

Download and Install R & RStudio

Resources provided by; Marina Villoch & Dr. Allyson DeMerlis

- R software (download and installation: <https://cran.r-project.org/index.html>)
- RStudio: <https://www.rstudio.com/products/rstudio/#rstudio-desktop>

Introduction to Coding

- Software Carpentry designs workshops specifically for teaching research computing: <https://software-carpentry.org/>
- Data Carpentry designs workshops for data-driven research: <https://datacarpentry.org/>

Introduction to R

Online Courses/Workshops

- RStudio resources for beginners: <https://education.rstudio.com/learn/beginner/>
- Modern Dive: <https://moderndive.netlify.app/1-getting-started.html>
- Data camp R tutorial: https://www.datacamp.com/community/tutorials/r-data-import-tutorial?utm_source=ad_words_ppc&utm_campaignid=1565261270&utm_adgroupid=67750485268&utm_device=c&utm_keyword=&utm_matchtype=b&utm_network=g&utm_adposition=&utm_creative=295208661514&utm_targetid=dsa-473406573035&utm_loc_interest_ms=&utm_loc_physical_ms=9011881&gclid=CjwKCAjwmeilBhA6EiwA-uaeFcia2q0--pTAIL3uJSccsuQXFPRUREmySx7hr6IFnme847CToMRFFhoCvmUQAvD_BwE#Getting
- Learn R, in R! An interactive tutorial - I HIGHLY RECOMMEND: <https://swirlstats.com/>
- **StatQuest** for all things statistical analyses AND DNA/RNA sequencing! What a pro! <https://statquest.org/video-index/>
- Coursera free online course on R programming: <https://www.coursera.org/learn/r-programming>
- A fun R advent calendar, "25 Days of R" for an intro: <https://kiirstio.wixsite.com/kowen/post/the-25-days-of-christmas-an-r-advent-calendar>
- Harvard Introduction to R Workshop: <http://tutorials.iq.harvard.edu/R/Rintro/Rintro.html>
- Rmarkdown tutorial: <https://ourcodingclub.github.io/tutorials/rmarkdown/>
- Interactive tutorial called "learnr"
 - filter(): <https://learnr-examples.shinyapps.io/ex-data-filter/>
 - summarise(): <https://learnr-examples.shinyapps.io/ex-data-summarise/#section-summarise-groups-with-summarise>

Free Books!

- *Fundamentals of Data Visualization* by Claus Wilke: <https://serialmentor.com/dataviz/>
- *R for Data Science* by Garrett Grolemund and Hadley Wickham:
<https://r4ds.had.co.nz/>

Online Coding Club - Amazing resource with step-by-step R code for tidying data and data visualization!

- <https://ourcodingclub.github.io/>

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