

EDUC 152 Introduction to Quantitative Research in Education

Software to install before first class meeting

Please skim through all of the instructions before getting start.

1. Create a Slack account (if you don't already have one)

- We will be conducting all class-related discussion on slack.
- The TA will send you an invite to the class slack channel.

2. Install R

- Go to <https://cran.r-project.org/>
- **For Windows only** Select “Download R for Windows”
 - Click “install R for the first time”
 - Click “Download R 4.0.4 for Windows”
- **For MAC only** Select “Download R for (Mac) OS X”
 - Click “R-4.0.4.pkg”

3. Install RStudio

- Go to <https://www.rstudio.com/products/rstudio/download/>
- Scroll to the bottom of the page
- Select “RStudio-1.4.1106.exe - Windows 10/8” for **Windows** users
- Select “RStudio-1.4.1106.dmg - macOS 10.13+” for **Mac** users

4. Create R Markdown file that “knits” to an HTML and PDF document in RStudio

- What do we mean by this?
 - We will use R Markdown for lectures (HTML) and turning in problem sets (pdf).
 - R Markdown allows us to create documents in a variety of formats (HTML, pdf, word, etc.). For example, this document was created using R markdown (pdf).
 - [Here](#) is a link to more information on R Markdown outputs.

- Steps to follow to create R Markdown file that knits **HTML** document
 - Load RStudio
 - At the top left corner select “File” -> “New file” -> “R Markdown”
 - Select “HTML”, title your markdown file (optional), and click “OK”
 - Now select the “Knit” tab (icon with blue yarn ball) or scroll down and “Knit to HTML”
 - Give your file a name and save (can delete later) in place that is easy to locate (Desktop, Downloads, etc.)
 - You should have a saved HTML file (extension .HTML) and an R markdown file (extension .Rmd)
- Steps to follow to create R Markdown file that knits **PDF** document
 - In your RStudio, at the top left corner select “File” -> “New file” -> “R Markdown”
 - Select “PDF”, title your markdown file (optional), and click “OK”
 - Now select the “Knit” tab (icon with blue yarn ball) or scroll down and “Knit to PDF”
 - Give your file a name and save (can delete later) in place that is easy to locate
 - You should have a saved pdf file (extension .pdf) and an R markdown file (extension .Rmd)

*Note: You will need to have **tinytex** installed in RStudio **OR** **LaTeX** installed in your computer to be able to knit to pdf. If you receive an error shoot me an email and we can troubleshoot together*

5. Complete the first chapter of Introduction to R on Datacamp (OPTIONAL) [here](#)

- *Note: All first chapters of DataCamp’s standard courses are free.*
 - Follow the link and create an account
 - This tutorial may take 2-4 hours
 - We encourage you to complete this tutorial if you are new to R and/or would like extra practice
 - We recommend you run your code on your own RStudio to get some practice.

Disclaimer: I am a Mac user and will do the best I can assisting with any Windows issues