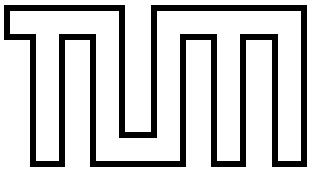

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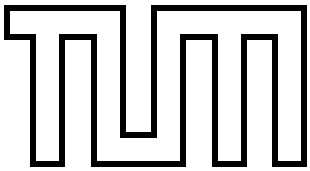

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Author:	Your Name
Supervisor:	Univ.-Prof. Dr. Hans-Joachim Bungartz
Advisor:	Fabio Alexander Gratl, M.Sc.
Date:	Date of Submission

I confirm that this bachelor's thesis is my own work and I have documented all sources and material used.

Munich, Date of Submission Your Name

Acknowledgements

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Abstract

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Zusammenfassung

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Contents

Acknowledgements vii

Abstract ix

Zusammenfassung xi

I. Introduction and Background 1

1. Introduction 2
1.1. Tips . . . 2
1.1.1. How to Describe . . . 2
1.1.2. How to Quote . . . 2
1.1.3. How to Math . . . 2
1.2. Environments . . . 3
1.2.1. How to Figure . . . 3
1.2.2. How to Algorithm . . . 3
1.2.3. How to Code . . . 5
1.2.4. How to Table . . . 5

II. Appendix 6

A. Some more stuff 7

Bibliography 10

Part I.

Introduction and Background

1. Introduction

Write some useful intro. Here are tips along the way:

1.1. Tips

1.1.1. How to Describe

When listing several points you have three basic options:

- itemize
- enumerate
- description

1. itemize
2. enumerate
3. description

itemize short, unordered

enumerate short ordered

description listing of descriptions. Also nice for longer ones.

1.1.2. How to Quote

> "This is a quote!"

- Citations to a source can be made like this `\cite{gratl17task}` = [Gra17]

  Always join text and the citation with a non-breaking space: `text~\cite{foo}`.
- Referencing Sections, Figures, Tables, Formulas: `\autoref{sec:intro}` = Chapter 1.
- Footnotes for url or further notes: `\footnote{\url{https://www.top500.org}}` = [1]

1.1.3. How to Math

Use the align environment for equations especially if you want to align them somehow.

$$1 + 1 \neq 3 \tag{1.1}$$

$$\left(\frac{10}{1}\right) - 9 = 1 \tag{1.2}$$

[1] `https://www.top500.org`

1.2. Environments

1.2.1. How to Figure

Anything can also be put in multiple columns.

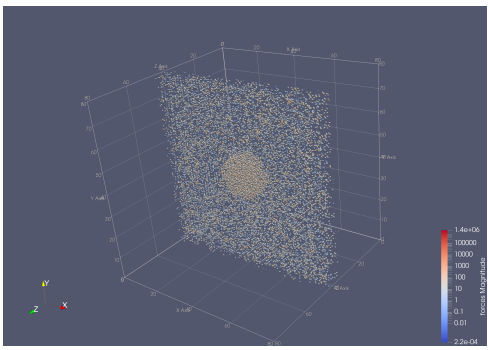


Figure 1.1.: Some Caption. Always also include a source if it wasn't created by you!
Source: [Gra17]

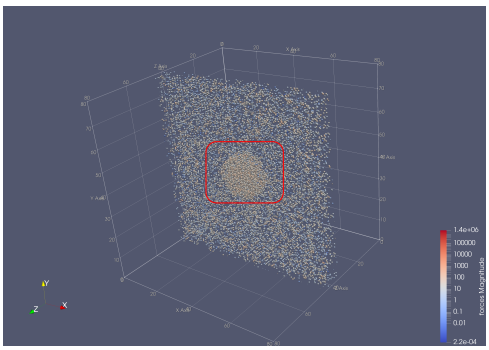
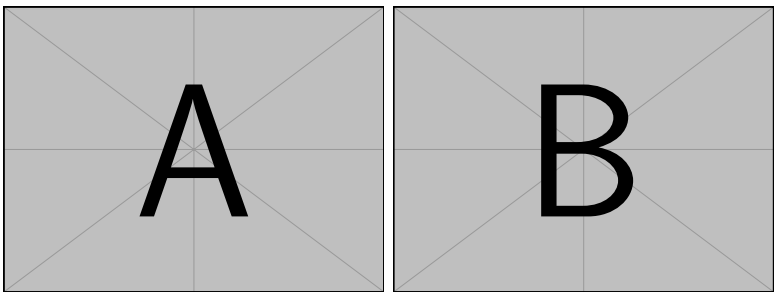
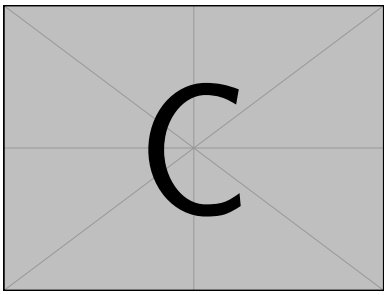


Figure 1.2.: Figures can be drawn on or completely generated with tikz.

Subfigures If grouping of several pictures seems reasonable, think about using subfigures. This often comes in handy with plots.



(a) example-image-a (b) example-image-b



(c) example-image-c

Figure 1.3.: One caption to describe them all.

1.2.2. How to Algorithm

Algorithm 1: Bogosort

Input: data array
Output: data sorted

```
   // Checks if array is sorted
1  Function is_sorted(data):
2      for i ← 0 to data.size() - 1 do
3          if data[i] > data[i+1] then
4              return false
5      return true
   // actual algorithm
6  Function bogosort(data):
7      while not is_sorted(data) do
8          random.shuffle(data)
```

Figure 1.4.: some description what is happening

1.2.3. How to Code

```
1 void runner(int type, void *data){
2     switch(type)
3         case taskType1:
4             // do stuff using data
5         case taskType2:
6             // do other stuff using data
7 }
```

Listing 1.1: General form of a typical runner() function.

1.2.4. How to Table

bla left	bla centered over two lines	bla right
bla left	bla centered	cell spanning two rows
cell spanning two columns		

Table 1.1.: Fancy table that can contain line breaks and extended cells.

Part II.

Appendix

A. Some more stuff

For everything that does not really belong in the thesis but is good to mention.

List of Figures

1.1. Example Figure 3
1.2. Figure with tikz 3
1.3. One caption to describe them all. 3
1.4. some description what is happening 4

List of Tables

1.1. Some Table 5

Bibliography

[Gra17] Fabio Alexander Gratl. Task based parallelization of the fast multipole method implementation of ls1-mardyn via quicksched. Master's thesis, Institut für Informatik 5, Technische Universität München, Garching, November 2017.