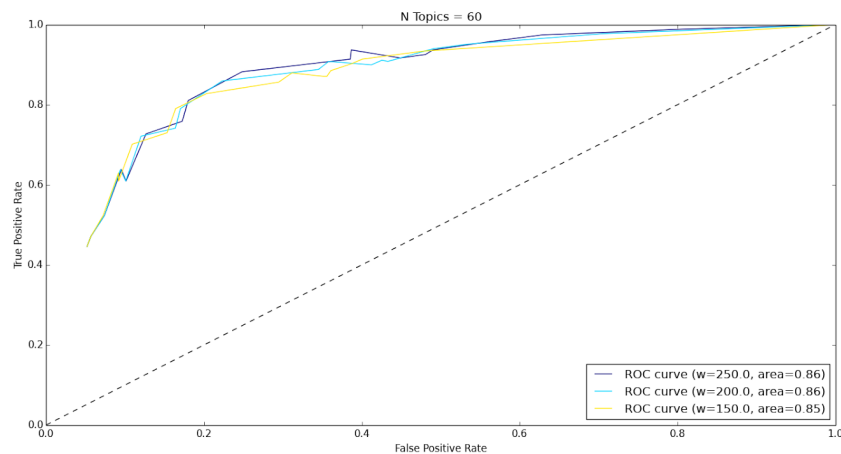# CS229: Meeting Notes Week 4
(originally sent via email)

Please find attached the results of the above experiment for 30, 50 and 60 LDA topics. I've only used malware weight = 150, 200 and 250 for these results, because we can see from the ROC-LDA40 plot above that lower values of this weight do not work well.

From the results it looks like 50 topics and a malware weight of 250 is a good enough configuration.

This is still on the reduced data provided for the CS340 homeworks. Now that I have the some good values of topics and malware weight, I will run a grid search using these on the full data set.

I've completed the experiment for only 14 (g,c) combinations for w=250, but I think the results are better than on the reduced data. Below are some of the results till now:

W=250, topics=50

c=0.03125 g=8.0	TPR=0.92 FPR=0.01
c=0.03125 g=2.0	TPR=0.93 FPR=0.03
c=0.03125 g=0.5	TPR=0.92 FPR=0.04
c=0.125 g=8.0	TPR=0.91 FPR=0.01
c=0.125 g=2.0	TPR=0.93 FPR=0.02
c=0.125 g=0.5	TPR=0.93 FPR=0.04
c=0.125 g=0.125	TPR=0.91 FPR=0.05

I've also attached the ROC plot for all the (g,c) values till now.