



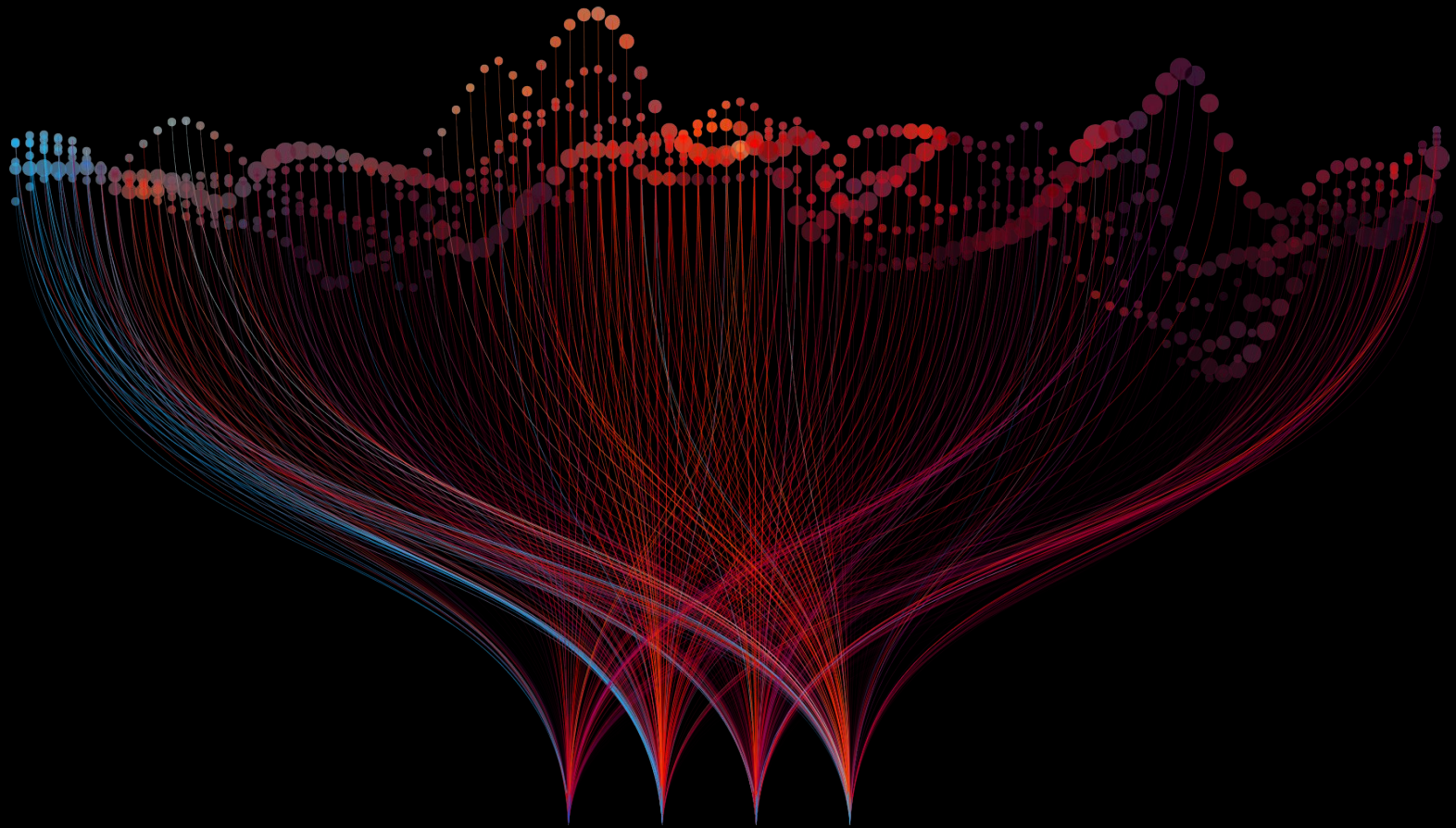
Project #2: Visualize Me, Captain!

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, etc.).
2. Your project should contains the following:
 - A dashboard page with multiple charts and tables that update from your data source (at least 4).(think Plotly and Leaflet)
 - A “thick” server that performs multiple manipulations on data in a database prior to visualization (think CRUD) or a “light” server in combination with web-scraping
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 300 records (the more the better). However, be wary of Heroku’s limitations.s
5. Your project must include some level of user-driven interaction (e.g., menus, dropdowns, textboxes).
6. Your project must be deployed to Heroku

Schedule

Weekly Schedule

Day 1 (Today):

Between now and Monday, 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
- Creating a 1-page proposal submitted by Monday 06/22/2020
 - 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
 - Doodles are acceptable
 - A sketch of the final design
 - A link to the primary GitHub repository you’ll be housing your work in

Day 2 (06/22/2020):

Go over Heroku deployment

- Understand how to deploy a Flask app to Heroku
- Understand how to connect to a remote database through a Flask app and through PgAdmin/Mongo Compass

Weekly Schedule

Day 3 (06/24/2020):
Project Work

Day 4 (06/27/2020):
Project Work

Day 5 (06/29/2020):
Project Work

Day 6 (07/01/2020):
Project Work

Day 7 (07/04/2020):
Fire Work

Day 8 (07/06/2020):
Project Work/Presentation Preparation

Day 9 (07/08/2020):
Project Work/Presentation Preparation

Day 10 (07/11/2020):
Project Presentation and Project Submission

- **Link to Github**
- **Link to Heroku**

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. We're happy to do (recorded) extra review sessions for small groups during these weeks.

03

Good luck and have fun!



Questions?