

# Final Project

## The Final Part

PS 811: Statistical Computing

Due May 7, 2020

Complete a project folder/repository for an assignment for another course or some other project of your choosing. This project should...

- Be self contained on your computer (all lives in one file)
- Follow a project-oriented workflow: separate folders for code, data, ...
- Contain a written document produced with R Markdown, compiled to PDF.
- Be tracked using Git.
- Have its git history published online using Github or a similar remote repository service. This is how you will submit the project to me (linking me to your remote repository for me to download and investigate).

Create the project that **works for you and your needs in school**. I don't want you to spend time creating a project that isn't valuable for your other classes and/or research projects. For example, if your project is more of a literature review or a qualitative paper, *that is fine*. Nearly all of the important project-based skills, writing technology using R Markdown, etc., are transferable to qualitative or argumentative work that does not require analysis code.

Some other details that you may find helpful.

- Your project folder should contain an `.Rproj` file.
- Your project should contain a `README.md` file in the project root that describes the project with an extremely short blurb. This is the description of the project that you see when you visit your Github page.
- Use robust file pathways in any analysis scripts that require data files on your computer (using the `here` package).
- Graphics and tables are best created *within the Rmd file that you are writing*.
- You may find it valuable to create a *modular* R pipeline: separate R files that produce results that you can later import into R Markdown.
- If you have bibliographic citations, use R Markdown's bibliography capabilities.<sup>1</sup>

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<sup>1</sup>Microsoft users have been having difficulty with bibliographies if they also installed `tinytex` to build  $\LaTeX$  output. If this sounds like you, I recommend (1) uninstalling `tinytex`, (2) installing `TEXLive`, and (3) reinstalling the `rmarkdown` package for R, in that order.