

R basics for Research

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8/16/2022

Table of contents

| | |
|---|----------|
| Preface | 3 |
| 1 Setting things up | 4 |
| 1.1 Installing R | 4 |
| 1.2 Installing RStudio | 4 |
| 1.3 Rstudio tour | 4 |
| 1.4 Installing Packages | 4 |
| 1.5 Installing Rmarkdown | 4 |
| 1.6 Creating a Script | 4 |
| 1.7 Creating a Rmarkdown Document | 4 |
| 1.8 Creating a Project | 4 |
| 2 Getting Started with R | 5 |
| 2.1 R as a calculator | 5 |
| 2.2 Data with R | 5 |
| 2.2.1 Loading Data | 5 |
| 2.2.2 Data Structures & Types | 5 |
| 3 Data Wrangling with Tidyverse | 6 |
| References | 7 |

Preface

This book is a gentle introduction on how to program in R. Hands-on examples show challenges that researchers frequently face and how to overcome common issues associated to data wrangling and visualization.

1 Setting things up

1.1 Installing R

see Grolemund (2014)

1.2 Installing RStudio

1.3 Rstudio tour

1.4 Installing Packages

1.5 Installing Rmarkdown

Xie, Allaire, and Grolemund (2018)

1.6 Creating a Script

1.7 Creating a Rmarkdown Document

1.8 Creating a Project

2 Getting Started with R

2.1 R as a calculator

2.2 Data with R

2.2.1 Loading Data

2.2.2 Data Structures & Types

3 Data Wrangling with Tidyverse

TBD

References

- Grolemund, Garrett. 2014. *Hands-on Programming with r: Write Your Own Functions and Simulations*. " O'Reilly Media, Inc."
- Xie, Yihui, Joseph J Allaire, and Garrett Grolemund. 2018. *R Markdown: The Definitive Guide*. Chapman; Hall/CRC.