

Introduction to R

Graphical Analysis of Biological Data

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Read

As a reminder, R4ds is our textbook, *R for Data Science*. The book is written for people who want to develop a career in [data science](#), which applies computer science and scientific methods to data analysis, often to so-called “big data” sets.

We will not be going that far down the rabbit hole. We will peer into the hole, But, this is a good book written by the authors of the R packages we will use throughout this course and it provides many examples and exercises that we will apply to biological data.

[R4ds: Chapter 1](#)

We will focus on making data tidy, transforming and wrangling data, and visualizing it (section 1.1). We will leave modeling to the data scientists and your own future development.

Note: Section 1.4: Prerequisites mentions that having some programming skills is helpful, it is not essential for this course. You will learn those programming skills as part of this course. I will try to clarify places where I think it might get a bit too far down the rabbit hole. You can also ask questions in the [internal discussion](#) repo on the course website.

[R4ds: Chapter 2](#)

[R4ds: Chapter 4](#) covers material related to the assignment. After you complete the assignment, you should try to answer questions 1 and 3 in Section 4.4: Practice. Question 2 might not make sense until after we finish Chapter 3.

[R4ds: Chapter 6](#) where you can practice some of your new-found R skills in RStudio. Practice some of the code from [Chapter 4](#) in RStudio. Find some other code online and practice with it. I stress again that typing code again and again is the best way to learn it.

Remember in [Notes 01](#), I said to “save that which is real?” [R4ds: Chapter 8](#) ties that philosophy to R Projects and organization of your R scripts. Study this chapter carefully and follow it closely.

On to [the assignment!](#)