### **Project Description**

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

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

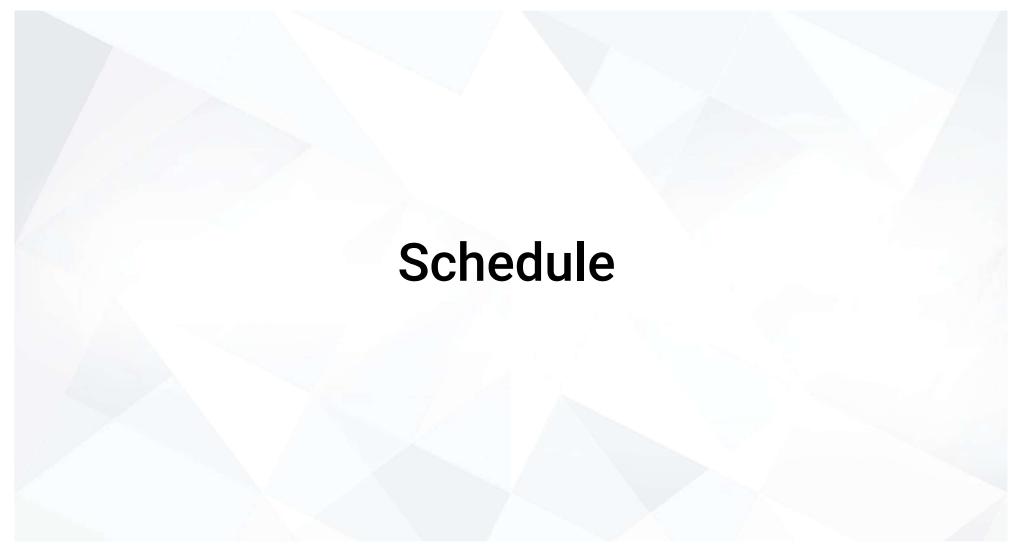
Prepare a **10-minute presentation** that lays out your theme, coding approach, data wrangling techniques, and final visualization.

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

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:
  - 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 (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.



# **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!