

PUBH 7462 Homework 5

Due 3/29/2022 @ Midnight

General Expectations

Throughout the assignment, please:

- Use meaningful file names (“_” or “-” seperated)
- Use meaningful variable names
- ‘Good’ R style (white space, etc.)
- Consistent style (choose a style and stick to it)
- Appropriate titles, axes labels, and legend titles/group names
- Get into the habit of commenting your code chunks
- Use relative paths, ex. “./data”

With respect to the knitted .RMD:

- Omit extra output (anything from R with `##` for example)
- Make sure your code chunks are visible with `echo = TRUE`
- Make sure your inline R works properly and `round()` digits

With respect to Github:

- Make sure your repository is public so the TA and myself can view it
- Keep the repository ‘tidy’ and well organized
- Use meaningful filenames such that a stranger who happened upon the repository could surmise what’s going on

With respect to data visualizations in general:

- **Never output a tibble() or data.frame() as a table**
 - Please use `df %>% gt() %>% tab_header("")`
- **Github Documents – always save with gtsave in ./figures/ folder, and call inline with **
- Remember, a *good* data visualization should be self-explanatory
- This means that I shouldn’t need to read your code to know what’s going on in the plot
- I find it useful to imagine your audience knows little to nothing about what you’re doing prior to seeing the plot (as is often the case)

Problem 1. Github repository (10pts)

- Please set up a repository named *your-user-name.github.io*
- Connect to it Rstudio with an .Rproj
- Create a /data folder, add to the .gitignore
- Download the website template folder on Canvas here
- ‘Build the website’ from the template
- Commit your changes, push, and pull

Problem 2. Personal Website (55pts)

Please do the following –

1. Edit the `_site.yaml` such that the email and github links (in the top right) link to *your* github and email (**5pts**)
2. Edit the `_site.yaml` to add a logo and link to *your* LinkedIn account (**5pts**)
3. Edit the `index.RMD` home page to include your name, a ‘professional’ photograph of yourself, and a brief professional bio (**20pts**)
4. Add a button with a drop down menu entitled “Professional Documents” which includes your resume/CV like so: (**25pts**)
 - Within the `menu:`,
 - Create a `resume.RMD`
 - Embed *your* resume/CV in it
 - Knit to `resume.html`
 - Add a link called “Resume” which links to `resume.html`
5. ‘Build your website’ (make sure all the files are knitting together) and add, commit, pull, and push your changes.

Problem 3. Embed an ‘Interactive’ Flexdashboard (35pts)

Working off of the flexdashboard template from last lecture, located here, as well as the lecture regarding plotly here; please do the following –

1. Edit the `flexdashboard.RMD` template to include 3 *interactive plotly*’s by taking any 3 `ggplot`’s from previous lectures, hw, or the midterm, and transforming them into `pplotly` objects (**30pts**)
 - *Cannot* be any plots from the NYC Airbnb data/activity last lecture
 - **At least 1** of your `plotly`’s must be written in `plotly` syntax (not `%>% ggplotly()`)
2. Add a button with drop down menu called “Recent Work” and within the menu, add a link called “Flexdashboard” which links to `fleshdashboard.html` (**5pts**)
3. ‘Build the website’ and then add, commit, pull, and push your changes.

Notes

- You’ll need to add whatever data your plots are coming from to the data folder in the repository
- Don’t forget to ‘build’ the entire website (otherwise links between pages won’t work)
- You may sometimes need to clear all cookies/browsing history to see your changes actually appear on the web