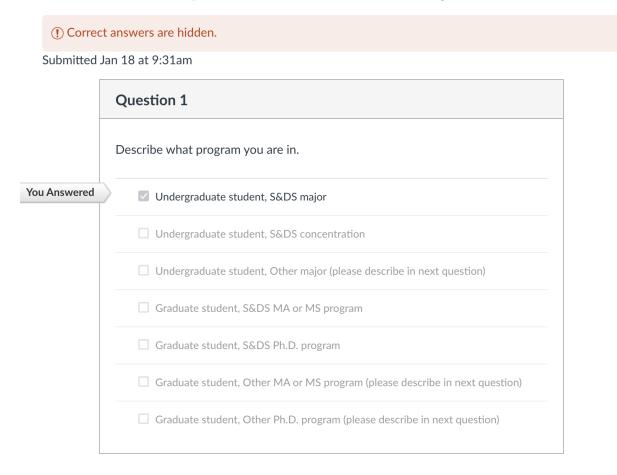
S&DS 361 Homework 0: Software Prep

Due Tue Jan 23, 2024

Part 1: Course prep and software installation

1. Complete the Course Survey in the Quizzes section of Canvas After you submit the quiz, take a screenshot of the time stamp and Question 1. It should look something like this.



Edit the above file name and path to show your screenshot and ensure that it appears when you knit your document.

2. Download and install the latest version of R See https://bmacgtpm.github.io/notes/software-installation.html for some potentially useful tips.

The following code will show your version of R when you knit the document. It should say R version 4.3.2 or later. Make sure it appears when you knit your document.

R.Version()\$version.string

[1] "R version 4.3.2 (2023-10-31)"

3. Download and install the latest version of RStudio. See https://bmacgtpm.github.io/notes/software-installation.html for some potentially useful tips.

This code will show your version of R when you knit the document. Make sure it appears when you knit your document. It should say 2023.12.0+369 (or later).

```
rstudioapi::versionInfo()$long_version

[1] "2023.12.0+369"
```

4. Install/update packages See https://bmacgtpm.github.io/notes/software-installation.html for the packages to install.

Do not write R code for installing packages in this R Markdown. You don't want packages to install every time you knit this document.

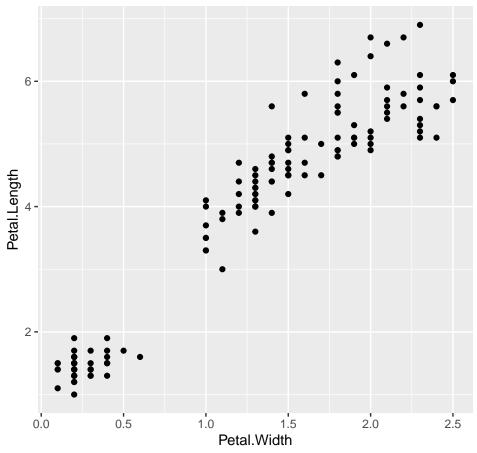
Check that you can load all of the libraries by running this chunk of code and showing that it executes without error. There may be some messages, and maybe warnings about versions. Those are ok. Make sure the output appears when you knit the document.

```
library(knitr)
library(plotly)
library(scales)
library(DT)
library(leaflet)
library(gganimate)
library(gifski)
library(png)
library(corrplot)
library(GGally)
library(ggmap)
library(shiny)
library(MASS)
library(lme4)
library(arm)
library(pROC)
library(MLmetrics)
library(viridis)
library(RSelenium)
library(rvest)
library(randomForest)
library(FNN)
library(caret)
library(pls)
library(devtools)
library(splines)
library(RecordLinkage)
library(rsconnect)
library(grid)
library(foreign)
library(maps) ## leave uncommented. For some reason GitHub Actions had a problem when this wasn't expli
## load tidyverse last!
library(tidyverse)
```

library(pubtheme)

5. Check gganimate See https://bmacgtpm.github.io/notes/software-installation.html. The code from that page is below, except a custom title has been added. Replace my name with yours, uncomment the animation code, run all of this code.

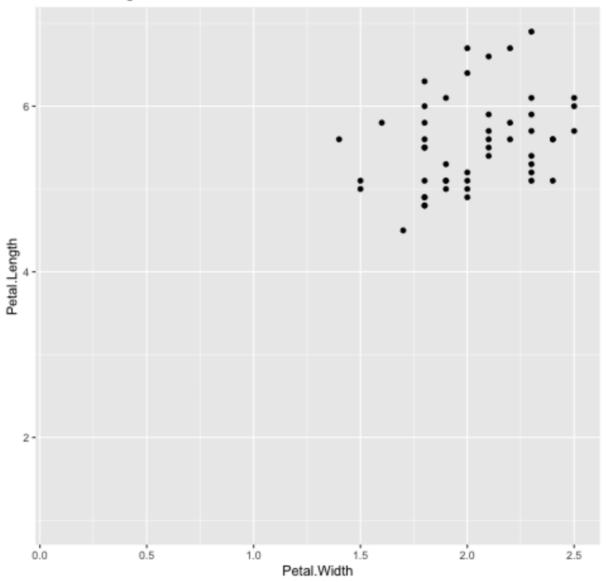
Daniel Zhang's animation



There should be a static plot and an animated plot above. If the anim_save worked properly there should be a new test.gif in the img folder that has your name. Take a screen shot of your animated gif when the

points are near the upper right and show the screenshot here:

Daniel Zhang's animation



If all of that works, gganimate is good to go! If that doesn't work, see the tips at https://bmacgtpm.github.io/notes/software-installation.html.

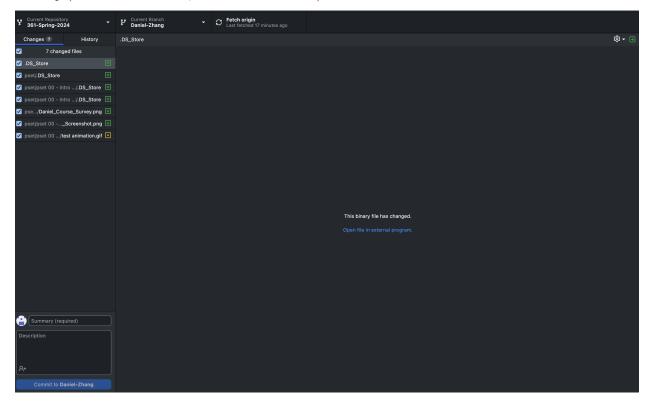
Once you have created the animation, comment out the code that creates the animation (as I have done above). This document won't knit to PDF with the animation code in it. You can only knit to HTML.

6. Bookmarks See https://bmacgtpm.github.io/notes/software-installation.html.

Part 2: Github

7. Create a GitHub account at https://github.com/ if you don't have one. Submit your GitHub username in Quizzes -> Course Survey on Canvas.

8. Download GitHub Desktop at https://desktop.github.com/. Take a screenshot showing Github Desktop (or different software, or the command line) and show it here.



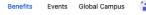
If you have experience with Git/Github, and prefer to use different software or the command line, that's fine, but we may not be able to help if you have a problem.

9. Clone the repo https://github.com/bmacGTPM/361-Spring-2024 and create PR as follows. Clone the repo, create a new branch and name the branch Firstname Lastname your first and last name. Make an edit to the R Markdown file pset00-GitHub-pull-request-Firstname-Lastname.Rmd to have your name at the top instead of mine. Commit that to your branch, push those commits to GitHub, and create a pull-request to the main branch on the 361-Spring-2024 repo. Make the title of the pull request your first and last name. For help getting started, see https://docs.github.com/en/desktop/installing-and-configuring-github-desktop/overview/getting-started-with-github-desktop.

If you find yourself getting many notification, you can go to https://github.com/watching to choose what notifications you get. This page has some more info on notifications/subscriptions.

10. Set up Github Copilot in RStudio See https://bmacgtpm.github.io/notes/github-copilot-in-rstudio.html.





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Be sure to check your email. If you don't hear from us within the hour, you should receive an email from us in less than **9 days**. Have an Octotastic day!

Get help	Students	Teachers
Common questions about applying for your academic discount.	Learn about GitHub's programs	Discover GitHub's resources

If you use Github Copilot elsewhere, take a screenshot of whatever software you use.