**HOMEWORK 4: STRUCTURED DATA + MODELS**

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**

* Geospatial Datasets [3 points]
* CalFresh Comparison [3 points]
* HIV Network [3 points]
* Beijing Air Pollution (part a only) [2 points]
* Food Nutrients [3 points]

**Discussion**

* Code Diary (start this before the other exercises) [3 points]
* Concept Map [3 points]. You may choose any week after week 7.

**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.