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Title

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Erlangen-Nürnberg

zur
Erlangung des Doktorgrades Dr.-Ing.

vorgelegt von

Firstname Lastname, M.Sc.

aus Erlangen

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Preface

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.

Contents

List of Symbols and Abbreviations

List of Abbreviations

Abbreviation	Description
FAU	Friedrich-Alexander-Universät Erlangen-Nürnberg
LaTeX	Lamport TeX

List of Symbols

Symbol	Unit	Description
c_0	$\mathrm{m\,s^{-1}}$	speed of light in vacuum
γ		Lorentz factor

List of Figures

List of Tables

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.

2. Heading on Level 0 (chapter)

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2.1. Heading on Level 1 (section)

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.

2.1.1. Heading on Level 2 (subsection)

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.

2.1.1.1. Heading on Level 3 (subsubsection)

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.

Heading on Level 4 (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.

2.2. Lists

2.2.1. Example for list (itemize)

- First item in a list
- Second item in a list
- Third item in a list
- Fourth item in a list
- Fifth item in a list

2.2.1.1. Example for list (4*itemize)

- First item in a list
  - First item in a list
    - First item in a list
      - First item in a list
      - Second item in a list
    - Second item in a list
  - Second item in a list
- Second item in a list

2.2.2. Example for list (enumerate)

1. First item in a list
2. Second item in a list
3. Third item in a list
4. Fourth item in a list
5. Fifth item in a list

2.2.2.1.Example for list (4*enumerate)

1. First item in a list
    a) First item in a list
        i. First item in a list
            A. First item in a list
            B. Second item in a list
        ii. Second item in a list
    b) Second item in a list
2. Second item in a list

2.2.3. Example for list (description)

First item in a list

Second item in a list

Third item in a list

Fourth item in a list

Fifth item in a list

2.2.3.1.Example for list (4*description)

First item in a list

First item in a list

First item in a list

First item in a list

Second item in a list

Second item in a list

Second item in a list

Second item in a list

3. More features to test the capabilities of the FAU University Press LaTeX class for dissertations which should be compiled using LuaLaTeX

3.1. Fonts

Here are some tests in the different available fonts!

3.1.1. Text fonts

roman upright (default)

The quick brown fox jumps over the lazy dog 0123456789

roman bold upright

The quick brown fox jumps over the lazy dog 0123456789

roman italics

The quick brown fox jumps over the lazy dog 0123456789

roman bold italics

The quick brown fox jumps over the lazy dog 0123456789

sans upright

The quick brown fox jumps over the lazy dog 0123456789

sans bold upright

The quick brown fox jumps over the lazy dog 0123456789

sans italics (not available)

The quick brown fox jumps over the lazy dog 0123456789

sans bold italics (not available)

The quick brown fox jumps over the lazy dog 0123456789

typewriter

`The quick brown fox jumps over the lazy dog 0123456789`

typewriter bold

`The quick brown fox jumps over the lazy dog 0123456789`

typewriter italics

`The quick brown fox jumps over the lazy dog 0123456789`

typewriter bold italics

`The quick brown fox jumps over the lazy dog 0123456789`

3.1.2. Math fonts

roman upright

$$\tilde{\mathrm{f}}(\omega) = \frac{1}{2\pi}\int_{-\infty}^{\infty} \mathrm{f}(\mathrm{x})\mathrm{e}^{-\mathrm{i}\omega\mathrm{x}}\,\mathrm{dx}$$

roman bold upright

$$\tilde{\mathbf{f}}(\boldsymbol{\omega}) = \frac{\mathbf{1}}{\mathbf{2\pi}}\int_{-\infty}^{\infty} \mathbf{f}(\mathbf{x})\mathbf{e}^{-\mathbf{i}\boldsymbol{\omega}\mathbf{x}}\,\mathbf{dx}$$

roman italics (default)

$$\tilde{f}(\omega) = \frac{1}{2\pi}\int_{-\infty}^{\infty} f(x)e^{-i\omega x}\,dx$$

roman bold italics

$$\tilde{\boldsymbol{f}}(\boldsymbol{\omega}) = \frac{\mathbf{1}}{\mathbf{2\pi}}\int_{-\infty}^{\infty} \boldsymbol{f}(\boldsymbol{x})\boldsymbol{e}^{-\boldsymbol{i}\boldsymbol{\omega}\boldsymbol{x}}\,\boldsymbol{dx}$$

sans upright (only available for Latin and Numerals)

$$\tilde{\mathrm{f}}(\omega) = \frac{1}{2\pi}\int_{-\infty}^{\infty} \mathrm{f}(\mathrm{x})\mathrm{e}^{-\mathrm{i}\omega\mathrm{x}}\,\mathrm{dx}$$

sans bold upright (only available for Latin and Numerals)

$$\tilde{\mathbf{f}}(\boldsymbol{\omega}) = \frac{\mathbf{1}}{\mathbf{2\pi}}\int_{-\infty}^{\infty} \mathbf{f}(\mathbf{x})\mathbf{e}^{-\mathbf{i}\boldsymbol{\omega}\mathbf{x}}\,\mathbf{dx}$$

sans italics (only available for Latin)

$$\tilde{f}(\omega) = \frac{1}{2\pi}\int_{-\infty}^{\infty} f(x)e^{-i\omega x}\,dx$$

sans bold italics (only available for Latin Letters)

$$\tilde{\boldsymbol{f}}(\boldsymbol{\omega}) = \frac{1}{2\boldsymbol{\pi}} \int_{-\infty}^{\infty} \boldsymbol{f}(\boldsymbol{x}) \boldsymbol{e}^{-\boldsymbol{i}\boldsymbol{\omega}\boldsymbol{x}} \, \boldsymbol{dx}$$

typewriter (only available for Latin Letters and Numerals)

$$\tilde{\mathtt{f}}(\omega) = \frac{1}{2\pi} \int_{-\infty}^{\infty} \mathtt{f}(\mathtt{x}) \mathtt{e}^{-\mathtt{i}\omega\mathtt{x}} \, \mathtt{dx}$$

blackboard (only available for Latin Letters, Numerals and selected Symbols)

$$\tilde{\mathbb{f}}(\omega) = \frac{\mathbb{1}}{\mathbb{2}\pi} \int_{-\infty}^{\infty} \mathbb{f}(\mathbb{x}) \mathbb{e}^{-\mathbb{i}\omega\mathbb{x}} \, \mathbb{dx}$$

blackboard italics (only available for Latin Letters)

$$\tilde{f}(\omega) = \frac{1}{2\pi} \int_{-\infty}^{\infty} f(x) e^{-\mathbb{i}\omega x} \, \mathbb{d}x$$

calligraphy (only available for Latin Letters)

$$\tilde{\mathscr{f}}(\omega) = \frac{1}{2\pi} \int_{-\infty}^{\infty} \mathscr{f}(x) e^{-i\omega x} \, dx$$

calligraphy bold (only available for Latin Letters)

$$\tilde{\boldsymbol{\mathscr{f}}}(\omega) = \frac{1}{2\pi} \int_{-\infty}^{\infty} \boldsymbol{\mathscr{f}}(\boldsymbol{x}) \boldsymbol{e}^{-\boldsymbol{i}\omega\boldsymbol{x}} \, \boldsymbol{dx}$$

fraktur (only available for Latin Letters)

$$\tilde{\mathfrak{f}}(\omega) = \frac{1}{2\pi} \int_{-\infty}^{\infty} \mathfrak{f}(\mathfrak{x}) \mathfrak{e}^{-\mathrm{i}\omega\mathfrak{x}} \, \mathfrak{dx}$$

fraktur bold (only available for Latin Letters)

$$\tilde{\boldsymbol{\mathfrak{f}}}(\omega) = \frac{1}{2\pi} \int_{-\infty}^{\infty} \boldsymbol{\mathfrak{f}}(\boldsymbol{\mathfrak{x}}) \boldsymbol{\mathfrak{e}}^{-\mathrm{i}\omega\boldsymbol{\mathfrak{x}}} \, \boldsymbol{\mathfrak{dx}} \tag{1}$$

3.2. Bibliograpy

Testing citations from the bibliography. Normal citations like [2] or like [1, 3] from the `bibliography.bib` file are added to the bibliography only when being cited. All entries from the `bibliography-own.bib` file and the `bibliography-student.bib` file are added to the corresponding subbibliography even if not cited. They can of course be cited like [P40] and [S2].

One has to be careful, when tweaking the bibliography parts. The parts that shall be used must be selected via the class option bibliographypart, otherwise the class will throw errors if the file is missing or biblatex will throw warnings if the file is existent but empty. The bibliography apparatus in this class is rather fragile because many different requirements come together. Two special remarks shall be made here:

1. If a citation is made that cannot be found in the bib file(s), all references will be assigned the number 0.
2. All citation keys must be unique, even across all three different files. Duplicate keys qould cause biblatex to throw a warning.

3.3. Figures & Tables

3.3.1. Include an image

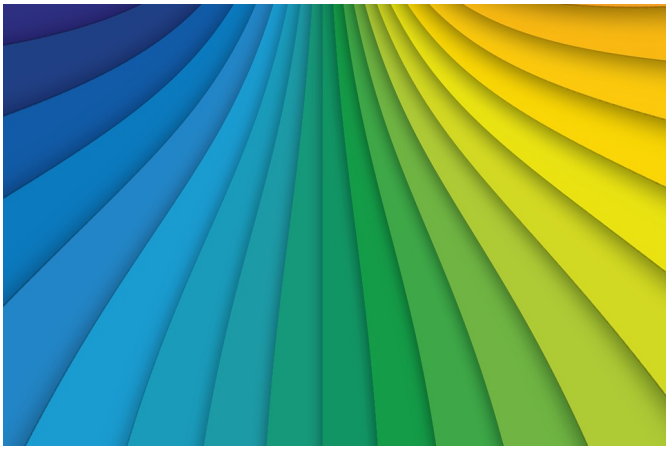

Figure 1.: Some super dooper colorful lines in an image that is included in the document using the command from the package graphicx.

3.3.2. Include a table

Table 1.: Some nice looking table!

m	$\Re\{\underline{\mathfrak{x}}(m)\}$	$-\Im\{\underline{\mathfrak{x}}(m)\}$	$\mathfrak{x}(m)$	$\frac{\mathfrak{x}(m)}{23}$	A_m
1	16.128	8.872	16.128	1.402	1.373
2	3.442	−2.509	3.442	0.299	0.343
3	1.826	−0.363	1.826	0.159	0.119
4	0.993	−0.429	0.993	0.086	0.08
5	1.29	0.099	1.29	0.112	0.097
6	0.483	−0.183	0.483	0.042	0.063
7	0.766	−0.475	0.766	0.067	0.039
8	0.624	0.365	0.624	0.054	0.04
9	0.641	−0.466	0.641	0.056	0.045
10	0.45	0.421	0.45	0.039	0.034
11	0.598	−0.597	0.598	0.052	0.025

3.4. Footnotes & Hyperlinks

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.[1] 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. Here come some references: Table 1, Figure 1, chapter 1, section 3.4, item 1 and Equation 1. 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.[2,3]

2019/12/01 v3.14 programmable bibliographies (PK/MW)

[1] This is a footnote.

[2] This is another footnote!

[3] followed by a footnote... This is an internet link!

Appendix

A. Heading on Level 1 (section)

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.

A.1. Heading on Level 2 (subsection)

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.

A.1.1. Heading on Level 3 (subsubsection)

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.

Heading on Level 4 (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.

B. Lists

B.1. Example for list (itemize)

- First item in a list
- Second item in a list
- Third item in a list
- Fourth item in a list
- Fifth item in a list

B.1.1. Example for list (4*itemize)

- First item in a list
  - First item in a list
    - First item in a list
      - First item in a list
      - Second item in a list
    - Second item in a list
  - Second item in a list
- Second item in a list

B.2. Example for list (enumerate)

1. First item in a list
2. Second item in a list
3. Third item in a list
4. Fourth item in a list
5. Fifth item in a list

B.2.1. Example for list (4*enumerate)

1. First item in a list
    a) First item in a list
        i. First item in a list
            A. First item in a list
            B. Second item in a list
        ii. Second item in a list
    b) Second item in a list
2. Second item in a list

B.3. Example for list (description)

First item in a list

Second item in a list

Third item in a list

Fourth item in a list

Fifth item in a list

B.3.1. Example for list (4*description)

First item in a list

First item in a list

First item in a list

First item in a list

Second item in a list

Second item in a list

Second item in a list

Second item in a list

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