



d|b|t|a

Fachgebiet  
Dynamik und Betrieb technischer Anlagen

# Styleguide for Dissertations and Theses

## Documentation of the L<sup>A</sup>T<sub>E</sub>X Template

Under the scientific supervision of  
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Berlin, Januar 2019

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Fachgebiet Dynamik und Betrieb technischer Anlagen



*I dedicate this great thesis to my gold fish, which has  
always been there for me*



# Eidesstattliche Erklärung

Hiermit erkläre ich an Eides statt, dass ich die vorliegende Arbeit selbstständig und eigenhändig sowie ausschließlich unter Verwendung der aufgeführten Quellen und Hilfsmittel angefertigt habe.

---

FIRST NAME SECOND NAME

Berlin, 26. Januar 2019

I hereby confirm that I prepared this thesis independently and by exclusive reliance on literature or tools indicated herein.

---

FIRST NAME SECOND NAME

Berlin, 26<sup>th</sup> January, 2019



# Danksagung

Ein paar nette Worte / Some nice words...



# Zusammenfassung

## Deutsch

Dies hier ist ein Blindtext zum Testen von Textausgaben. Wer diesen Text liest, ist selbst schuld. Der Text gibt lediglich den Grauwert der Schrift an. Ist das wirklich so? Ist es gleichgültig, ob ich schreibe: „Dies ist ein Blindtext“ oder „Huardest gefburn“? Kjift – mitnichten! Ein Blindtext bietet mir wichtige Informationen. An ihm messe ich die Lesbarkeit einer Schrift, ihre Anmutung, wie harmonisch die Figuren zueinander stehen und prüfe, wie breit oder schmal sie läuft. Ein Blindtext sollte möglichst viele verschiedene Buchstaben enthalten und in der Originalsprache gesetzt sein. Er muss keinen Sinn ergeben, sollte aber lesbar sein. Fremdsprachige Texte wie „Lorem ipsum“ dienen nicht dem eigentlichen Zweck, da sie eine falsche Anmutung vermitteln. Dies hier ist ein Blindtext zum Testen von Textausgaben. Wer diesen Text liest, ist selbst schuld. Der Text gibt lediglich den Grauwert der Schrift an. Ist das wirklich so? Ist es gleichgültig, ob ich schreibe: „Dies ist ein Blindtext“ oder „Huardest gefburn“? Kjift – mitnichten! Ein Blindtext bietet mir wichtige Informationen. An ihm messe ich die Lesbarkeit einer Schrift, ihre Anmutung, wie harmonisch die Figuren zueinander stehen und prüfe, wie breit oder schmal sie läuft. Ein Blindtext sollte möglichst viele verschiedene Buchstaben enthalten und in der Originalsprache gesetzt sein. Er muss keinen Sinn ergeben, sollte aber lesbar sein. Fremdsprachige Texte wie „Lorem ipsum“ dienen nicht dem eigentlichen Zweck, da sie eine falsche Anmutung vermitteln.

**Schlüsselwörter:** *Keyword1; Keyword2; Keyword3*

## English

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. 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.

**Keywords:** *Keyword1; Keyword2; Keyword3*

# Publikationen

This thesis is partially based on already published contributions. In the following, these are divided into Journal articles, papers within conference proceedings, oral presentations without papers, and a list of all supervised theses.

**This is only needed for dissertations and automatically removed if `isDiss` is false.**

The following items do *not* appear in the references at the end of this dissertation if the `\printpublication` command is used! If you cite the reference in the text as well, it also appears at the end.

Theses and dissertations are cited using a user-defined entry type in Jabref called thesis in which you may enter the type as Bachelorarbeit, Masterarbeit, Dissertation, Bachelor's thesis, ... The entry type is part of the available .bib file in this template. If you want to create it on your own, it contains the entries author, title, school, year, type.

## Journal Articles

- E. Esche, C. Hoffmann, M. Illner, D. Müller, S. Fillinger, G. Tolksdorf, H. Bonart, G. Wozny und J.-U. Repke (2017). MOSAIC - Enabling Large-Scale Equation-Based Flow Sheet Optimization. *Chemie Ingenieur Technik* 89(5), 620–635. DOI: 10.1002/cite.201600114

## **Conference Papers**

- A. Penteado, H. R. Godini, E. Esche, G. Lovato, J. A. D. Rodrigues und J.-U. Repke (2018). Optimal Design of a CO<sub>2</sub> Removal Section for a Biogas-based Oxidative Coupling of Methane Process. In: *Blucher Chemical Engineering Proceedings*. Editora Blucher. doi: 10.5151/cobeq2018-co.021

## **Oral Presentations Without Proceedings**

- H. R. Godini, T. Karsten, C. Hoffmann, O. Görke, G. Wozny und J.-U. Repke (2017). Integrated Membrane Reactors for Efficient Ethylene and Methanol Production. In: *Third European Workshop on Membrane Reactors, Verona, Italy*

## **Supervised Theses**

- C. Hoffmann (2015). Real-time Optimization and Moving-horizon State Estimation for a Hydroformylation Plant. *Masterarbeit*. Technische Universität Berlin
- C. Hoffmann (2013). Simulation von Absorptionsprozessen mit ASPEN Plus für das Absorptionsmittel Methylidiethanolamin-Piperazin. *Bachelorarbeit*. Technische Universität Berlin

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# Codeverzeichnis

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# Symbolverzeichnis

## Griechische Symbole

Symbol	Beschreibung	Einheit
$\alpha$	Non-randomness factor in NRTL-Modell	–
$\alpha$	Parameter in Gleichung für Verdampfungsenthalpie	$\text{J mol}^{-1}$
$\alpha$	Trennfaktor für binäre VLEs	–
$\Delta$	Differenz	verschieden

## Indizes

Symbol	Beschreibung
$i$	Index für Komponenten
$j$	Index für Komponenten
$k$	Index der Strukturgruppe

## Konstanten

Symbol	Beschreibung	Einheit
$R$	Universelle Gaskonstante = 8,314 46	$\text{J mol}^{-1} \text{K}^{-1}$

## Lateinische Symbole

Symbol	Beschreibung	Einheit
$A$	Parameter in Antoine-Gleichung	–

## Symbolverzeichnis

$A$	Porter-Parameter	-
$B$	Parameter in Antoine-Gleichung	K
$B$	Zweiter Virialkoeffizient (Leiden-Form)	$\text{m}^3 \text{mol}^{-1}$
$B'$	Zweiter Virialkoeffizient (Berlin-Form)	$\text{Pa}^{-1}$

## Dimensionslose Kennzahlen

Symbol	Beschreibung	Definition
Re	Reynoldszahl	$\frac{wd\rho}{\eta}$

## Operatoren

Symbol	Beschreibung	Definition
$\nabla$	Nabla-Operator	$\left[ \frac{\partial}{\partial x_1}, \dots, \frac{\partial}{\partial x_n} \right]^T$
rot	Rotationsoperator	$\text{rot } \vec{g} = \nabla \times \vec{g}$

## Superskripte

Symbol	Beschreibung
$E$	Exzess
$III$	Phase/Zustand 3
$II$	Phase/Zustand 2
$I$	Phase/Zustand 1

## Subskripte

Symbol	Beschreibung
$0$	Reinstoff
$0$	zu Beginn der Reaktion
$c$	Kritisch

# Abkürzungsverzeichnis

**ab** Active bounds

**DAE** Differential-algebraic equation (system)

**SUNDIALS** Suite of nonlinear and differential-algebraic equation solvers



# 1 Guidelines

This chapter introduces the guidelines for writing a thesis at the Process Dynamics and Operations Group. It is recommended to use L<sup>A</sup>T<sub>E</sub>X as the code of this style guide can directly be used for the thesis. However, a Word version of this template is also available. In the template, the correct fonts, font sizes, citation style, etc. are already set.

## 1.1 Most Important Style Specifications for L<sup>A</sup>T<sub>E</sub>X and Word

The most important style specifications are:

- page format: A4, double page, justification, 11 pt for standard font size
- line spacing
  - o Word: 1.5
  - o L<sup>A</sup>T<sub>E</sub>X: linespacing is set with the `setspace` package and may not be changed
- fonts
  - o Word: Palatino Linotype (text) and MS Reference Sans Serif (headings)
  - o L<sup>A</sup>T<sub>E</sub>X: the font types are specified within this template and may not be changed

## 1 Guidelines

- margins
  - o Word: 35 mm (top), 60 mm (bottom), 27 mm (inside), 40 mm (outside)  
binding correction: 15 mm (only possible when double page is selected); exception: front page
  - o L<sup>A</sup>T<sub>E</sub>X: the given settings for BCOR and DIV may not be changed
- maximum number of pages (only content, excluding lists of ... and appendix): 80 pages (bachelor thesis), 100 pages (master thesis)
- the layout of the front page is fixed and must not be changed, neither in L<sup>A</sup>T<sub>E</sub>X nor in Word.
- of course, loading additional packages in L<sup>A</sup>T<sub>E</sub>X for functionality is fine

**Attention:** If these specifications are (partially) ignored, it will have an impact on the evaluation.

## 1.2 First Steps

1. **carefully read this whole chapter**
2. set the language of the document in the `a_Packages.tex` file with the `babel` package. You will notice that this text is written in English while certain headings are in German. This is because the `babel` package is currently loaded with `ngerman` as default language (see Abschn. 1.7).
3. change the necessary entries in `c_Meta.tex` (e.g. your name, matriculation number, etc.), set the right value of the `isDiss` variable and the `isMT` variable (if it is a thesis) in this file
4. check whether `biblatex` and `makeindex` were set up correctly (see Abschn. 1.8.1)
5. check whether you can compile this document without errors (this should always be the case as long as all necessary packages are in-

stalled). This template was successfully compiled with a TeXLive 2017 distribution. **Some problems appeared when users did not have the newest versions of the used packages in this template. If you run into trouble, please update all your packages<sup>1</sup>.** See some more instructions for TeXLive and MiKTeX in Abschn. 1.8.3

6. remove the guidelines chapter from this document by deleting it and removing it from the o\_Text.tex file in the folder o3\_Content
7. add your own .bib file for your references or use the present one (it is recommended to simply use the given one)
8. start writing your thesis - good luck!
9. note that not all of the shown items in the following sections *must* be part of your thesis. If a certain aspect does not apply to you, e.g. a List of Algorithms, just remove it from the thesis.

### 1.3 General Information

- a) the current „Prüfungsordnung“ overrides the following rules if they contradict the „Prüfungsordnung“.
- b) a thesis is a scientific-technical documentation that must satisfy requirements regarding structure and form. It should be precisely formulated and well-written, i.e. no orthographic or grammar mistakes, etc.
- c) the thesis should be logically structured.
- d) the thesis should present its scientific-technical content while remaining comprehensible. Hence, the author should repeatedly put him- or herself into the position of the reader and evaluate the thesis in this regard.
- e) the Figure, i.e. picture, diagram, photo, is preferred to long explanations.

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<sup>1</sup><https://tex.stackexchange.com/questions/55437/how-do-i-update-my-tex-distribution>,  
January 2019

- f) results must be tractable. Hence, the applied methods, assumptions, boundary conditions, experiments, and computer codes must be pointed out and explained in sufficient detail.
- g) calculations should be documented. This is of course difficult for large models. In this case, the code should be attached to the printed or digital appendix.
- h) the thesis should focus on the central themes and aspects. Other information should be referenced appropriately, but does not have to be repeated extensively.

## 1.4 Form

- a) the thesis must be written in German or English.
- b) sentences should be comprehensible. Germans tend to formulate complex phrases with many sub-clauses. This should be avoided.
- c) physical units must always be given and are preferably stated in SI units. Units must not be stated in brackets:
  - *WRONG:* Pressure  $P$  [Pa]
  - *RIGHT:* Pressure  $P$  in Pa

The only correct use of square brackets is shown here for the voltage:  $[U] = V$ , i.e. the unit of the voltage is volt.

- d) a List of Symbols and a List of Abbreviations must be included. This is done with the `nomentbl` and the `acronym` package in this template. Furthermore, symbols should be explained in the text after their first appearance. A List of Algorithms or other lists can be added if necessary.
- e) figures, tables, and equations must be numerated and referenced in the text. This is automatically done using the `caption` package (see Abschn. 1.11) and the `\autoref` command (Abschn. 1.11.7). For example,

a Figure is named Figure chapter.Num (Fig. 2.1). The numeration is done automatically in this template.

In addition, figures and tables must also be explained and discussed in the text.

- f) figures should be chosen to support comprehension. In particular, the most important details and relevant labels must be *readable*.
- g) extensive tables or figures that are repeatedly referenced in the text should be put in the appendix.
- h) information or data not generated by the author must always be referenced. Citations/references are used to
  - document and justify one's own statements,
  - differ between one's own statements and those made by others,
  - help the reader to assess the origin of a statement

All information not generated by the author must be marked with a short reference, which is accompanied by the extensive reference in the bibliography. It is not important if this information appears directly or indirectly in the text. We either use the authoryear or the numerical short citation.

The most important rule is: The references must be complete and follow a consistent format. This is more important than following a specific citation style. If possible, the DOI/ISBN of an article/book should be part of the citation. This is also included automatically in this template. The commands and some examples are shown in Abschn. 1.11.4.

## 1.5 Appearance

- a) the format of the page numbering is already specified and may not be changed.
- b) there is a maximum of four indenture levels in the text and a maximum of three levels in the table of contents.

## 1 Guidelines

- c) the sections of the appendix are numerated alphabetically in capital Latin letters. This is already specified in this template.
- d) important aspects can be emphasized with *italics*, **bold writing**, or using the *emphasize command* \emph. Underlining words should be avoided.
- e) paragraphs should not start in the last two lines of a page („Schusterjunge“ or orphen) or end in the first two lines of a page („Hurenkind“ or widow). This is automatically achieved with the nowidow package in this template.

## 1.6 Template Structure

This section describes the structure of this template. Questions remaining unanswered can be forwarded to Christian Hoffmann (c.hoffmann@tu-berlin.de).

### 1.6.1 Main Features

- valid for theses or dissertations
- can be used with online editors, such as Overleaf (see Abschn. 1.10)
- can be used in German and English
- simple generation of List of Symbols (Latin, Greek, etc.) with the nomencltbl package
- simple generation of List of Abbreviations with the acronym package
- includes bibliography via biblatex and biber
- includes DOI/ISBN/URL automatically in references

### **1.6.2 Main Document**

- is called main.tex
- this document must be compiled in L<sup>A</sup>T<sub>E</sub>X

### **1.6.3 01\_Document\_administration**

The following files are located in this folder:

a) a\_Packages.tex

- contains all packages, which are loaded
- packages are sorted based on their application
- all packages of this template and their references are stated in Tab. D.1

b) b\_Commands.tex

- contains further commands regarding formatting and look of the document
- also sorted

c) c\_Meta.tex

- contains meta information regarding author, etc.
- contains a boolean variable to select whether it is a dissertation or a bachelor/master thesis
- contains a boolean variable to select whether it is a master or a bachelor thesis

d) d\_NomenclatureCommands.tex

- defines structure of the List of Symbols
- optional argument defines the class of a symbol (Latin, Greek, ...)

## *1 Guidelines*

- makeindex is used for the generation of the List of Symbols. A short instruction how to run makeindex correctly in Texmaker is given in Abschn. 1.8.1.
- e) e\_Header\_Footer.tex
  - defines headers and footers

### **1.6.4 02\_Prematter**

The following files are located in this folder:

- a) a\_Cover\_Diss.tex and a\_Cover\_Thesis.tex
  - creates the cover page
  - main.tex loads either a\_Cover\_Thesis.tex (cover of a bachelor/-master thesis) or a\_Cover\_Diss.tex (cover of a dissertation), depending on the value of `isDiss` set in c\_Meta.tex. Both covers are shown in Abb. 1.1.
- b) b\_Declaration.tex
  - declaration that the thesis was written honestly
- c) c\_Acknowledgements.tex
  - thank important people
- d) d\_Summary.tex
  - summarize your thesis in German and English
- e) e\_Nomenclature.tex
  - enter all symbols and explain them
  - examples are provided
- f) f\_Abbreviations.tex
  - enter all abbreviations and explain them
  - examples are provided



*Abb. 1.1: Covers of this template.*

### 1.6.5 02a\_Dissertation\_files

This folder contains files that are only needed for dissertations. They are included if `isDiss` is set to `true`. Bachelor/Master theses do not have to consider them. However, if you want to dedicate your thesis to someone, you can of course include the dedication. The following files are located in this folder:

- a) a\_Dedication.tex
  - dedicate your dissertation to someone
- b) b\_Publications.tex
  - states all publications that were written in preparation of the dissertation

### **1.6.6 03 \_Content**

The following files are located in this folder:

- a) o\_Text.tex
  - loads all chapters
- b) X\_iii.tex
  - contains the single chapters
  - can be split further if deemed necessary

### **1.6.7 04 \_Literature**

The following files are located in this folder:

- a) Bibliography.bib
  - contains the literature

### **1.6.8 05 \_Appendix**

The following files are located in this folder:

- a) o\_Appendix.tex
  - loads all appendix chapters
- b) X\_Appendix.tex
  - contains the Xth appendix
- c) a\_CodeLanguageSpecifications
  - can be used to define a set of keywords and comment commands for a certain programming language

- if you want to apprehend your code in your thesis, you can either copy the code to a `lstlistings` environment (see example in `05_Appendix/1_Appendix.tex`) or directly include your files
- more information can be found in the `lstlistings` documentation

## 1.7 Language: English or German?

The language of this document is set with the `babel` package. The order of the loaded languages determines the default language. Usually, `ngerman` is default (and hence the *second*) language. The `babel` package automatically sets the localized names for Tables and Figures, provides the correct hyphenation, and does more language-related things. In case the thesis is written in English, the order of the languages when loading the `babel` package must be changed.

If the language is English, it is recommended to change the output decimal marker for SI units (`siunitx` package) to a period. This can be changed in the `a_Packages.tex` file where the `siunitx` package is loaded.

## 1.8 L<sup>A</sup>T<sub>E</sub>X Editor Settings and Maintenance

### 1.8.1 Biblatex and Makeindex

- to compile the file correctly, `biblatex` and `makeindex` are used
- command line for setting up `biblatex` in Texmaker (see Abb. 1.2):
  - a) Windows:  
`"C:/path_to/biber.exe" %`  
in TeXLive, biber is located in bin/win32
  - b) Linux:  
`"/usr/path_to/biber" %`
  - c) MacOS:  
`"/usr/path_to/biber" %.bcf`

## 1 Guidelines

- command line for setting up makeindex in Texmaker (see Abb. 1.2):
  - a) Windows:  
"C:/path\_to/makeindex.exe" %.nlo -s mynomentbl.list -o %.nls  
in TeXLive, makeindex is located in bin/win32
  - b) Linux:  
"/usr/path\_to/makeindex" %.nlo -s mynomentbl.list -o %.nls
  - c) MacOS:  
"/usr/path\_to/makeindex" %.nlo -s mynomentbl.list -o %.nls
- the necessary mynomentbl.list file is located in the template folder
- if you use another editor than Texmaker, check your editor's documentation to find out how to run biblatex (biber) and makeindex in this software. However, the paths/commands should be the same.

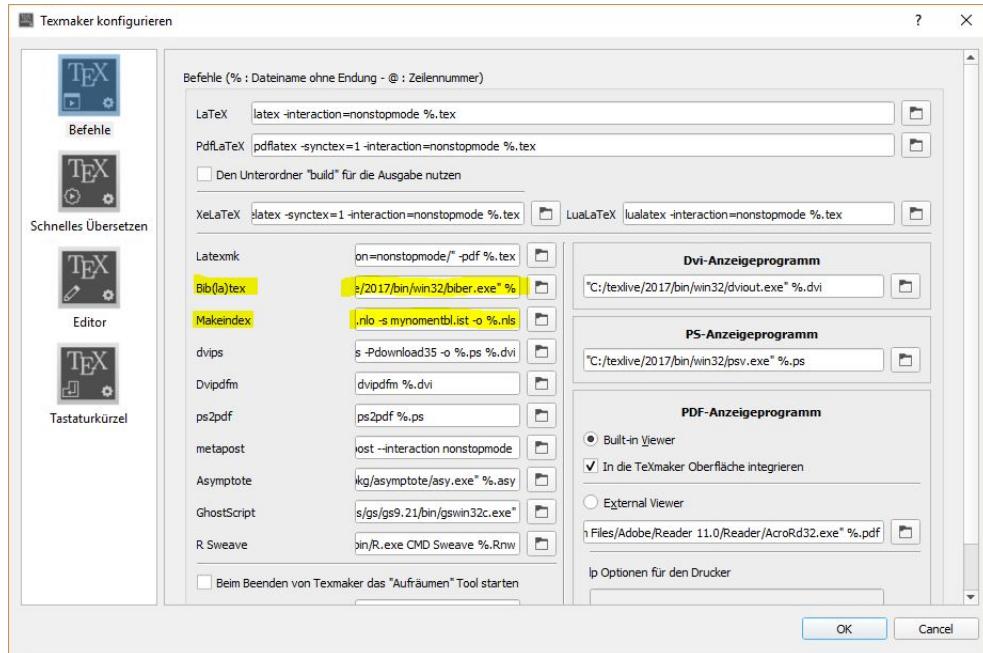


Abb. 1.2: Setting up biblatex and makeindex in Texmaker. Zoom in if you need more details.

### 1.8.2 Compiling the Document

The following commands/scripts must be run to compile the document completely:

1. pdflatex: This generates a first PDF. At this point, the List of References and the List of Symbols are missing.
2. biblatex: Run biber (Texmaker standard short key: F11) after you set it up according to Abschn. 1.8.1. This creates the necessary temporary reference file.
3. makeindex: Run makeindex (Texmaker standard short key: F12) after you set it up according to Abschn. 1.8.1. This creates the necessary temporary nomenclature file.
4. pdflatex (two times): The first run should already generate the List of References and the List of Symbols. The second run should update all citations etc. in the PDF.

### 1.8.3 Updating Packages in T<sub>E</sub>XLive and MiK<sup>T</sup><sub>E</sub>X

As stated above, compiling problems appeared with this template when old versions of the packages were used. Unfortunately, there does not seem to be a possibility to automatically check for updates of packages when they are included in a L<sup>A</sup>T<sub>E</sub>X document.

In case you have issues when compiling this document, start with updating all your packages. The following instructions are valid for a Windows operating system.

**T<sub>E</sub>XLive:** In T<sub>E</sub>XLive, the packages are managed via the tlmgr. The GUI of the tlmgr is located in `texlive/year/bin/win32`. In this folder, you find a file called `tlmgr-gui.exe`. Execute this file and the application shown in Abb. 1.3 starts. Use this application to update your packages.

## 1 Guidelines

**MiK<sub>T</sub>E<sub>X</sub>:** In MiK<sub>T</sub>E<sub>X</sub>, the packages are managed in the MiK<sub>T</sub>E<sub>X</sub> console (package manager in older versions), see Abb. 1.4. Use this application to update your packages.

Similar applications are available on all other operating systems. Restart your L<sub>A</sub>T<sub>E</sub>X editor after updating all packages and see whether you can compile this template without errors. If your problem persists, contact Christian Hoffmann (c.hoffmann@tu-berlin.de).

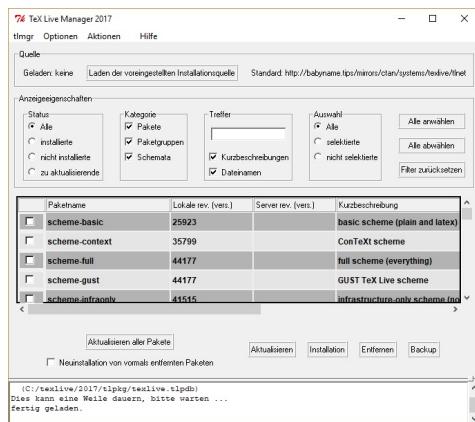


Abb. 1.3: Updating packages in Windows for T<sub>E</sub>XLive.

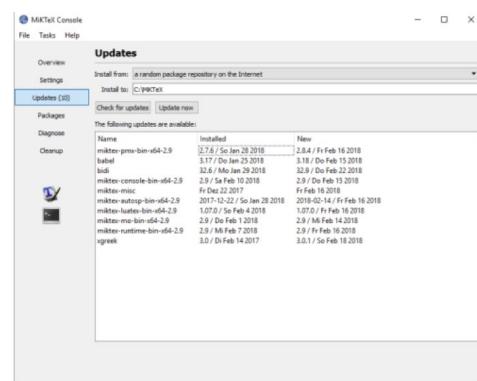


Abb. 1.4: Updating packages in Windows for MiK<sub>T</sub>E<sub>X</sub>.

## 1.9 Compatibility with PDF/A

Dissertations are stored as PDF/A at the university library. To ensure compatibility of this template with PDF/A, the `pdfx` package is used with the option `a-1b`. The compiled PDF was successfully validated with Callas<sup>2</sup>, as recommended by the university library<sup>3</sup>. Note that contrary to the descriptions given in the linked document in Fußnote 3, a specific color profile is *not* necessary if you use an up-to-date version of the `pdfx` package as it automatically includes a free color profile. Check the documentation of the `pdfx`

<sup>2</sup><https://conversion.ub.tu-berlin.de/>, December 2018

<sup>3</sup>[https://www.ub.tu-berlin.de/fileadmin/pdf/Verlag/UV\\_pdfaDE.pdf](https://www.ub.tu-berlin.de/fileadmin/pdf/Verlag/UV_pdfaDE.pdf), December 2018

## 1.10 Support for Overleaf or other online editors

package to find how to include other color profiles. Normally, the default should however suffice.

The screenshot shows a web-based PDF/A validation and conversion tool. At the top, there's a logo for 'Technische Universität Berlin' and navigation links for 'Home', 'Hilfe', 'Logout', and language selection ('En | De'). The main area has a title 'PDF/A Validierung und Konvertierung'. It displays a message: 'Sie haben die folgende Datei hochgeladen: main.pdf'. Below this, there are two dropdown menus: 'Als PDF/A validieren:' set to '1b' and 'Zu PDF/A konvertieren:' also set to '1b'. To the right of these are green 'Validieren' and blue 'Konvertieren' buttons. There are four input fields for optional metadata: 'Autor(en) mit ; getrennt', 'Titel', 'Keywords mit ; getrennt', and 'Kurzbeschreibung'. A note below says: 'Wenn Sie die Datei fertig bearbeitet haben, löschen Sie die Datei bitte vom Server.' with a blue 'Löschen' button. At the bottom left is a green 'OK' button with a checkmark icon. On the right, there's a 'Details:' section showing summary statistics: Summary Corrections 0, Summary Errors 0, Summary Warnings 0, and Summary Infos 0.

Abb. 1.5: PDF/A validation.

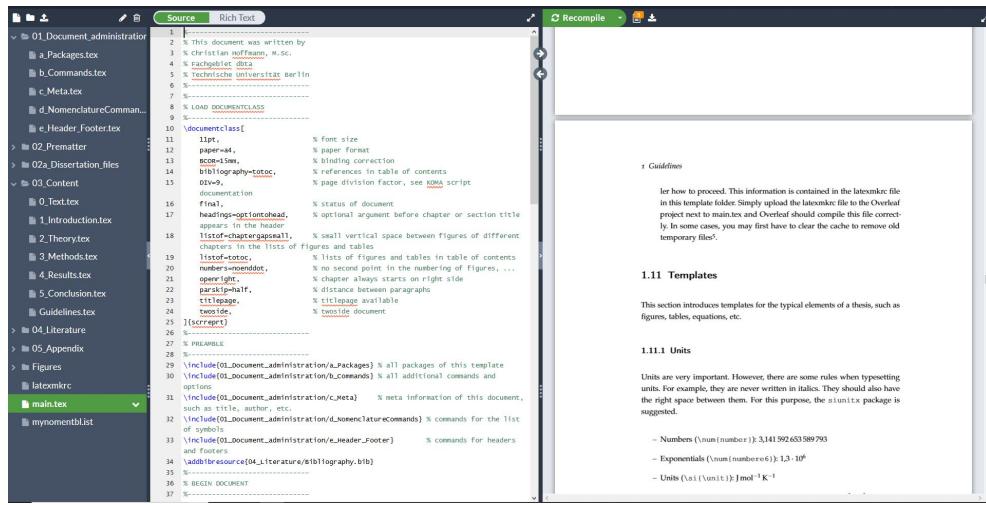
## 1.10 Support for Overleaf or other online editors

- this template was successfully tested with Overleaf, an online editor for L<sup>A</sup>T<sub>E</sub>X documents<sup>4</sup>, see Abb. 1.6. If you would like to write in such an online environment, simply upload the template folder to a new empty project and compile it online. In this way, you do not have to install any L<sup>A</sup>T<sub>E</sub>X distribution locally. **Note that this is not advised if you have sensitive data, e.g. from a company in the industry. In this case, your data should remain on your computer!**
- The only dependency Overleaf does not directly support is nomentbl. As this package needs makeindex, you have to tell the Overleaf compi-

<sup>4</sup><https://de.overleaf.com/>, January 2019

## 1 Guidelines

ler how to proceed. This information is contained in the latexmkrc file in this template folder. Simply upload the latexmkrc file to the Overleaf project next to main.tex and Overleaf should compile this file correctly. In some cases, you may first have to clear the cache to remove old temporary files<sup>5</sup>.



The screenshot shows the Overleaf LaTeX editor interface. On the left, there is a file tree with the following structure:

- 01.Document\_Administration
  - a.Packages.tex
  - b.Commands.tex
  - c.Meta.tex
  - d.NomenclatureCommands
  - e.Header\_Footer.tex
- 02\_Preamble
- 02a\_Dissertation\_files
- 03\_Content
  - 0\_Text.tex
  - 1\_Introduction.tex
  - 2\_Theory.tex
  - 3\_Methods.tex
  - 4\_Results.tex
  - 5\_Conclusion.tex
  - Guidelines.tex
- 04\_Literature
- 05\_Appendix
- Figures
- latexmkrc
- main.tex
- myomentlist

The main area shows the LaTeX code for the `main.tex` file. The code includes various document classes, packages like `amsmath`, `amssymb`, `amsfonts`, `graphicx`, `color`, `hyperref`, and `listings`, and commands for sections, figures, and tables. It also includes a bibliography section and a conclusion.

Abb. 1.6: Template on Overleaf.

## 1.11 Templates

This section introduces templates for the typical elements of a thesis, such as figures, tables, equations, etc.

### 1.11.1 Units

Units are very important. However, there are some rules when typesetting units. For example, they are never written in italics. They should also have the right space between them. For this purpose, the `siunitx` package is suggested.

<sup>5</sup>[https://www.overleaf.com/learn/how-to/Clearing\\_the\\_cache](https://www.overleaf.com/learn/how-to/Clearing_the_cache), January 2019

- Numbers (`\num{number}`): 3,141 592 653 589 793
- Exponentials (`\num[number e 6]{number}`):  $1,3 \cdot 10^6$
- Units (`\si{\unit}`):  $\text{J mol}^{-1} \text{K}^{-1}$
- Numbers+units (`\SI[number]{number}{\unit}`):  $8,314 \text{J mol}^{-1} \text{K}^{-1}$
- Ranges (`\SIrange[number1]{number1}{number2}{\unit}`): 4 to 10 K.
- Uncertainty (`\num[number(uncertainty)]{number}`):  $410,33 \pm 0,55$
- Uncertainty with units (`\SI[number(uncertainty)]{\unit}{number}`):  $(410,33 \pm 0,55) \text{J}$

### 1.11.2 Figures

A template for a Figure is given in Abb. 1.7. Abbildung 1.7 should not be abbreviated at the beginning of a sentence. Note that the often used `\ref` command is not used here. Instead, Abschn. 1.11.7 introduces the `\autoref` command. In addition, a short command for including figures was set up with the `xparse` package:

```
\myfigure[opt1][opt2]{arg1}[opt3]{arg2}[opt4]
```

Therein,

- `opt1` is the preferred location of the float, e.g. `tbh`
- `opt2` is the fraction of the linewidth the figure should cover. It can be a value between 0 and 1
- `arg1` is the file name of the figure
- `opt3` is the short caption for the List of Figures
- `arg2` is the caption of the figure in the text
- `opt4` is the label of the figure

# d|b|t|a

## Fachgebiet

## Dynamik und Betrieb technischer Anlagen

**Abb. 1.7:** This is the caption of the Figure in the text. It is placed below the Figure. It can be longer here and contain additional information, such as references or keys for the graphs. Note that one line captions are justified. A full stop is automatically added after the last sign.

### 1.11.3 Tables

A template for a Table is given in Tab. 1.1. Tabelle 1.1 should not be abbreviated at the beginning of a sentence.

**Tab. 1.1:** This is the caption of the Table in the text. It is placed above the table. It can be longer and contain additional information. Vertical lines should be avoided in tables. A full stop is automatically added after the last sign.

Entry 1	Entry 2	Entry 3
Unit 1	Unit 2	Unit 3
1	2	3
4	5	6

### 1.11.4 References

In the following, a few examples of the authoryear short reference are stated. For more information, the reader is referred to the documentation of the `biblatex` package. Biblatex is used because it is compatible with UTF8. Hence, Umlaute, such as ä, do not have to be rewritten as was the case in `bibtex`. Example: (Müller, 2018), see .bib file. In addition, `biblatex` supports editing of the citation style via `TeX` and `LATeX` commands. Hence, the tedious editing of bibliography styles (.bst files), which were used with `bibtex`, is not necessary anymore.

- Books: (Coker, 2007, S. 221), Coker (2007, S. 221)
- Articles: (Abrams und Prausnitz, 1975), Abrams und Prausnitz (1975)
- Online: (NIST Chemistry Webbook, 2017), NIST Chemistry Webbook (2017)
- Dissertations: (Cuda, 2012), Cuda (2012)
- Bachelor/Master thesis: (Hoffmann, 2015), Hoffmann (2015)

These commands are used as

- `\textcite{bibtexkey}`: „Abrams und Prausnitz (1975) stated that thermodynamics are great.“
- `\parencite{bibtexkey}`: „Thermodynamics are great (Abrams und Prausnitz, 1975).“

### 1.11.5 Equations

An exemplary Equation is given in Gl. (1.1). Gleichung (1.1) should not be abbreviated at the beginning of a sentence. The efficient used commands to generate the partial derivative were made with the `xparse` package.

$$\left( \frac{\partial^2 f}{\partial x^2} \right) = \left[ \frac{\partial^4 g}{\partial x^4} \right]. \quad (1.1)$$

For important equations, you might want to use the `empheq` package:

$$E = mc^2 \quad (1.2)$$

### 1.11.6 Theorems, Lemmas, Proofs, Remarks, Definitions, and Algorithms

All of these items are introduced in the following. Note that frames and their colors are arbitrary. You might want to change the color or the linewidth. You can do this in the `b_Commands.tex` file.

**Theorems:** Theorems can be defined using the `amsthm` package in combination with the `mdframed` package for a possible frame. An exemplary Theorem is given in Satz 1.1.

**Satz 1.1 (What is theorem'd):** *Let  $f$  be a function whose derivative exists in every point, then  $f$  is a continuous function.*

**Lemmas:** Lemmas can be defined using the `amsthm` package in combination with the `mdframed` package for a possible frame. An exemplary Lemma is given in Hilfssatz 1.1.

**Hilfssatz 1.1 (What needs to be lemma'd):** *Given two line segments whose lengths are  $a$  and  $b$ , respectively, there is a real number  $r$  such that  $b = ra$ .*

**Proofs:** Proofs can be defined using the `amsthm` package. They are typically not numerated as they follow a certain Theorem or Lemma.

*What needs to be proven.* To prove it by contradiction, try and assume that the statement is false, proceed from there, and at some point, you will arrive at a contradiction.  $\square$

**Remarks:** Remarks can be defined using the `amsthm` package in combination with the `mdframed` package for a possible frame. An exemplary Remark is given in Bem. 1.1.

**Bemerkung 1.1 (What the remarker remarks):** *This statement is true, I guess.*

**Definitions:** Definitions can be defined using the `amsthm` package in combination with the `mdframed` package for a possible frame. An exemplary Definition is given in Def. 1.1. Gleichung (1.3) can also be referenced.

**Definition 1.1 (What the definition defines):** This is a definition. It defines itself.

$c = \infty$

(1.3)

**Algorithms:** Algorithms can be displayed using the algorithm2e package. An example is shown in Alg. 1.1.

---

**Algorithmus 1.1:** How to write algorithms

---

**Data:** this text

**Result:** how to write algorithm

initialization;

**while** not at end of this document **do**

    read current;

**if** understand **then**

        go to next section;

        current section becomes this one;

**else**

        go back to the beginning of current section;

**end**

**end**

---

### 1.11.7 Autorefs

The hyperref package also supplies an \autoref command that is linked to babel. In this case, Fig. or Tab. are localized and you do not have to remember whether you used Fig. or Figure or something else in the text. As stated above, at the beginning of a sentence, the long version of an item should be used (the \Autoref{label} command was defined for this purpose). Some short forms are equal to their long forms as there is not really a good abbreviation:

- a) German ...

## 1 Guidelines

- ..., siehe Kap. 1. Kapitel 1 zeigt, dass ...
- ..., siehe Abschn. 1.11. Abschnitt 1.11 zeigt, dass ...
- ..., siehe Abschn. 1.8.1. Abschnitt 1.8.1 zeigt, dass ...
- ..., siehe Abb. 1.7. Abbildung 1.7 zeigt, dass ...
- ..., siehe Tab. 1.1. Tabelle 1.1 zeigt, dass ...
- ..., siehe Gl. (1.1). Gleichung (1.1) zeigt, dass ...
- ..., siehe Satz 1.1. Satz 1.1 zeigt, dass ...
- ..., siehe Hilfssatz 1.1. Hilfssatz 1.1 zeigt, dass ...
- ..., siehe Bem. 1.1. Bemerkung 1.1 zeigt, dass ...
- ..., siehe Def. 1.1. Definition 1.1 zeigt, dass ...
- ..., siehe Alg. 1.1. Algorithmus 1.1 zeigt, dass ...

b) English ...

- ..., see Chap. 1. Chapter 1 shows that ...
- ..., see Sec. 1.11. Section 1.11 shows that ...
- ..., see Subsec. 1.8.1. Subsection 1.8.1 shows that ...
- ..., see Fig. 1.7. Figure 1.7 shows that ...
- ..., see Tab. 1.1. Table 1.1 shows that ...
- ..., see Eq. (1.1). Equation (1.1) shows that ...
- ..., see Theorem 1.1. Theorem 1.1 shows that ...
- ..., see Lemma 1.1. Lemma 1.1 shows that ...
- ..., see Remark 1.1. Remark 1.1 shows that ...
- ..., see Def. 1.1. Definition 1.1 shows that ...
- ..., see Alg. 1.1. Algorithm 1.1 shows that ...

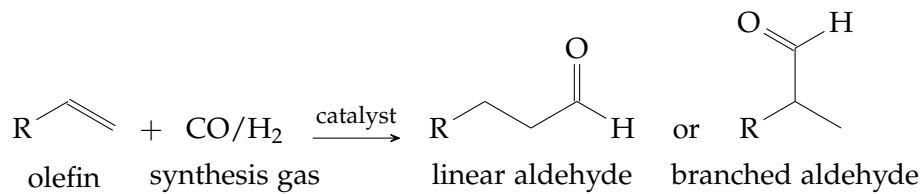
### 1.11.8 Acronyms and Abbreviations

New acronyms must typically be explained at their first appearance in the text. The \ac command uses the defined acronyms (see List of Abbreviations)

for doing that. For example, the **Suite of nonlinear and differential-algebraic equation solvers** (SUNDIALS) is explained here, but not afterwards because SUNDIALS was already defined. The same is true for a **Differential-algebraic equation (system)** (DAE). Later on, we just write DAE systems. It seems to be more to write, but thus you make sure that an abbreviations is explained only at its first appearance ... even if you change your text completely. In addition, you link your abbreviations to the List of Abbreviations.

### 1.11.9 Chemistry and Chemical Reactions

Sometimes it is necessary to state chemical reactions or molecules. For this purpose, the `chemfig` and the `mhchem` package are used as shown in Abb. 1.8.



*Abb. 1.8: Hydroformylation reaction scheme to demonstrate the two chemistry packages (based on some reference).*



**1.12 The Sectioning  
Command for Chapters  
Supports not only  
the Heading Text Itself  
but also  
a Short Version Whose  
Use can be Controlled**

If your chapters or sections have long titles (which they should not have), you can use an optional argument for chapter or section commands to shorten it in the header. You can even manipulate the chapter or section title. Normally, the use of this option is not necessary.



## **2 Introduction**

Some introducing words ...

### **2.1 Motivation and Objective**

Why this subject is important and what is the goal of this thesis ...

### **2.2 Literature Review**

What are relevant publications in this field and why is their work important for this thesis?

### **2.3 Outline of Work**

What is the structure of this thesis?



### 3 Theoretical Background

Some introducing words ...

In this chapter, all fundamentals that are necessary to understand this work are introduced.



## 4 Methods

Dies hier ist ein Blindtext zum Testen von Textausgaben. Wer diesen Text liest, ist selbst schuld. Der Text gibt lediglich den Grauwert der Schrift an. Ist das wirklich so? Ist es gleichgültig, ob ich schreibe: „Dies ist ein Blindtext“ oder „Huardest gefburn“? Kjift – mitnichten! Ein Blindtext bietet mir wichtige Informationen. An ihm messe ich die Lesbarkeit einer Schrift, ihre Anmutung, wie harmonisch die Figuren zueinander stehen und prüfe, wie breit oder schmal sie läuft. Ein Blindtext sollte möglichst viele verschiedene Buchstaben enthalten und in der Originalsprache gesetzt sein. Er muss keinen Sinn ergeben, sollte aber lesbar sein. Fremdsprachige Texte wie „Lorem ipsum“ dienen nicht dem eigentlichen Zweck, da sie eine falsche Anmutung vermitteln. Dies hier ist ein Blindtext zum Testen von Textausgaben. Wer diesen Text liest, ist selbst schuld. Der Text gibt lediglich den Grauwert der Schrift an. Ist das wirklich so? Ist es gleichgültig, ob ich schreibe: „Dies ist ein Blindtext“ oder „Huardest gefburn“? Kjift – mitnichten! Ein Blindtext bietet mir wichtige Informationen. An ihm messe ich die Lesbarkeit einer Schrift, ihre Anmutung, wie harmonisch die Figuren zueinander stehen und prüfe, wie breit oder schmal sie läuft. Ein Blindtext sollte möglichst viele verschiedene Buchstaben enthalten und in der Originalsprache gesetzt sein. Er muss keinen Sinn ergeben, sollte aber lesbar sein. Fremdsprachige Texte wie „Lorem ipsum“ dienen nicht dem eigentlichen Zweck, da sie eine falsche Anmutung vermitteln.

### 4.1 New Section

Dies hier ist ein Blindtext zum Testen von Textausgaben. Wer diesen Text liest, ist selbst schuld. Der Text gibt lediglich den Grauwert der Schrift an.

Ist das wirklich so? Ist es gleichgültig, ob ich schreibe: „Dies ist ein Blindtext“ oder „Huardest gefburn“? Kjift – mitnichten! Ein Blindtext bietet mir wichtige Informationen. An ihm messe ich die Lesbarkeit einer Schrift, ihre Anmutung, wie harmonisch die Figuren zueinander stehen und prüfe, wie breit oder schmal sie läuft. Ein Blindtext sollte möglichst viele verschiedene Buchstaben enthalten und in der Originalsprache gesetzt sein. Er muss keinen Sinn ergeben, sollte aber lesbar sein. Fremdsprachige Texte wie „Lorem ipsum“ dienen nicht dem eigentlichen Zweck, da sie eine falsche Anmutung vermitteln. Dies hier ist ein Blindtext zum Testen von Textausgaben. Wer diesen Text liest, ist selbst schuld. Der Text gibt lediglich den Grauwert der Schrift an. Ist das wirklich so? Ist es gleichgültig, ob ich schreibe: „Dies ist ein Blindtext“ oder „Huardest gefburn“? Kjift – mitnichten! Ein Blindtext bietet mir wichtige Informationen. An ihm messe ich die Lesbarkeit einer Schrift, ihre Anmutung, wie harmonisch die Figuren zueinander stehen und prüfe, wie breit oder schmal sie läuft. Ein Blindtext sollte möglichst viele verschiedene Buchstaben enthalten und in der Originalsprache gesetzt sein. Er muss keinen Sinn ergeben, sollte aber lesbar sein. Fremdsprachige Texte wie „Lorem ipsum“ dienen nicht dem eigentlichen Zweck, da sie eine falsche Anmutung vermitteln.

## 4.2 New Section

Dies hier ist ein Blindtext zum Testen von Textausgaben. Wer diesen Text liest, ist selbst schuld. Der Text gibt lediglich den Grauwert der Schrift an. Ist das wirklich so? Ist es gleichgültig, ob ich schreibe: „Dies ist ein Blindtext“ oder „Huardest gefburn“? Kjift – mitnichten! Ein Blindtext bietet mir wichtige Informationen. An ihm messe ich die Lesbarkeit einer Schrift, ihre Anmutung, wie harmonisch die Figuren zueinander stehen und prüfe, wie breit oder schmal sie läuft. Ein Blindtext sollte möglichst viele verschiedene Buchstaben enthalten und in der Originalsprache gesetzt sein. Er muss keinen Sinn ergeben, sollte aber lesbar sein. Fremdsprachige Texte wie „Lorem ipsum“ dienen nicht dem eigentlichen Zweck, da sie eine falsche Anmutung vermitteln. Dies hier ist ein Blindtext zum Testen von Textausgaben. Wer

diesen Text liest, ist selbst schuld. Der Text gibt lediglich den Grauwert der Schrift an. Ist das wirklich so? Ist es gleichgültig, ob ich schreibe: „Dies ist ein Blindtext“ oder „Huardest gefburn“? Kjift – mitnichten! Ein Blindtext bietet mir wichtige Informationen. An ihm messe ich die Lesbarkeit einer Schrift, ihre Anmutung, wie harmonisch die Figuren zueinander stehen und prüfe, wie breit oder schmal sie läuft. Ein Blindtext sollte möglichst viele verschiedene Buchstaben enthalten und in der Originalsprache gesetzt sein. Er muss keinen Sinn ergeben, sollte aber lesbar sein. Fremdsprachige Texte wie „Lorem ipsum“ dienen nicht dem eigentlichen Zweck, da sie eine falsche Anmutung vermitteln.



## 5 Results and Discussion



# **6 Conclusion and Outlook**

Some introducing words ...

## **6.1 Conclusion**

## **6.2 Outlook and Future Directions**



# Literaturverzeichnis

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# A Appendix 1

*Code A.1: Code example for AMPL.*

```
1 reset; # all blue words are keywords in this language
2           # they are defined in the file 05_Appendix/
3           a_CodeLanguageSpecifications.tex
4
5 model simulation.mod;
6 data simulation.dat;
7 include initial.dat;
8 option ipoptoptions "halt_on_ampl_error,yes";
9 let e0_param := 4;
10
11 solve;
```



## B Appendix 2

*Code B.1:* Code example for Matlab.

```
1 clc
2 clear
3 close all
4
5 e0_param = 4;
6
7 j=0;
8 for i=1:e0_params % this loop is incredibly smart
9     if l==2
10         j=j+1;
11     else
12         j=j-1;
13     end
14 end
```



## C Appendix 3

Especially in the appendix, it is common that long tables appear, which contain experimental or simulated data. For this purpose, the `longtable` environment can be used. The `\autoref` command to reference tables works for them as well (Tab. C.1).

*Tab. C.1: This is a longtable, because it is a long table.*

Ragged right	Ragged left	Justified	Parbox
Result A	Result B	Result C	Result D
Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.

### C Appendix 3

Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.

---

*Tab. C.2: The caption of a long table on the first page.*

Ragged right	Ragged left	Justified	Parbox
Result A	Result B	Result C	Result D
Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.

---

Continued on next page

*Tab. C.2 (continued).*

Ragged right	Ragged left	Justified	Parbox
Result A	Result B	Result C	Result D
Text.	Text.	Text.	Longer text to create li- ne breaks.
Text.	Text.	Text.	Longer text to create li- ne breaks.



## D Appendix 4

*Tab. D.1: List of all packages in this template.*

Package name	Reference
<b>Document class</b>	
KOMA script	<a href="https://ctan.org/pkg/koma-script">https://ctan.org/pkg/koma-script</a>
<b>Document and encoding</b>	
babel	<a href="https://ctan.org/pkg/babel?lang=de">https://ctan.org/pkg/babel?lang=de</a>
datetime	<a href="https://ctan.org/pkg/datetime">https://ctan.org/pkg/datetime</a>
fontenc	<a href="https://ctan.org/pkg/fontenc">https://ctan.org/pkg/fontenc</a>
ifthen	<a href="https://ctan.org/pkg/ifthen">https://ctan.org/pkg/ifthen</a>
inputenc	<a href="https://ctan.org/pkg/inputenc">https://ctan.org/pkg/inputenc</a>
microtype	<a href="https://ctan.org/pkg/microtype">https://ctan.org/pkg/microtype</a>
scrlayer-scrpage	<a href="https://ctan.org/pkg/scrlayer-scrpage">https://ctan.org/pkg/scrlayer-scrpage</a>
xparse	<a href="https://ctan.org/pkg/xparse">https://ctan.org/pkg/xparse</a>
<b>Tables</b>	
booktabs	<a href="https://ctan.org/pkg/booktabs">https://ctan.org/pkg/booktabs</a>
longtable	<a href="https://ctan.org/pkg/longtable">https://ctan.org/pkg/longtable</a>
multirow	<a href="https://ctan.org/pkg/multirow">https://ctan.org/pkg/multirow</a>
tabularx	<a href="https://ctan.org/pkg/tabularx">https://ctan.org/pkg/tabularx</a>
<b>Graphics</b>	
graphicx	<a href="https://ctan.org/pkg/graphicx">https://ctan.org/pkg/graphicx</a>
overpic	<a href="https://ctan.org/pkg/overpic">https://ctan.org/pkg/overpic</a>
<b>Fonts, math, and symbols</b>	
amsmath	<a href="https://ctan.org/pkg/amsmath">https://ctan.org/pkg/amsmath</a>
amssymb	
amsthm	<a href="https://ctan.org/pkg/amsthm">https://ctan.org/pkg/amsthm</a>

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*Tab. D.1 (continued).*

cancel	<a href="https://ctan.org/pkg/cancel">https://ctan.org/pkg/cancel</a>
chemfig	<a href="https://ctan.org/pkg/chemfig">https://ctan.org/pkg/chemfig</a>
courier	<a href="https://ctan.org/pkg/courier">https://ctan.org/pkg/courier</a>
empheq	<a href="https://ctan.org/pkg/empheq">https://ctan.org/pkg/empheq</a>
icomma	<a href="https://ctan.org/pkg/icomma">https://ctan.org/pkg/icomma</a>
mathpazo	<a href="https://ctan.org/pkg/mathpazo">https://ctan.org/pkg/mathpazo</a>
mathtools	<a href="https://ctan.org/pkg/mathtools">https://ctan.org/pkg/mathtools</a>
mhchem	<a href="https://ctan.org/pkg/mhchem">https://ctan.org/pkg/mhchem</a>
nicefrac	<a href="https://ctan.org/pkg/nicefrac">https://ctan.org/pkg/nicefrac</a>
siunitx	<a href="https://ctan.org/pkg/siunitx">https://ctan.org/pkg/siunitx</a>
<b>Text</b>	
algorithm2e	<a href="https://ctan.org/pkg/algorithm2e">https://ctan.org/pkg/algorithm2e</a>
blindtext	<a href="https://ctan.org/pkg/blindtext">https://ctan.org/pkg/blindtext</a>
caption	<a href="https://ctan.org/pkg/caption">https://ctan.org/pkg/caption</a>
enumitem	<a href="https://ctan.org/pkg/enumitem">https://ctan.org/pkg/enumitem</a>
footnote	<a href="https://ctan.org/pkg/footnote">https://ctan.org/pkg/footnote</a>
mdframed	<a href="https://ctan.org/pkg/mdframed">https://ctan.org/pkg/mdframed</a>
nowidow	<a href="https://ctan.org/pkg/nowidow">https://ctan.org/pkg/nowidow</a>
placeins	<a href="https://ctan.org/pkg/placeins">https://ctan.org/pkg/placeins</a>
setspace	<a href="https://ctan.org/pkg/setspace">https://ctan.org/pkg/setspace</a>
subcaption	<a href="https://ctan.org/pkg/subcaption">https://ctan.org/pkg/subcaption</a>
xcolor	<a href="https://ctan.org/pkg/xcolor">https://ctan.org/pkg/xcolor</a>
<b>References</b>	
biblatex	<a href="https://ctan.org/pkg/biblatex">https://ctan.org/pkg/biblatex</a>
csquotes	<a href="https://ctan.org/pkg/csquotes">https://ctan.org/pkg/csquotes</a>
<b>List of Symbols and Abbreviations</b>	
acronym	<a href="https://ctan.org/pkg/acronym">https://ctan.org/pkg/acronym</a>
nomentbl	<a href="https://ctan.org/pkg/nomentbl">https://ctan.org/pkg/nomentbl</a>
<b>Code</b>	
listings	<a href="https://ctan.org/pkg/listings">https://ctan.org/pkg/listings</a>
scrhack	
<b>Hyperref and pdfx</b>	

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*Tab. D.1 (continued).*

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hyperref	<a href="https://ctan.org/pkg/hyperref">https://ctan.org/pkg/hyperref</a>
pdfx	<a href="https://ctan.org/pkg/pdfx">https://ctan.org/pkg/pdfx</a>

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