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- Example manuscript demonstrating the use of the papar template
- Frederik Aust
 - University of Cologne
- The papar-template, helper functions and further instructions can be retrieved from
- https://github.com/crsh/papar.

6 Abstract

⁷ This example manuscript demonstrates how to use RStudio and RMarkdown to produce an

- 8 APA conform manuscript. Using pandoc your RMarkdown can be converted to HTML, PDF,
- 9 or Word documents. At this point, only PDF documents adhere to the APA mansucript
- 10 guidelines.

Example manuscript demonstrating the use of the papar template

What is this?

As you may have heard, recently, there has been a growing interest in reproducible research. Reproducible data analysis is an easy to implement and important aspect of the strive towards reproducibility. For R users, RMarkdown has been suggested as one possible framework for reproducible analyses. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. This example document assumes you have hoped onto the band wagon and know how to use RMarkdown to conduct and comment your analyses. If you're new to RMarkdown, I recommend you get to grips with it first.

I use RStudio (which makes use of pandoc) to create my documents, but the general process should work when using pandoc directly from the command line.

How do I use this?

With the papar-template, when you click RStudio's *Knit* button an APA conform
manuscript will be generated that includes both your text and the output of any embedded
R code chunks within the manuscript.

26 Printing R output

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Any output from R is included as you usually would using RMarkdown.

summary(cars)

```
##
            speed
                              dist
               : 4.0
                                    2
       Min.
                        Min.
                                :
   ##
       1st Qu.:12.0
                        1st Qu.: 26
   ##
30
       Median:15.0
                        Median: 36
   ##
31
```

```
32 ## Mean :15.4 Mean : 43
33 ## 3rd Qu.:19.0 3rd Qu.: 56
34 ## Max. :25.0 Max. :120
```

For prettier tables, I suggest you have a look at my helper function apa.table() in
the papar repository. Of course, e.g., the popular xtable package can also be used to create
tables. Unfortunately, xtable() captions are set to the left page margin (for an example,
see last page of this document). apa.table() fixes this problem. As required by the APA
guidelines, tables are on the final pages of the manuscript.

```
library("xtable")
print(
    xtable(summary(cars), caption = "Prettier table created using xtable.
        Note the caption is set to the left page margin
        instead of aligning wit the table. :(")
, comment = FALSE
, booktabs = TRUE
, caption.placement = "top"
, include.rownames = FALSE
)
```

You can also embed plots, for example:

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```
plot(cars)
```

As required by the APA guidelines, figures, too, are printed to the final pages of the document.

43 Citations

You can insert citations like this:

```
[e.g., @bauer_2014; @bem_2011] \rightarrow (e.g., Baumer, Cetinkaya-Rundel, Bray, Loi, & Horton, 2014; Bem, 2011).
```

- 47 Citing without parentheses is, of course, also possible:
- ⁴⁸ Obauer_2014 \rightarrow Baumer et al. (2014).
- The citation style is set in the header of this document with the csl parameter. The relevant references will, of course, be added to the documents references automatically. In order for citations to work, you need to supply a .bib-file to the bibliography parameter in the document header. See the RMarkdown documentation and Citation Style Language for further details.

54 Document options

- This text is set as manuscript. If you want a thesis-like document you can change the classoption in the document header from man to doc. You can also preview a polished journal typesetting by changing the classoption to jou.
- Line numbering can be deactivated in by removing the lineno argument from the header of this document.

60 Last words

That's all I have. Enjoy writing your manuscript. If you have any trouble or ideas for improvements, open an issue on GitHub or make a pull request with the fix. ;)

References

- Baumer, B., Cetinkaya-Rundel, M., Bray, A., Loi, L., & Horton, N. J. (2014). R
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- 66 E-Prints. Retrieved from http://adsabs.harvard.edu/abs/2014arXiv1402.1894B
- Bem, D. J. (2011). Feeling the future: experimental evidence for anomalous retroactive
- influences on cognition and affect. Journal of Personality and Social Psychology, 100(3),
- 69 407—425. doi:10.1037/a0021524

Table 1

Prettier table created using xtable. Note the caption is set to the left page margin instead of aligning wit the table. :(

speed	dist
Min.: 4.0	Min. : 2
1st Qu.:12.0	1st Qu.: 26
Median :15.0	Median: 36
Mean :15.4	Mean: 43
3rd Qu.:19.0	3rd Qu.: 56
Max. :25.0	Max. :120

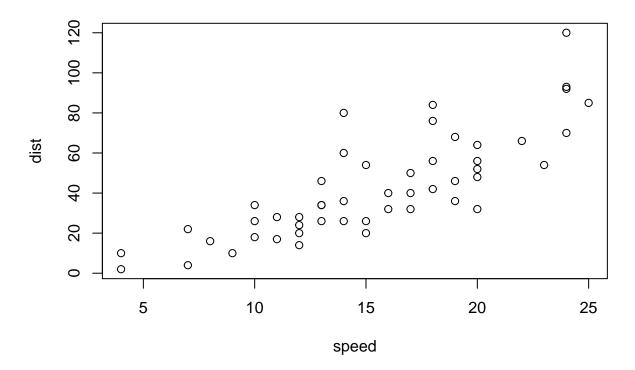


Figure 1. Exmple figure created by in-document R code.