

1.)

a.) With a tie, take the higher speed. This maximizes public safety by ensuring we get more cars.

b.) Regarding public trust of police, use the lower speed. This way we get less speeders but also less non-reckless drivers.

c.) I am just dealing with speeds $<$ the threshold so that I can maximize public trust of police.

d.) See code

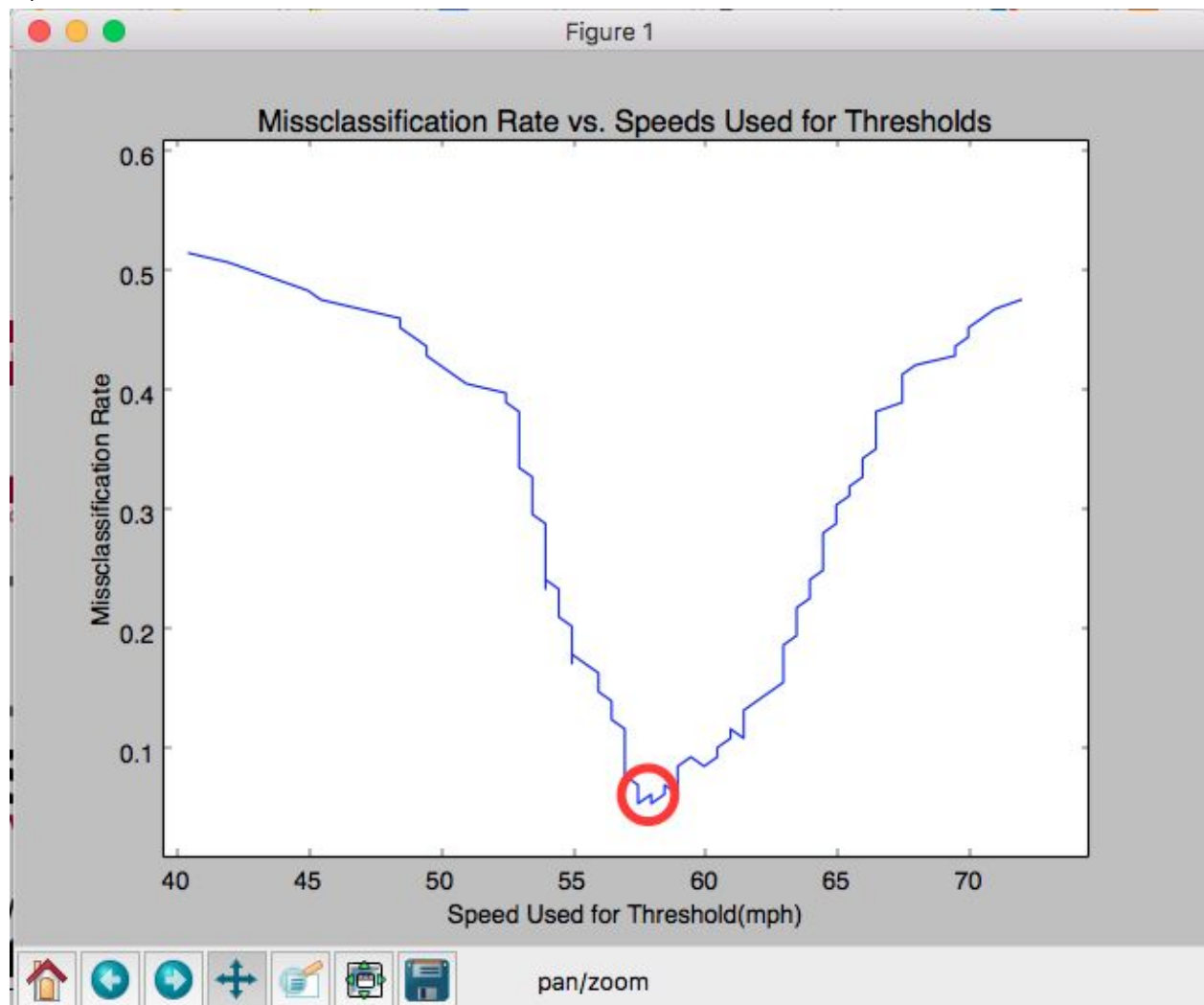
e.) The threshold value that results in the lowest misclassification rate is 58.0mph.

f.) This threshold value lets through 4 reckless drivers.

g.) This threshold value would result in 3 non-reckless drivers being pulled over.

h.) The value I got using Otsu's method was 58.59. This is very close to the 58.0 I got using this method.

2.)



3.)

