

Joshua Rowe
STAT 331
11/19/22

Lab 7 Reflection

Revising this lab meant using dplyr pipes when possible, cleaning up my graphics, and writing better functions. In Part 1 I mutated a dataframe by using the same function twice in a row (on different lines) when I could have consolidated my inputs into one function call. I had to learn a little about the `str_replace_all` function, but I'm glad I did; it was much simpler to provide a vector of input/output pairs instead of calling the function more than once! I also did my best to accommodate the comments in the visualization task in Part 1. I set the number of bins explicitly in my histogram to ensure that each year had its own bin and used "ndodge" to allow each year to be shown on the x-axis.

One note for my revision of part 2: there is a comment which says each code chunk should only accomplish "**ONE**" task, but tasks 1 and 2 in Part 2 were paired because task 2 required me to edit task 1. There was no way to separate the two tasks into different code chunks. I did learn about writing better functions in that same code chunk, though! Instead of calling the `min()` function more than once, I created intermediate variables for the minimum and maximum values of my function's vector input, and then used those intermediate values to calculate my scaled vector. I also made use of the *layout-ncol* option in my code chunk for task 4 to make side-by-side plots without having to download an external package 😊.

Finally, I learned a little more about the "`across()`" function! I know we've talked about it many times in class, but I guess sometimes it just takes a while for certain things to sink in; instead of defining my own function and inputs with "`~`" and "`.x`" respectively, I simply typed the name of my function into the "`.fns`" argument of `across()`. This accomplished the same outcome as my original input!!