

Fakultät Informatik

Print Hints (Working Title)

Exposé zur Bachelorarbeit im Studiengang Medieninformatik

vorgelegt von

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Abgabetermin: angestrebt: Mitte August

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Kurzdarstellung

Kurze Zusammenfassung der Arbeit, höchstens halbe Seite. Deutsche Fassung auch nötig, wenn die Arbeit auf Englisch angefertigt wird.

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Abstract

Only if thesis is written in English.

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Chapter 1.

Introduction

You may have read about similar things in [?]. You can also write footnotes. 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.

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1.1. This is an Important Section

It is possible to reference glossary entries as library as an example. 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.

¹Footnotes will be positioned automatically.

1.1.1. And an even more important subsection

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Chapter 2.

Data

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Chapter 2. Data

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Chapter 3.

Method

In this chapter, we're actually using some code!

Listing 3.1: This is an example of inline listing

You can also include listings from a file directly:

Listing 3.2: This is an example of included listing

Chapter 4.

Experiments

This is the second paragraph. 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.

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Chapter 5.

Outlook

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Chapter 6.

Summary

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Appendix A.

Supplemental Information

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List of Figures

List of Tables

List of Listings

3.1.	This is an example of inline listing	-
3.2.	This is an example of included listing	F

Bibliography

- [1] D. Inc., "What is docker?" [Online]. Available: https://docs.docker.com/get-started/docker-overview/
- [2] L. Quan, Z. Wang, and X. Liu, "Connecting Framework of Smart Devices Based on Linux Container Technology," in 2016 International Conference on Identification, Information and Knowledge in the Internet of Things (IIKI). Beijing: IEEE, Oct. 2016, pp. 1–3. [Online]. Available: http://ieeexplore.ieee.org/document/8281163/
- [3] N. Nguyen and D. Bein, "Distributed MPI cluster with Docker Swarm mode," in 2017 IEEE 7th Annual Computing and Communication Workshop and Conference (CCWC). Las Vegas, NV, USA: IEEE, Jan. 2017, pp. 1–7. [Online]. Available: http://ieeexplore.ieee.org/document/7868429/
- [4] I. Red Hat, "Was ist ein Linux-Container?" Mar. 2023. [Online]. Available: https://www.redhat.com/de/topics/containers/whats-a-linux-container
- [5] D. Inc., "Swarm mode." [Online]. Available: https://docs.docker.com/engine/swarm/
- [6] —, "How nodes work." [Online]. Available: https://docs.docker.com/engine/swarm/how-swarm-mode-works/nodes/
- [7] —, "How services work." [Online]. Available: https://docs.docker.com/engine/swarm/how-swarm-mode-works/services/
- [8] —, "Deploy a stack to a swarm." [Online]. Available: https://docs.docker.com/engine/swarm/stack-deploy/
- [9] R. Kumar, "Working with Kubernetes Namespaces," Jul. 2019. [Online]. Available: https://www.devopsschool.com/blog/working-with-kubernetes-cluster-using-kubectl-part-6-namespaces/
- [10] M. Briegel, "Kubernetes vs. Docker Swarm," Aug. 2023. [Online]. Available: https://www.esono.de/blog/devops/kubernetes-vs-docker-swarm_aid_1117.html
- [11] T. K. Authors, "Kubernetes Documentation," Apr. 2024. [Online]. Available: https://kubernetes.io/docs/home/

Glossary

 $\begin{tabular}{library}{ll} A suite of reusable code inside of a programming language for software development.\\ i, 1 \end{tabular}$

shell Terminal of a Linux/Unix system for entering commands. i