The fbithesis package*

Andre Dierker[†]

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Abstract

fbithesis.cls is a LaTeX 2ε document-class tuned for research reports or internal reports like master/phd-theses at the TU Dortmund University.

At the Department of Computer Science at the TU Dortmund there are cardboard cover pages for internal reports like master/phd-theses. The main function of the LaTeX2e document-class provided by this package is a replacement for the \aketitle command to typeset a title page that is adjusted to these cover pages.

See README for a short overview and additional (legal) information and example.tex for—of course—an example.

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^{*}This file has version number v1.2n. It was last revised on 2011/02/07, the documentation is dated 2008/02/17.

[†]dierker@kand.de

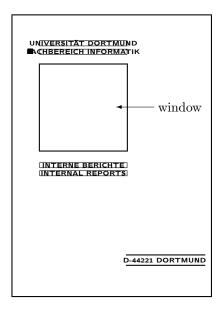


Figure 1: A rough outline of the DIN-A4 cardboard cover page for diploma and doctoral theses and project reports provided by the Department of Computer Science at the TU Dortmund. The title page of the document is visible through the window.

1 Introduction

At the Department of Computer Science at the TU Dortmund University there are cardboard cover pages (see figure 1 on page 2) for internal reports like master/phd-theses. The main function of the LATEX 2_{ε} document-class fbithesis is to replace the \maketitle command to typeset a title page that is adjusted to these cover pages (see figure 2 on page 3).

As you can see the title page is not only adjusted to the cardboard, but even imitates the cover: it repeats the text found on the cover page. Usually theses are presented to the world in two shapes: printed on paper or electronically (e.g. as a PDF or PostScript file). In the first case the repetition is not necessary, in the second (electronical) case one would miss important information without it. Since it doesn't hurt in the paper case I decided to make it possible to repeat this 'decoration' of the cover page on the title page (see options decor and nodecor in section 2.2).

This package doesn't make much sense outside of Germany or even outside the TU Dortmund. Nevertheless the documentation is in English. This shouldn't be a problem nowadays and it's a good training for me; -)

v1.2m2011/02/06new

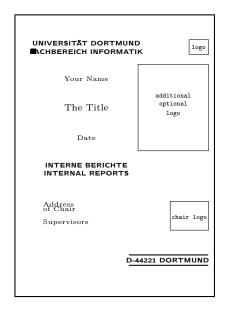


Figure 2: The title page as generated by fbithesis. The important part of the title page (author, title and date) is visible through the window in the cover page. This sketch can only give you a very coarse impression. For a more authentic one use the example (see section 4 on the pages 14ff).

1.1 Why the name?

When this package was created, the Department of Computer Science had the name 'Fachbereich Informatik' in german. The abbreviation 'FBI' was quite common in those days. Since the package is meant for that department I used the abbreviation for my package. (And of course because its kinda cool; -))

In the meantime however the 'UniversitÃd't Dortmund' was renamed to 'Technische UniversitÃd't Dortmund' (technical university of Dortmund) and the department to 'FakultÃd't fÃijr Informatik'.

1.2 Other packages

Apart from fbithesis there is at least one more approach that deals with the same subject. This is diplomatitle¹ by Thomas Leineweber². diplomatitle isn't officially released. It hasn't left development status yet and it is doubtful if it ever will, as the author seems to have abandoned active development.

Together with Thomas, Marc Seitz³ worte pgthesis which is based on fbithesis. It aims at final reports of project groups (Projektgruppen End-

New description 2008/02/17 v1.2k

http://ls6-www.cs.uni-dortmund.de/~leineweb/tex/interneBerichte/ (Some of the files aren't reachable. Perhaps you have to contact the author first.)

²<THOMAS LEINEWEBER> leineweb@ls6.cs.uni-dortmund.de

³<Marc Seitz> marc@marcseitz.de

New description 2006/07/11 v1.2g

New description 2006/09/10 v1.2i

berichte) but isn't yet officially released. If you are interested please contact the authors.

Some other approaches use the titlepage environment and provide a sort of template for the title page. Representatives of these approaches are for example the 'LATEX-Templates' by Kohler or 'daTitelblatt' by Dittrich. Of course these template-approaches give a great flexibility to the user. On the other hand the necessary customization often requires a deeper knowledge of LATEX.

Additionally there is udotitle⁸ by GERD SEBASTIANI. This package however does not produce a title page to be used with the cardboard of the department of computer science but complies with the official corporate design of the university.

1.3 What's new

Since the last stable version v1.0d (2003/01/08) some new features were added:

- 1. compatibility with the $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ -classes (amsbook or amsreport) as baseclasses (see section 2.3.4 on page 13)
- 2. better handling of baseclass-specific macros
- 3. new options decor and nodecor (see section 2.2.3 on page 10)
- 4. better warnings if needed files could not be found
- 5. new options ngerman and american (see section 2.2.2 on page 9)
- 6. new options declaration and nodeclaration (see section 2.2.4 on page 11)
- 7. the university and the department were renamed since the last public release.

1.4 What do you need

There are some packages, that are required with the use of fbithesis. Some others are recommended.

- 1. Packages, that are essentially required by fbithesis:
 - (a) $\LaTeX 2_{\varepsilon}$ (at least the 1994/12/01 release) fbithesis is a $\LaTeX 2_{\varepsilon}$ document-class. So obviously you'll need $\LaTeX 2_{\varepsilon}$...
 - (b) graphicx¹⁰ (at least 1996/08/05 v1.0a)

 The logos are included by using the \includegraphics command provided by graphicx.

⁴http://ls7-www.cs.uni-dortmund.de/~kohler/verschiedenes/LaTeX-Templates.tgz

⁵<Markus Kohler> markus.kohler@uni-dortmund.de

⁶http://ls11-www.cs.uni-dortmund.de/resources/docs/daLatex/daTitelblatt.tex

⁷<Peter Dittrich> gisbert.dittrich@udo.edu

⁸http://www.forum.fset.de/

^{9&}lt;sub>CTAN</sub>: macros/latex/base

 $^{^{10}{\}tt CTAN:}~{\tt macros/latex/required/graphics/graphicx.dtx}$

- 2. Packages, that are recommended to use with fbithesis:
 - (a) scrbook (part of KOMA-Script¹¹, at this time the latest version is 2007/12/24 v2.98)

This is a replacement for the (standard) book document-class and has many enhancements and useful features.

- 3. Packages, that are supported by fbithesis:
 - (a) amsbook (part of AMS-IATEX¹², at this time the latest version is 2004/08/06 v2.20)

Like KOMA-Script this is a replacement for the book class. This one follows the style conventions of American Mathematical Society publications.

Under normal circumstances you don't have to install any special packages (except fbithesis of course: its installation process is described in the next section) since all these should be part of every serious LATEX-distribution. If this is not the case you'll find the most recent versions at CTAN¹³.

1.5 Installation

file fbithesis.dtx

New feature

2003/02/07 v1.1c

The file fbithesis.dtx is an 'one-file-contains-it-all'. It contains (of course) the .cls-file and its documentation (not to forget a customizable driver for the docu), but also the .ins-batch file, an example and a 'read me'.

file fbithesis.dtx.asc

It is recommended to check the integrity of the package before installing. This is done with fbithesis.dtx.asc, an OpenPGP signature made with GnuPG and the key 1024D/F4D24AC9 2002-04-01 Andre Dierker (software distribution key) <software@kand.de>14. Verify fbithesis.dtx.asc with PGP or GnuPG (for GnuPG this is 'gnupg --verify fbithesis.dtx.asc') to be sure, you got the complete and unmanipulated distribution.

1.5.1 By Hand

To start the installation, run fbithesis.dtx through LATEX¹⁵. This will generate the batch file (fbithesis.ins) and a README. Additionally the documentation (fbithesis.dvi) is generated (to get the cross-references right, you have to rerun this twice, however).

file fbithesis.ins

The actual installation is done by running the newly generated fbithesis.ins through IATEX. This will generate the fbithesis.cls file, an example.tex, the documentation driver (fbithesis.drv) and a sample configuration file

 $[\]overline{}^{11}$ CTAN: macros/latex/contrib/koma-script by Frank Neukam and Markus Kohm [14, 10]

 $^{^{12}}$ CTAN: macros/latex/required/amslatex by the American Mathematical Society [1, 2]

¹³Comprehensive T_EX Archive Network: http://www.ctan.org/

¹⁴BTW: I'm always looking for people to exchange key-signatures. Contact me!

¹⁵It is recommended to use pdflatex instead of latex. If you prefer an output in DVI-format you can use 'pdflatex -ouput-format DVI'

(fbithesis.cfg). If you have set \BaseDirectory¹⁶ in your docstrip.cfg, the document-class fbithesis.cls is immediately moved to an appropriate location (e.g. '\$(TEXMF)/tex/latex/misc/' with a TDS¹⁷ compliant LATEX installation). Otherwise you have to move it yourself into a directory searched by LATEX. If you don't know where this could be simply drop the file into your thesis' directory.

Now you could already start since the rest of the installation process is optional. Normally (with a TDS installation) all configuration (.cfg) files are collected in '\$(TEXMF)/tex/latex/config/'. Since there may be already an older 'fbithesis.cfg' that perhaps mustn't be overwritten, you have to move (and merge) the file yourself.

To finish the installation it is recommended to move fbithesis.dvi and example.tex to where you collect the documentations (with a TDS compliant LATEX installation this would be '\$(TEXMF)/doc/tex/latex/fbithesis' for example).

For a demonstration of the possibilities of fbithesis see the example file and run it through LATEX.

The 'pdflatex fbithesis.dtx'-run above will—by default—generate the 'user' documentation. If you need the full documentation (with complete listing of the documented source code and/or command index and the change history) you may edit fbithesis.drv to meet your needs (never edit fbithesis.dtx itself!). For more information on the enhanced documentation see fbithesis.drv or README.

So, in short you have to do the following:

- 1. Check the integrity of the package: 'gnupg --verify fbithesis.dtx.asc'
- 2. Generate the documentation: 'pdflatex fbithesis.dtx'
- 3. Generate the fbithesis.cls file: 'pdflatex fbithesis.ins'
- 4. Finish the documentation: 'pdflatex fbithesis.dtx' (two times)
- 5. move fbithesis.cls (e.g. to your thesis' directory)
- 6. Optional: move fbithesis.dvi and example.tex

1.5.2 By make

Alternatively you can use make to do the tasks. In this case you have to do the following:

- 1. Check the integrity of the package: 'gnupg --verify fbithesis.dtx.asc'
- 2. Generate the documentation: 'make doc'
- 3. Generate the fbithesis.cls file: 'make install'

 ${\rm file}\ {\tt fbithesis.cfg}$

file example.tex

file fbithesis.drv

¹⁶see the documentation of the docstrip program: [12]

¹⁷TeX Directory Structure, see [15]

- 4. move fbithesis.cls (e.g. to your thesis' directory)
- 5. Optional: move fbithesis.dvi and example.tex

1.6 To do

At this time the package doesn't offer many features. I plan to add a few as soon as I have the time to:

- 1. The logos of university and department have changed and need to be updated. If someone can provide files, please mail me.
- 2. Better support for final reports of project groups (Projektgruppen Endberichte)
- 3. Provide some alternative layouts
- 4. Provide a titlepage-like environment to give the user more flexibility.
- 5. Adopt fbithesis to the layout of the research reports, a second series with own cover pages. (These use DIN-A5 instead of DIN-A4 as paper format.)
- 6. At this time fbithesis affects only the title page and doesn't interfere with the layout of the rest of the document. Enhance the package to a full 'thesis'-class, perhaps by integrating the 'IATEX-Templates' (see subsection 1.2 on page 3f).
- 7. Fix bugs (see subsection 1.7), misspellings or whatever.

If you have any further suggestions for enhancements or corrections feel free to mail me.

1.7 Known Bugs

Actually I'm aware of one bug:

• To provide the \thanks-mechanism I had to redefine \footnote. At the end of \maketitle the \footnote command is reset to its original definition. Unfortunately the definition is not reset, if there's no \maketitle in your document. A solution is not known.

If you have a solution to fix the bug or if you find a new one I'd be glad to hear 18 from you!

¹⁸ mail to <Andre Dierker> dierker@kand.de

1.8 Thanks

Thanks go to Stephan Lehmke, the local TeX- and IATeX-Guru at the University of Dortmund. He put the idea of writing this package into my mind and helped with many tips and hints. Furthermore I'd like to thank Klaus Kramer. He gave me feedback and pointed me to a bug. Further bugs were found by Matthias Schweinoch and Ralf Kellermann.

ROMAN KLINGER suggested to make the decoration optional (see the options decor and nodecor in section 2.2, CLEMENS RENNER proposed the inclusion of a declaration in fbithesis, while DIRK FÖRSTERLING gave feedback to the installation routine.

TIMON KELTER provided information about the renaming of university and department and so triggered a new release.

Furthermore thanks go to QuinScape¹⁹, the company that lets me use my T_EX-Skills to earn a living. They have a great product named DocScape²⁰. Do you have a large amount of data, that has to be layouted? Give DocScape²¹ a try. It is a solution for data based publishing with a rule based layout. It makes possible a complete automatic but nevertheless extreme flexible layout and produces really high quality output.

Finally I want to thank the three most important persons in my life: my wife KATHARINA, my daughter HANNA and my son NOAH. I love you.

2 Usage

Now lets come to the interesting stuff.

2.1 The baseclass and loading

You are free to choose your favorite thesis-document-class as the *baseclass*, since the only part concerned by fbithesis is the title page. fbithesis doesn't interfere with the layout of the rest of your document.²² By default fbithesis will use scrbook (part of KOMA-Script, see [14]) as *baseclass*.

\baseclass

You may change the baseclass by defining the macro \baseclass. Important: this has to be done before the \documentclass command! (See the example in section 4 on the pages 14ff.) For example if you prefer the standard class book from LaTeX 2ε simply do:

\def\baseclass{book}

Afterwards the class is loaded with:

\documentclass{fbithesis}

¹⁹http://www.QuinScape.de/

²⁰http://www.DocScape.de/

²¹Contact us: Norbert.Jesse@QuinScape.de

²²However this may change in the future, see subsection 1.6 on page 7

You can modify the behaviour of fbithesis with options (all available options are described below in subsection 2.2):

\documentclass[<options>]{fbithesis}

option titlepage

You may choose every \LaTeX $X_{\mathcal{E}}$ -document-class as baseclass, on condition that it provides a \maketitle command (and its supportive commands as described in subsection 2.3.1 on page 11) and supports a title page. For example with article from \LaTeX you have to use its titlepage option, since article doesn't generate an explicit title page by default.

2.2 Options

There are several class options available with fbithesis. Most of the following options are mutual exclusive. (For example draft and final; german/ngerman and english / american and others.) If you do specify two opposing options like in this example

\documentclass[draft,final]{fbithesis}

New description 2003/06/30 v1.1i

the last one (in this case final) 'wins'. However both global options are passed to the packages. So in this example

\documentclass[english,american]{fbithesis}

english will be a kind of fallback if a package doesn't implement the option american.

2.2.1 draft/final

option draft option final The first two options switch between the draft and final mode. The draft mode adds some marks to the title page to help with the positioning of the page (see section 3 on page 13).

\documentclass[draft]{fbithesis}

In the final mode of course no marks are shown.

\documentclass[final]{fbithesis}

2.2.2 Language options

The second bunch of options switches the language. As you can see below (in subsection 2.3.2 on page 12) the supervisors of the thesis can be added to the title page by using the macro \supervisors. These are captioned by 'Gutachter:' with the german option.

option german

 $\verb|\documentclass[german]{fbithesis}|$

option english

If you want to do your thesis in English, the 'Gutachter:' would spoil the effect. It is replaced by 'Supervisors:' with the english option.

\documentclass[english]{fbithesis}

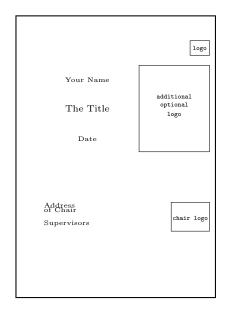


Figure 3: The title page as generated by fbithesis with option nodecor. To compare with the repeated decoration please refer to figure 2 on page 3

New feature 2003/06/30 v1.1i

option ngerman option american option german option english There are two more class options: ngerman and american. These are just synonyms for german and english. Since class (or global) options are passed to the imported styles (by \usepackage) the synonyms can make things easier: you don't have to specify the optional argument with language-specific packages. So you can write

\documentclass[ngerman]{fbithesis}
\usepackages{babel}

instead of

\documentclass[german]{fbithesis}
\usepackages[ngerman]{babel}

option ngerman

The language ngerman is the default choice.

New feature 2005/12/22 v1.2d

option decor

2.2.3 decor/nodecor

The options decor and nodecor control the decoration on the title page. As already said in section 1 it is possible to repeat the decoration of the cardboard on the title page. To do this, all you have to do is:

\documentclass[decor]{fbithesis}

(which is the default behaviour). If you don't want the decoration (as shown in figure 3) you can use

\doucmentclass[nodecor]{fbithesis}

declaration/nodeclaration 2.2.4

New feature 2006/01/18 v1.2e option declaration option nodeclaration

New feature

2003/10/08 v1.1n

If you do a diploma thesis you'll have to give a declaration that you have written everything by yourself. By the options declaration and nodeclaration you are able to include this declaration into your thesis:

\documentclass[declaration]{fbithesis}

This inserts a new page with a form of the declaration. Since the text is taken from the Diplomprüfungsordnung it should be sufficient for the deans office. You only have to sign it.

As you might have guessed

\documentclass[nodeclaration]{fbithesis}

will suppress the declaration. This is the default behaviour.

2.2.5 Paper options

The position of the various elements on the title page is implemented in the class option a4paper. There is no need for a alternative letter because the cardboard is only offered in the paper format DIN-A4 (and DIN-A5 but that is a topic for further development. See section 1.6 on page 7). Since there is no other paper format implemented at the time, the option a4paper is the default behaviour.

2.2.6 Options of the baseclass

Furthermore you may choose every option provided by the baseclass (see subsection 2.1 on page 8), since all other options are forwarded to it. For example with the default baseclass scrbook²³ you may want something like this:

\documentclass[10pt, a4paper, BCOR12mm, headsepline]{fbithesis}

For a description of possible options of your chosen baseclass look at the corresponding documentation. The scrbook-options used above for example are described in [14, 10].

2.3 Commands

LATEX-Commands 2.3.1

\title \author

 $\$ and

As in the standard IAT_FX 2_{ε} classes the user defines the title and author by the declarations²⁴ \title{ $\langle name \rangle$ } and \author{ $\langle name \rangle$ }. As in the standard LATEX 2ε classes multiple authors have to be separated with \and. In general master/phdtheses won't have more than one author, but just in case (and because it will be needed for research reports, see subsection 1.6 on page 7) the \and command is also provided.

²³scrbook is part of KOMA-Script by Frank Neukam and Markus Kohm

²⁴For a more detailed view on these macros please look at [3].

The \date command differs from the definition in the LaTeX-Kernel. In the standard LaTeX 2ε classes the command is used to specify the date of the document: \date{\date\}. In fbithesis the macro is enhanced by an optional argument to specify the period of the thesis: \date[\date] \date] \{\langle end \date \}. If you leave out the optional argument only the end date is set, if you leave out the whole \date command, \date{\today} is assumed by default.

\maketitle

\date

As in the standard classes the title is set by using the \maketitle²⁵ command. This is redefined in this package to match the cardboard cover page of the Department of Computer Science at the TU Dortmund.

\thanks

If you really want to make acknowledgements on the title page you may use $\t x {\langle text \rangle}$. The text would be set as a footnote at the bottom of the cardboard window. In my opinion this does not look well and I recommend not to use $\t x$. The correct place for eMail-addresses, acknowledgements, dedications and such things is a preface or—if you use scrbook or scrreprt as the baseclass—the enhanced title of KOMA-Script (see subsection 2.3.3 and [14, 10])

\title \author The \title and \author commands are mandatory: You have to define them if you want fbithesis to do its job. All other commands are optional. So the only thing you have to do to use this package is to choose your favorite baseclass (see subsection 2.1 on page 8), load fbithesis and provide the information you would like to have on the title page.

2.3.2 fbithesis-Commands

The commands above are all provided by the standard IATEX classes. In fbithesis there are a few more commands to provide additional information.

\subject

By the command $\boldsymbol{\omega}$ you may provide the 'type' of the thesis (like 'Diplomarbeit', or 'Dissertation'). As the LATEX-commands above (see subsection 2.3.1) $\boldsymbol{\omega}$, too, affects the look in the window of the cardboard. The content of the following commands is placed in other areas of the title page and isn't visible through the window.

\unidologo

By using the command $\unidologo\{\langle filename \rangle\}$ you may include the logo of the TU Dortmund to the title page. ' $\langle filename \rangle$ ' should be a graphics file (e.g. PDF). Additionally it is possible to add the logo of the chair to the title page. This is done by $\chairlogo\{\langle filename \rangle\}$.

\chairlogo

\thesislogo

If you have a thesis-specific logo, it can be placed on the title page by using thesislogo(filename). The logo is set next to the window of the cardboard (see figure 2 on page 3).

\chair

Some folks want the names of the chair, the department and the university to appear on the title page. This can be done by $\chair{\langle information \rangle}$. The argument $\langle information \rangle$ may consist of lines separated by '\\'.

\supervisors

The supervisors of the thesis may be provided by $\sup \{\langle first supervisor \rangle\} \{\langle second supervisor \rangle\}$.

Please note: Due to aesthetic reasons it is recommended to use \chair, \chairlogo and \supervisors only in combination: either all or none.

²⁵See [11] for the original definition

2.3.3 KOMA-Script-Commands

file KOMA-Script

fbithesis supports parts of the enhanced title of KOMA-Script. So if you use scrbook or scrreprt you may use the following KOMA-Script-commands. For more information on these three macros see [10, section 3.3].

\uppertitleback \lowertitleback

If you print your document two sided, the back of the title page normally is left empty. You can use the commands $\protect\operatorname{uppertitleback}{\langle text \rangle}$ and $\protect\operatorname{leback}{\langle text \rangle}$ to place additional information there.

\dedication

KOMA-Script provides a special dedication page. If you want to dedicate your thesis to someone, use $\dedication{\langle text \rangle}$.

There are some more KOMA-Script-commands affecting the title. Theses are ignored by fbithesis since they are useless in our case: \extratitle is not necessary since the cardboard cover serves exactly the purpose of the cover page \extratitle would produce. \titlehead would mess up the layout of the title page and \publishers is nonsense since no thesis has got a publisher.

2.3.4 $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ -Commands

New feature 2003/02/07 v1.1c

file $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ \dedicatory

fbithesis also supports amsbook as baseclass. However the $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ -classes use a different macro for the dedication than KOMA-Script. So if you choose amsbook as baseclass you may use the command $\dedicatory\{\langle text \rangle\}$. For more information on this macro see [2, chapter 3].

There are some more $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ -commands affecting the title. Theses are ignored by fbithesis since they are useless in our case: \subjclass , \keywords and \translators are nonsense since no thesis is specified by the $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ -classification or is translated. The other $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ -commands (like \address , \curraddr , \translated) are used to provide additional information to contact the author(s). It is unusual to provide this information on the title page of a thesis. You may include it into your preface however.

3 Customization

The horizontal and vertical placement of the writable area on the paper depends on many factors like page size and layout, printer margins or corrections done by the device driver. Some of these (like page layout) can be directly controlled by TeX, others (like page size) can be taken into account. Unfortunately there may still be some factors that cannot be influenced by this package, so a correct adjustment cannot be done completely automatically. A correct adjustment on the other hand is very important to center the title in the window in the cardboard cover.

fbithesis provides a "pretty good guess" concerning the placement of the title page, however a correct adjustment cannot be guaranteed. In fact the "guess" is much better than only "pretty good": in the case of a mismatch you are strongly recommended to check the positioning of your printer. Please run 'latex testpage.tex', print a copy, check the result and correct the position-

\titlevadjust \titlehadjust ing. However if this does not help please send a bug report to the author²⁶. For the meantime fbithesis provides a stopgap solution. Positive values for $\texttt{titlevadjust}\{\langle length\rangle\}$: move the page up, negative values down. Similar with $\texttt{titlehadjust}\{\langle length\rangle\}$: positive values move the page to the left, negative to the right.

3.1 Configuration file

file fbithesis.cfg

You may use a site-wide configuration file fbithesis.cfg to set some defaults. This configuration file—placed somewhere LATEX is able to find it—will be read whenever the fbithesis class is used. Of course you may overwrite these local defaults by placing concurrent definitions in your source file.

To generate the following sample configuration file, run fbithesis.ins through IATEX. On a TDS compliant IATEX installation the configuration files are normally collected in '\$(TEXMF)/doc/tex/latex/config/'. However because there may already be an older configuration file 'fbithesis.cfg' you have to move (and merge) it yourself.

1 (*config)

\unidologo \chairlogo If the graphics-files containing the logos are installed centrally, it may be useful to define the commands \unidologo and \chairlogo site-wide. (Conforming to [5] you may want to skip the extensions of the filenames.)

- 2 % \unidologo{tulogo}
- 3 % \chairlogo{ls9logo}

\chair

The same with \chair:

- 4 % \chair{Chair IX (Virtual Research) \\
- 5 % Department of Computer Science\\
- 6 % TU Dortmund}
- 7 (/config)

4 Example

file example.tex

Here is a little example file. To generate it, run fbithesis.ins through IATEX. First we use the filecontents* environment to provide the PostScript-Code of three dummy logos used by the example. The original logos should be available at your chair, contact your supervisor or system administrator.

8 (*example)

At first we include an auxiliary file that contains the logos. You can ignore this line since it is only necessary in this example.

9 \include{exampleaux}

²⁶mail to <Andre Dierker> dierker@kand.de

fbithesis supports three classes as 'baseclass'. To use 'book' or 'amsbook' you have to use one of the following lines. To use 'scrbook' from KOMA-Script as baseclass you have to do nothing since this is the default. If you don't know what I'm talking about just leave these lines as they are. Almost everyone uses 'scrbook' as baseclass. It is a wise decision.

```
10 % \def\baseclass{book}
11 % \def\baseclass{amsbook}
```

Of course we choose fbithesis as document class. Additionally we want to look at the draft mode and test the option forwarding of a4paper to the baseclass. Since the example is in English, we also choose english.

option draft option a4paper option english

12 \documentclass[a4paper, english]{fbithesis}

We begin our document:

- 13 \begin{document}
- 14 \frontmatter

\title

As in the standard IATEX classes we use the \title command. Normally one can trust TeX's ability to compute a satisfactory line breaking. However TeX's algorithm is not optimized for titles but for continuous text. To make it more difficult the cardboard window is quite small. So if you prefer a different make up, help yourself with an appropriate placed '\\', as you can see in this example.

15 \title{Example file for the\\ \texttt{fbithesis} package%

\thanks

The \thanks command is used to provide further information²⁷. As you can see the result of the \thanks mechanism does not look well. Therefore I do not recommend the usage. It is better to write a preface instead.

\author \and The usage of the **\author** command: In general master/phd-theses will have only one author, but just in case the **\and-command** is also provided.

19 \author{Andre Dierker%

The use of the command \thanks is not recommended (see page 12).

```
20 % \thanks{\texttt{software@kand.de}}%
```

Perhaps there ist a second author:

21 \and Nobody Else%

Again the use of \hanks is not recommended.

```
22 % \thanks{\texttt{no@body.el.se}}%
```

\subject Normally

Normally the subject would be something like 'Diplomarbeit' or 'Dissertation'...

24 \subject{Example}

ate You may give the beginning and the deadline of your thesis here.

25 \date[Created April 3, 2002]{Printed \today}

\supervisors Providing the supervisors of the thesis.

26 \supervisors{First Tutor}{Second Tutor}

\unidologo \chairlogo If there is a site-wide configuration file (see subsection 3.1) the commands \unidologo and \chairlogo may already be defined. You may override them locally. Conforming to [5] we skip the extensions of the filenames. Due to this T_FX is able to include the correct version of the file (EPS or PDF)

- 27 \unidologo{tulogo}
- 28 \chairlogo{ls9logo}

\thesislogo

You may use the command **\thesislogo** if you want to place a thesis-specific logo on the title page.

29 \thesislogo{thesislogo}

\chair The \chair command is the other candidate for a site-wide configuration file. This, too, can be overwritten.

- 30 \chair{Chair IX (Virtual Research)\\
- 31 Department of Computer Science\\
- 32 TU Dortmund}

The data provided by the above macros is now used to set the title page. This \maketitle is done with the macro \maketitle

33 \maketitle

So after the title page is set your thesis may begin:

34 \mainmatter

... (Sorry, but I won't write your thesis. I've had trouble enough with my own one...;-))

35 Now here comes your text.

Now our minimal document is ready.

- 36 \end{document}
- 37 (/example)

Have fun using fbithesis.

4.1 Logos

file exampleaux.tex

Here is a auxiliary file that its used by the example. It contains the logos. We use the filecontents* environment to provide the PostScript- and PDF-Code of three dummy logos used by the example. The original logos should be available at your chair, contact your supervisor or system administrator.

- 38 (*exampleaux)
- 39 \begin{filecontents*}{tulogo.pdf}

(Here comes some PDF-code for a provisional logo of the university.)

 $^{^{27}\}mathrm{You}$ can safely ignore the **\fileversion** and **\filedate** commands. They are only helping me creating a consistent distribution of this package.

```
40 \end{filecontents*}
41 \begin{filecontents*}{ls9logo.pdf}
    (Some more PDF-code for an exemplary logo of a hypothetical chair.)
42 \end{filecontents*}
43 \begin{filecontents*}{thesislogo.eps}
    (Even more PDF-code for a dummy thesis-specific logo.)
44 \end{filecontents*}
45 (/exampleaux)
```

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There is no warranty for the fbithesis package. I provide fbithesis 'as is', without warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The entire risk as to the quality and performance of fbithesis is with you. Should fbithesis prove defective, you assume the cost of all necessary servicing, repair, or correction.

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later is part of all distributions of LATEX version 2005/12/01 or later.

The fbithesis package has the LPPL maintenance status "author-maintained".

The Current Maintainer of this package is Andre Dierker. The fbithesis package consists of all files listed in README

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