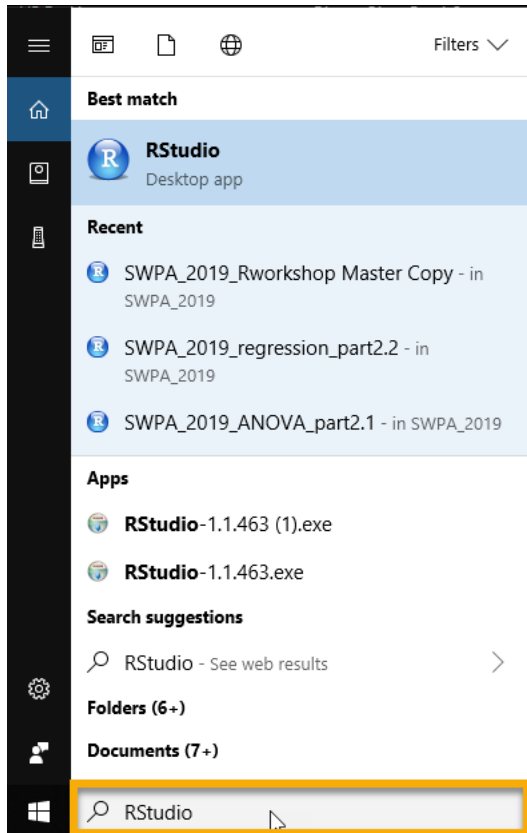


Hello, Future Stats Gurus:

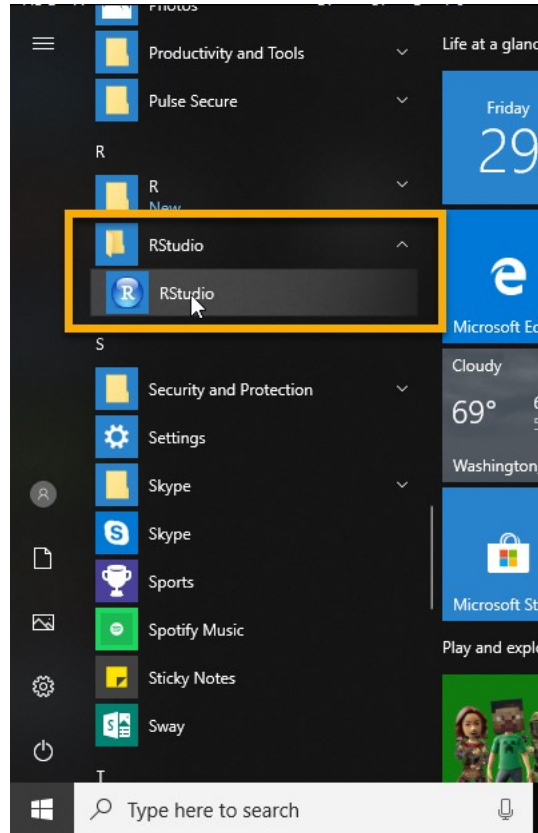
The following steps will walk you through installing some packages we need for the workshop. We appreciate you going through this process so you can follow along with the workshop. Based on the research on various forms of active learning, following along will be more engaging and beneficial than a demo or lecture on the topic.

- 1) Open RStudio.

Option A. Search for “RStudio”.

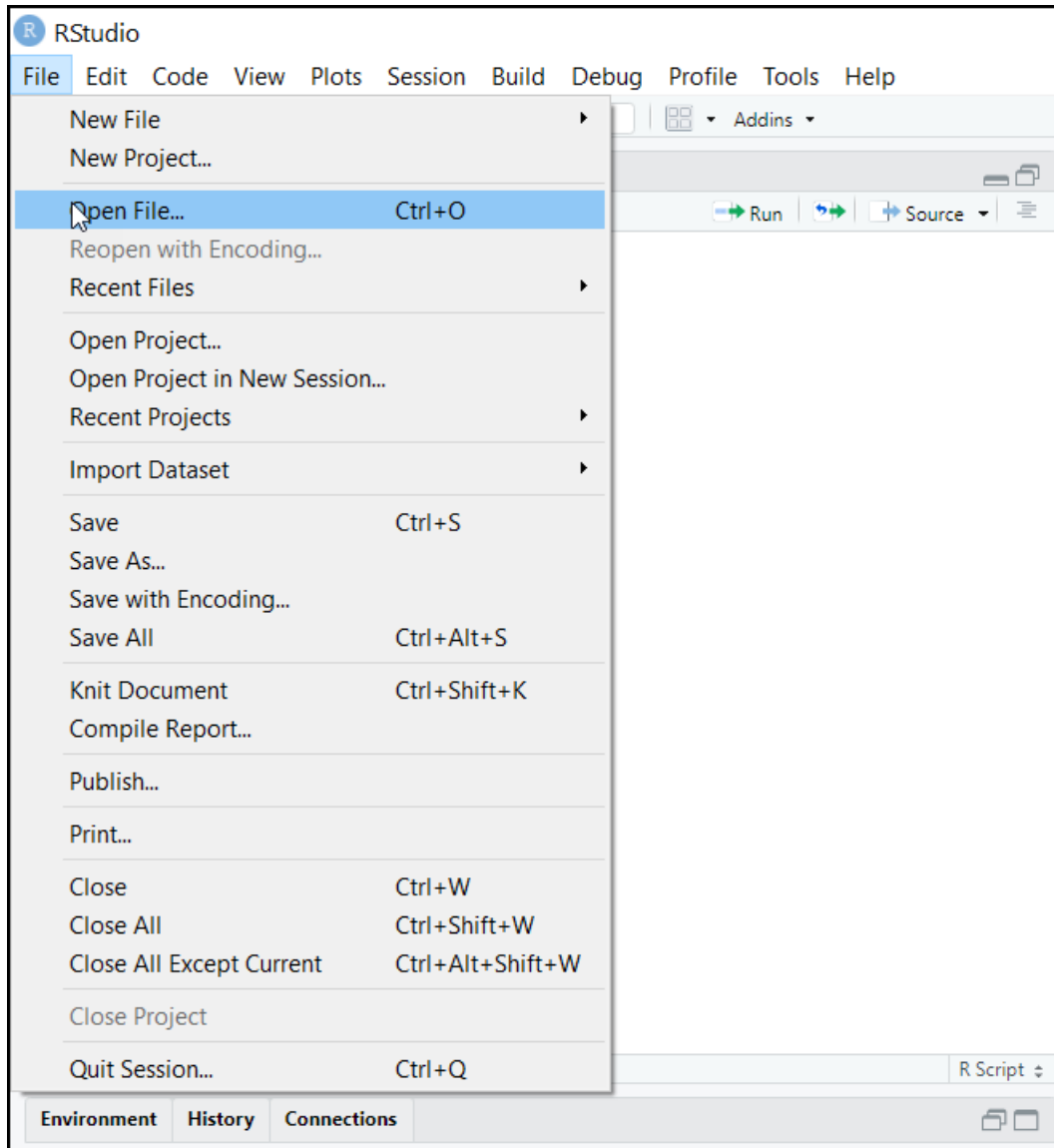


Option B. Select Start menu and look for RStudio.

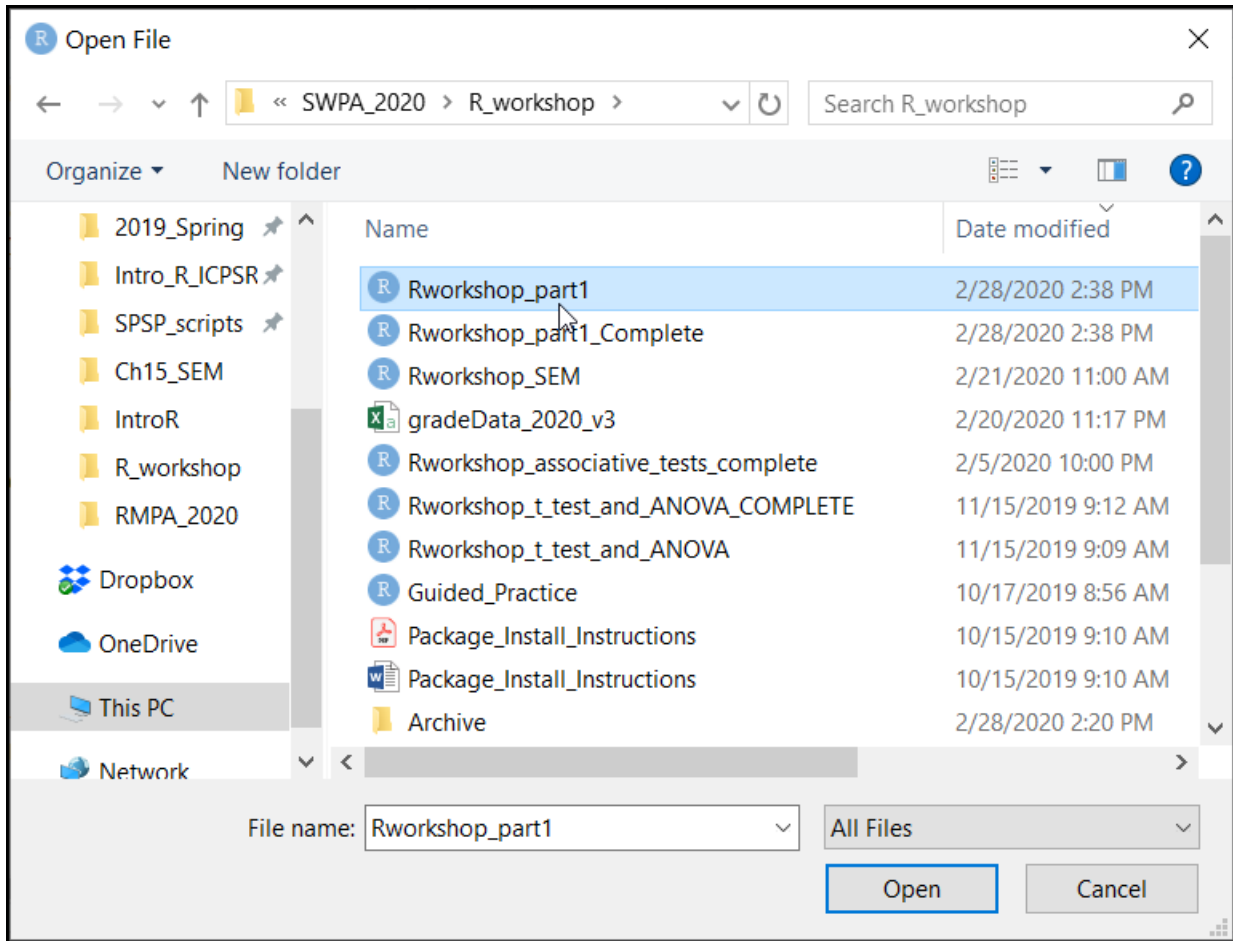


- 2) Open the file “Rworkshop_part1.r”. In RStudio, select File > Open file... (2a). Then, find and select appropriate file (2b), and click “Open” (2c).

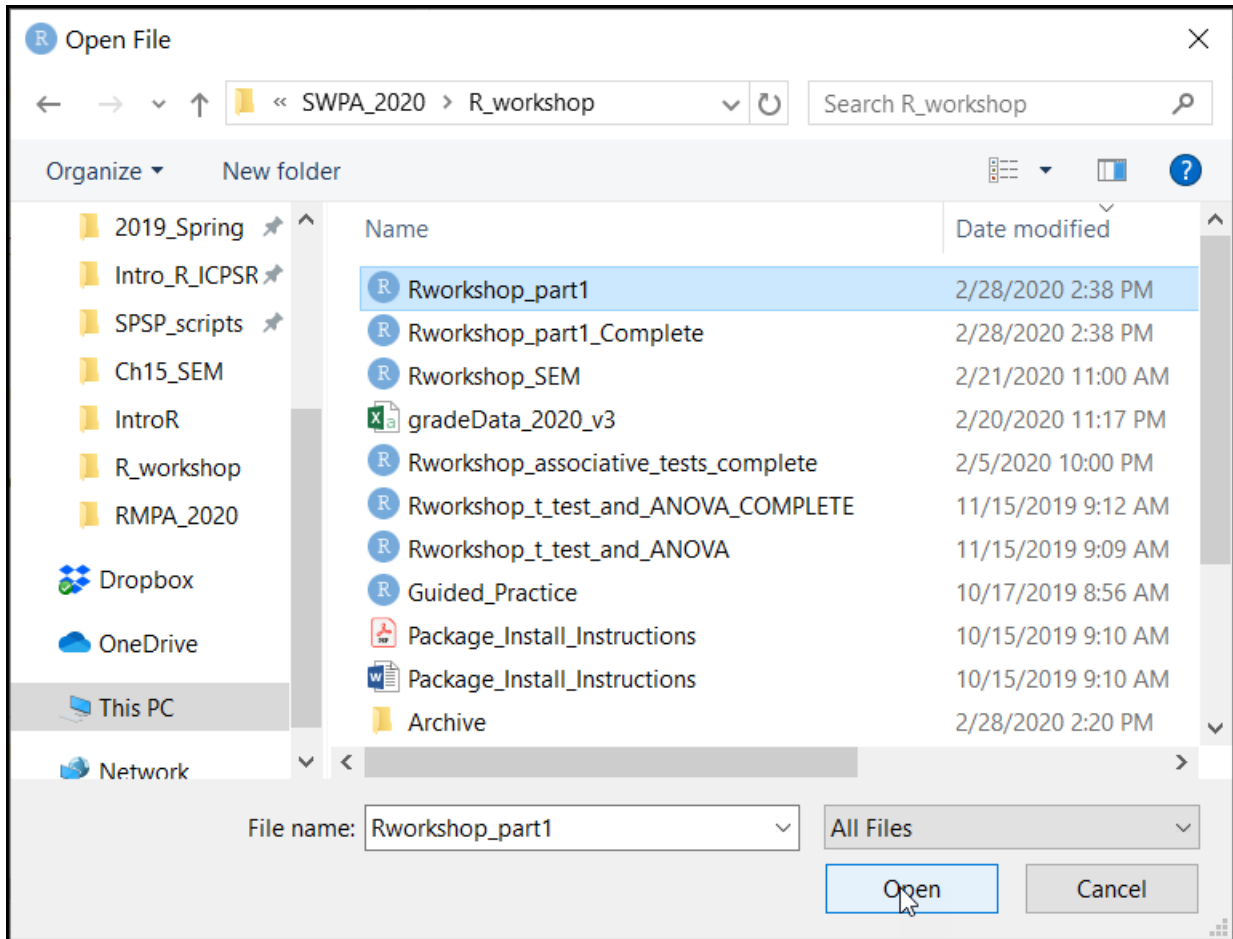
2a.



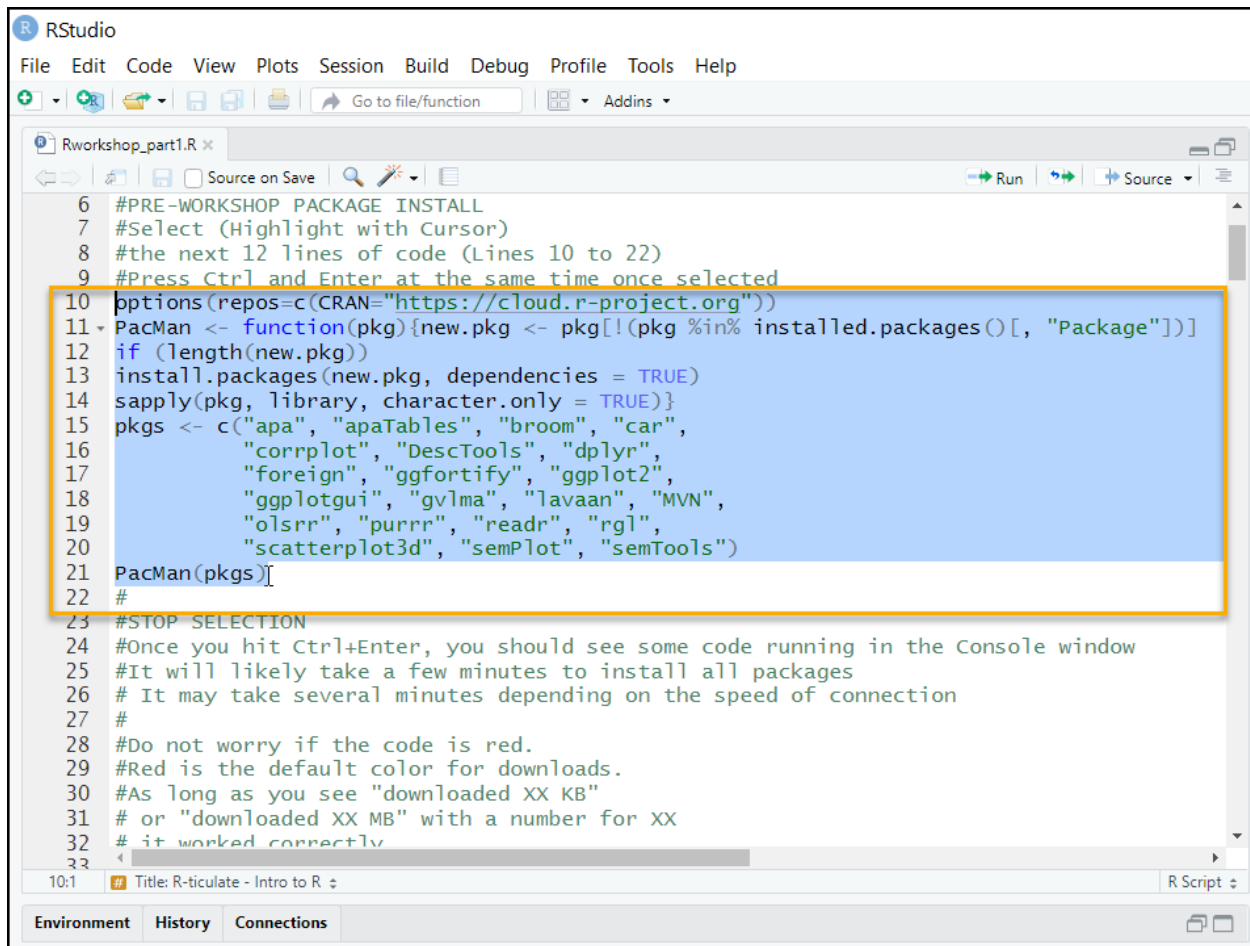
2b.



2c.



- 3) In RStudio, the script file (Rworkshop_part1.r) should now be open. Select (i.e., highlight with the cursor) the 12 lines of code indicated, and press **ctrl** and **enter** on your keyboard at the same time.

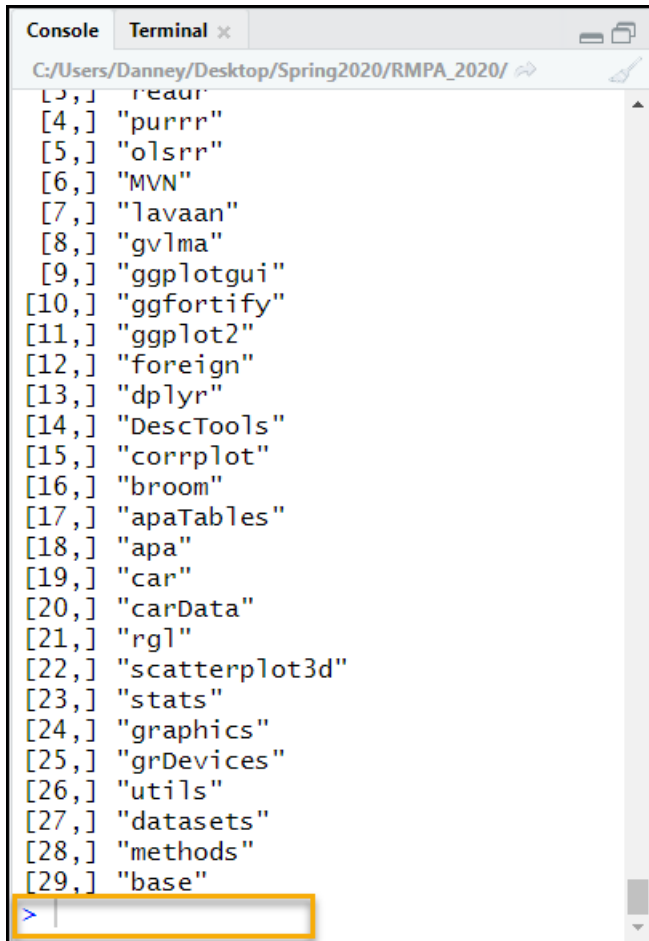


```
6 #PRE-WORKSHOP PACKAGE INSTALL
7 #Select (Highlight with Cursor)
8 #the next 12 lines of code (Lines 10 to 22)
9 #Press Ctrl and Enter at the same time once selected
10 options(repos=c(CRAN="https://cloud.r-project.org"))
11 PacMan <- function(pkg){new.pkg <- pkg[!(pkg %in% installed.packages()[, "Package"])]
12 if (length(new.pkg))
13   install.packages(new.pkg, dependencies = TRUE)
14 sapply(pkg, library, character.only = TRUE)}
15 pkgs <- c("apa", "apaTables", "broom", "car",
16           "corrplot", "DescTools", "dplyr",
17           "foreign", "ggfortify", "ggplot2",
18           "ggplotgui", "gvlma", "lavaan", "MVN",
19           "olsrr", "purrr", "readr", "rgl",
20           "scatterplot3d", "semPlot", "semTools")
21 PacMan(pkgs)
22 #
23 #STOP SELECTION
24 #Once you hit Ctrl+Enter, you should see some code running in the Console window
25 #It will likely take a few minutes to install all packages
26 # It may take several minutes depending on the speed of connection
27 #
28 #Do not worry if the code is red.
29 #Red is the default color for downloads.
30 #As long as you see "downloaded XX KB"
31 # or "downloaded XX MB" with a number for XX
32 # it worked correctly
33
```

- 4) Wait. You should see some code appear in your Console window. The code may be red, which is the default color for package installs. As long as you see “downloaded XX KB” or “downloaded XX MB” with XX representing possible numbers, your download has been successful.

This process will likely take a few minutes (depending on your internet connection) because we are downloading several packages.

- 5) Once the code has finished, you should see a ">" symbol at the bottom of the Console indicating it is ready for the next command. At this point, you can close the program. We look forward to seeing you at the workshop.



```
C:/Users/Danney/Desktop/Spring2020/RMPA_2020/
[3,] "readr"
[4,] "purrr"
[5,] "olsrr"
[6,] "MVN"
[7,] "lavaan"
[8,] "gvlma"
[9,] "ggplotgui"
[10,] "ggfortify"
[11,] "ggplot2"
[12,] "foreign"
[13,] "dplyr"
[14,] "DescTools"
[15,] "corrplot"
[16,] "broom"
[17,] "apaTables"
[18,] "apa"
[19,] "car"
[20,] "carData"
[21,] "rgl"
[22,] "scatterplot3d"
[23,] "stats"
[24,] "graphics"
[25,] "grDevices"
[26,] "utils"
[27,] "datasets"
[28,] "methods"
[29,] "base"
>
```