**HOMEWORK 3: STRUCTURED DATA**

Prepare a write-up that includes your solutions to the following questions from the course exercise sheet. Make sure to include all your code and clearly specify where each new problem begins.

**Coding**

* Bike Demand [3 points]
* CalFresh Enrollment I [3 points]
* Political Book Recommendations [3 points]
* NYC Rentals [5 points]

**Discussion**

* Geospatial Datasets [3 points]
  + Update (March 31): An additional line of code was added to problem description in the exercise sheet. This helps avoid geometry errors with tmap.
* Olympics Interactive App [3 points]

**Grading Criteria**

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

* 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.
* 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](https://style.tidyverse.org/).
* 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.