

R Training - Introduction

Ege Ülgen, M.D.



- R is a programming language and environment for **statistical computing** and **graphics**
- interactive data analysis
- high-level programming language
- **Packages** for almost everything:
 - Data processing and cleaning
 - Data visualization
 - Interactive web-apps
 - Machine learning routines
 - ...

Installing R, RStudio

- Install R:
<https://cran.r-project.org/>
- Install RStudio:
<https://www.rstudio.com/products/rstudio/download/>

More Resources for learning R

- An Introduction to R

Comprehensive introduction to base R. Go-to guide

<https://cran.r-project.org/doc/manuals/r-release/R-intro.pdf>

- RStudio Cheat Sheets

Cheatsheets for numerous packages

<https://www.rstudio.com/resources/cheatsheets/>

- R for Data Science

Introduction to data analysis using using R, focused on tidyverse packages

<http://r4ds.had.co.nz/>

- Data Visualization – A Practical Introduction

Textbook on data visualization, using ggplot2

<http://socviz.co/>