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Zusammenfassung

Der Abstract wird direkt im YAML Header geschrieben.

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1 Rmarkdown Template

1.1 R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

summary(cars)

```
##
        speed
                          dist
##
    Min.
            : 4.0
                            :
                               2.00
                    Min.
##
    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
```

1.2 Including Plots

You can also embed plots, for example:

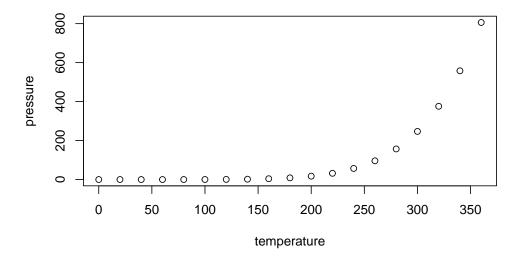


Abbildung 1: Pressure

Note that the echo = FALSE parameter was added to the code chunk to prevent

printing of the R code that generated the plot. You can label the plot above by including the label \\label{fig:pressure} in the chunk argument fig.cap. A

reference to the plot is then made as follows:

Looking at Figure 1 makes me happy.

1.3 The YAML Header

The YAML Header is at the very top of this document. It is enclosed in 3 dashes.

Although there are already some options specified you might want to change some

additional things. Here are some useful things that we have implemented for you.

1.3.1language

You can either set this to english or german. If the language is not specified in

the YAML header it will use english e.g.:

language: english

language: german

This variable affects mainly the headings of your output file.

1.3.2 linespread

The default value for the linespread is 1.5. Usually this is fine and sometimes it's

required. If you nevertheless want to change it you can do so by specifying the

linespread variable. E.g.:

linespread: 1

2 How Rmarkdown makes your life easy

2.1 The kable function

In Empirical work it's crucial not only to present your results but also to explain

your research strategy. Often times that involes creating tables to present the used data and creating tables to show your results. Creating tables (e.g. in Latex)

by hand is hard and time consuming but there are a variety of packages out there

that can automate this job for you. One of them is the kable package. It can

produce Latex tables from a variety of R Objects.

Consider the following Example: you are working on an analysis of black cherry

trees and want to present n observations to the reader You can do that using the

knitr::kable() function.

2

Tabelle 1: 6 Observations from the trees Dataset

Diameter	Height	Volume
17.5	82	55.7
11.1	80	22.6
14.0	78	34.5
16.3	77	42.6
11.4	76	21.0
11.0	75	18.2

Now that we have presented our data it's analysis time! Lets start with a quick call to summary().

2.2 The Stargazer package

Calling summary() in a code chunk will work but this will give you quite an ugly result (just try it for yourself!). When it comes to presenting more structured objects like summaries, model results or for example correlation matrices the stargazer package is well suited.

Tabelle 2: Summary

Statistic	N	Mean	St. Dev.	Min	Max
Girth	31	13.248	3.138	8.300	20.600
Height	31	76.000	6.372	63	87
Volume	31	30.171	16.438	10.200	77.000

Assume we want to evaluate how the height and the volume of a typical cherry tree are related. We are estimating this using OLS to estimate a simple linear model.

Now that we have our model we can visualize it.

Tabelle 3: Regression results

	Dependent variable:
	Volume
Height	1.543***
	(0.384)
Constant	-87.124***
	(29.273)
Observations	31
\mathbb{R}^2	0.358
Adjusted R^2	0.336
Residual Std. Error	13.397 (df = 29)
F Statistic	$16.164^{***} (df = 1; 29)$
\overline{Note} :	*p<0.1; **p<0.05; ***p<

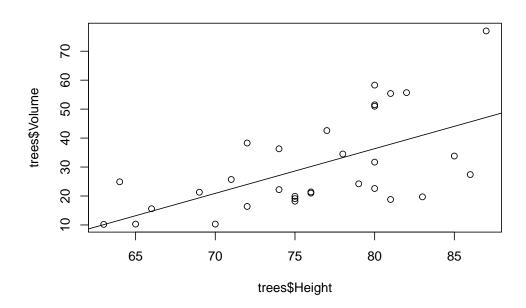


Abbildung 2: Dataset and regression

3 Aufzählung

- Hallo
- World

3.1 Citations

The a *bibtex* bibliography can be used for citations. The file name of the bibliography used in this template is references.bib

You can cite a source like this: (Keil et al., 2012) or Litterman (1986).

A cited source will be automatically added to the end of the document.

References

- Keil, P., Belmaker, J., Wilson, A. M., Unitt, P., & Jetz, W. (2012). Downscaling of species distribution models: a hierarchical approach (R. Freckleton, Hrsg.). Methods Ecol Evol, 4(1), 82–94. https://doi.org/10.1111/j.2041-210x.2012.00264.x
- **Litterman**, **R. B.** (1986). Forecasting with Bayesian Vector Autoregressions: Five Years of Experience. *Journal of Business & Economic Statistics*, 4(1), 25. https://doi.org/10.2307/1391384

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