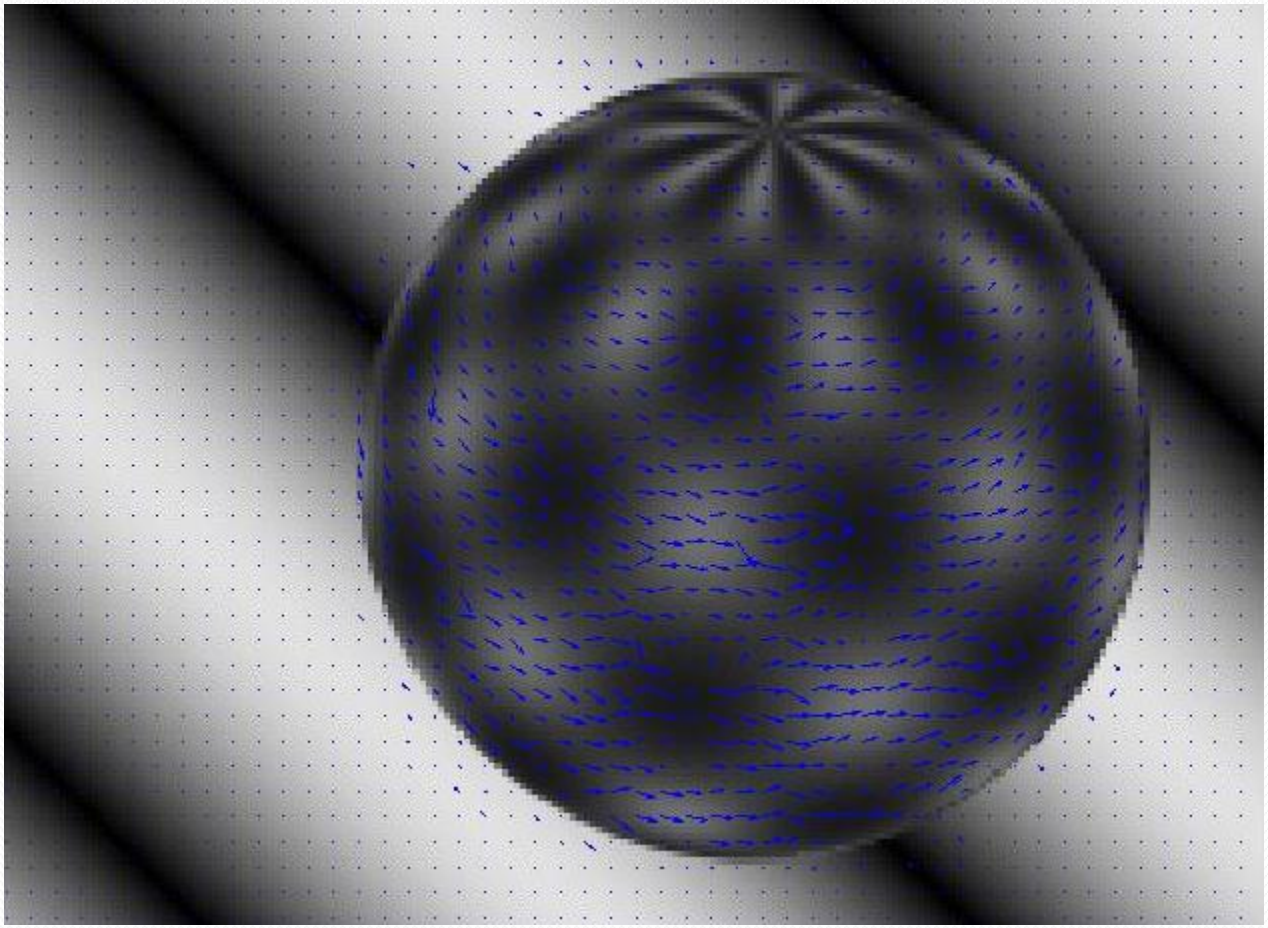
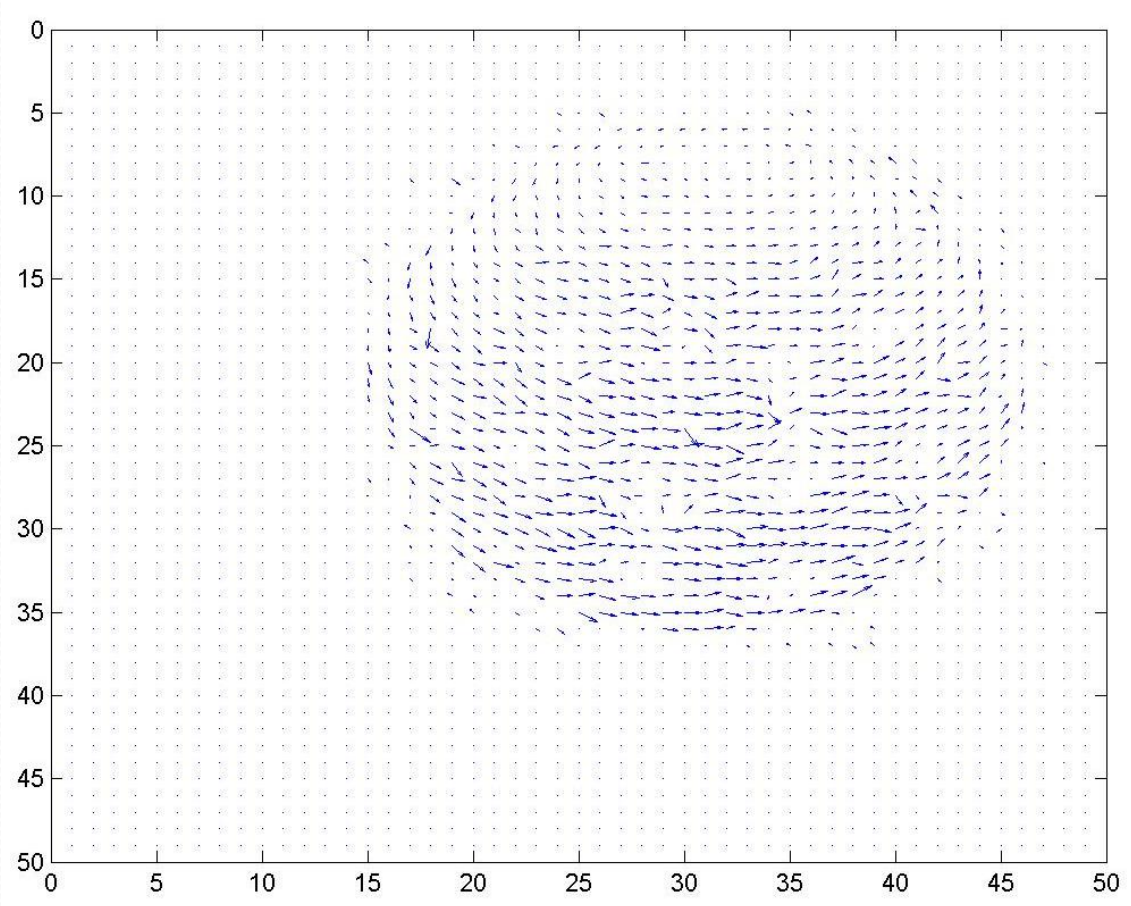
Week 1

Amy Ko
Amherst College

Lucas-Kanade Optical Flow



Window Size = 3



Implementation Ideas

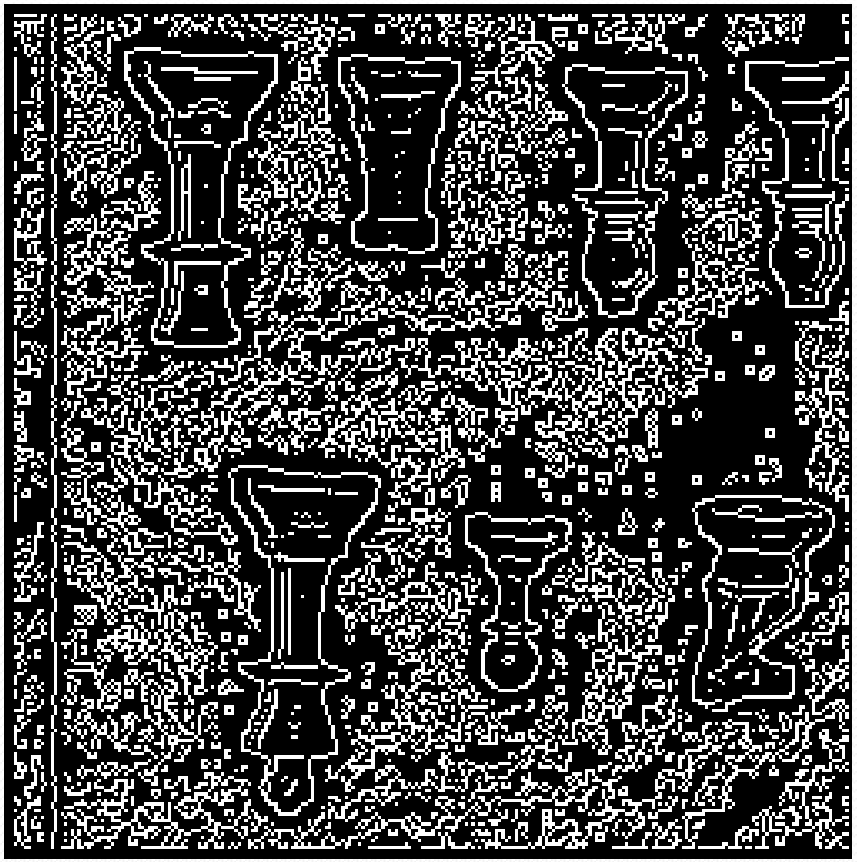
- Vary window size

  -Small window vs. Large window
- Weighted window?

  -maybe the center pixels should contribute more

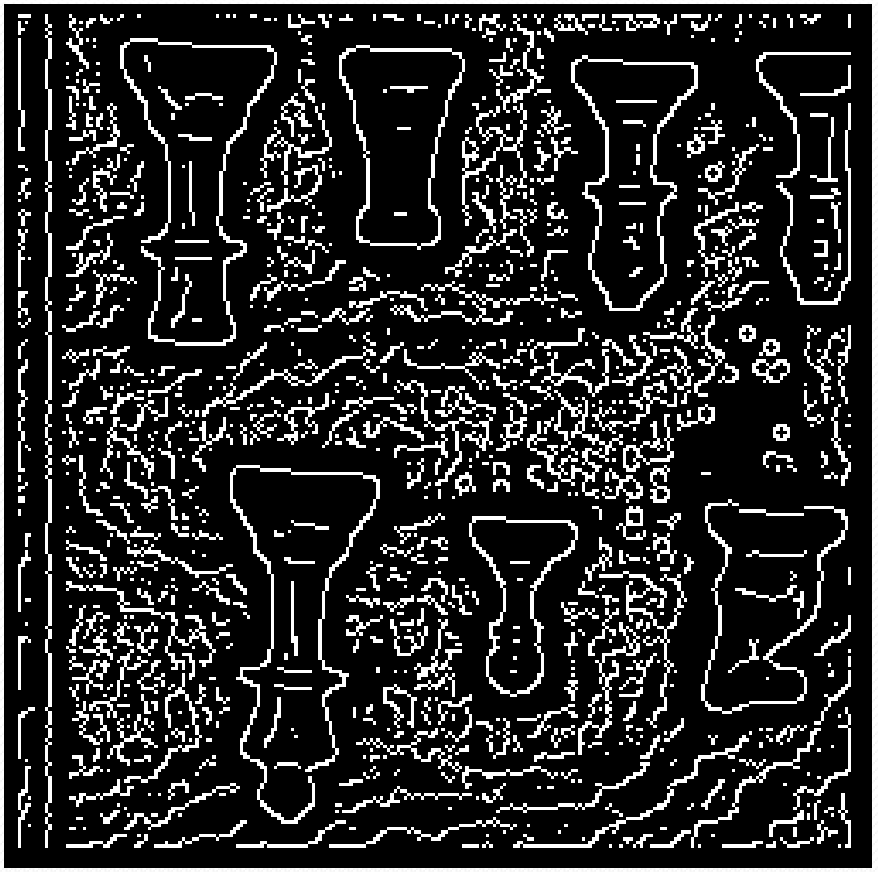
Canny Edge Detection: sigma =1





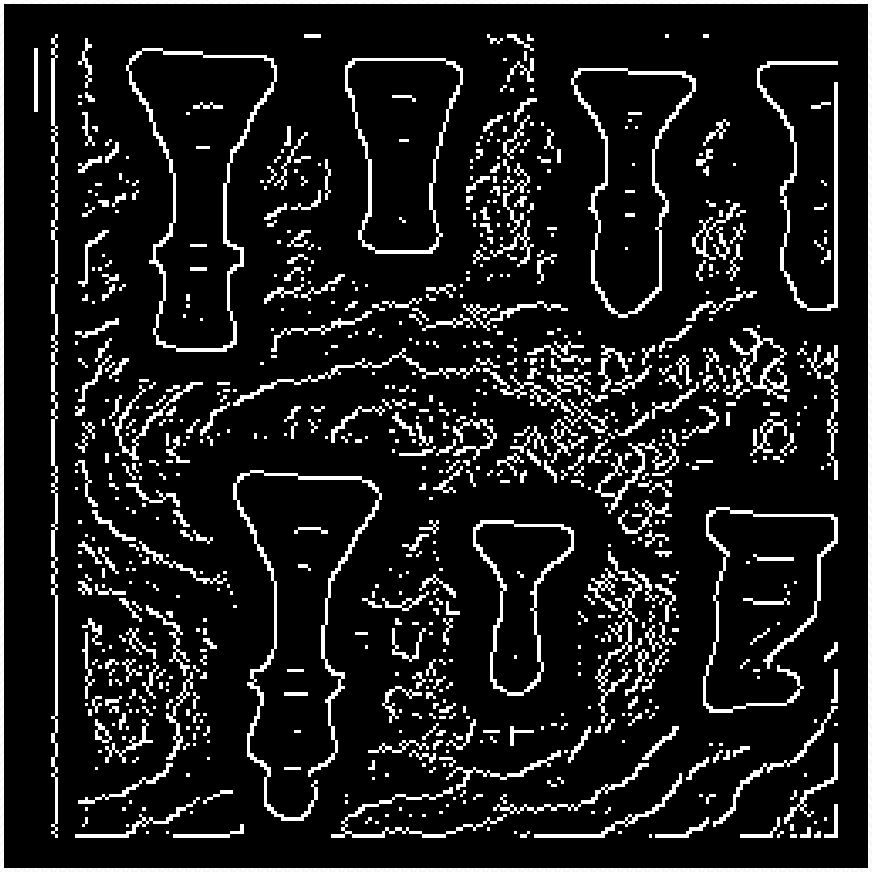
Sigma = 2



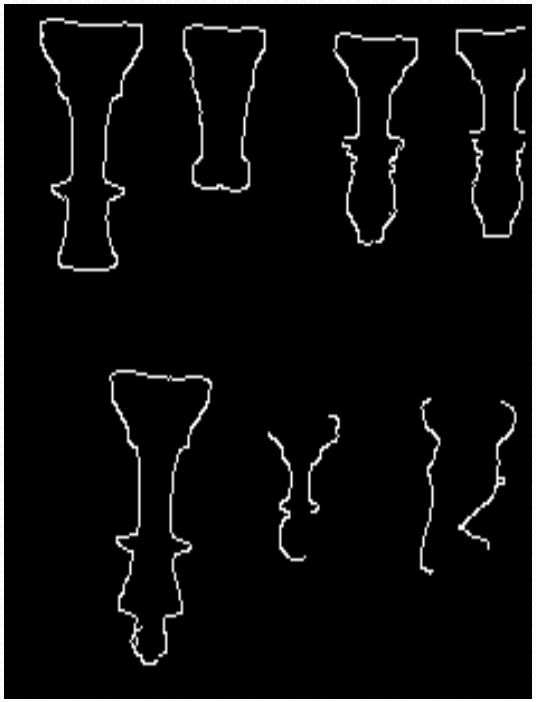


Sigma = 3

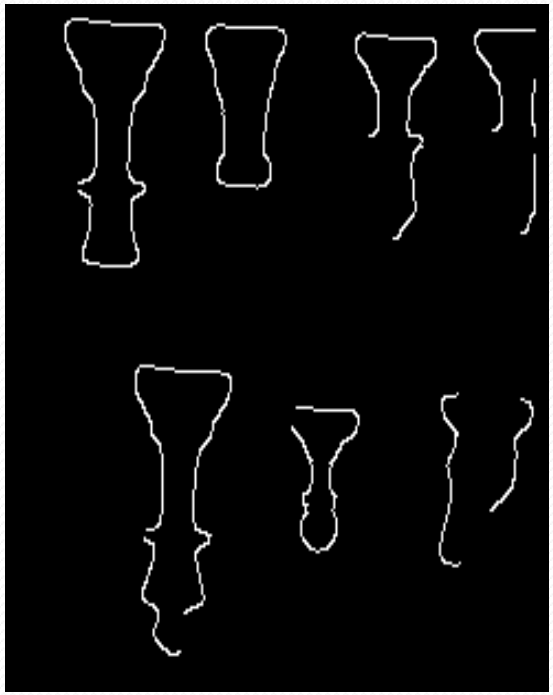




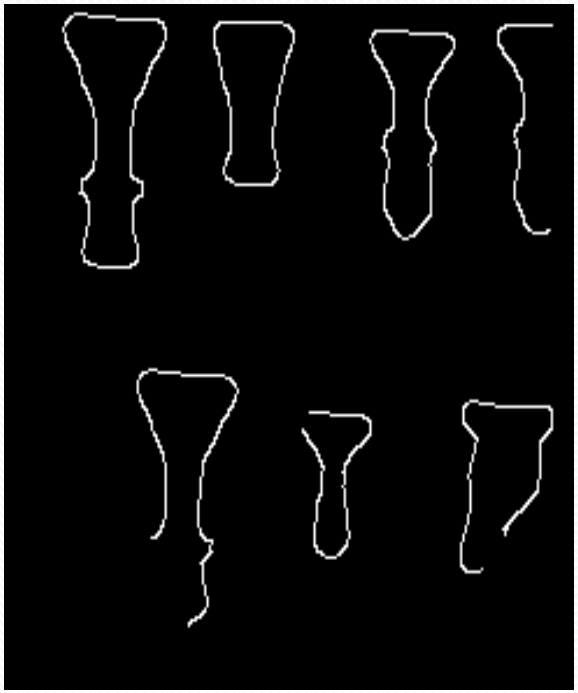
Increase sigma → Smoother edges



Sigma = 1



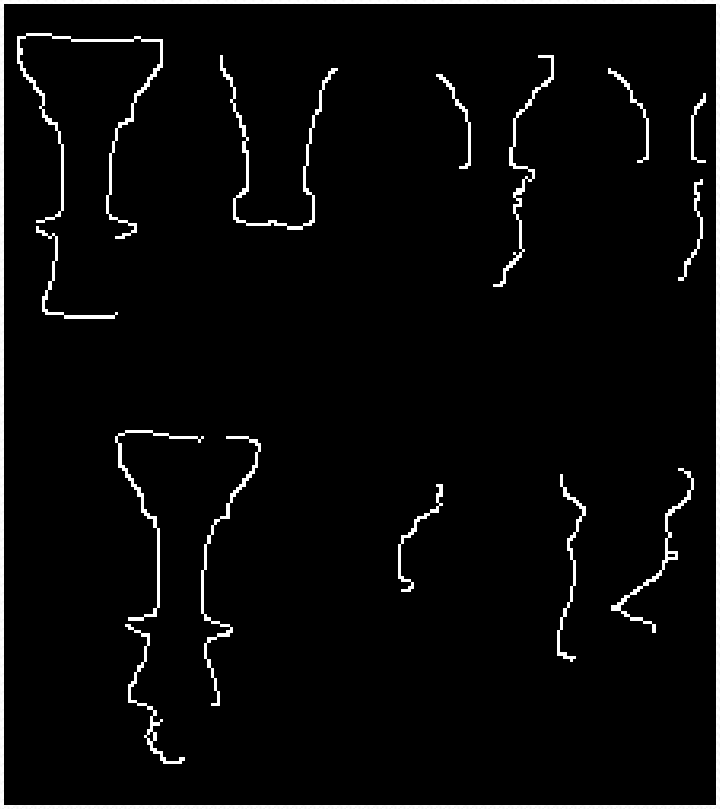
Sigma = 2



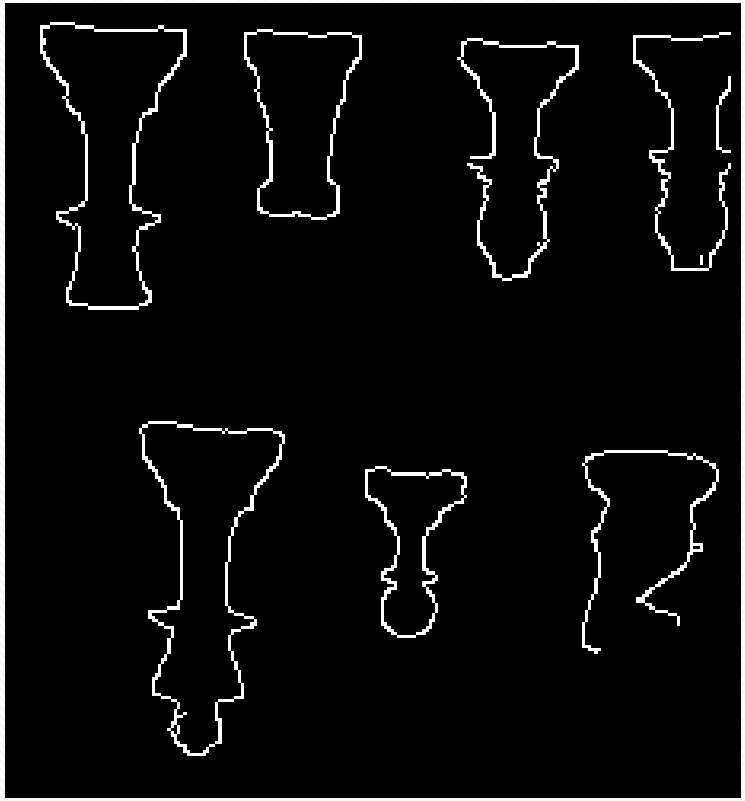
Sigma = 3

Threshold Variations

High = 230, Low = 50

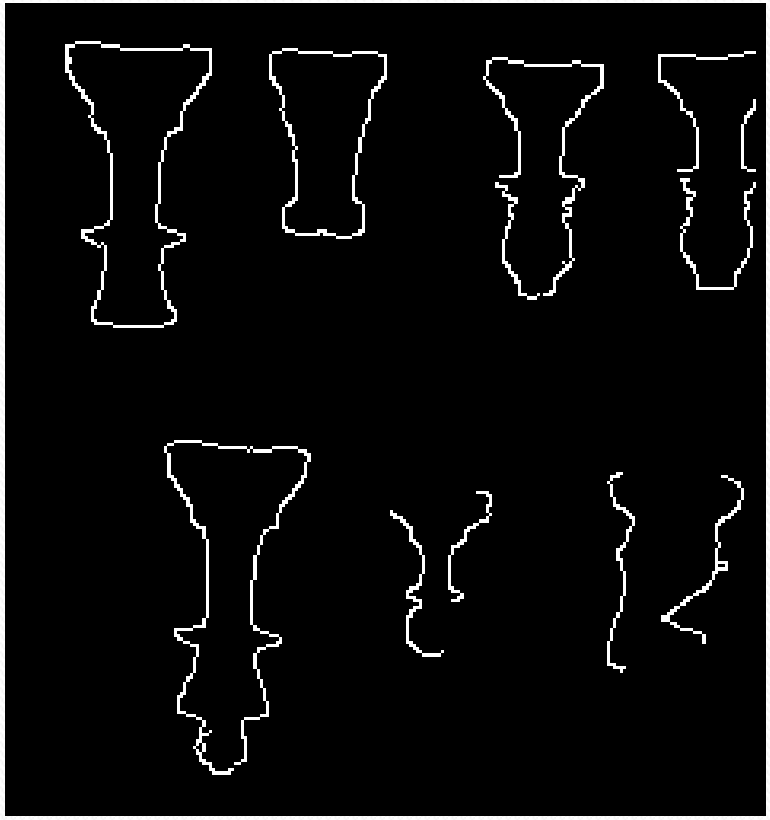


High = 100, Low = 50

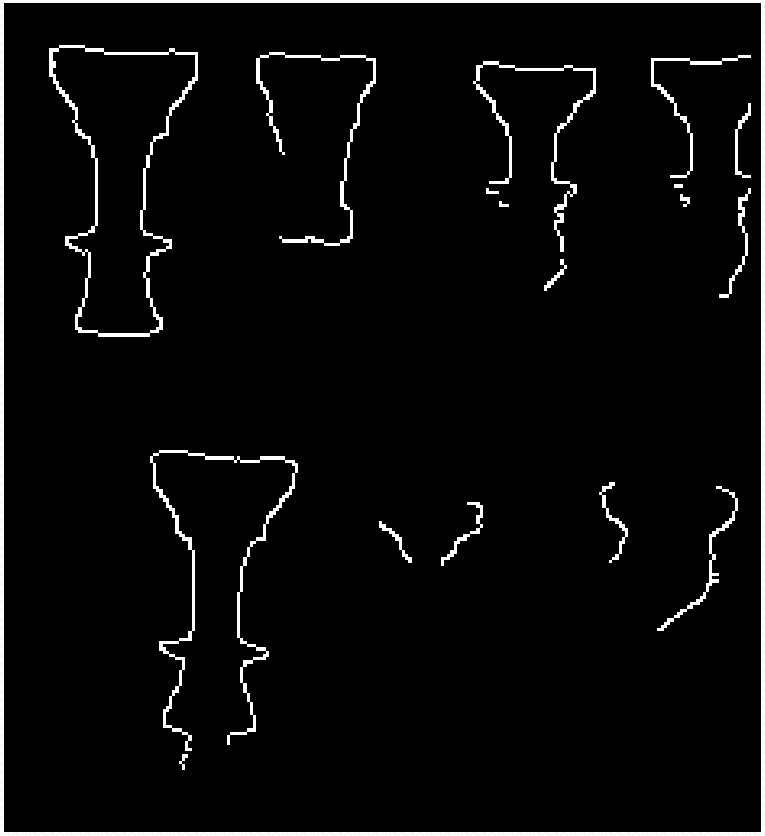


Threshold Variations

High=150, Low=50



High=150, Low=120



Where to go from here

- Review linear algebra
- Become more familiar with Matlab
- Look into potential projects