Introduction to R

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Chapter 1

Prerequisites

This is a *sample* book written in **Markdown**. You can use anything that Pandoc's Markdown supports, e.g., a math equation $a^2 + b^2 = c^2$.

The **bookdown** package can be installed from CRAN or Github:

```
install.packages("bookdown")
# or the development version
# devtools::install_github("rstudio/bookdown")
```

Remember each Rmd file contains one and only one chapter, and a chapter is defined by the first-level heading `#`.

To compile this example to PDF, you need XeLaTeX. You are recommended to install TinyTeX (which includes XeLaTeX): https://yihui.name/tinytex/.

Chapter 2

What is R ?

- Programming language and environment for **data manipulation**, **statistical computing**, and **graphical display**.
- Implementation of the S programming language
- Created at the University of Auckland, New Zealand:
  - Initial version released in 1995
  - Stable version released in 2000
- **Free and open source !**
  - https://www.r-project.org/
- Interactive, flexible
- Very active community of developers and users!
  - Many resources and forums available
- Access through a command-line interpreter:

Chapter 3

R Studio

- Free and open source IDE (Integrated Development Environment) for R
- Available for Windows, Mac OS and LINUX

RStudio access

- RStudio Desktop installation
- RStudio access from the CRG server
  - Access with CRG credentials
  - For those who don't have access to the CRG server, use the guest accounts.