DS3: Week 3 - Homework 3

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- 1. Write a Pre-Analysis Plan for studying the SAT data. We'll use https://aspredicted.org
 - (a) Look at the questions asked AsPredicted.
 - (b) Discuss with your partner some scientific hypotheses (one to three) you would like to investigate concerning SAT
 - (c) Detail the statistical tests you would do to investigate these scientific hypothesis (don't do them yet).
 - (d) Write this up and post to AsPredicted. You can keep this private forever you want (read the documentation).
- 2. Write an analysis.Rmd that conducts the analysis and generates some figures. Output the figures the statistical results to a RData file.
- 3. Create a writeup.Rmd that summarizes the research (this can built off of the PAP).
 - (a) State the scientific hypotheses you are looking and why those interesting or important.
 - (b) Show the results from the statistical analyses and the figures from the saved files.
 - (c) Discuss the conclusions.
 - (d) Add an appendix with all the details you can think of for the data. Where did it come from? What was the situation like for students and teachers then?
- 4. Create a makefile with recipes for generating the files. Write a readme.md to note dependencies and how to build.