

RStudio Resources

This document includes a compilation of crowdsourced resources from fall 2022 to support institutional research, planning, and effectiveness (IRPE) professionals with [RStudio](#) software.

- There is a CCC R Listserv, where folks will occasionally ask questions and share code. Search for “RPROG-IR” on this [Listserve Archive](#) moderated by [Paul Meinz](#).
- [Dan Huynh](#) is assembling a working group to learn these techniques as a team. Email her if you are interested.
- I’ve had good luck learning R and Python via Coursera.

—[Logan Murray](#)

- The UCLA computing page has several great [resources and tutorials on R](#)

—[Alyssa Nguyen](#)

- [DataCamp](#) is an awesome resource for learning new programming languages! It’s interactive so you are able to learn by doing (with instant feedback) instead of simply watching videos and hoping you are doing it correctly. It does require a subscription, but it is definitely worth it. Our office has a subscription and it has been super helpful.

—[Caterina Grossi](#)

- I made a [basic R tutorial](#) for IR folks with the stuff I wished I had known starting off. Hopefully, it is helpful!

—[Terrence Willett](#)

- There are several great courses in Udemy. I found them to be practical and useful.

—[Heeju Jang](#)

- Here are some resources I’ve gathered over the years. Hope some are helpful.

- **Self-paced courses**

- [R Studio Primers](#)
- [R Studio Essentials](#)
- [Gentle Intro to Tidy Statistics in R](#)
- [R Course in Higher Education Department at UCLA](#) (The course itself has links to more resources)
- [DataCamp’s free introduction to R](#)
- [Codecademy’s free intro to R course](#)
- [LinkedIn Learning](#)

- **Books**
 - [Hadley Wickham's R for Data Science](#)
 - [Hadley Wickham's Advanced R](#)
 - [Thulin's Modern Statistics with R](#)

- **Misc Tutorials/Resources**
 - [CMU Library Resources](#)
 - [Joining Data](#)
 - [DataQuest suggestions for learning R](#)
 - [R-Bloggers suggestions for learning R](#)

—[Lauren Ilano](#)

- The MMAP team also made an [R guide for decision trees](#) that includes some basic R (loading data files, descriptives) as well as help with the RStudio interface.

—[Terrence Willett](#)

- I found this book, [Programming Skills for Data Science: Start Writing Code to Wrangle, Analyze, and Visualize Data with R](#), by Ross and Freeman to be very helpful. It tells you not only about R but also about GIT and some other tools. It also isn't super heavy on statistical complexity, while still not being overly simple on the programming side of things. It also explains well many of the most important R packages like GGplot2, Dplyr and Shinyapp, that are essential to understand if you want to use R effectively.

—[Matthew D.](#)

- One more resource to mention is Vinh Nguyen's excellent [IRexamples](#) package. While not really a tutorial/introduction to R, it has four examples or projects that are often encountered in institutional research. Each example shows step by step results and interpretations. This could be helpful when learning R as it is project based on a familiar data structure. Not to mention some cool statistical stuff like Bayesian multi-level models

—[Loris Fagioli](#)

- I created the following for both RP workshops and summer institutes with others. It all started circa 2016 with summer institute. There are videos and faux data sets. Some you might see here as part of this year's summer institute. Also, I am sharing a link of dashboards you can create with R. Let me know if you have any interest in it.

- [Resources](#)
- [Example report](#)
- [Moreno Valley College Data Library](#)

—[Jake Kevari](#)

- *R Showcase & Discussion* PIER to PIER session from August 25th. Here is a link to the recording to experience this dynamic session all over again. Below are links to resources, slide decks, and tutorials so graciously shared by the session presenters:
 - [Reading COMIS Data](#) - Christian Million, Yosemite CCD
 - [Code & Demos](#) - Lauren Ilano & Vinh Nguyen, Irvine Valley
 - [Shiny Dashboards](#) - Paul Mainz , Cosumnes River
 - [Graphic Theming Resources](#) - Jessica LaCourse, Sierra