



University of Stuttgart
Germany



Bachelor's Thesis

This Shall be a Great Thesis Paper with an Extremely Long Title but who Cares

Some theses even have subtitles

submitted by

Maschinen Bauer

1234567

on

28th July 2015

Draft

A bachelor's thesis submitted to the faculty Konstruktions-, Produktions- und Fahrzeugtechnik (Maschinenbau) of University of Stuttgart in partial fulfilment of the requirements for the degree of Bachelor of Science (B.Sc.)

Examiner:

Jun.-Prof. Dr.-Ing. Andreas Pott

Major:

Technische Kybernetik

Supervisor:

Dipl.-Ing. Philipp Tempel

Dipl.-Ing. Martin Wehr

In cooperation with:

Fraunhofer IPA





Universität Stuttgart



Bachelorarbeit

Dies soll ein langer Titel der Arbeit sein damit
er extra lang ist aber das macht ja niemandem
etwas aus

Manche Arbeiten haben sogar Untertitel

eingereicht von

Maschinen Bauer

1234567

am

28. Juli 2015

Entwurf

Eine Bachelorarbeit zur Vorlage an der Fakultät Konstruktions-, Produktions- und Fahrzeugtechnik
(Maschinenbau) der Universität Stuttgart zur Erlangung des akademischen Grades Bachelor of Science
(B.Sc.)

Prüfer:

Jun.-Prof. Dr.-Ing. Andreas Pott

Studiengang:

Technische Kybernetik

Betreuer:

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In Kooperation mit:

Fraunhofer IPA



ABSTRACT

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CHAPTER 1

THE VERY FIRST CHAPTER WITH A VERY LONG TITLE JUST TO SEE WHAT IT LOOKS LIKE SINCE IT SPANS MULTIPLE LINES IN THE TOC

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THE MAIN TEMPLATE

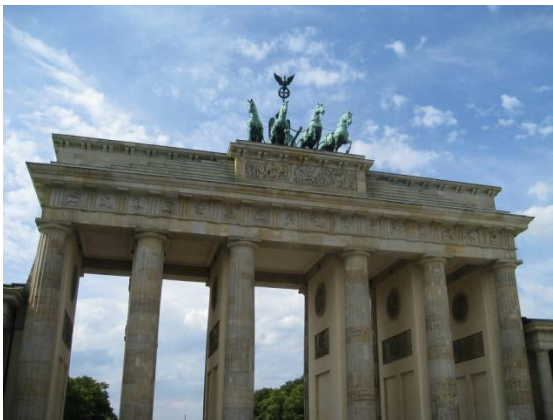
3.1 Document Structure

You are free in organizing your document, however, it is recommended that a certain order of chapters is always obeyed to. The chapters must be given in the following order

1. Titlepage
2. Titlepage in second language (in German or English if thesis written in English or German, respectively)
3. Dedication (not needed)
4. Copyright (not needed)
5. Declaration of Authorship (needed only for student theses)
6. Table of Contents
7. List of Figures
8. List of Tables
9. List of Abbreviations (not needed, textual abbreviations like e.g., CDPR)
10. List of Symbols (not needed, math symbols and alike)
11. Acknowledgments (not needed)
12. Abstract (with keywords)
13. Abstract in second language (in German or English if thesis written in English or German, respectively)
14. The main content (in `\chapter`)
15. Appendix or appendices
16. Bibliography



FIGURE 3.1: *A sample figure of the New York Hotel at Las Vegas, NV, USA showing the effect of a loooong loooooong caption.*



(A) *Picture 1.*



(B) *Picture 2.*

FIGURE 3.2: *Even subfigures of two figures are possible and the left one is referenced like so (a) while the right one is referenced like so (b).*

(A) *Picture 1.*(B) *Picture 2.*(C) *Picture 3.*(D) *Picture 4.*FIGURE 3.3: *Even subfigures of four figures are possible.*TABLE 3.1: *A sample table*

Item		
Animal	Description	Price (\$)
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.50
Emu	stuffed	33.33
Armadillo	frozen	8.99

TABLE 3.2: *Tables can look nice, even for many many data to display*

m	$\Re\{\mathfrak{X}(m)\}$	$-\Im\{\mathfrak{X}(m)\}$	$\mathfrak{X}(m)$	$\frac{\mathfrak{X}(m)}{23}$	A_m	$\varphi(m) / ^\circ$	$\varphi_m / ^\circ$
1	16.128	8.872	16.128	1.402	1.373	-146.6	-137.6
2	3.442	-2.509	3.442	0.299	0.343	133.2	152.4
3	1.826	-0.363	1.826	0.159	0.119	168.5	-161.1
4	0.993	-0.429	0.993	0.086	0.08	25.6	90
5	1.29	0.099	1.29	0.112	0.097	-175.6	-114.7
6	0.483	-0.183	0.483	0.042	0.063	22.3	122.5
7	0.766	-0.475	0.766	0.067	0.039	141.6	-122
8	0.624	0.365	0.624	0.054	0.04	-35.7	90
9	0.641	-0.466	0.641	0.056	0.045	133.3	-106.3
10	0.45	0.421	0.45	0.039	0.034	-69.4	110.9
11	0.598	-0.597	0.598	0.052	0.025	92.3	-109.3

For figures, the guidelines are:

- Always center images using `\centering` as the very first command of the `figure`-environment.
- Make sure to set the width of your included images explicitly using the `width=` option. Have a single figure's width set to `width=0.75\linewidth`, while two figures side by side must be set to `width=\linewidth` as long as you set the width of the surrounding `minipage` or `subfigure` to `0.49\linewidth`
- Don't forget to keep the aspect ratio of images if you change their width.
- Never ever under sample images. In other words: never ever enlarge images.
- It's best to use vector graphics i.e., `*.eps` or `*.tikz` for proper quality in both PDFs as well as on screen.
- Add a caption to your image. Captions must be below the image.
- Let the labels be handled automatically by L^AT_EX. A best practice is to set the prefix of figures' labels to `fig:`.
- For a good example see Fig. 3.1 and its code at ?? (this reference was created using the `\cref{}` command).
- Always add a full stop to your figure captions like so.
- Do not be afraid to use lengthy figure and table captions better than confusing or incomplete ones.
- If your figure or table is essentially the same as or based on another authors, but you recreated or adapted it, it is standard to include the words Adapted from or After followed by the authors name and a citation at the end of the caption.

- Always cite the figure or table if it—or its data—came from a source, using the same citation style that you have used throughout the paper. The most logical place for the citation to appear is at the end of the caption. See Section 3.3 of this manual for a thorough discussion of rules for source citation.
- Do not crowd a table or figure, neither within itself nor within your text; give it room to breathe. When it appears amidst your body text, skip at least one line above and below it.
- Rule of thumb: Try to present the table or figure so that it would make sense even if ripped from the paper.
- If possible, label the axes of graphs with full words: “Temperature versus time” rather than “T versus t.”
- Be certain that your legend—that part of the figure where you define any symbols or other visual markers that appear—is readable, clear, and meaningfully placed. As long as it does not overwhelm the rest of the figure, do not be afraid to make the legend large to enhance its readability.
- Use footnotes (a simple asterisk to indicate them will do) for explanatory material such as the number of respondents to a survey or the fact that certain values were estimated.

For tables, the guidelines are

- The legend (sometimes called the caption) goes above the Table.
- Units are specified in column headings wherever appropriate.
- Lines of demarcation are used to set legend, headers, data, and footnotes apart from one another.
- Footnotes are used to clarify points in the table, or to convey repetitive information about entries.
- Footnotes may also be used to denote statistical differences among groups.

3.2 Coloring

There are a few basic colors that are set for some default coloring of tables and should be used primarily for other things, where applicable.

- very light gray VLGray
- light gray LGray
- medium gray MGray
- dark gray DGray
- vary dark gray VDGray
- very very dark gray VVDGray

3.3 Referencing

Referencing may be done using `\ref{label}` even though usage of `\cref{label}` is encouraged for that it automatically typesets the appropriate type like `Eqn.` or `Fig.`, `Tbl.`, or `Listing` to whatever is being reference. At the beginning of a sentence, `\Cref{label}` must be used to fully give the referenced type in words. Figure 3.1 refers to a sample figure at the beginning of a sentence, while Fig. 3.1 refers to a sample figure in text.

- Capitalise and write in words the reference object at the beginning of a sentence
- Otherwise use the abbreviated forms of `Fig.`, `Eqn.`, and `Tbl.` for referencing figures, equations, and tables, respectively
- Refer to the `cleveref` package documentation at <http://www.ctan.org/pkg/cleveref>

Appendices



APPENDIX ONE

A.1 First Section of Appendix One

A.2 Second Section of Appendix One



APPENDIX TWO

B.1 First Section of Appendix Two

B.2 Second Section of Appendix Two

B.3 Third Section of Appendix Two