FirstName MiddleName LastName

A LaTeX–template for the preparation of scientific papers

Bachelorarbeit

am Lehrstuhl für Wirtschaftsinformatik, insb. Betriebliche Informationssysteme
(Universität Paderborn)

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Abkürzungsverzeichnis

BPM   Business Process Management

CD   Corporate Design

ERCIS European Research Center for Information Systems

KMU   Kleines und Mittleres Unternehmen

NPM   Node Package Manager

SQL   Structured Query Language

BPMN Business Process Management Notation

NPM   Node Package Manager

Symbolverzeichnis

Π Projection

⋈ Natural Join

σ Selection

1 Abstract

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2 Introduction

This LaTeX template has been developed as an alternative to the Microsoft Word template. `main.tex` is the master file.

This document is work-in-progress and provides instructions on how to use the template. It does not give advices on scientific writing.

These instructions are not intended to be of a legal nature and do not contain any legal information. For further information, please refer to the relevant, legally binding documents (study regulations, examination regulations, etc.) of the respective degree program. These documents contain information on examination law requirements, deadlines, etc., which you must meet and follow independently.

2.1 Elements

This chapter gives examples on what you can do with this template. It's just a brief overview. Please consult the common sources on how to write scientific documents and documents with LaTeX.

2.1.1 Structure

This template provides three structural levels that appear in the table of contents, viz., `\chapter`, `\section`, and `\subsection`. Chapters will always start on a new page. Additionally, you can use `\subsubsection` and `\paragraph` as non-hierarchical means to structure your thesis.

Lists

You can use the default LaTeX functions for writing lists, viz., `\enumerate` for numbered lists and `\itemize` for bullet point lists. Again, the `\subsubsection` and `\paragraph` can be used as structural elements, e.g., when listing definitions of terms.

Footnotes

Footnotes are contiguously numbered throughout the whole document. Use the `\footnote{text}` command. They appear on the page their reference is on [1]. Footnotes have to be placed without white space behind the word and within the sentence boundaries, i.e., before the period.

ToDo-Notes

You can use ToDo notes using the `\todo{text}` command. Please make sure to remove any ToDo notes before handing your thesis!

ToDo: Remove me before publishing

2.1.2 Formatting Text

LaTeX provides `\textit{text}` for *italics*, `\textbf{text}` for **bold face**, `\texttt{text}` for `typewriter`, `\textsc{text}` for SMALL CAPS, `\underline{text}`

---

[1] This is an exemplary footnote.

for underline. Additionally, the template provides `\texthl{text}` for <mark>highlighted text</mark>. Please remove any highlighted text before handing your thesis! Please use the `\enquote{text}` command for „direct quotes".

2.1.3 Figures

The `figure` environment is wrapped around images. These images should either be included as PDF-file via `\includegraphics`, or created via *TikZ/PGF*. For included images, make sure to use high-resolution images, preferably vector images.

Figures float, i.e., they do not necessarily appear at exact the same position you have defined them. Make sure to set a *caption* and an optional *label* as figure parameters.

Abbildung 1   Relationship of students and theses

Subfigures

Sometimes it might be handy to contrast figures, i.e., by placing them next to each other. The template uses the *subcaption* package to provide subfigures. The following example contains two figures, where each subfigure has its own `\label` and `\caption`. Additionally, the whole figure has its own *caption* and *label*. That means, you can reference subfigures fig. 2a and fig. 2b. Only the whole figure will be listed in the table of figures. Subfigures are not limited to images, but may also include listings or tables. Fig. 2 shows a sample database query expressed in Structured Query Language (SQL) (fig. 2a) and as query plan in relational algebra (fig. 2b).
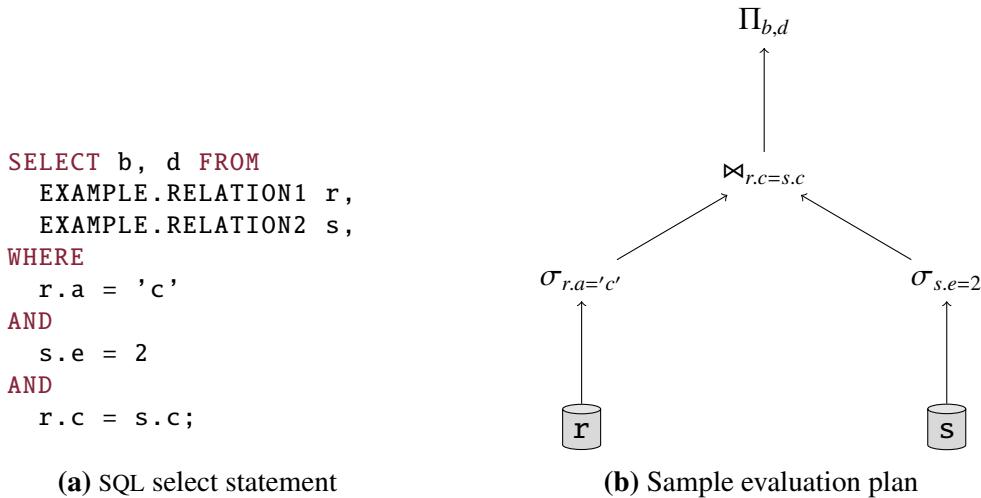


```
SELECT b, d FROM
  EXAMPLE.RELATION1 r,
  EXAMPLE.RELATION2 s,
WHERE
  r.a = 'c'
AND
  s.e = 2
AND
  r.c = s.c;
```

(a) SQL select statement

(b) Sample evaluation plan

Abbildung 2   Exemplary use of subfigures

2.1.4 Listings

You can use listings to typeset source code. This template uses the *listings* package. Wrap code inside the `lstlisting` environment and set the *language* (e.g., Java, SQL), *caption*, and optional *label* parameters. If the source code highlighting highlights the wrong keywords or misses keywords, use the *deletekeywords* resp. *morekeywords* parameters. Consult the package documentation for further information.

```java
public class Euclid {

  public static int gcd(int p, int q) {
    if (q == 0) return p;
    else return gcd(q, p % q);
  }

}
```

Listing 1 Euclid's GCD algorithm implemented in Java

2.1.5 Algorithms

Some users might require specifying algorithms. This template uses the *algorithm*, *algorithmicx*, and *algopseudocode* packages. Consult the respective manuals for further information. Algorithms do not appear in a table at the beginning of the document, i.e., there is no list of algorithms.

Algorithmus 1 Euclid's GCD algorithm in pseudocode

Require: nonnegative integer a, nonnegative integer b
  function EUCLID(a, b)
    if $b = 0$ **then**   ▷ comment
        return a;
    else
        return EUCLID($b, a \mod b$);

2.1.6 Acronyms and Abbreviations

This template provides comprehensive support for acronyms and abbreviations. The template uses the *acronyms* package. Please do only define abbreviations and symbols that are uncommon. That means, common abbreviations such as „e.g. " or „i.e. " should not be listed. Abbreviations and symbols are not sorted automatically by their label. You should sort them by yourself before handing your thesis!

Common Abbreviations

Please note that each full stop in a common abbreviation should be followed by a non-breaking space. This template comes with a variety of macros for common abbreviations,

that can be used throughout your theses. The macros differ for English and German theses. Please see the tables below.

Command	Result
\apprx	approx.
\as	a.s.
\cf	cf.
\eg	e.g.
\Eg	E.g.
\esp	esp.
\etal	et al.
\fig	fig.
\Fig	Fig.
\ie	i.e.
\Ie	I.e.
\iid	i.i.d.
\p{4711}	p. 4711
\pf{4711}	p. 4711 f.
\pp{11--47}	pp. 11–47
\resp	resp.
\sect	sec.
\tab	tab.
\Tab	Tab.
\viz	viz.
\wrt	w.r.t.

Tabelle 1 Common abbreviation macros for English theses

Custom Abbreviations

Custom abbreviations are defined in the `acronyms.tex` file, using the `\newacronym[longplural={<long plural>}, shortplural={<short plural>}] {<label>}{<short>}{<long>}` command. The *longplural* and *shortplural* parameters are optional. The abbreviations are sorted by their labels. The label is furthermore used to reference the abbreviations in your text. You can do so using commands listed in tab. 3. In most cases, you just use \gls{<label>}. On the first occurrence, the full version is displayed, e.g., European Research Center for Information Systems (ERCIS). Afterwards, the short version will be displayed, e.g., ERCIS.

You pluralize your abbreviation by adding a `pl` to the resp. command. This will add a small s to the abbreviation, e.g., Corporate Designs (CDs). Tab. 3 shows custom short and

long plural versions of the abbreviation KMU. You might need this esp. for more complex German abbreviations that do not have a „s" plural form.

Only referenced abbreviations will be added to the list of abbreviations. For more information, read the documentation (see `config/acronyms.tex`)

Symbols

If required, you can define symbols in the `config/symbols.tex` file, using the same commands as the abbreviations. Using the symbols is the same as the abbreviations (Projection (Π), Natural Join ($\bowtie$), Selection (σ)). The symbols are also not sorted by their labels. You should sort them by yourself before handing in your thesis!

Command	Result	Command	Result
\aaO	a. a O.	\oE	o. E.
\Abb	Abb.	\oEdA	o. E. d. A.
\bspw	bspw.	\OEdA	O. E. d. A.
\bzgl	bzgl.	\oV	o. V.
\bzw	bzw.	\OV	O. V.
\ca	ca.	\resp	resp.
\dgl	dgl.	\S{123}	S. 123
\dsgl	dsgl.	\Sf{123}	S. 123 f.
\dh	d. h.	\Sff{123}	S. 123 ff.
\etc	etc.	\siehe	s. o.
\eV	e. V.	\sog	sog.
\evtl	evtl.	\sS{123}	s. S. 123
\fs	f. s.	\sSf{123}	s. S. 123 f.
\gdw	g. d. w.	\sSff{123}	s. S. 123 ff.
\ggf	ggf.	\stu	st. u.
\hc	h. c.	\su	s. u.
\iAllg	i. Allg.	\Tab	Tab.
\iBa	i. B. a.	\tw	t. w.
\idR	i. d. R.	\ua	u. a.
\ieS	i. e. S.	\etal	et al.
\inkl	inkl.	\uae	u. ä.
\insb	insbes.	\uAe	u. Ä.
\Prof	Prof.	\uiv	u. i. v.
\Dr	Dr.	\usw	usw.
\PD	PD.	\uU	u. U.
\Ing	Ing.	\va	v. a.
\iV	i. V.	\vgl	vgl.
\iW	i. W.	\Vgl	vgl.
\iwS	i. w. S.	\vs	v. s.
\Nr{123}	Nr. 123	\zB	z. B.
\nW	n. W.	\zT	z. T.
\oa	o. a.	\zz	zz.
\oAe	o. Ä.	\zzgl	zzgl.
\oae	o. ä.		

Tabelle 2   Common abbreviation macros for German theses

Command	Result
\ac{<label>}	Kleines und Mittleres Unternehmen (KMU)
	[long form only on first occurence]
\acp{<label>}	KMUen
	[same as \ac, but with plural (switch this two lines to see)]
\acs{<label>}	KMU
\acsp{<label>}	KMUen
\acl{<label>}	Kleines und Mittleres Unternehmen
\aclp{<label>}	Kleine und Mittlere Unternehmen
\acf{<label>}	Kleines und Mittleres Unternehmen (KMU)
\acfp{<label>}	Kleine und Mittlere Unternehmen (KMUen)

Tabelle 3 Commands for printing abbreviations

2.1.7 Citations and Bibliography

This template uses BibTeX for bibliographies. It comes with the MISQ style that takes care of proper formating and sorting of your references. Of course, you have to maintain a clean `.bib` file that caters all necessary attributes. References will appear in the alphabetical order of the surname of the first author. In case of several works by the same author, they are sorted by year.

Citing in the text is done with the \citep[<before>][<after>]{<citekey>} command. Citations without parenthesis are done with \cite{<citekey>}. You can reference authors with \citeauthor{<citekey>}. However, we suggest typesetting authors in SMALL CAPS, e.g., HAMMER is one father of BPM.

Exemplary citations

- Business Process Management (BPM) is an integral management paradigm for building and running effective and efficient organizations (Hammer 2015; vom Brocke et al. 2014).

- A holistic approach to BPM goes beyond process modeling and workflow management systems (vom Brocke et al. 2014, p. 530).

- See vom Brocke et al. (2014) for a comprehensive review on BPM best practices.

- HAMMER lists organizational capabilities for BPM (cf. Hammer 2015, p. 9 f.), while VOM BROCKE et al. give principles of good BPM (cf. vom Brocke et al. 2014, pp. 530–546).

- Two authors are automatically divided by an „and" in English or an „und" in German, e.g., (Becker und Kahn 2011).

- „BPM can provide a solid set of capabilities essential to master contemporary and future challenges" (vom Brocke et al. 2014, p. 534).

Misc

The name and matriculation number of the student will automatically be displayed on the header of every page when the thesis type *seminar* is selected.

2.2 Compiling the document

You have different ways to compile this document. The most common ways are written down in the following subsections.

2.2.1 Compiling the document with texstudio

You can use the default editor TeXstudio for editing Latex files.

2.2.2 Compiling the document with vs-code

In the first step, you need to install LaTeXon your machine (miktex or TexLive). In the second step, install LaTeX Workshop-extension for your vs-code editor. Everything changed in a LaTeXfile, will cause an compile of your document. You can display the result, next to your code, by clicking on the „split"-icon on the top-right corner of your editor.

2.2.3 Compiling the document with overleaf

The easiest way for compiling this document is, to upload it to the Overleaf-instance of the Univeryity. You need to activate your IMT on the Serviceportal first. To activate your account for this service, you need to turn on the option „Overleaf LaTeX Editor" in „Benutzerverwaltung / Weitere Dienste".

2.2.4 Compiling the document with grunt

In order to generate a PDF-file from your TEX-file you have to run the following commands. We assume you have a master file `main.tex` that you want to typeset.

```
pdflatex main
pdflatex main
makeglossaries main
bibtex main
pdflatex main
pdflatex main
```

Listing 2   Commands to compile this document

Alternatively, you can use your favorite task runner. This thesis comes with a *Grunt* file to kick-start your LaTeXwriting.

When running, Grunt will monitor your thesis and on file changes, the PDF-file is automatically rebuild using the commands from listing 2.

Please make sure to have node.js and the Node Package Manager (NPM) installed. Now you can open a command prompt at the document root and run the commands in listing 3.

```
# Install Grunt via npm (use sudo on Unix-based OS)
npm install -g grunt-cli

# Install Grunt plugins / dependencies
npm install

# Run the Grunt listener
grunt
```

Listing 3   Installing and running Grunt

3   Background

3.1   Business Process Management

This section establishes a common ground on the area of BPM and related topics that are relevant to this thesis. First it touches BPM and process modeling with a focus on Business Process Management Notation (BPMN). Afterwards business process automation and business rules are introduced.

The BPM paradigm refrains from a traditional, functional view on the organization. Rather, the organization is viewed on process level, i.e. *how* the organization creates and delivers value to a customer (Davenport 1993, p. 6). In this sense, a process can be described as „completely closed, timely and logical sequence of activities which are required to work on a process-oriented business object" (Becker et al. 2005, p. 4). Business processes in particular are „designed to produce a specified output for a particular customer or market" (Davenport 1993, p. 5).

BPM does not view processes in isolation. From an IT-centric viewpoint, BPM refers to process automation endeavors and the management of automated processes with software tools (Harmon 2003, p. 12). A broader, holistic BPM approach has more facets. Rosemann (2005) identify six core elements of BPM, viz., strategic alignment, governance, methods, information technology, people and culture (see also Rosemann 2015). In this thesis BPM is understood as „planning, steering and control" of organizational processes (Becker et al. 2005, p. 5). The IT-centric viewpoint is covered by the term Business Process Automation. While educational resp. cultural dimensions of BPM have only attracted scientific interest recently (vom Brocke et al. 2014, p. 531), a large body of knowledge is available on methods of BPM, esp. on process modeling and workflow management, e.g., Becker und Kahn (2011); Dumas et al. (2013); van der Aalst et al. (2000).

3.1.1   …

…

4 Related Work

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5 Methods

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6 Results

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7 Discussion

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8 Conclusion

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Anhang

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Abgerufen am: 2023-09-30

Abschließende Erklärung

Ich versichere hiermit, dass ich meine Bachelorarbeit „A LaTeX–template for the preparation of scientific papers" selbständig und ohne fremde Hilfe angefertigt habe, und dass ich alle von anderen Autoren wörtlich übernommenen Stellen wie auch die sich an die Gedankengänge anderer Autoren eng anlehnenden Ausführungen meiner Arbeit besonders gekennzeichnet und die Quellen zitiert habe.
Paderborn, den 1. Januar 2024

FirstName MiddleName LastName