

Project #2

Group #15

Members:

Michael Hills
Nathaniel Witte
Stephanie Core
Simran Kaur

Topic: Historical Election Results by State and County from 2000 - 2016 (5 Elections)

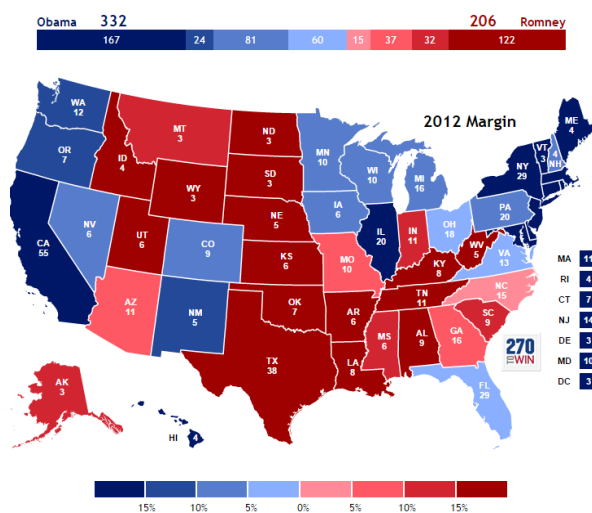
Overview:

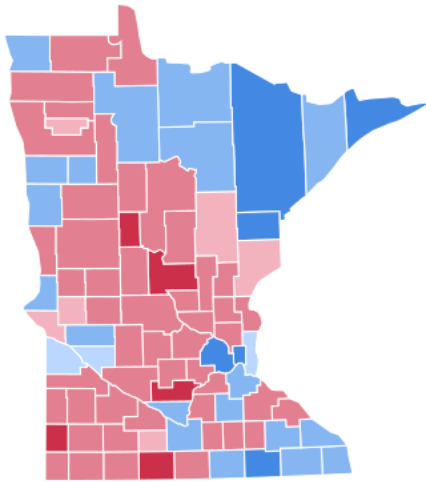
- Use ETL techniques with python in a jupyter notebook to trim datasets and export to PostgreSQL.
- Design website layout with HTML/CSS/JavaScript.
- Create Flask server and have at least one route to SQL database.
- Use D3, Plotly, Pandas, and one additional Javascript library to visualize data in at least 3 different ways (i.e. dropdown menus for years, political party affiliation, choropleths, heatmaps).
- Use leaflet to visualize election data by state .
- Explore using heatmaps using leaflet plugin.

Dataset Link:

<https://dataverse.harvard.edu/dataset.xhtml?persistentId=doi:10.7910/DVN/VOQCHQ>
<http://www.electproject.org/home/voter-turnout/voter-turnout-data>

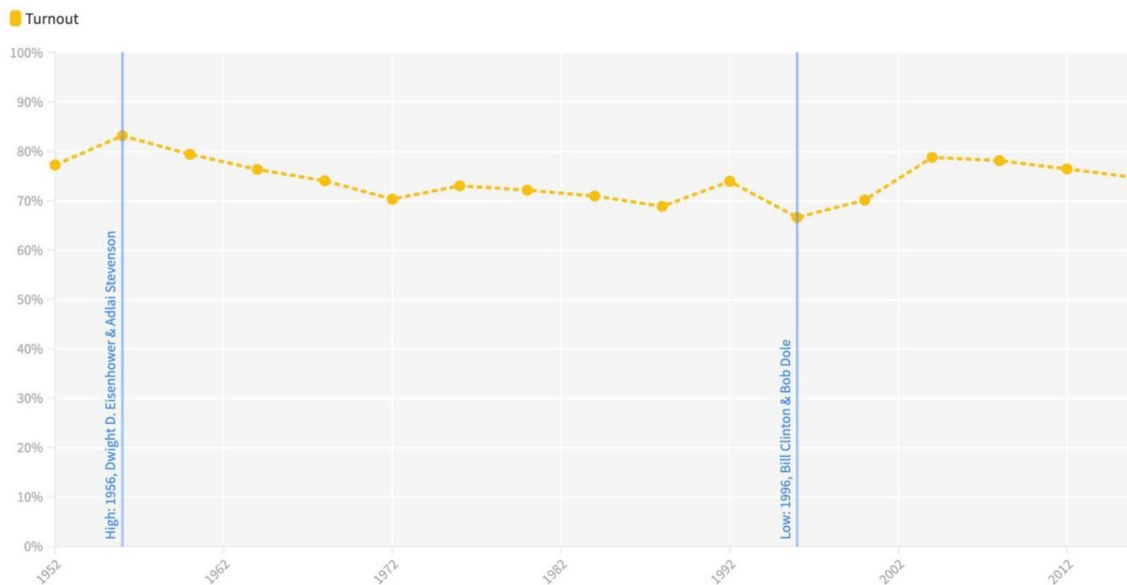
Screenshots:





Minnesota's voter turnout peaked in 1956

This chart shows turnout for presidential elections since 1952. More than 80% of Minnesota voters turned out in 1956. Last year, turnout was nearly 75%. Hover or tap on a point for details.



Source: Minnesota Secretary of State • Chart: Rilyn Eischens, Minnesota Reformer

Final Design Sketch:

We are hoping to create similar plots to the above chart, with options to change the year of the election. After clicking on a state in the map, they can drill down into that state's voting level by county and historical voting turnout by frequency and party affiliation.

We will also do a paragraph summarizing the election results, i.e. saying "Candidate XXX beat Candidate YYY in the electoral college by a score of AAA - BBB or by %."

Link to GitHub Repo: <https://github.com/Steff-C/Project-2>

Requirements: Group Number, Group Members, Topic and Overview, link to datasets, screenshots of any inspiring visuals, sketch of final design, link to the shared GitHub repo. Keep it simple, but make it complete.

Assignments:

Find additional data source by age - stephane

Flask server: Nate

Making the website: Stephanie - HTML, Javascript & CSS

Visualizations:

- **Leaflet - Nate**
- **Plotly - Mike**
- **Plotly - Mike**
- **GeoJSON -Nate**
- **Research technology to graph text summarization - Stephanie**
- **Statewide Choropleth based on vote amount -TBD**