Homework 4

For this assignment please submit to Canvas your GitHub user name / your repository name (e.g., benkeser/my_project_repository).

Update your GitHub repository to adhere to principles of project organization that we have discussed in class. In particular,

- Your project directory should have a coherent folder structure. I.e., you should not have data/code/Makefile/README all stored in a single folder.
- Your project directory should include a Makefile. The first recipe included in the Makefile should produce your R Markdown report.
- Your project code should not contain any absolute file paths. It should instead use the here package to appropriately define file paths.
- Your project directory should include an renv.lock lockfile that records information on all packages needed to compile your report. The directory should also include all additional renv associated files (i.e., renv/activate.R and .Rprofile).
- Your project code should adhere as best as possible to the coding guidelines we have been discussing (e.g., self-documenting code, comments describing why and not what the code is doing, variables with informative names, etc...)
- Your project directory should include a README.md that includes instructions for how to produce your report (e.g., description of how to restore the package environment, what make command to run to produce the report, etc...).

After the assignment due date, your repository will be peer-graded. To peer grade, you should complete each of the following:

- Fork the assigned repository
- Clone the repository
- Read the README.md instructions to understand the project organization (~ 5 minutes)
- Read the Makefile to understand the components of the analysis (~ 5 minutes)
- Restore the package environment using **renv**
- Browse the source code associated with the project (all Rmd and R files) for ~ 10 minutes.
- Use make to generate your peer's report.

To complete the peer review, file an issue on your peer's repository. The issue should include a task list indicating which of the assignment requirements are completed in the repository. You should copy the code below into a GitHub comment and replace [] with [x] to indicate the item is completed.

- [] The repository contains an informative README.
- [] The repository contains a coherent organization structure.
- [] The repository includes a Makefile.
- [] The repository contains an renv.lock file.
- [] The repository adheres to best practices for coding.
- [] I was able to restore the package environment.
- [] I was able to build the project report.

If a box is not checked, provide comments on why. An example peer graded issue is shown below:

- [x] The repository contains an informative README.
- [] The repository contains a coherent organization structure.
- All files are included in a single directory, which makes it difficult to find relevant files.
- [x] The repository includes a Makefile.
- [x] The repository contains an renv.lock file.
- [] The repository adheres to best practices for coding.
- Variables are not always given informative names and the code contains too many comments.
- [x] I was able to restore the package environment.
- [] I was able to build the project report.
 - I ran into an error that said: package 'ggplot2' not available.

After you have submitted your issue on GitHub, copy the link to the issue into a comment on Canvas.

You will be graded based on the following scale:

- Does the project have an informative README (3pt)
- Does the project contain a Makefile (3pt)
- Is the project organized (3pt)
- Does the project contain **renv**-associated files (3pt)
- Did the peer reviewer note any file path-related errors (1pt)
- Can the package environment be restored by the peer grader (1pt)
- Does the repository adhere to best coding practices (1pt)
- Was the peer review completed on time (issue filed on GitHub and linked as a comment in Canvas)? (5pt)