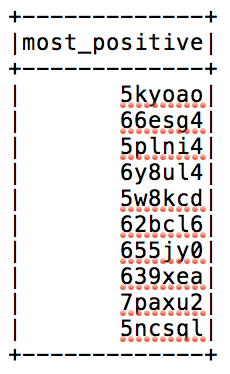
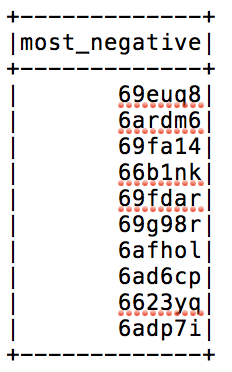
**1. Time Series Plot**



**2. Positive and Negative Sentiment Mapasted-image.tiffps**pasted-image.tiff

**3. Difference (Positive minus Negative) Map**pasted-image.tiff

**4. Most positive and most negative submissions (the lists contain the submission\_id’s)**

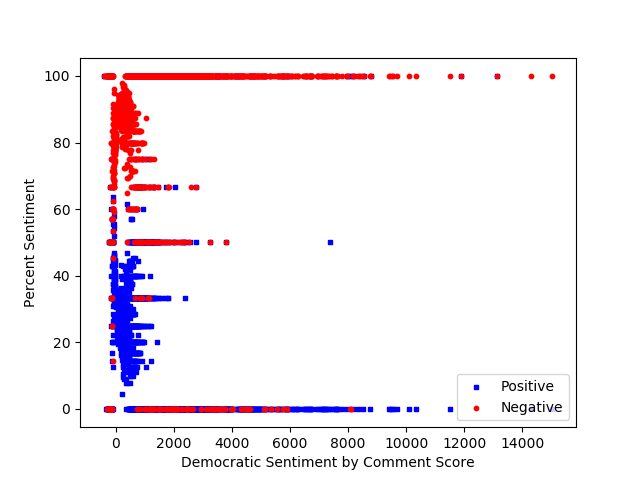
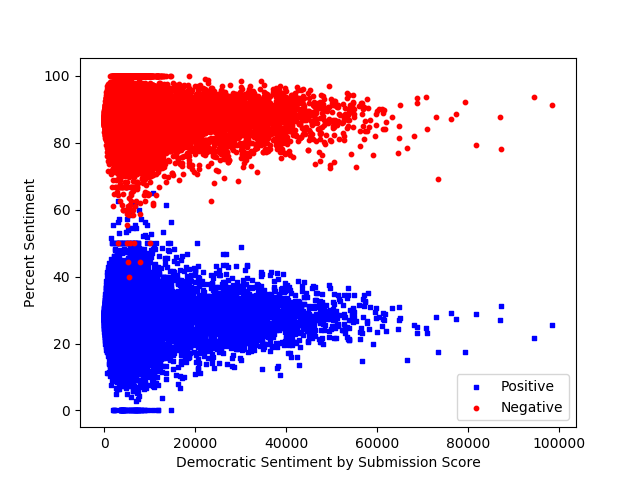
pasted-image.tiff

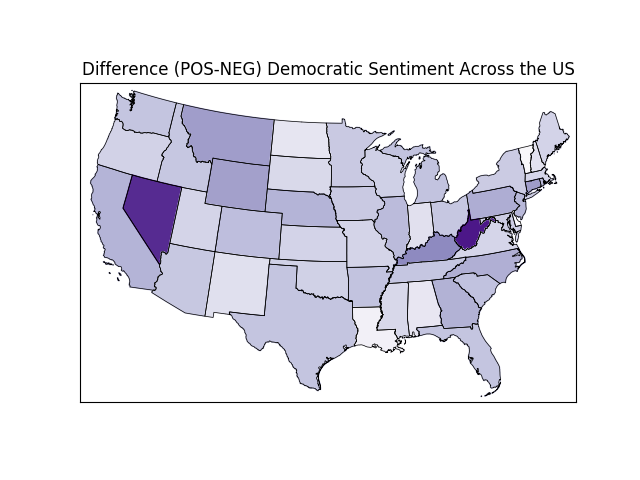
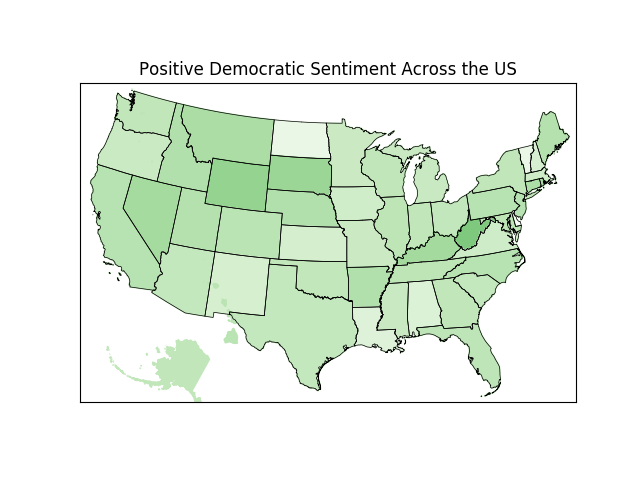
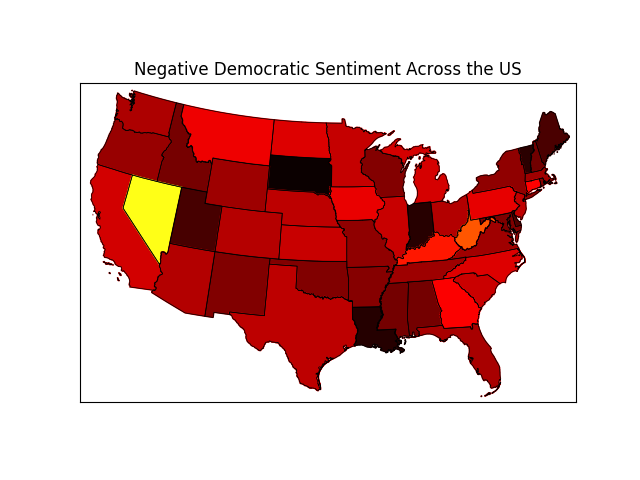
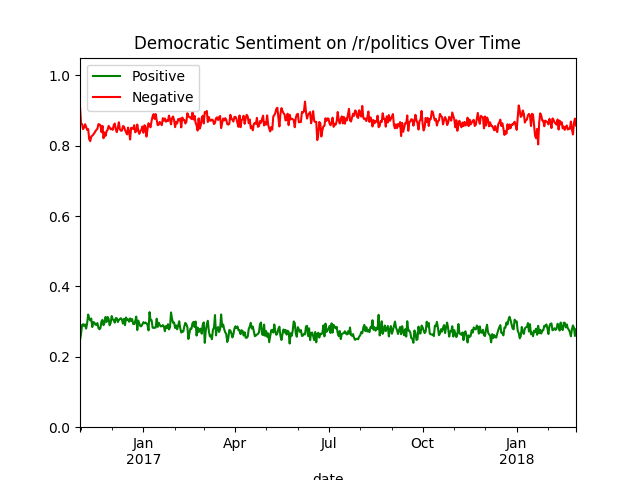
**5. Scatter Plots**

pasted-image.tiff

**6. Extra credit plots**

We created the same plots for the other 2 labels: democratic and GOP, in order to compare the sentiment to that expressed towards Trump.

Democratic:



7. ROC curve

8. Paragraph

We notice that /r/politics seems to have an exceedingly negative opinion of President Trump from before he was elected to months after he was inaugurated. There is not one state whose Reddit users express more positive than negative sentiment about Trump. It is Reddit after all. By our model, Arkansas has the most positive things to say about Trump, which isn’t surprising. Historically, Arkansas is as red a state as you can get, so our model seems to have gotten something right. On the other end of the spectrum, users from Delaware and Vermont, blue states, have the least positive sentiment in their Reddit comments. When we observe the sentiment towards the democratic party, the shades of quite a few of the states seem to invert. States that had more positive things to say about Trump don’t have the same positive attitude towards the democratic party and vice versa. Overall, Reddit seems to be a forum for people to voice negative thoughts. This probably isn’t because people are naturally pessimistic or angry, but rather because people like to challenge other people’s opinions and stories and the natural sentiment that our model gleans from that is negative.