Crash Course

Consult the following resources to learn more about R programming:

Statistical Inference via Data Science: A ModernDive into R and the Tidyverse by Chester Ismay and Albert Y. Kim (CRC Press, 2020), <https://moderndive.com/>

Getting Started with R, course, <https://rfortherestofus.com/courses/getting-started/>

Data Viz

Consult the following resources to learn more about data visualization principles and the ggplot2 package:

Data Visualization: A Practical Introduction by Kieran Healy (Princeton University Press, 2018), <https://socviz.co>

Fundamentals of Data Visualization by Claus Wilke (O'Reilly Media, 2019). <https://clauswilke.com/dataviz/>

ggplot2: Elegant Graphics for Data Analysis by Hadley Wickham, Danielle Navarro, and Thomas Lin Pedersen (Springer, Forthcoming), <https://ggplot2-book.org>

Graphic Design with ggplot2 by Cédric Scherer (CRC Press, Forthcoming)

The Glamour of Graphics course by Will Chase, <https://rfortherestofus.com/courses/glamour/>

Custom Themes

Consult the following resources to learn more about how the BBC created and used their custom theme:

BBC Visual and Data Journalism cookbook for R graphics (2019), <https://bbc.github.io/rcookbook/>

How the BBC Visual and Data Journalism team works with graphics in R by BBC Visual and Data Journalism team (2019), <https://medium.com/bbc-visual-and-data-journalism/how-the-bbc-visual-and-data-journalism-team-works-with-graphics-in-r-ed0b35693535>

Maps

Consult the following resources to learn how to make maps and conduct geospatial analysis in R.

Geocomputation with R by Robin Lovelace, Jakub Nowosad, and Jannes Muenchow (CRC Press, 2019), <https://r.geocompx.org/>

Chapter 7 (Draw Maps) of Data Visualization: A Practical Introduction by Kieran Healy (Princeton University Press, 2018), <https://socviz.co>

Lessons on Space from Data Visualization: Use R, ggplot2, and the principles of graphic design to create beautiful and truthful visualizations of data, course by Andrew Weiss (2022), <https://datavizs22.classes.andrewheiss.com/content/12-content/>

Tables

Consult the following resources to learn about table design principles and how to make high-quality tables with the gt package:

Ten Guidelines for Better Tables by Jon Schwabish (Journal of Benefit-Cost Analysis, 2020), <https://doi.org/10.1017/bca.2020.11>

10+ Guidelines for Better Tables in R by Tom Mock (2020), <https://themockup.blog/posts/2020-09-04-10-table-rules-in-r/>

Creating beautiful tables in R with {gt} by Albert Rapp (2022), <https://gt.albert-rapp.de/>

R Markdown

Consult the following resources, which are great general guides on how to use R Markdown:

R Markdown: The Definitive Guide by Yihui Xie, J. J. Allaire, and Garrett Grolemund (CRC Press, 2019), <https://bookdown.org/yihui/rmarkdown/>

R Markdown Cookbook by Yihui Xie, Christophe Dervieux, Emily Riederer (CRC Press, 2021), <https://bookdown.org/yihui/rmarkdown-cookbook/>

Parameterized Reporting

Consult the following resources to learn how the Urban Institute has created parameterized reports and how you can make them yourself:

Using R Markdown to Track and Publish State Data by Data@Urban team (2021), <https://urban-institute.medium.com/using-r-markdown-to-track-and-publish-state-data-d1291bfa1ec0>

Iterated fact sheets with R Markdown by Data@Urban team (2018), <https://urban-institute.medium.com/iterated-fact-sheets-with-r-markdown-d685eb4eafce>

xaringan

Consult the following resources to learn how to make high-quality slides presentations in R with the xaringan package.

Sharing Your Work with xaringan: An Introduction to xaringan for Presentations: The Basics and Beyond by Silvia Canelón (2020), <https://spcanelon.github.io/xaringan-basics-and-beyond/index.html>

Professional, Polished, Presentable: Making Great Slides with xaringan, workshop materials by Garrick Aden-Buie, Silvia Canelón, and Shannon Pileggi (2021), <https://presentable-user2021.netlify.app/>

Meet xaringan: Making slides in R Markdown by Alison Hill (2019), <https://arm.rbind.io/slides/xaringan.html>

Chapter 7 (xaringan Presentations) of R Markdown: The Definitive Guide by Yihui Xie, J. J. Allaire, and Garrett Grolemund (CRC Press, 2019), <https://bookdown.org/yihui/rmarkdown/>

Websites

Consult the following resources to learn how to make websites with the distill package and to see examples of other websites made with distill:

Building a blog with distill by Tom Mock (2020), <https://themockup.blog/posts/2020-08-01-building-a-blog-with-distill/>

The Distillery website, showcasing websites made with distill,<https://distillery.rbind.io/>

Quarto

Consult the following resources to learn the fundamentals of Quarto:

Get Started with Quarto, workshop materials by Tom Mock (2022), <https://jthomasmock.github.io/quarto-in-two-hours/>

From R Markdown to Quarto, workshop materials by Andrew Bray, Rebecca Barter, Silvia Canelón, Christophe Dervieu, Devin Pastor, and Tatsu Shigeta (2022), <https://rstudio-conf-2022.github.io/rmd-to-quarto/>

Accessing Online Data

Consult the following resources to learn how to access data from Google Sheets using the googlesheets4 package and from the Census Bureau using the tidycensus package:

Automated survey reporting with googlesheets4, pins, and R Markdown by Isabella Velásquez and Curtis Kephart (2022), <https://posit.co/blog/automated-survey-reporting/>

Analyzing US Census Data: Methods, Maps, and Models in R by Kyle Walker (CRC Press, 2023), <https://walker-data.com/census-r/>

Packages

Consult the following resources to learn how to make your own packages in R:

R Packages, Second Edition by Hadley Wickham and Jennifer Bryan (O'Reilly Media, Forthcoming), <https://r-pkgs.org/>

Package Development with R, course by Malcolm Barrett, <https://rfortherestofus.com/courses/package-development-course/>