Resources for Future Learning

After this workshop you will have a foundation for building future knowledge and skills in R and data analysis. However, we have barely scratched the surface in terms of what R is, what R can do, and more generally how to code or do data analysis. Below are our favorite resources for learning R.

The most comprehensive inventory of R related resources and educational material can be found on [RStudio's website](). Check out the huge inventory of guidelines, workshop material, videos, and other useful content.

RStudio Cheatsheets

Very well-designed (if somewhat dense) two-page overview cards for specific R packages or topics. We recommend:

[Data Import Cheatsheet](): https://github.com/rstudio/cheatsheets/raw/master/data-import.pdf

[Data Visualization Cheatsheet](): https://github.com/rstudio/cheatsheets/raw/master/data-visualization-2.1.pdf

[Data Transformation Cheatsheet](): https://github.com/rstudio/cheatsheets/raw/master/data-transformation.pdf

[R Markdown Cheatsheet](): https://github.com/rstudio/cheatsheets/raw/master/rmarkdown-2.0.pdf

---

Massive Open Online Courses (MOOCs)/online courses

[The Johns Hopkins University Data Science Specialization]()

- An excellent series of lessons teaching the A to Z of data science from some of the earliest and best team of R educators.

[Harvard Data Science Specialization]()

- A fantastic data science course with a leading biostatistician and data scientist.

[stat545]()

- Data wrangling, exploration, and analysis with R, one of best courses teaching data munging and all things R, initially taught by statistician Jenny Bryan at UBC.

Online/Free Textbooks

[R for Data Science by Hadley Wickham and Garrett Grolemund]()

- The definitive text on data science via the tidyverse by the leading R developer Hadley Wickham.

[Introduction to Data Science by Rafael Irizarry]()

- Raf Irizarry, Harvard Professor and fantastic teacher has published a wonderful introductory Data Science Book.

[An Introduction to Statistical and Data Sciences via R by](#)[Chester Ismay and Albert Y. Kim](#)

- A fantastic introduction to R via statistical inference.

[Fundamentals of Data Visualization by Clause Wilke](#)

- Claus Wilke, a professor from UT Austin has written a highly useful ggplot [add-on package](#) and now has a new book on data visualization.

Youtube videos

Anything with Hadley Wickham, including:

- [Hadley Wickham's "dplyr" tutorial at useR 2014](#)
- [Stanford Seminar - Expressing yourself in R](#)

As well as Garrett Grolemund's [Data Wrangling Series](#)

Websites/Blogs

[R Bloggers](#) is a blog aggregator which captures a lot of the most prominent R bloggers on the internet

[Rweekly.org](#) is a weekly manual review of the latest and greatest in R internet content.

[Rviews](#) is the RStudio blog devoted to the R Community and the R Language.