How to Install R and R Studio

Install R

1. Click here to go to R homepage
2. Choose your operating system.

For Windows

1. click on `install R for the first time`

   Subdirectories:

   base Binaries for base distribution. This is what you want to **install R for the first time**.

2. click on `Download R-4.2.1 for Windows` and install.

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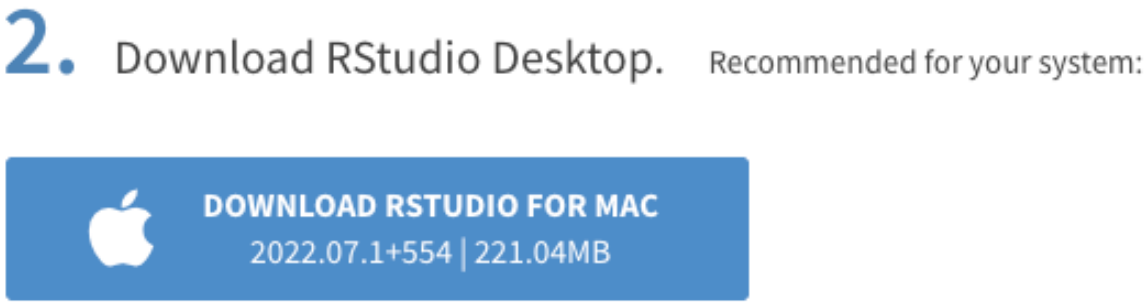
For Mac

1. Choose the framework that corresponds to your computer's macOS version and install.

Install R studio

1. Click here to go to the R Studio web page
2. Download RStudio Desktop that is Recommended for you System. Mine is Mac.



3. Once installed run RStudio. On the left corner click on `File -> New file -> R script`
4. Copy paste the header below on the empty script and select the entire code (ctrl+A) and click on run. If the code is running and you have an object called `df1` in the environment tab, you are ready to go!

```
################################################################################
# list the packages we need and loads them, installs them automatically if we don't have them
# add any package that you need to the list
need <- c('glue', 'dplyr','readxl', 'ggplot2','tidyr','AER','scales','mvtnorm',
          'stargazer','httr', 'repmis')

have <- need %in% rownames(installed.packages())
if(any(!have)) install.packages(need[!have])
invisible(lapply(need, library, character.only=T))

# Save the R script to the assignment 1 folder before this
# To set up the working directory
getwd()
setwd(getwd()) #change getwd() here is you need to set a different working directory


#this clears the workspace
rm(list = ls())
#this sets the random number generator seed to my birthday for replication

options(scipen=999)
################################################################################
#get the data url
df1.url <- 'https://www.dropbox.com/s/z8r6hc0r4ytt4f8/birthweight_smoking.xlsx?dl=1'
#download the data
GET(df1.url, write_disk(tdf <- tempfile(fileext = ".xlsx")))
#check if it worked
df1 <- read_excel(tdf) %>%
    mutate(birthweight = birthweight + rnorm(length(birthweight)) * 50)



head(df1)

#CONDUCT THE ANALYSIS BELOW
```