



1.3.6: Putting Reproducible Research Principles Into Practice

(Asynchronous-Online)

COMING SUMMER 2025

Module “1.3.6: Putting Reproducible Research Principles Into Practice” will be posted prior to the In-Person Workshops in Summer 2025.

Session Objectives

1. Discuss reproducible research principles.
2. Apply reproducible research principles to data analysis using R Markdown.

Key points to cover:

1. Reproducible research principles
2. What is R Markdown
3. How to create a report using R Markdown
 - Customize the layout of presentations or reports
 - Insert and create objects, such as tables, images, or videos, within a document

R Core Team. 2024. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. <https://www.R-project.org/>.

Wickham, Hadley. 2016. *Ggplot2: Elegant Graphics for Data Analysis*. Springer-Verlag New York. <https://ggplot2.tidyverse.org>.

Wickham, Hadley, Winston Chang, Lionel Henry, Thomas Lin Pedersen, Kohske Takahashi, Claus Wilke, Kara Woo, Hiroaki Yutani, Dewey Dunnington, and Teun van den Brand. 2024. *Ggplot2: Create Elegant Data Visualisations Using the Grammar of Graphics*. <https://ggplot2.tidyverse.org>.

Wickham, Hadley, Romain François, Lionel Henry, Kirill Müller, and Davis Vaughan. 2023. *Dplyr: A Grammar of Data Manipulation*. <https://dplyr.tidyverse.org>.