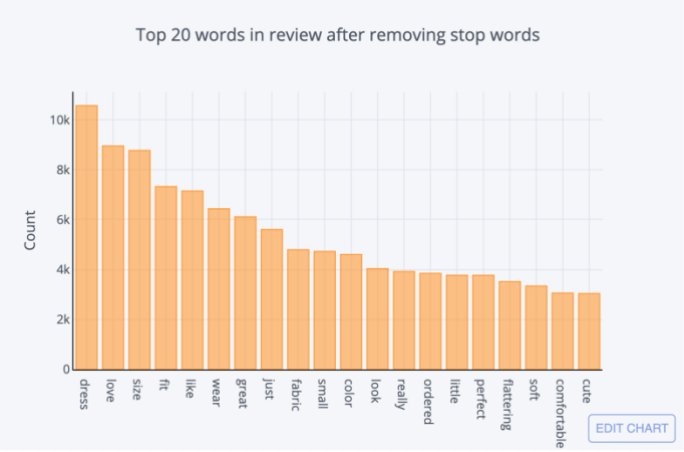
How to visualize and build connections between the text data and the case statistics?

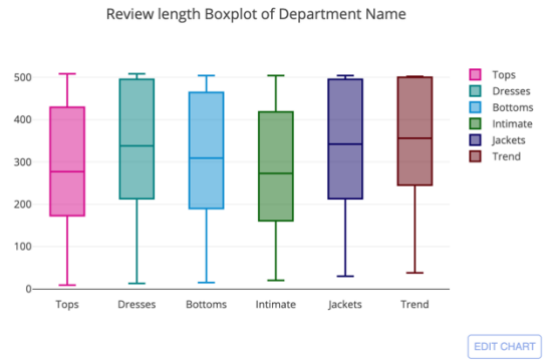
Possible References:

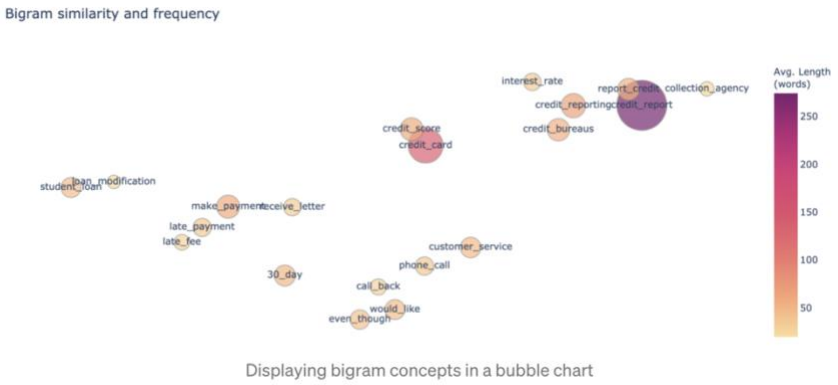
1. https://towardsdatascience.com/a-complete-exploratory-data-analysis-and-visualization-for-text-data-29fb1b96fb6a
2. https://kanoki.org/2019/03/17/text-data-visualization-in-python/
3. https://www.districtdatalabs.com/text-analytics-with-yellowbrick
4. https://medium.com/plotly/nlp-visualisations-for-clear-immediate-insights-into-text-data-and-outputs-9ebfab168d5b
5. https://medium.com/@melody.zapotoczny/a-quick-easy-guide-to-text-analysis-seaborn-4c1a20addba3
6. https://itnext.io/basics-of-text-analysis-visualization-1978de48af47
7. https://www.analyticsvidhya.com/blog/2020/04/beginners-guide-exploratory-data-analysis-text-data/
8. https://medium.com/district-data-labs/beyond-the-word-cloud-428e3c25b59c
9. https://www.pingshiuanchua.com/blog/post/keyword-network-analysis-with-python-and-gephi

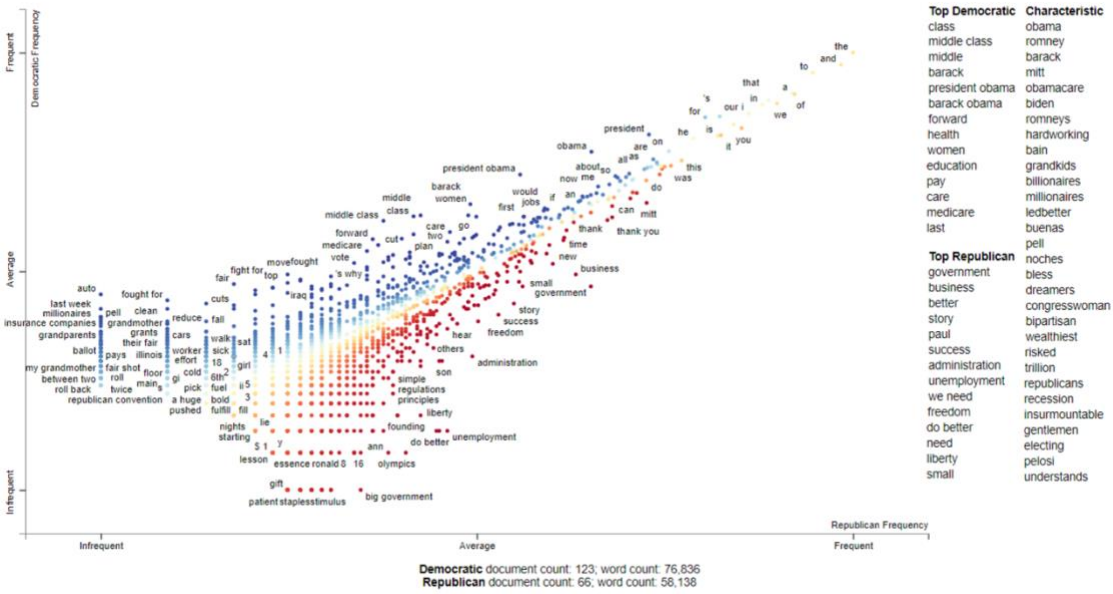
Possible charts:

1. We may want to visualize the overall pattern of the bills' keywords. (for the whole year)
2. We may want to visualize the frequency of words in each month. (Top 50/ Top 30)
3. We may want to see the changing pattern of keywords over months. (text network? Dynamic?)
4. We may want to find some relationships between the change of keywords and the number of cases in the U.S.

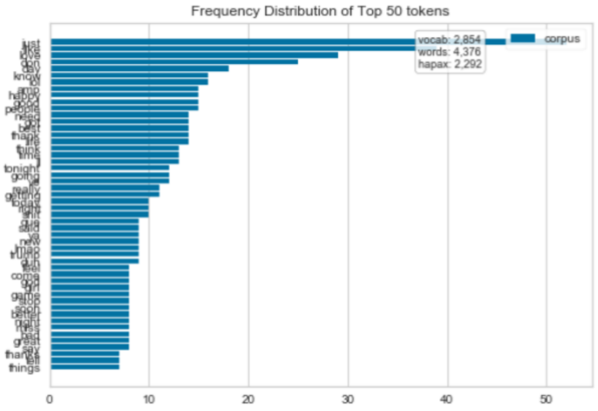


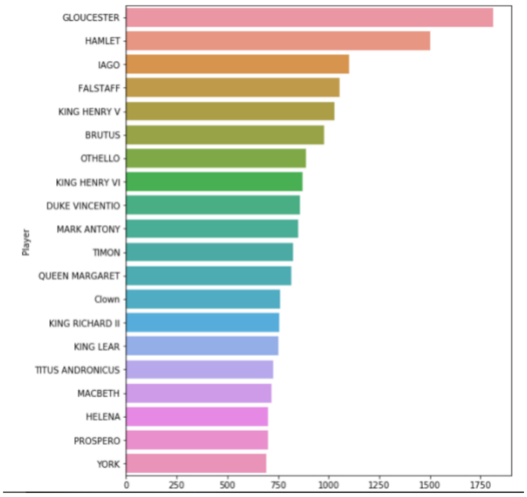


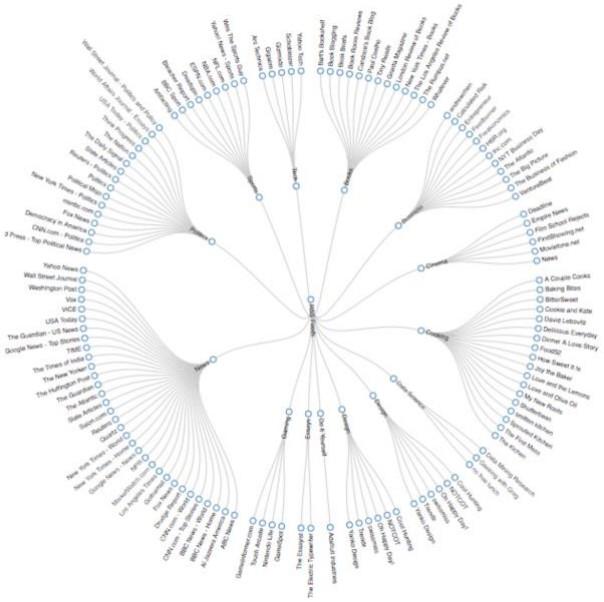




Democratic document count: 123; word count: 76,836
Republican document count: 66; word count: 58,138







Here is a network graph for the data that we'll analyse in this tutorial.