

# **rmd2report: Homework #1**

Rmarkdown template for reports of assignments

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# 1 My Section Header 1

안녕하세요. 저는 통계학을 공부하고 있는 김현성입니다.

$$x \times y = \alpha$$

Please see the documentation of [RMarkdown](#) for more details on how to write RMarkdown documents.

Download a testlogo from here: <https://raw.githubusercontent.com/sebastiansauer/yart/master/docs/logo.png> and uncomment the respective line in the header.

For finetuning of design options, please check the tex template. There you will find some variables such as `$classoption$`. Those variables may be addressed in the yaml header of the yart file.

## 1.1 My Section Header 2

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Nullam eget dapibus quam, sit amet sagittis magna. Nam tincidunt, orci ac imperdiet ultricies, neque metus ultrices quam, id gravida augue lacus ac leo.

Vestibulum id sodales lectus, sed scelerisque quam. Nullam auctor mi et feugiat commodo. Duis interdum imperdiet nulla, vitae bibendum eros placerat non. Cras ornare, risus in faucibus malesuada, libero sem fringilla quam, ut luctus enim sapien eget dolor.

- Aufzählungen (nummeriert oder nicht) sind möglich.
- Sonderzeichen werden unterstützt: äüß.
- $\text{\LaTeX}$  wird unterstützt.

- Und damit auch “schöne” Formeln:  $e^{\ln(e)} = e$  (stimmt das?).
- Ein Überblick zur **Markdown-Syntax** findet sich [hier](#).
- Ein paar Gimmicks: H<sub>2</sub>O, ~~This is deleted text.~~, *feasible*, not *feasable*, lang—ganz lang.
- Use `\ts` as a shorthand for `\thinspace` to get “z.B.” instead of “z. B.” (thin space between the two letters)
- Footnotes are supported<sup>1</sup>.
- Zitationen sind möglich, im beliebigen Format, z.B. APA6. Das Format wird über die Variable `cls` definiert (im Kopfteil oben). Die entsprechende Datei muss im gleichen Ordner liegen wie diese Rmd-Datei. Die Datei mit den bibliographischen Informationen wird über die Variable `bibliography` angegeben. Auch diese Datei muss sich im gleichen Ordner befinden wie diese Rmd-Datei.
- Besonders schön ist es, dass man [R](#) direkt einbinden kann über [knitr](#). [Hier](#) findet sich eine gute Anleitung.

We report how we determined our sample size, all data exclusions (if any), all manipulations, and all measures in the study.

## 2 R-Code

So bindet man R-Code ein:

```
x <- c(1,2,3)
mean(x)
```

```
## [1] 2
```

## 3 Citation

Put the file with the references in the same folder as the rmd-file. Uncomment/insert a line in the yaml header such as `bibliography: bib.bib`, where `bib.bib` is the name of your bib-file.

---

<sup>1</sup>Fußnoten sind bei Pandoc eine Art von Links.

Similarly, if you want to format the citation in a certain style, put the respective csl-file in the same folder as this document and uncomment/insert this line in the yaml header: `csl: apa6.csl`, where `apa6.csl` is the style file.

Use this format for citation: `[@bibtexkey]`. Put all the bibliography data in one bibliography file.

Don't forget to cite software and data. R and R packages can be cited in the following way:

```
citation()
citation("rmarkdown")
```

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## 4 Tabellen

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So erstellt man “von Hand” eine Tabelle in Markdown:

---

Right	Left	Center	Default
-----	-----	-----	-----
12	12	12	12
123	123	123	123
1	1	1	1

Table: Table caption

Das ist das Ergebnis:

Table 1: Table caption			
Right	Left	Center	Default
12	12	12	12
123	123	123	123
1	1	1	1

There are comfortable and powerful R packages available for rendering markdown tables such as Huxtable, or xtable, and other.

Table with R package `xtable`; note that this package needs to be installed to run this example.

```
data(mtcars)

library(xtable)
print.xtable(
  xtable(head(daten),
    label="tab:daten",
    caption="Datenstruktur für eine within-Analyse"),
  comment=FALSE)
```

## 5 Figures

Use knit to insert images. Figures can be referenced, too.

## 6 References

[If some literature is cited, it appears here]