Project Description

01 Your task is to **tell a story** with data visualizations.

02 Focus on providing users an **interactive way** to explore data themselves.

03 Prepare a **10-minute presentation** that lays out your theme, coding approach, data wrangling techniques, and final visualization.

04 You may choose a project of any theme, but we encourage you to **think broadly.**

05 You will have **plenty of time in class** to work with your group, but expect to put in **hours outside of class** as well.

Specific Requirements

1. Your visualization must include a Python Flask-powered API, HTML/CSS, JavaScript, and at least one database (SQL, MongoDB, SQLite, etc.).

2. Your project should fall into one of the below four tracks:

   o A combination of web scraping and Leaflet or Plotly

   o A dashboard page with multiple charts that update from the same data

   o A "thick" server that performs multiple manipulations on data in a database prior to visualization **(must be approved)**

3. Your project should include at least one JS library that we did not cover.

4. Your project must be powered by a dataset with at least 100 records.

5. Your project must include some level of user-driven interaction, such as menus, dropdowns, and textboxes.

6. If possible, your final visualization should include at least three views.

Schedule

Project Schedule

Day 1 (Next Class)
Start brainstorming topics with your group and researching potential datasets. Your focus be:
- Selecting a topic
- Finding a dataset
- Finding inspiration
- "Sketching" your ideal visuals
- Creating a 1-page proposal

Day 2
You will need to create a one-page proposal that includes:
- A brief articulation of your chosen topic and rationale
- A link to your dataset(s) and a screenshot of the metadata, if it exists.
- Three or four screenshots of relevant, "inspiring" visualizations that show your creative ideas
- A sketch of the final design
- A link to the primary GitHub repository where you'll be housing your work

Day 3
Project Work

Final Thoughts

01

Project week is a great time to tie up loose ends, both with your group and on your own.

02

If there are topics you'd like to review, send me and the TAs a message. We're happy to do (recorded) extra review sessions for small groups during these weeks.

03

Good luck and have fun!