

# Open Science Practices: Implementing a Reproducible Analysis Workflow

SoSe2024

Daniela Palleschi  
Humboldt-Universität zu Berlin

2023-04-12

# Overview

- Welcome!
- Course Moodle
  - Learning objectives
  - What you will not learn in this book
  - Course credits

# Welcome!

- the language of instruction is English
- you will need a laptop in class from May 6h
- and a recent installation of
  - R
  - RStudio
  - tinyTex

# Course Moodle

Course name: Open Science Practices: Implementing a Reproducible Analysis Workflow

Enrolment Key: r4repro

- course documents are available as HTML slides and PDF
- a course website will be up and running shortly

# Learning objectives

- learn basic concepts of Open Science in the scope of language research
  - focus on reproducible analysis
- create and maintain self-contained analyses projects
- develop good habits for project management
- learn how to transparently write up analyses for a paper or thesis
- learn about concepts like version control and containerization

# What you will not learn in this book

- how to analyse data
- how to fit models
- how to plot data
- how to design an experiment
- we will not explicitly learn how to do these things, although we will be running simple code to achieve these goals

# Course credits

- 4 LP
  - 1LP: participation and readings
  - 1LP: in-class exercises and preparation
  - 1LP: 2 in-class quizzes (0.5LP each)
  - 1LP: a pre-registration (1LP)

# Session Info

Save your session info at the end of each document. Our results very often depend on the version of R/RStudio/a package we used. This is a great first step towards creating a reproducible workflow!

```
R version 4.3.0 (2023-04-21)
Platform: aarch64-apple-darwin20 (64-bit)
Running under: macOS Ventura 13.2.1
```

```
Matrix products: default
BLAS:   /Library/Frameworks/R.framework/Versions/4.3-arm64/Resources/lib/libRblas.0.dylib
LAPACK: /Library/Frameworks/R.framework/Versions/4.3-arm64/Resources/lib/libRlapack.dylib; LAPACK version 3.11.0
```

```
locale:
[1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
```

```
time zone: Europe/Berlin
tzcode source: internal
```

```
attached base packages:
[1] stats     graphics  grDevices  utils      datasets  MASS      
```



# References

