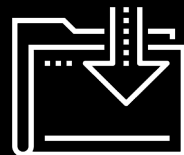




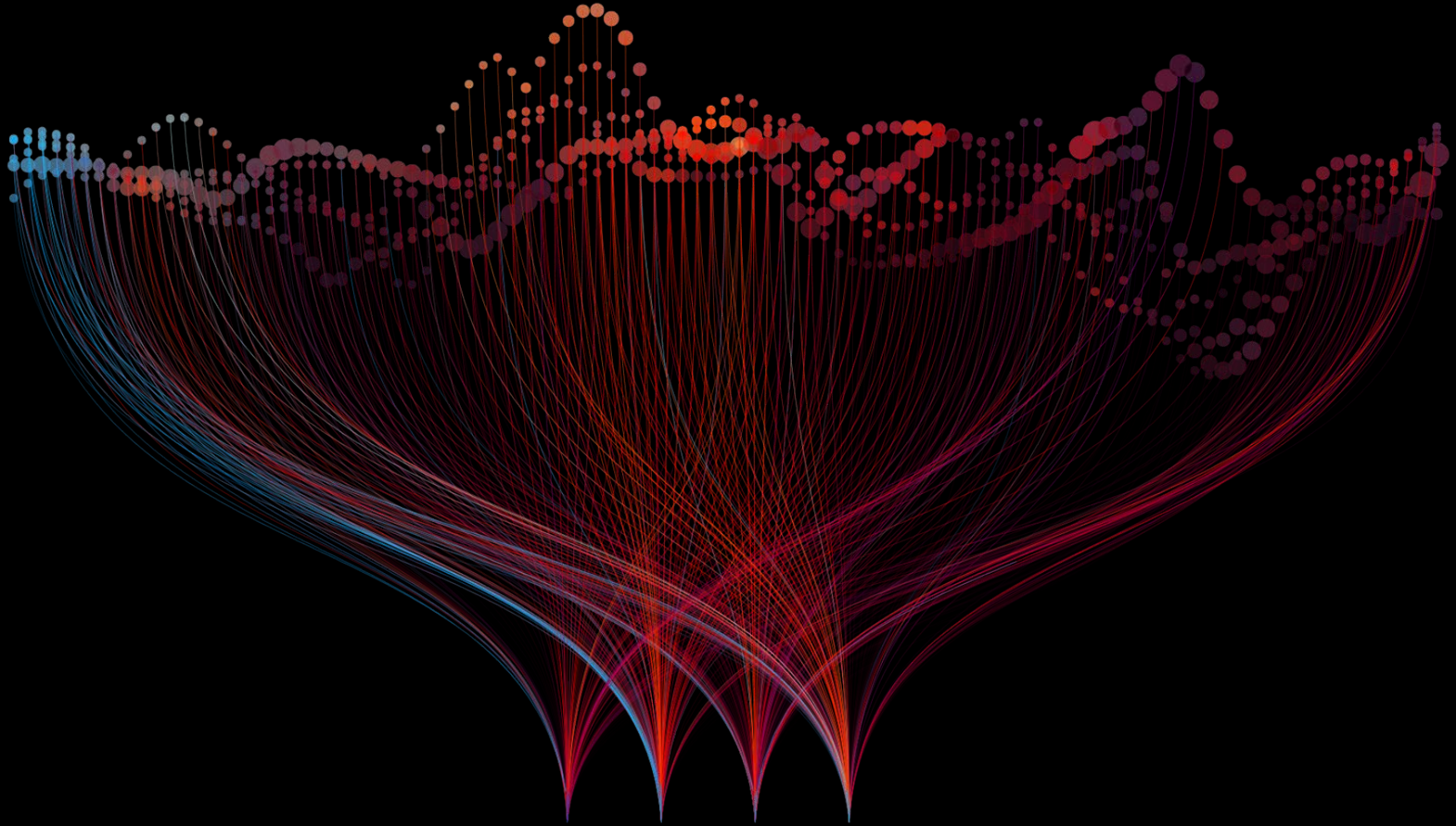
Project #2: Visualize Me, Captain!

Data Boot Camp
Lesson 18.1



Your Task

Tell a Story with Data



What?



Project Requirements

Project Description

01

Your task is to **tell a story** through 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 RESTful API, HTML/CSS, JavaScript, and at least one database (SQL, MongoDB, SQLite, etc.).
2. Your project should fall into one of the below three tracks:
 - A combination of web scraping and Leaflet or Plotly
 - A dashboard page with multiple charts that update from the same data
 - Database and web site integration through Flask where data manipulations are done using Python prior to visualization
3. Your project should include at least one JS library that we did not cover.
4. Your project should contain at least one map or dynamic, filtered visualization.
5. Your project must be powered by a data set with at least 500 records.
6. Your project must include some level of user-driven interaction (e.g., menus, dropdowns, textboxes).
7. Your final visualization should ideally include at least three views.
8. Your project must be connected to a database in the cloud (for example, on AWS).
9. Your project must be deployed to Heroku and should be fully functional on any machine at any location.

Schedule

Weekly Schedule

Day 1 (*Sat, 7/25*):

By the end of Saturday, you will need to start brainstorming topics with your group and researching potential data sets. Your focus should center around:

- Selecting a topic
- Finding a data set
- Finding inspiration
- “Sketching” your ideal visuals

Day 2 (*Mon, 7/27*):

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

Day 3 – 5:

(*Wed, 7/29; Sat, 8/1; Mon, 8/3*)

Project Work

Day 6:

(*Wed, 8/5*)

Project Presentations!

Day 7:

(*Sat, 8/8*)

Project Presentations!

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, shoot me and the TAs a message.

03

Good luck and have fun!



Questions?