RMarkdown

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What is R Markdown?

Markdown = Language for text fomrmatting

- Markdown
- an easy to write plain text format for creatin dynamic documents and reports
- contains "normal" text and code chunks (e.g. R, but Python, SQL, and more also possible)
- RMD -> MD -> html, Docx or PDF
- Formatting documents outside the analysis

Creating a document that can contain both text and code:

- When creating ("knitting"), the code is executed and displayed together with the description.
- Only a document with out warnings/errors can be knitted.
- Possible to export a Word, HTML or PDF file.

Approach

1. Open RStudio -> File -> New File -> R Markdown
2. Enter a title for the document (optionally enter an author)
3. Choose an output format
4. YAML Headline: Final choice of your output format
5. Write the markdown
6. Embed Code
7. Rendering Output
   - RStudio: “Knit” (Ctrl+Shift+K)
   - Command line: rmarkdown:: render(“input.Rmd”)

Installation

Before you start, make sure you have installed the rmarkdown package

```
install.package("rmarkdown")
```

Choose the output format

- You can shoose between HTML, PDF and Docx(Word)
  - **HTML** is recommeneded, since everybody can read it
- You can always change your output format, in the YAML Header

Embed your code

inline code

The mean speed of cars is (`r mean(cars$speed)`) 15.4.

code chunk

{r cars, echo=TRUE}

```
summary(cars)
```

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```