

# ThesisPUC User Manual

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PUC-Rio

Edition 1.0, Revision 1,  
To use with the ThesisPUC  $\LaTeX$  document class version 1.0.5

The ThesisPUC contributors

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This manual documents the ThesisPUC  $\text{\LaTeX}$  document class usage version 1.0.5.

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# Table of Contents

<b>Preface</b> .....	<b>1</b>
Contributors to this Manual .....	1
The ThesisPUC License .....	1
<b>1 Introduction</b> .....	<b>2</b>
1.1 Obtaining and Installing ThesisPUC .....	2
1.1.1 Dependencies .....	2
1.1.2 Quickstart .....	2
1.2 Reporting Bugs .....	2
<b>2 Using ThesisPUC</b> .....	<b>3</b>
<b>3 Commands List</b> .....	<b>5</b>
<b>Appendix A GNU Free Documentation License</b> ..	<b>9</b>
<b>Concept Index</b> .....	<b>17</b>
<b>Index</b> .....	<b>18</b>

## Preface

This manual describes the use of the ThesisPUC  $\LaTeX$  document class. It relates particularly to ThesisPUC version 1.0.5.

## Contributors to this Manual

The original manual edition contributors were:

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For this edition, which is a complete rewrite using Texinfo, the contributors are:

- David Pirotte (MicDigit) <david at altosw dot be>

David is also the current maintainer of the ThesisPUC  $\LaTeX$  document class. You are most welcome to join and help, send us an email.

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# 1 Introduction

ThesisPUC is a  $\text{\LaTeX}$  document class for the  $\text{\TeX}$  document production system.

## 1.1 Obtaining and Installing ThesisPUC

The ThesisPUC latex document class is distributed as a **zip** file, named **ThesisPUC.zip**. You may obtain the latest version and its *User Manual* here.

### 1.1.1 Dependencies

$\text{\LaTeX}2\text{e}$  is the current version of  $\text{\LaTeX}$ , available on most operating systems. There are numerous free and commercial implementations of the entire  $\text{\TeX}$  system. PUC-RIO recommends:

- Texlive

In order to locally compile the documentation, you also need:

- Texinfo  $\geq 5.2$

### 1.1.2 Quickstart

Assuming you have satisfied the dependencies and downloaded the latest **ThesisPUC.zip** (see Section 1.1 [Obtaining and Installing ThesisPUC], page 2), then:

- create a folder where you plan to develop your thesis
- drop the **ThesisPUC.zip** archive in it
- unzip **ThesisPUC.zip** in that folder

You should see the following list of files and directories:

```
atbeginend.sty
doc/
examples/
NEWS [ new, since version 1.0.3
puc.png
ThesisPUC.bst
ThesisPUC.cls
ThesisPUC.zip
```

If you wish to, you may now remove the **ThesisPUC.zip**.

It is highly recommended for users who upgrade from a previous ThesisPUC version to carefully read the NEWS file, and apply the necessary changes when applicable.

## 1.2 Reporting Bugs

Please send your questions, bug reports and/or requests for improvements to **david at altosw dot be**.

## 2 Using ThesisPUC

### Notes:

- At this moment, the documentation is available in english only: translations are on their way though, stay tuned;
- The pdf documentation you are now reading is also distributed with the **ThesisPUC.zip**, here: `doc/en_US/ThesisPUC.pdf`;
- If that feels more comfortable for you, the documentation is also available in html format, fire your browser and open this file: `doc/en_US/ThesisPUC/index.html`;

ThesisPUC comes with two examples: (a) `julio`, based on a real phd thesis and (b) `tiny`, which you can use to start your own master or phd thesis document. The `tiny` example directory has the following files:

```
ThesisPUC.bst -> ../../ThesisPUC.bst
ThesisPUC.cls -> ../../ThesisPUC.cls
atbeginend.sty -> ../../atbeginend.sty
puc.png -> ../../puc.png
```

These files are mandatory to compile any master or phd thesis. You should not edit them. Note that in this `examples/tiny` case, they are symbolic links to the same and 'real' files two directories above.

**Notes for Windows users:** the above symbolic links won't exist on Windows. Windows users must copy and paste these four files from the directory where they unzip the **ThesisPUC.zip** archive.

`defs.tex` In this file comes your new and redefined latex commands.

`images/`

`tables/` These directories are just a suggestion, to better organize things.

`abrevs.tex`

This file defines the mandatory 'thenotations' chapter, where you list the abbreviations used in your thesis.

`chapter-1.tex`

`chapter-2.tex`

...

`conclusions.tex`

The chapters and conclusions of your thesis.

`appendix.tex`

This file is optional. It is used when part of the work done on the master or phd thesis has been published. If used, it comes after the bibliography.

`tiny.bib` This file is where you keep all your bibliographic references. You can empty it and fill it with your own bibliographic references as you write your thesis. In its distributed version, it is a copy of `examples/julio/julio.bib`, where you can always look for and copy bibliography entry models as needed.

`tiny.tex`  
`tiny.pdf` These are the main document and the resulting pdf version after compilation.

English thesis must declare their document class as this:

```
\documentclass[
    phd,
    american
]{ThesisPUC}
```

In the above:

```
master replaces phd for master thesis;
brazilian replaces american for Portuguese thesis.
```

For English thesis, the `\title` command must still hold the portuguese version of the title: it is used for the page 'Resumo'.

The `tiny.tex` example has been declared as a phd american english written thesis (although we did not translate its chapters and conclusion content): all front pages, their order when applicable, as well as any automatically generated text are in English.

As you may have understood from the explanations besides the aforementioned file list, the master document, `tiny.tex` in our case, imports the other `.tex` files: `defs`, `abreves`, `chapter-1`, `chapter-2`, `conclusions` and `appendix`.

Now, time to fire-up your preferred editor, open the document `example/tiny/tiny.tex`, make a few changes and save the file. Aside, open a terminal, make sure you are in the `example/tiny` directory, then execute these commands:

```
pdflatex tiny.tex
bibtex tiny.aux
pdflatex tiny.tex
pdflatex tiny.tex
```

The first command compiles all intermediary files, and produces a first but incomplete version of `tiny.pdf`.

The second command is used to generate the bibliography `tiny.bbl` file, looking for occurrences of `\cite{}` in your `.tex` files and checking for their corresponding entry in `tiny.bib`.

The last two commands are necessary to produce a fully cross referenced `tiny.pdf` file, which you can visualize: it is ready for proof reading and printing.

### 3 Commands List

This chapter describes all user available commands provided by the ThesisPUC latex document class. Unless otherwise grouped to for subject purposes, entries are listed in alphabetical order.

`\abbreviationstitle {title}` [Optional]  
`\abbreviationstitleuk {title}` [Optional]

Sets the title of the abbreviations section. The default values are

List of Abbreviations (en\_US)  
 Lista de Abreviaturas (pt\_BR)

`\abstract {text}` [Mandatory]  
`\abstractuk {text}` [Mandatory]

The former should be used to set the text of the abstract in the language of the thesis.  
 The latter to set the text of the abstract in english.

`\acknowledgment {text}` [Mandatory]

Sets the text of the acknowledgment section of the thesis.

`\adviser {name} {title}` [Mandatory]  
`\adviserR {reversed name}` [Mandatory]  
`\adviserInst {institution name}` [Mandatory]

The first command should be used to set the full name of the adviser of the thesis, following a firstname(s) lastname order and without any comma. The second command should be used to set the full name as well, but using a reverse order: lastname, firstname(s) using a comma to separate the lastname from the firstname(s). For example:

`\adviser{Sidnei Paciornik}{Prof.}`  
`\adviserR{Paciornik, Sidnei}`

The last command is used to set the adviser's institution name. For example:

`\adviserInst{Pontifícia Universidade Católica do Rio de Janeiro}`

`\coadviser {name} {title}` [Optional]  
`\coadviserR {reversed name}` [Optional]  
`\coadviserInst {institution name}` [Optional]  
`\coadviserII {name} {title}` [Optional]  
`\coadviserIIR {reversed name}` [Optional]  
`\coadviserIIInst {institution name}` [Optional]  
`\coadviserIII {name} {title}` [Optional]  
`\coadviserIIIR {reversed name}` [Optional]  
`\coadviserIIIIInst {institution name}` [Optional]

All the above commands follow the exact same definition schema then respectively `\adviser`, `\adviserR` and `\adviserInst`.



`\author {name}` [Mandatory]

`\authorR {reversed name}` [Mandatory]

The first command should be used to set the full name of the author of the thesis, following a firstname(s) lastname order and without any comma. The second command should be used to set the full name as well, but using a reverse order: lastname, firstname(s) using a comma to separate the lastname from the firstname(s). For example:

```
\author{Julio César Álvarez Iglesias}
\authorR{Álvarez Iglesias, Julio César}
```

`\CDD {CDD number}` [Mandatory]

Sets the CDD number of the thesis.

`\city {name}` [Mandatory]

`\day {day number}` [Mandatory]

`\month {month name}` [Mandatory]

`\year {year number}` [Mandatory]

`\dedication {text}` [Optional]

Sets the text of the dedication section of the thesis.

`\department {name}` [Mandatory]

`\epigraph {text}` [Optional]

`\epigraphauthor {name}` [Optional]

`\epigraphbook {title}` [Optional]

Respectively set the epigraph text, author and book title of an epigraph. For example:

```
\epigraph{%
  My beautifull epigraph
}
\epigraphauthor{Wassily Kandinsky}
\epigraphbook{Regards sur le passé}
```

`\jury` [Mandatory]

`\jurymember {name} {title} {instution} {inst. acronym}` [Mandatory]

`\schoolhead {name} {title}` [Mandatory]

The `\jury` command is used as a block delimiter of the jury members. Each jury member must be defined using four parameters. The schoolhead must be defined using two parameters and must be the last entry of the jury block. Here is an example:

```
\jury{%
  \jurymember{Paulo Roberto Gomes Brandão}{Prof.}
    {Universidade Federal de Minas Gerais}{UFMG}
  ...
  \jurymember{Reiner Neumann}{Dr.}
    {Centro de Tecnologia Mineral}{CETEM/MCTI}
  \schoolhead{José Eugenio Leal}{Prof.}
}
```

**Note:** the mandatory `\school` command, also known as `center`, must be defined outside the `\jury` block.

`\catalogprekeywords` [Mandatory]  
`\catalogprekey {text}` [Mandatory]

The `\catalogprekeywords` command is used as a block delimiter for all `\catalogprekey` entries:

```
\catalogprekeywords{%
  \catalogprekey{Engenharia Química}%
  \catalogprekey{Engenharia de Materiais}%
}
```

Catalog prekey(s) is(are) mandatory: you must have at least one catalog prekey. They precede the list of keywords in the catalog entry of your thesis (ficha catalográfica), and list its domains of application, such as in the example above.

`\keywords` [Mandatory]  
`\keywordsuk` [Mandatory]  
`\key {text}` [Mandatory]

The `\keywords` and `\keywordsuk` commands are used as a block delimiter for all `\key` entries, respectively in the language of the thesis and in english. Here is an example:

```
\keywords{%
  \key{Microscopia Digital;}
  ...
  \key{Classificação.}
}
\keywordsuk{%
  \key{Digital Microscopy;}
  ...
  \key{Classification.}
}
```

`\program {text}` [Mandatory]

Set the post graduation program to which the thesis pertains. For example:

```
\department{Engenharia Química e de Materiais}
\program{Engenharia de Materiais e de Processos Químicos e Metalúrgicos}
```

`\resume {text}` [Mandatory]

Sets the curriculum vitae summary of the candidate. For example:

```
\resume{%
  Graduou-se em Física pela Universidade da Havana (Havana,
  Cuba). Fez mestrado ...}
```

`\school {name}` [Mandatory]

Set the school name, also known as the center name. For example:

```
\school{Centro Técnico Científico}
```

`\tablesmode {mode}` [Optional]

This command is used to define whether the thesis preamble will include a list of figures, a list of tables, both or none. The default is both.

The accepted values for the `mode` are: `empty`, `fig`, `tab` and `figtab`. Note that `empty` means no text, such as `\tablemodes{}`.

`\title {title}` [Optional]

`\titleuk {title}` [Optional]

The first command is used to set the title in the language of the thesis. The second command is used to set the title in english. For example:

```
\title{Desenvolvimento de um sistema de microscopia digital para
      classificação automática de tipos de hematita em minério de ferro}
```

```
\titleuk{Development of a digital microscopy system for automatic
         classification of hematite types in iron ore}
```

`\subtitle {subtitle}` [Optional]

This command is optional and may be used if the thesis also has a subtitle.

`\university {name}` [Mandatory]

`\uni {acronym}` [Mandatory]

Respectively set the name and shortname of the university. For example:

```
\university{Pontifícia Universidade Católica do Rio de Janeiro}
\uni{PUC-Rio}
```

`\usecolour {boolean}` [Optional]

You must use this command and set it to `true` if your thesis makes use of colours. The default value is false.

Note that this command influences the output of the catalog entry on the third page, labeled 'Ficha catalográfica', see `tiny.tex` and `tiny.pdf` for an example of usage and corresponding output.

## Counters

`\setcounter {name} {value}` [Optional]

The `name` must be one of the following values: `tocdepth`, `lofdepth`, `lotdepth` or `secnumdepth`. All these counters are set to 3 per default in the ThesisPUC document class. Here is example to change these default values to 2:

```
\setcounter{tocdepth}{2}
\setcounter{lofdepth}{2}
\setcounter{lotdepth}{2}
\setcounter{secnumdepth}{2}
```

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### C

copying ..... 1

### G

GPL ..... 1

### L

license ..... 1

# Index

The alphabetical list of all user available commands provided by the ThesisPUC L<sup>A</sup>T<sub>E</sub>X document class.

<code>\abbreviationtitle</code> .....	5	<code>\dedication</code> .....	6
<code>\abbreviationtitleuk</code> .....	5	<code>\department</code> .....	6
<code>\abstract</code> .....	5	<code>\epigraph</code> .....	6
<code>\abstractuk</code> .....	5	<code>\epigraphauthor</code> .....	6
<code>\acknowledgment</code> .....	5	<code>\epigraphbook</code> .....	6
<code>\adviser</code> .....	5	<code>\jury</code> .....	6
<code>\adviserInst</code> .....	5	<code>\jurymember</code> .....	6
<code>\adviserR</code> .....	5	<code>\key</code> .....	7
<code>\author</code> .....	6	<code>\keywords</code> .....	7
<code>\authorR</code> .....	6	<code>\keywordsuk</code> .....	7
<code>\catalogprekey</code> .....	7	<code>\month</code> .....	6
<code>\catalogprekeywords</code> .....	7	<code>\program</code> .....	7
<code>\CDD</code> .....	6	<code>\resume</code> .....	7
<code>\city</code> .....	6	<code>\school</code> .....	7
<code>\coadviser</code> .....	5	<code>\schoolhead</code> .....	6
<code>\coadviserII</code> .....	5	<code>\setcounter</code> .....	8
<code>\coadviserIII</code> .....	5	<code>\subtitle</code> .....	8
<code>\coadviserIIIInst</code> .....	5	<code>\tablesmode</code> .....	8
<code>\coadviserIIIInst</code> .....	5	<code>\title</code> .....	8
<code>\coadviserIIIR</code> .....	5	<code>\titleuk</code> .....	8
<code>\coadviserIIR</code> .....	5	<code>\uni</code> .....	8
<code>\coadviserInst</code> .....	5	<code>\university</code> .....	8
<code>\coadviserR</code> .....	5	<code>\usecolour</code> .....	8
<code>\day</code> .....	6	<code>\year</code> .....	6