

R intro spring 2021 revisions

Content

What is R and why use it?

A short demo

Introducing the RStudio environment

Basic object assignment (`<-`)

Functions and packages

Data frames

- Exercise: Load data

Vectors

Descriptive measures (summary, min, max, mean)

- Exercise: Calculate the mean of a vector in the data

Subsetting data (using base R)

- Sidenote on logicals

Subsetting data (using dplyr)

- Exercise: Create a subset

Creating variables (using base R)

Creating variables (using dplyr)

- Exercise: Create a variable

Classes (one column being imported as text)

- Note on how values in a vector/column are always the same type
- Exercise: Coerce character vector to numeric
- Sidenote: What happens when a value can't be coerced - introducing `NA`

Visualization with `ggplot2`

- Exercise: Create a visualization

Saving

- Saving script
- Exporting data as csv

Data: ESS2018DK

Variables

- idno
- netustm
- ppltrst
- vote
- prtvtdk
- lvpntyr
- tygrtr
- gndr
- yrbrn
- edlvddk
- eduys
- wkhct
- wkhtot
- inwtm
- frlgrsp
- grspnum

Mulige øvelser

- Aldersvariabel
- Antal år været flyttet hjemmefra
- Difference mellem antal timer ansat til og antal timer arbejdet
- Antal tid brugt på nettet i timer
- Difference mellem egen løn og vurderet rimelig løn for en selv