MASTER THESIS

Something interesting and meaningful

submitted by

YOUR NAME

Submitted to the

Chair of Computational Social Sciences and Humanities

within the

Faculty of Mathematics, Computer Science and Natural Sciences

at RWTH Aachen University

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Advisor:

Advisor

First Supervisor

Your first Supervisor

Second Supervisor

Your second Supervisor

Declaration of Authorship

I, Your Name, hereby declare in lieu of an oath that the present Bachelor's thesis titled, "Something interesting and meaningful" and the work presented in it are my own. I confirm that:

- I have completed this thesis indepentently and without illigimimate assistance from third parties.
- I have used no other than the specified sources and aids.
- Where I have consulted the published work of others, this is always clearly attributed.
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- The written and electronic versions which were submitted are fully identical.
- The thesis has not been submitted to any examination body in this, or similar, form.
- I have read and understood the official notification concerning §156 StGB and §161 StGB.

City, Date:

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Contents

Abstract *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.*

1

Introduction

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. It also shows that citations work in fluent text [**lit:koblergraphisomorphism**] [1]

1.1 Section

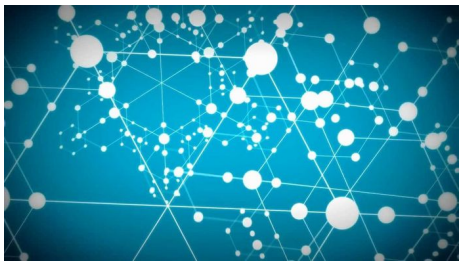


Figure 1.1: *This graphic visualizes something really interesting.*

Paragraph - Formulas This is a regular formula $x^{2\pi}$ and a formula with a linebreak

$$\min_{\mathbf{Q}} \sum_i \|\mathbf{A}_i\mathbf{Q} - \mathbf{P}_i(\mathbf{A}_i\mathbf{Q})\|_{\mathrm{F}}^2$$

[1] or in a footnote [**groheparameterized**]

Another option:

$$x = -\frac{p}{2} \pm \sqrt{(\frac{p}{2})^2 - q}$$

Or also as a numbered equation:

$$x = -\frac{p}{2} \pm \sqrt{(\frac{p}{2})^2 - q} \tag{1.1}$$

Or in alignment with multiple equations:

$$\begin{aligned}\psi(x,y) = [lfpR, v.(v = y) \vee \\ (V_0 v \wedge \exists v'(Evv' \wedge Rv')) \vee \\ (V_1 v \wedge \forall v'(Evv' \rightarrow Rv'))](y)\end{aligned}$$

$$F(X) = \begin{cases} A & \text{for } X = \emptyset \\ X & \text{otherwise} \end{cases}$$

Something fancy:

$$\begin{aligned}\pi &= \overbrace{11}^{x_0} | \overbrace{0}^{x_1} | \overbrace{101}^{x_2} | \overbrace{1000}^{x_3} | \overbrace{101}^{x_4} | \overbrace{000}^{x_5} | \overbrace{1}^{x_6} | \dots \\ \pi' &= \underbrace{11}_{x'_0} | \underbrace{1010}_{x'_1} | \underbrace{011}_{x'_2} | \underbrace{1010}_{x'_3} | \underbrace{11}_{x'_4} | \underbrace{10}_{x'_5} | \dots\end{aligned}$$

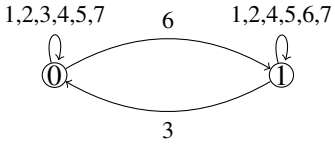
and with some text in same row:

$$w^T \phi(x) + b = 0 \quad \Rightarrow \text{Nonlinear Classifier in } R^D$$

This is an external file and needs no further declarations

1.2 Some drawing and tables

A simple automaton drawn with tikz nodes.



A table containing some information:

	ℓ	r
t	$(0,0)$	$(0,0)$
b	$(0,0)$	$(1,1)$

And an annotated table:

	denied	*granted*	$\sum$
protected	a	b	n_p
unprotected	c	d	n_u
$\sum$	m_d	m_g	n

Plotting can also be done in a tikz environment: