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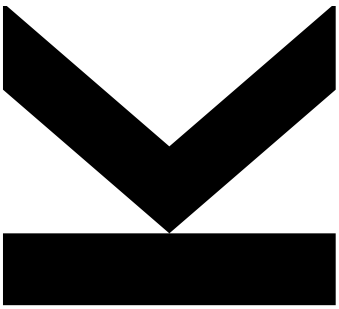

Master's Thesis
to obtain the academic degree of
Diplom-Ingenieur
in the Master's Program
Computer Science

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Statutory Declaration

I hereby declare under oath, that the submitted thesis has been written solely by me without any third-party assistance. Only the declared sources and/or resources have been used. Sources for all literal, paraphrased and cited quotes have been accurately credited.
The submitted document here present is identical to the electronically submitted document.
I am aware that the violation of this regulation will lead to failure of the thesis.

Name	Signature

Place, Date

Abstract

Summary

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1.1 Subsection

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3 Introduction to LaTeX

Since LaTeX is widely used in academia and industry, there are many free introductions to the language. There is the wiki guide at `https://en.wikibooks.org/wiki/LaTeX` and also a guide from the Overleaf Online-LaTeX-Editor at `https://de.overleaf.com/learn`. This template was created for the Overleaf Online-LaTeX-Editor.

3.1 Basic Functionality

In this section, some examples are given of the basic elements used in a thesis. For most LaTeX commands optional arguments are available, which can be looked up in the various documentations for the commands.

3.1.1 Tables

A `tabular` environment is used to create tables in LaTeX.

Animal Class	Species
Mammal	Elephant Horse Whale Panda
Reptile	Snake Turtle Crocodile
Fish	Shark
Insect	Bee Ant

Table 3.1: Adapted example from the LaTeX guide at `https://en.wikibooks.org/wiki/LaTeX/Tables`. This example uses options from the `booktabs` the `multirow` package.

3.1.2 Images

An image is added to a document with the `\includegraphics` command as shown in Figure 3.1. Tables and figures require consecutive numbers and titles (LaTeX does this for you). All tables and figures taken from another source have to be cited accordingly.

3.1.3 Mathematical Expressions

One of the biggest advantages of LaTeX is the creation of complex mathematical expressions. It is possible to insert the mathematical expression inline $\sum_{k=1}^{n} k = \frac{n+(n+1)}{2}$ or outside of the text as

$$\sum_{k=1}^{n} k = \frac{n + (n+1)}{2}$$

or as numbered equation with

$$\sum_{k=1}^{n} k = \frac{n + (n+1)}{2}. \tag{3.1}$$

Figure 3.1: JKU Logo. Always add figure sources (ie JKU, 2020)

4 Listings and Acronyms

For acronyms, please use an internal declaration in an `acronym` environment at the bottom in the main tex-file. If you supply the `[nolist]` option at `\usepackage[nolist]{acronym}`, it will omit the list of acronyms accordingly. In the text, consistently use the acronym with the `\ac{...}` (for singular) and `\acp{...}` for plural use of the acronym. For example, the first time to mention Advanced Encryption Standard (AES) will expand the acronym, as opposed to subsequent use of AES that does not expand it.
Listings should go included with syntax highlighting, such as in Listing 4.1.

Listing 4.1: Example code

```
1public class HelloWorld {

3    public static void main(String[] args) {
4        // Prints "Hello, World" to the terminal window.
5        System.out.println("Hello, World");
6    }

8}
```

4.1 References

The references are an important part for any academic/research writing. LaTeX supports different types of bibliographies to insert the references. This template uses the **BibTeX** system. The `\cite` command, makes it possible to reference entries in a `.bib` file out of the text stream, e.g., as [2]. It is also possible to add citations in captions of figures, tables, and equations, see Figure 4.2

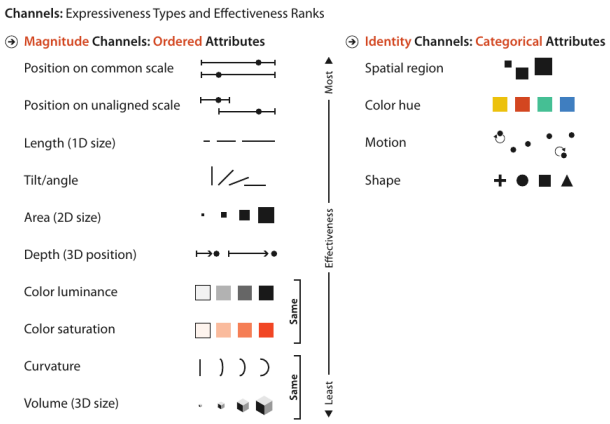

Figure 4.2: The effectiveness of channels that modify the appearance of marks [1]

AES Advanced Encryption Standard

IDS Intrusion Detection System

References

[1] Tamara Munzner. *Visualization Analysis and Design.* CRC Press, Taylor & Francis Group, 2014.

[2] Marc Streit, Samuel Gratzl, Holger Stitz, Andreas Wernitznig, Thomas Zichner, and Christian Haslinger. Ordino: visual analysis tool for ranking and exploring genes, cell lines, and tissue samples. *Bioinformatics*, 35(17):3140–3142, 2019.