

Bachelor's Thesis

Thesis subject

Course of study Bachelor of Science in Computer Science

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- ► Technik und Informatik
- Mikro- und Medizintechnik

Abstract

One-paragraph summary of the entire study – typically no more than 250 words in length (and in many cases it is well shorter than that), the Abstract provides an overview of the study.

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1. First Thesis Chapter

1.1. Introduction

What is the topic and why is it worth studying? – the first major section of text in the paper, the Introduction commonly describes the topic under investigation, summarizes or discusses relevant prior research (for related details, please see the Writing Literature Reviews section of this website), identifies unresolved issues that the current research will address, and provides an overview of the research that is to be described in greater detail in the sections to follow.

1.2. Methods

What did you do? – a section which details how the research was performed. It typically features a description of the participants/subjects that were involved, the study design, the materials that were used, and the study procedure. If there were multiple experiments, then each experiment may require a separate Methods section. A rule of thumb is that the Methods section should be sufficiently detailed for another researcher to duplicate your research.

1.3. Results

What did you find? – a section which describes the data that was collected and the results of any statistical tests that were performed. It may also be prefaced by a description of the analysis procedure that was used. If there were multiple experiments, then each experiment may require a separate Results section.

2. Second Thesis Chapter

2.1. Some LATEX Examples

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

2.1.1. Tabular

Measure	Data	Unit
1	2	3
4	5	6

Stadtteil	Anzahl Personen	Ausländische Bevölkerung
Innere Stadt	3748	17.9%
Länggasse-Felsenau	17976	17.1%
Mattenhof-Weissenbühl	26895	22.4%
Kirchenfeld-Schlosshalde	23 384	13.4%
Breitenrain-Lorraine	24082	19.4%

Table 2.1.: Anzahl Personen, ausländischer Bevölkerungsanteil und Arbeitslosenquote pro Stadtteil Ende 2005 (Statistikdienste der Stadt Bern, 2006)

More about Tables Further information about tables: https://www.latex-tutorial.com/tutorials/tables/

Long Tables Further information about long tables: https://www.overleaf.com/learn/latex/tables

Stadtteil	Anzahl Personen	Ausländische Bevölkerung
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Mattenhof-Weissenbühl	26895	22.4%
Kirchenfeld-Schlosshalde	23 384	13.4%
Breitenrain-Lorraine	24082	19.4%

Table 2.2.: Anzahl Personen, ausländischer Bevölkerungsanteil und Arbeitslosenquote pro Stadtteil Ende 2005 (Statistikdienste der Stadt Bern, 2006)

Stadtteil	Anzahl Personen	Ausländische Bevölkerung
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Breitenrain-Lorraine	24082	19.4%

Table 2.3.: Anzahl Personen, ausländischer Bevölkerungsanteil und Arbeitslosenquote pro Stadtteil Ende 2005 (Statistikdienste der Stadt Bern, 2006)

Table 2.4.: A sample long table

First column	Second column	Third column
One	abcdef ghjijklmn	123.456778
	Continued	on next page

Table 2.4:	continued from	previous page
First column	Second column	Third column
One	abcdef ghjijklmn	123.456778
	Continued	l on next page

Table 2.4:	continued from previous page		
First column	Second column	Third column	
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One	abcdef ghjijklmn	123.456778	
One	abcdef ghjijklmn	123.456778	

2.1.2. Math

$$\begin{pmatrix} \dot{x_1} \\ \dot{x_2} \\ \dot{x_3} \end{pmatrix} = \begin{bmatrix} 0 & 1 & 0 \\ 0 & -\frac{b_f}{J} & \frac{K_m}{J} \\ 0 & -\frac{K_g}{L} & \frac{R}{L} \end{bmatrix} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} + \begin{bmatrix} 0 & 0 \\ -\frac{1}{J} & 0 \\ 0 & \frac{1}{L} \end{bmatrix} \begin{pmatrix} t_L \\ v_a \end{pmatrix}$$
 (2.1)

2.1.3. Include pictures



Figure 2.1.: Some meaningful caption



Figure 2.2.: PLACEHOLDER



Figure 2.3.: PLACEHOLDER

2.1.4. Code Example

```
#include <stdio.h>
#include <stdlib.h>

int main( /* int argc, char **argv */ )

{
    printf("Hello_World!\n");
    return EXIT_SUCCESS;
}
```

Listing 2.1: My very first C program.

I developed this very nice application writing "Hello World" to my terminal. The implementation is shown in listing 2.1.

2.1.5. Draw boxes

Purple Note

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Blue Note

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Red Note

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at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

An alert box.

A warning box.

A note box.

A recycle box.

Some BFH box without color option set. Using default.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift - not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift - not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift - not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

2.1.6. Some Item-list

Sometimes you explain this and that using a bullet points. This can be done in LaTeX using an item list in a item environment.

- My first item
- ► The second
- **>** ...
- **>** ...

It is also possible to nest such environment and/or enumerate.

- My first item
 - 1. My first enumerated item
 - 2. The second
 - 3. ...
- ► The second
 - 1. An other enumerated item
 - 2. · · ·
 - 3. ...

2.1.7. Multi column environment

Split a part of a document in multiple columns is not so easy with WYSIWYG tools. Whit multicols Lagrange well you may know.

My first item	My first item	My first item
► The second	► The second	► The second
>		
		

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text

like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Hello, here is some text without a like this gives you information about meaning. This text should show what a the selected font, how the letters are printed text will look like at this place. written and an impression of the look. If you read this text, you will get no in- This text should contain all letters of formation. Really? Is there no informathe alphabet and it should be written tion? Is there a difference between this in of the original language. There is no text and some nonsense like "Huardest need for special content, but the length gefburn"? Kjift - not at all! A blind text of words should match the language.

without a meaning. This nonsense like "Huardest alphabet and it should text should show what gefburn"? Kjift - not at be written in of the origa printed text will look all! A blind text like this inal language. There is like at this place. If you gives you information no need for special conread this text, you will get about the selected font, tent, but the length of no information. Really? how the letters are writ- words should match the Is there no information? ten and an impression of language. Is there a difference be- the look. This text should

Hello, here is some text tween this text and some contain all letters of the

Hello, here is some text without a like this gives you information about

meaning. This text should show what a the selected font, how the letters are printed text will look like at this place. written and an impression of the look. If you read this text, you will get no in- This text should contain all letters of formation. Really? Is there no informathe alphabet and it should be written tion? Is there a difference between this in of the original language. There is no text and some nonsense like "Huardest need for special content, but the length gefburn"? Kjift – not at all! A blind text of words should match the language.

- My first item
- The second
- **.** . . .

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you

read this text, you will get ten and an impression of about the selected font, language. how the letters are writ-

no information. Really? the look. This text should Is there no information? contain all letters of the Is there a difference be- alphabet and it should tween this text and some be written in of the orignonsense like "Huardest inal language. There is gefburn"? Kjift - not at no need for special conall! A blind text like this tent, but the length of gives you information words should match the

- ► My first item ► · · ·
- ► The second ► · · ·

2.1.8. Use Figures



Figure 2.4.: An example of including a PDF figure.

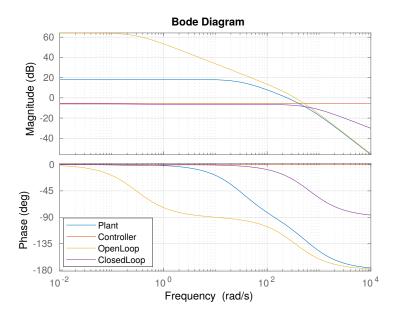


Figure 2.5.: An example of including a PDF figure.

Use Subfigures

These subfigures requires the package subcaption.



Figure 2.6.: Three simple graphs

2.2. Example Text With Indices

In this example, several keywords will be used which are important and deserve to appear in the Index.

Terms like generate and some will also show up.

2.3. Discussion

What is the significance of your results? – the final major section of text in the paper. The Discussion commonly features a summary of the results that were obtained in the study, describes how those results address the topic under investigation and/or the issues that the research was designed to address, and may expand upon the implications of those findings. Limitations and directions for future research are also commonly addressed.

Declaration of Authorship

I hereby declare that I have written this thesis independently and have not used any sources or aids other than those acknowledged.

All statements taken from other writings, either literally or in essence, have been marked as such.

I hereby agree that the present work may be reviewed in electronic form using appropriate software.

October 22, 2025	A. Muster	C. Example C. Example	

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2 1	Mrs reages front C mas augus																			-
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Glossary

This document is incomplete. The external file associated with the glossary 'main' (which should be called main.gls) hasn't been created.

Check the contents of the file main.glo. If it's empty, that means you haven't indexed any of your entries in this glossary (using commands like \gls or \glsadd) so this list can't be generated. If the file isn't empty, the document build process hasn't been completed.

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Try one of the following:

Add automake to your package option list when you load glossaries-extra.sty. For example:

\usepackage[automake]{glossaries-extra}

Run the external (Lua) application: makeglossaries-lite.lua "main"

Run the external (Perl) application: makeglossaries "main"

Then rerun LaTeX on this document.

This message will be removed once the problem has been fixed.

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