

### **Project 3 Proposal: Visualization**

**Group 1:** Ben Stork, Leah Brady, Cristina Sheridan, Jermaine Coleman

We have all seen visualizations of the recent presidential election but our group wanted to look at the available data and see if there was any ability to predict future voting trends.

#### **Questions:**

- 1) What was the breakdown of mail in voting compared to in person voting.
- 2) How have counties changed their presidential voting from the 2016 election to the 2020 election cycle.
- 3) What was the increase in total voters for each county?

#### **Visuals:**

- Clicker/column
  - Dems vs Repub 2016 vs 2020
- Pie charts for breakdowns
- Color coded Maps for voting by county

#### **Resources:**

2016 Election Data

MIT Election Data + Science Lab

<https://github.com/MEDSL/county-returns>

2020 Election Data

[https://www.kaggle.com/unanimad/us-election-2020?select=president\\_county\\_candidate.csv](https://www.kaggle.com/unanimad/us-election-2020?select=president_county_candidate.csv)

US County Boundary Coordinates

[https://public.opendatasoft.com/explore/dataset/us-county-boundaries/table/?disjunctive.statefp&disjunctive.countyfp&disjunctive.name&disjunctive.namesad&disjunctive.stusab&disjunctive.state\\_name](https://public.opendatasoft.com/explore/dataset/us-county-boundaries/table/?disjunctive.statefp&disjunctive.countyfp&disjunctive.name&disjunctive.namesad&disjunctive.stusab&disjunctive.state_name)

#### **Github Page:**

[https://github.com/Storkopolus/Project2\\_Visualizations](https://github.com/Storkopolus/Project2_Visualizations)

Team Breakdown:

Ben: - Found data sources

Imported Data Sets (made merge-clean.ipynb)

Cleaned data (made merge-clean.ipynb)

Hosted Github and merged any files when requested

Completed coding for API (made app.py)

Set Up Format and Extraneous Slides for Presentation

Jermaine: -Created index.html w/ Javascript components  
Linked web coding to Flask route  
Created web sketch  
Added visual data to webpage

Leah: -Created ERD & SQL schema  
Created data visualizations with Plotly and D3  
Assisted with front end design, specifically the team page  
Assisted in troubleshooting Flask app

Cristina: -AWS,  
Added final code to merge-clean.ipynb to upload files to Postgres AWS server  
Postgres (Set up postgres server on AWS)  
Leaflet Coding to have Counties outlined with GeoJson, zoom in and display pop-up  
when clicking on a county

