

<Title of the Work>

<Subtitle>

Bachelor Thesis

Bachelor Course on Smart Engineering
at St. Pölten University of Applied Sciences

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Declaration

I assure that

- I have written this work independently, have not used other sources and aids than those indicated and have not made use of any other unauthorized assistance.

- I have not yet submitted this topic to an assessor in Austria or abroad for assessment or in any form as an examination paper.

- this work corresponds to the work assessed by the assessor.

Date: _____ Signature: _____

Abstract

Introduction: Warum behandeln wir das Thema

Purpose: Welches Problem soll gelöst werden

Method: Wie wurde die Problemlösung gemacht

Product: Was war das Ergebnis

Conclusion: Was sind die Folgerungen / Schlussfolgerungen aus den gewonnen Erkenntnissen

keine Referenzen und Zitate

Kurzfassung

Das Abstract auf deutsch.

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1 Example

!!! Please delete this chapter after finishing your work !!!

1.1 Settings

To add your name and the title of your work, please use the “Settings.tex” file! Additionally, switch there between German and English version.

1.2 How to Make Sections and Subsections

Use section and subsection commands to organize your document. \LaTeX handles all the formatting and numbering automatically. Use `ref` and `label` commands for cross-references.

1.2.1 How to Make Lists

You can make lists with automatic numbering ...

1. Like this,
2. and like this.

... or bullet points ...

- Like this,
- and like this.

... or with words and descriptions ...

Word Definition

Concept Explanation

Idea Text

1.3 Section

You have to write text between each headline.

1.4 Citation

This part describes the three types of citations which are possible:

1.5 Direct Citation

The maximum for a direct citation is a 1/2 page.

Overview first, zoom and filter, then details-on-demand (Shneiderman 1996)

1.6 Floating Text Citation

Shneiderman (1996) defined the Visual Information Seeking Mantra as “Overview first, zoom and filter, then details-on-demand”.

1.7 Indirect Citation

Some text which summarizes a paper or a book chapter. This could take several lines. Find attached a citation of a website (Kaley 2018).

1.8 Figures

To place a figure use the following code example

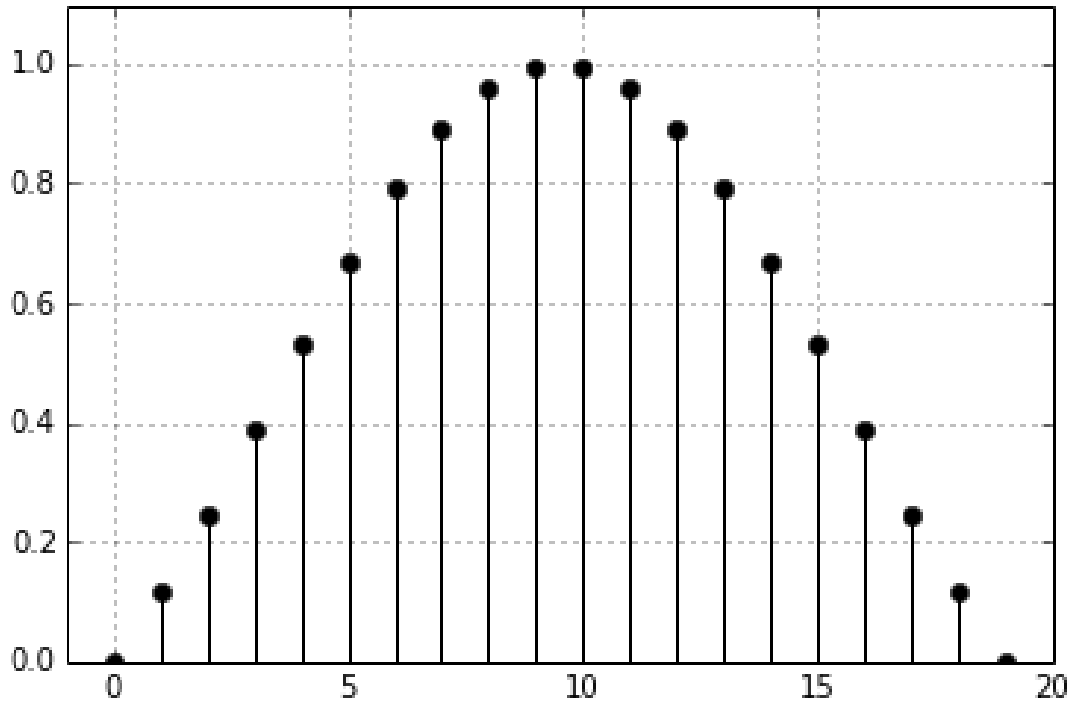


Figure 1.1. Interactive data exploration with multiple devices.

$$\int_{a,b}$$

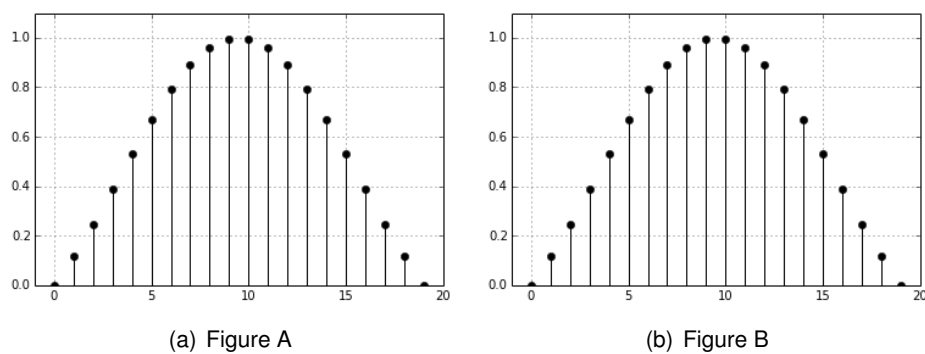


Figure 1.2. Wearables worn for experiments 1, 2, and 3.

Refer to a figure in the following forms:

If you take a look at Figure 1.1 ...

... text text (see Figure 1.1) ...

1.9 Listings

Listing 1.1. A bit of source code.

```
1 if( true == questions )
2 {
3     std::cout << "Let_me_google_it_for_you";
4 }
5 else
6 {
7     std::cout << "Great";
8 }
```

Now lets take a look at Listing 1.1.

1.10 Table

Table 1.1. My caption with a very useful description. die kann auch etwas länger sein und über mehrere Zeilen gehen und so weiter.

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

For the fast generation of tables from Excel use <http://www.heise.de/download/excel2latex.html>

1.11 Equations

\LaTeX is great at typesetting equations. Let X_1, X_2, \dots, X_n be a sequence of independent and identically distributed random variables with $E[X_i] = \mu$ and $\text{Var}[X_i] = \sigma^2 < \infty$, and let

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n}$$

This was a equation without a label.

$$S_n = \frac{1}{n} \sum_i^n X_i \tag{1.1}$$

This is the reference to equation 1.1.

denote their mean. Then as n approaches infinity, the random variables $\sqrt{n}(S_n - \mu)$ converge in distribution to a normal $\mathcal{N}(0, \sigma^2)$.

2 Introduction / Einleitung

Führt in die Thematik, Problem- und Aufgabenstellung ein

Vorstellung der Forschungsfrage

Enthält Grundlagenwissen

Gibt Überblick über die Arbeit

Darstellung der Related Work - sofern bereits ähnliche Arbeiten zu diesem Themengebiet existieren; In aller Kürze: Was gibt es? Was sind die Ergebnisse? Ist etwas offen geblieben? Fehlt etwas?

3 Method / Methode

Wie wurde Literatur gefunden?

Welche Journals, Conferences, Libraries, Search engines. . . wurden genutzt?

Nach welchen Keywords wurde gesucht, wie viele Treffer gab es?

Nach welchen Kriterien wurde selektiert und warum?

4 Results / Ergebnisse

Presenting found literature in a useful way

4.1 First Section

Ich bin Text, Text, Text¹

4.1.1 First Subsection

¹<http://mfg.fhstp.ac.at>

5 Discussion / Diskussion

Comparison of presented technologies/methods/projects

Kritische Diskussion / Vergleich der Ansätze

Welche Methoden werden zumeist genutzt, warum?

Überblick / Zusammenfassung der gefundenen Literatur in einer sinnvollen Kategorisierung
/ Charakterisierung

6 Conclusion / Fazit

Was kann man daraus lernen?

Was fehlt?

Ideen für zukünftige Forschung

Bibliography

- Kaley, A. (2018). *Match Between System and Real World: 2nd Usability Heuristic Explained*. Retrieved March 24, 2019, from <https://www.nngroup.com/articles/match-system-real-world/>
- Shneiderman, B. (1996). The eyes have it: A task by data type taxonomy for information visualizations. *IEEE Symposium on Visual Languages, 1996. Proceedings*, 336–343. <https://doi.org/10.1109/VL.1996.545307>

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Listings

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Appendices

A Appendix

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B Appendix

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