**R Resources**

Here are some resources for learning R. It can be overwhelming at first, but I’ve found that the best way to learn R was having to use it in analyses.

\*This is not an official endorsement of these sites by Rollins or anything like that. They are just sites and articles that I have found useful/think may be useful.\*

**Google:**

I use Google a ton while I’m using R. If you are experiencing an error, people have likely seen the same thing before.

<https://medium.com/@niamhpower/how-to-google-effectively-as-a-developer-4ebe363afe>

If these websites come up in my Google searches, I prefer to check them out first:

<https://stackoverflow.com/>

<https://cran.r-project.org/>

<https://community.rstudio.com/>

**Tutorials:**

Type **help.start()** in R and you will open up the R documentation and some built-in tutorials. I think this would be most helpful for people who have been exposed to some programming concepts before.

This documentation is the same thing, just online: <https://cran.r-project.org/doc/manuals/r-release/R-intro.html>

I have heard good things about the free tutorials on datacamp and swirlstats.

<https://www.datacamp.com/courses/free-introduction-to-r>

<https://swirlstats.com/>

This short tutorial covers the basics pretty quickly:

<https://www.burns-stat.com/documents/tutorials/impatient-r/>

The author also has a fun document outlining some reasons why R is great:

<https://www.burns-stat.com/documents/tutorials/why-use-the-r-language/>

**Textbooks:**

You are able to access a free online version of this textbook. It may be useful for exercises and reference: <https://www.manning.com/books/r-in-action-second-edition#toc>

**Graphs and Plots:**

ggplot2 is a popular R package that can make beautiful graphs and plots. It can also be fairly complicated. This is a comprehensive tutorial on how to use ggplot2: <http://r-statistics.co/Complete-Ggplot2-Tutorial-Part1-With-R-Code.html>

**RMarkdown:**

RMarkdown is a package for R which lets you make markdown documents. These documents let you write regular paragraphs, then put in “chunks” of R code. Then, you can output them as .html, .pdf, and Microsoft Word files. They make it easy to present research and explain your R code. This document was made in RMarkdown!

The setup can be a little complicated, so if you can’t get RMarkdown working the way you’d like it, don’t worry about it and just make sure to put a lot of comments in your regular R code.

<https://rmarkdown.rstudio.com/lesson-1.html>

<https://bookdown.org/yihui/rmarkdown/>

**Cheat Sheets:**

Here are some useful cheat sheets. If you are looking for more, there are a lot of really nice cheat sheets here: <https://rstudio.com/resources/cheatsheets/>

R cheat sheet:

<https://rstudio.com/wp-content/uploads/2016/10/r-cheat-sheet-3.pdf>

ggplot2 cheat sheet:

<https://rstudio.com/wp-content/uploads/2015/03/ggplot2-cheatsheet.pdf>

Rmarkdown cheat sheet:

<https://rstudio.com/wp-content/uploads/2015/02/rmarkdown-cheatsheet.pdf>