

# Introduction to R

## Getting started with R

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# COURSE OBJECTIVES

- Perform your data analysis in a literate programming environment
- Import and manage structured and unstructured data
- Manipulate, transform, and summarize your data
- Join disparate data sources
- Methodically explore and visualize your data
- Perform iterative functions
- Write your own functions

... all with R!

# Introduction round

Please tell me shortly...

- Where are you from? What are you studying/working?
- What is your experience level in R/other programming languages?
- What are your expectations of this course?
- Where do you think you can use R in the future?

# Preliminaries

- Usually we have big differences in knowledge and abilities of the participants - please tell, if it is too fast or slow.
- We have lots of hands-on coding **exercises** - at the end you can only learn on your own.
- We have many **examples** - try them.
- If there are questions - always ask.
- R is more fun together - ask your neighbor - strong proponent of collaborative work!

# Sources of this course

## Sources for figures, text, exercises etc:

- If the source is a website, the links are often in the header or in pink somewhere on the slide.
  - At the end of a chapter, you`ll find additional links to read on.
  - Please ask, if something is unclear.
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## Reasons for using R...

- ... because it is an **open source language**
  - ... outstanding graphs - **graphics, graphics, graphics**
  - ... relates to other languages - **R can be used in combination with other programs** - e.g. **data linking**
  - ...R can be used **for automation**
    - ... Vast Community - **you can use the intelligence of other people ;-)**
  - ...
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# Shiny App - Intro R

www.intro-stats.com

