R for Educators Resources

Rstudio Setup

Create an account: https://rstudio.cloud/plans/free

Login: https://login.rstudio.cloud/

Workshop Project: https://rstudio.cloud/project/4044219

Workshop Materials

Github: https://github.com/chrisjcameron/r_for_edu/

Slides: https://github.com/chrisjcameron/r_for_edu/blob/main/R_for_educators_slides.pdf

Demos: The demos from the workshop are available as annotated R files in the project folder on Rstudio (and on GitHub). (*20_minutes_to_R.Rmd, examining_data.Rmd, data-analysis-xsede-may2022.Rmd)*

More information

R packages on CRAN by area: https://cran.r-project.org/web/views/

Installing R for Jupyter Notebooks: https://irkernel.github.io/installation/
If you already use Jupyter, you can install the R jupyter kernel to use R in the familiar notebook environment. If you are on macOS, read the yellow warning box on the linked page.

Cornell Virtual Workshop in R: https://cvw.cac.cornell.edu/R/

CVW offers free self-paced, text-based modules covering a variety of computational focused topics. The CVW R topic complements today's workshop and covers using R on multiple cores and on supercomputer infrastructure.

Using R for teaching and research: https://www.chrisbail.net/teaching

Chris Bail's work is a good example of incorporating R into teaching and research at undergraduate and graduate levels. Dr. Bail uses R for most aspects of his data collection and analysis.

RStudio Cheatsheets: https://www.rstudio.com/resources/cheatsheets/

Thoughtfully designed, single-page, double-sided reference sheets for major R packages.

eBooks:

R for Data Science, Hadley Wickam and Garrett Grolemund - https://r4ds.had.co.nz
Advanced R (Programming), Hadley Wickam - https://adv-r.hadley.nz