

Installing R and RStudio

Note that the R and RStudio versions may be different from what are in the videos. Make sure you download the **latest** versions.

General Download and Install (Short)

<http://web.cs.ucla.edu/~gulzar/rstudio/>

On Windows

<https://www.youtube.com/watch?v=eD07NznguA4>

On Macs

<http://www.r-bloggers.com/installing-r-on-os-x/>

On Ubuntu

<http://www.r-bloggers.com/download-and-install-r-in-ubuntu/>

Introduction to RStudio Interface

This video includes how to download and install R and RStudio on a mac, an introduction to RStudio interface, and how to get help in RStudio.

<https://www.youtube.com/watch?v=IVKMsaWju8w>

.Rmd (R Markdown) Files

Introduction to R Markdown Files

http://rmarkdown.rstudio.com/authoring_quick_tour.html

(Advanced) Using R Markdown File to Write Report

If you are interested in using R Markdown files in your own work, please see the following tutorial by DataCamp:

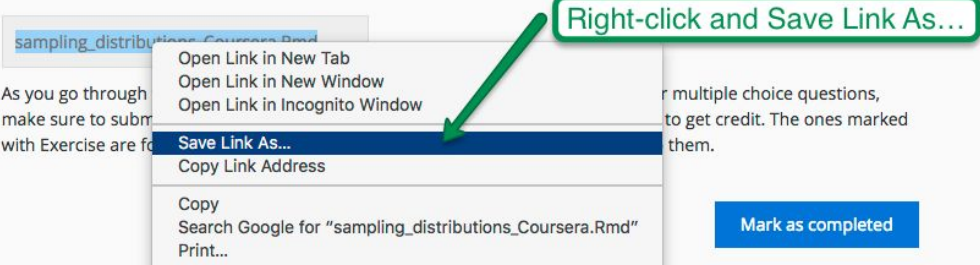
https://www.datacamp.com/courses/reporting-with-r-markdown?utm_source=launch_blog&utm_medium=blog&utm_content=R%20Markdown%20Launch&utm_campaign=R%20Markdown%20Launch

Working on R Markdown File in the Labs

First, you need to download the instructional markdown files from the Lab Instructions page. If Chrome doesn't work, please switch to another browser to download. Or you could change the file's .txt extension to .Rmd downloaded from Chrome.

Download and Knit the lab:

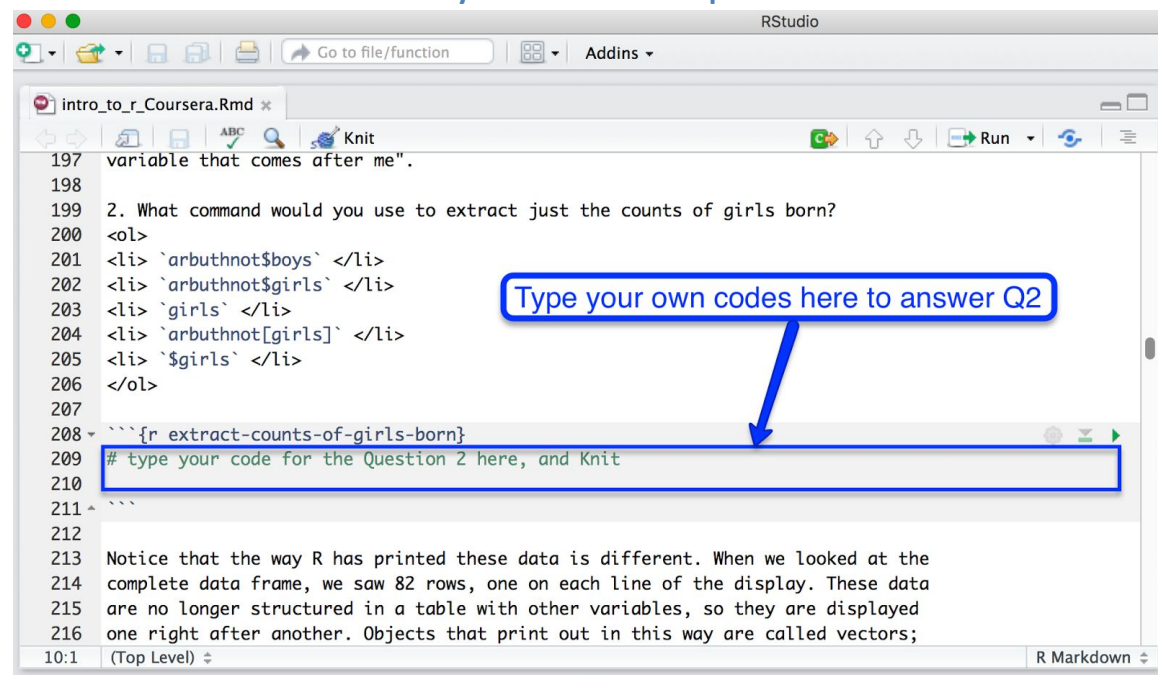
Next, download the R Markdown file linked below, open it in RStudio, and Knit the file using either the Knit button or the Run Document button (equivalent). This document contains the instructions for the lab. **IMPORTANT:** Use right-click, then save link as to save the below R Markdown file. If Chrome doesn't work, switch to Firefox or other browsers when downloading the file. You must download and Knit this file and be able to view the instructions in it to complete the Week 1 Lab, so make sure to complete these steps before starting the lab.



As you go through... make sure to submit... with Exercise are for... multiple choice questions, to get credit. The ones marked them.

Mark as completed

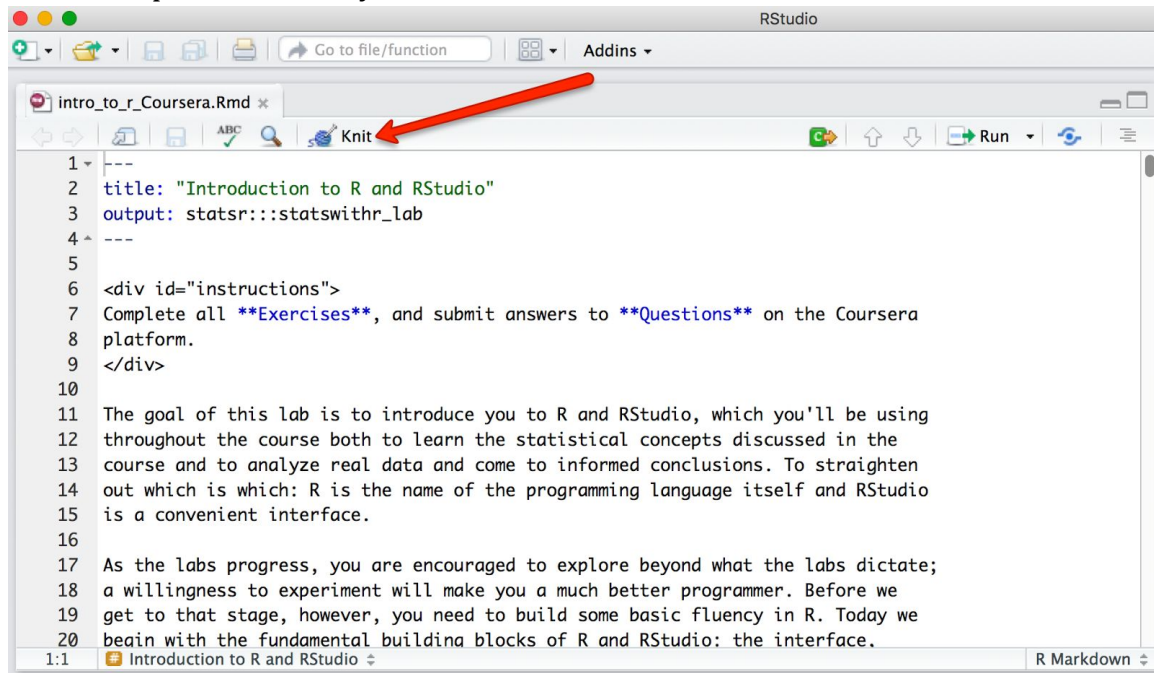
Next, open the .Rmd file that you just downloaded with RStudio. The file contains detailed instructions on how to do the lab and all lab questions. At this point, you should be familiar with basic .Rmd file structures. Type in your own codes to answer the questions between "" "" where there is a "# type your code for Question X here, and Knit". The code chunks usually occur after each question.



```
197 variable that comes after me".
198
199 2. What command would you use to extract just the counts of girls born?
200 <ol>
201 <li> `arbuthnot$boys` </li>
202 <li> `arbuthnot$girls` </li>
203 <li> `girls` </li>
204 <li> `arbuthnot[girls]` </li>
205 <li> `$girls` </li>
206 </ol>
207
208 ```{r extract-counts-of-girls-born}
209 # type your code for the Question 2 here, and Knit
210
211 ```
212
213 Notice that the way R has printed these data is different. When we looked at the
214 complete data frame, we saw 82 rows, one on each line of the display. These data
215 are no longer structured in a table with other variables, so they are displayed
216 one right after another. Objects that print out in this way are called vectors;
```

If the code chunks are not light grey, that almost certainly means you still have a txt document and you should use File- Save As and save the file with a short file name and the suffix Rmd, like lab1.Rmd

Next, after typing in all codes for all the questions in the .Rmd file, you could go ahead and knit the file to an .html file. To do that, click “Knit” (or for some people, the button is called (Racheal, what is the button called in your RStudio?)). An .html file will be produced with your codes and results.



Finally, don't forget to fill in the answers to these lab questions in the lab quiz to get a score.