November 30

Alex: Running the sentiment classifier on the LDA groups to establish a mean and SD of sentiment to see the degree to which emotion and sentiment is captured by each of the topics of varying sizes for each set of tweets. We will be establishing an LDA group score as part of the effort to build an outrage index; The group score will consist of the mean sentiment of the top 20 n-grams in a topic, taking into account the standard error of that value to capture our confidence in the measure (we will likely use this as a flag for any topics we are reasonably confident to be associated with negative sentiment). Performing manual validation of number of topics for each set of tweets to have a secondary source of information on what level of scale we should be grouping our data. Will be looking between unigrams, bigrams, and trigrams to gauge the cohesion of each during the weekend.

Rob: Having just finished running iterations of LDA to find the optimal number of topics for each of the climate, gun control, same-sex marriage, and combined datasets using unigrams, bigrams, and trigrams I will review each model's top 20 models to find the optimal topic model for each of the datasets (we are splitting this task). This review will involve reviewing the plots of the top 20 words for each topic for all models to find a version that contains the most coherence among topics in order to reduce the number of overlapping and repetitive topics, but still maintain a number of useful and informative topics. Then I will review the amount of outrage that is present in the topics by measuring the number of words in topics that are in the outrage dictionary provided and their associated weights. Knowing that we expect a good amount of variation in emotional responses we should expect to find a "reasonable" distribution of outrage topics and non-outrage topics. After determining the optimal model for each dataset we will apply the topics to each tweet to start building the features for our outrage index. In this light I will additionally be measuring the valence and arousal of each tweet using an established dictionary.