




# Election 2020

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# Introduction

## Core Message:

Our project will visualize current voter activity and showcase Republican/Democratic strongholds.

We plan to further use these patterns to formulate a strategy for each candidate to win the election.

## Topic: 2020 Presidential Election

### Goal:

- Create interactive US map to showcase data from straw polls
- Showcase the political status of each state
- Explore Javascript libraries and Flask to create webpages to showcase our data.



# Implementation



# Data Munging

Extract Datasets  
(fivethirtyeight.com)

Created API Routes  
Used Json Datasets for charts



# Coding Approach

- SQLAlchemy
  - Connection was made, but classes returned empty lists
  - Assigning primary keys fixed this issue
- Flask - needed distinct routes in order for Flask to run properly and display the desired data.
  - Some issues with Flask refusing to run on VS Code
  - ran it through Git Bash
- Leaflet.js Unable to read Choropleth.js file from GitHub
  - Multiple downloads of choropleth.js file
- No Map displayed with original data set
  - Download a different dataset containing a variety of coordinates to depict exactly where the states were located.



# Coding Approach cont'd

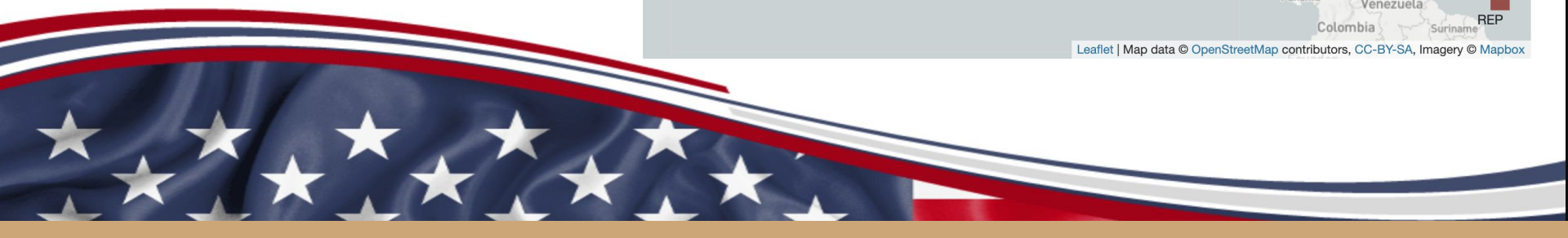
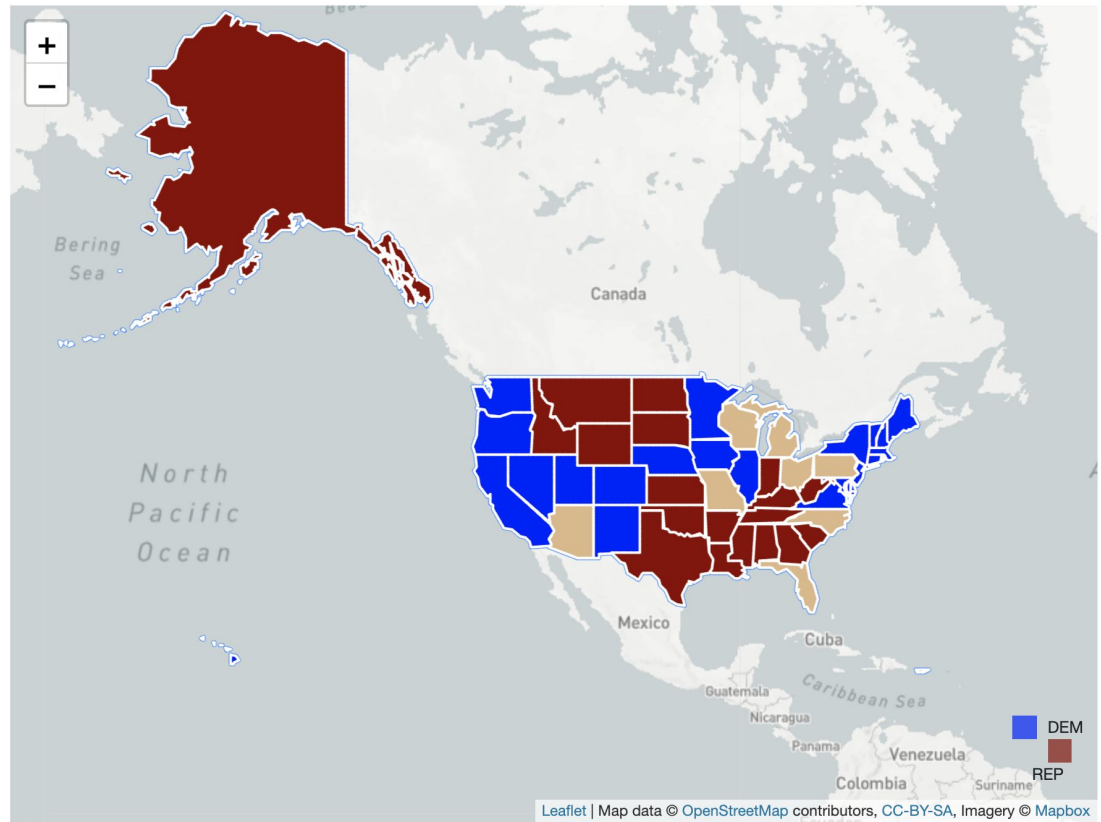
- State color gradient not changing based on the poll data value
  - Merging two datasets address the State map color gradient issues
- JQuery - explored new Javascript library to add markers and links the data page to each state
- D3.js - unable to replace the state image on the data page
  - Found that we had to clear `<span>` before running the function to receive the new state image.
- Plotly.js- to generate bar chart for the poll percentage for the democratic and republican candidates



# Final Visualizations



# Interactive Map





# Data Page

## Election Poll 2020

Strategy Data



## Delaware

States:

Delaware

### State Information

id: Delaware

Electoral Votes: 3

Registered Voters: 472000

Population: 982895

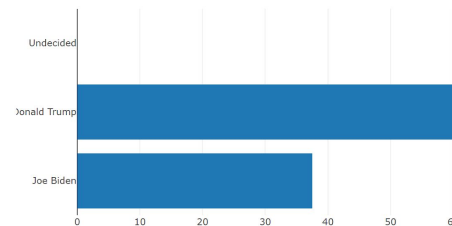
Percentage of Population: 48.02%

Party plurality: Democratic

2016 Results: Democrat: Hillary Clinton

2012 Results: Democrat: Barack Obama

Election 2020 Poll Data



# Live Demo

<https://jdshah06.github.io/Web-Dev-Project/>  
<http://127.0.0.1:5500/index.html>



# Questions

