Project Requirements

Project Description

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

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

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

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

05 You will have **ample 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:
   - A custom "creative" D3.js project (i.e., a nonstandard graph or chart)
   - A combination of web scraping and Leaflet or Plotly
   - A dashboard page with multiple charts that update from the same data
   - A "thick" server that performs multiple manipulations on data in a database prior to visualization

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

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

5. Your project must include some level of user-driven interaction (e.g., menus, dropdowns, textboxes).

6. Your final visualization should ideally include at least three views.

Schedule

Weekly Schedule

(3/25) Week 17 - Day 1:
You will need to create a 1-page proposal that includes:
- A brief articulation of your chosen topic and rationale
- A link to your data set(s) and a screenshot of the metadata if it exists.
- 3 or 4 screenshots of relevant, "inspiring" visualizations that frame your creative fodder
- A sketch of the final design
- A link to the primary GitHub repository you'll be housing your work in

(3/27) Week 17 - Day 2 (Required):
Project Work
- Project Proposals are Due by 1PM!

(3/30) Week 17 - Day 3 (Optional In Class or Outside of Class)
- If your team chooses to meet outside of class time, then as a team you can choose to not attend this class. Remember to still mark yourself as present! And if you need help with your project, please show up to class to get help.

Weekly Schedule

(4/1, 4/3, 4/6) **Week 18 - (Optional In-Class or Outside of Class)**
- If your team chooses to meet outside of class time, then as a team you can choose to not attend this class. Remember to still mark yourself as present! And if you need help with your project, please show up to class to get help.

(4/8) **Week 19 - Day 1 (Required):**
- We will be going over how to deploy an app to Heroku as an option
- At this point we expect most of your project to be complete

(4/10) **Week 19 - Day 2 (Required):**
- We would like to see team's practicing their presentation during this time to make sure everyone is prepared for presentation day. There should be little to no more work getting done on the project aside from small/minor last minute adjustments.

(4/13) **Week 19- Day 3 (Required):**
PROJECT PRESENTATIONS
- Limited to 10 minutes for each team

Questions?

Project 2
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Kickstart