

Lab 2: Reproduce an analysis!

Overview

Spend some time browsing some data science and statistics blogs (e.g. [R-Bloggers](#), [FiveThirtyEight GitHub repo with data and code](#), [Variance Explained](#), [The Economist's Graphic Detail data on GitHub...](#)) or an academic journal that has a reproducible analysis. Pick an article/entry that you both find interesting. You will need to find an analysis that has made both data and code publicly available. If you leave this until the last minute, you will not find a good article, so spend some time looking for an article that has data early in the week.

As always you may collaborate with fellow students in the class on your choice of article. You can even choose the same article as another classmate and work together on the "Analysis" portion below. Remember, however, that you may not cut and paste code, so while you may work together on the assignment, you must write up your own analysis. And your "Follow-up" analysis as detailed below **MUST** be different from anyone with whom you choose to work.

The assignment

The deliverable for this lab is a "blog post" (i.e. an html page, knitted with RMarkdown) of your own. All code should be shown in the post. The file must be submitted on Moodle by 5pm on Friday, February 26, 2021. Late assignments will not be accepted. The assignment must contain your name, and the date. The post must contain the following sections:

- (2 points) Introduction: This section should summarize and provide a link to the original post.
- (8 points) Analysis: The reproduced analysis from the original report. If your chosen article has code then you can use identical code to the original report, but do not copy any expository text. You may have to change some of the code to make it run on your computer.
- (8 points) Follow-up: An addition to the original post that provides some original data analysis and visualizations that you create. This can be a minor modification of an existing analysis (e.g. the same visualization with a different variable). The 8 points for this section is comprised of 3 points for doing something beyond the original post, and 5 points for making it an interesting and more challenging addition to the story. For example, just changing one variable is not a very challenging modification. Be adventuresome here! Try out some new things. Points will be awarded for creativity and demonstrated effort.
- (2 points) Discussion: Summarize your findings in a few sentences. Also, reflect on the activity and identify a few lessons learned and things you would do differently next time.