**Visualizations**

* Bar chart showing average contribution to both red and blue
* Pie charts showing proportions of direct contributions versus bundled (PAC) contributions, for both red and blue
* Bar chart showing biggest bundlers to both red and blue
* State choropleth map showing intensity of red and blue donations
* State map with pie-chart markers showing proportion of red and blue contributions for 10 most generous states
* Zip code choropleth map showing intensity of per-capita red and blue donations, or top/bottom zips showing same (would require joining [zip-code population data](https://www.kaggle.com/census/us-population-by-zip-code))
* Dual line chart or bar graph showing red and blue contributions over time, or animated bubble chart showing same
* Pie chart showing unemployed contributors versus employed contributors, for red and blue
* Top 10 occupations among red and blue contributors
* Employers with the largest number of employee contributors, for both red and blue
* Occupations with highest and lowest average contributions, for both red and blue
* Join [candidate spending data](https://www.fec.gov/data/browse-data/?tab=spending) and do graphs that correlate with contributions?

**Machine Learning**

* Combine red and blue contributions into one dataset
* Use size of contribution, occupation (need to encode job titles?), zip code, and other data as inputs and model their effects on candidate choice (output)
* Gender isn’t included in FEC data, but maybe we join it with [sets of the most common male/female first names](https://data.world/axtscz/english-first-names) and assign a code for as many contributors as we can
* Select top 3-5 features
* Build Javascript page that takes the above features as inputs, runs it through the saved model, and displays a prediction as to red or blue (“75% likely to donate to Biden,” for example)
* Need to chat with Bob to make sure this is possible

**Things I Can Do**

* Data cleaning
* Tableau
* Javascript
* Maybe a little machine learning