

Problem Set 4

Prepare a write-up that includes your solutions to the following questions from the course exercise sheet. Make sure to include all of your code and clearly specify where each new problem begins. For problems that require you to implement an interactive visualization, you may either (1) include a link to a “live” version of the application or (2) include a link / attach screen recordings of your interacting with the final visualization (in this case, make sure to demonstrate all functionality).

Coding

- Political Book Recommendations [3 points]
- Topics in Pride and Prejudice [3 points]
- Food Nutrients [3 points]
- Interactive Phylogeny [4 points]

Discussion

- Hierarchical Edge Bundling [4 points]
- UMAP Image Collection [3 points]

Grading Criteria

Each coding problem will be graded according to the following criteria,

- C1: *Attention to detail in visual design.* Your design choices should demonstrate critical thinking around the appearance of graphical marks and the queries that they support.
- C2: *Elegant code style.* The code you use to implement your visualizations should be readable, modular, and concise. You may find it helpful to check your code against the Tidyverse style guide.
- C3: *Thoughtful explanations, interpretations, and organization.* Your justifications should be complete, your interpretations should draw creatively from relevant sources, and the submission overall should be well-organized and formatted.

Discussion problems will be evaluated based on only the last.