**Data Collection**

1. Arduino samples at ~1000 Hz
   1. sliding window w/overlap
   2. try window size of 0.5 sec and small overlap (<.1 sec)
   3. collecting ax,ay,az,gx,gy,gz
2. calculate features: avg angular velocity, avg mean shifted acceleration, distribution of power/frequency between 0-Hz in 8 bins and prints to Serial
3. Processing sketch writes to file in LibSVM desired format

**Spotting Stage**

1. LibSVM: <https://www.youtube.com/watch?v=gePWtNAQcK8>
   1. set gamma and C with the svm-train options from the README
   2. SVM w/ RBF: gamma = 8, C = 32768
   3. Remember to scale first
2. Arduino\_SVM: run processing sketch and enter in files
   1. Modify sketch\_svm after for C and gamma?