



# A VERY LONG AND IMPRESSIVE THESIS TITLE WITH A FORCED LINE BREAK

JOHN VERY LONGNAME DCE

Master/BSc in Name of Previous Degree

DOCTORATE IN STUDY PROGRAM NAME

SPECIALIZATION IN SPECIALIZATION NAME

NOVA University Lisbon

January, 2000



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This document was produced with the `luatex` [1] typesetting system and the `NOVAthesis` template (v7.10.0) [2].

- [1] The `LATeX` Project team. *LATeX - A document preparation system*. 1985. URL: <https://www.latex-project.org> (visited on 2026-01-14).
- [2] J. M. Lourenço. *The NOVAthesis L<sup>A</sup>T<sub>E</sub>X Template User's Manual*. NOVA University Lisbon. 2021. URL: <https://github.com/joaomlourenco/novatheresis/raw/main/template.pdf>.

Dedicatory lorem ipsum.

## ACKNOWLEDGEMENTS

Acknowledgments are personal text and should be a free expression of the author.

However, without any intention of conditioning the form or content of this text, I would like to add that it usually starts with academic thanks (instructors, etc.); then institutional thanks (Research Center, Department, Faculty, University, FCT / MEC scholarships, etc.) and, finally, the personal ones (friends, family, etc.).

But I insist that there are no fixed rules for this text, and it must, above all, express what the author feels.

“

*“You cannot teach a man anything; you can only  
help him discover it in himself.”*

— **Galileo**, Somewhere in a book or speech  
(Astronomer, physicist and engineer)

# ABSTRACT

Regardless of the language in which the dissertation is written, usually there are at least two abstracts: one abstract in the same language as the main text, and another abstract in some other language.

The abstracts' order varies with the school. If your school has specific regulations concerning the abstracts' order, the NOVAthesis L<sup>A</sup>T<sub>E</sub>X (**novathesis**) (L<sup>A</sup>T<sub>E</sub>X) template will respect them. Otherwise, the default rule in the **novathesis** template is to have in first place the abstract in *the same language as main text*, and then the abstract in *the other language*. For example, if the dissertation is written in Portuguese, the abstracts' order will be first Portuguese and then English, followed by the main text in Portuguese. If the dissertation is written in English, the abstracts' order will be first English and then Portuguese, followed by the main text in English. However, this order can be customized by adding one of the following to the file `5_packages.tex`.

```
\ntsetup{abstractorder={<LANG_1>, ..., <LANG_N>}}  
\ntsetup{abstractorder={<MAIN_LANG>={<LANG_1>, ..., <LANG_N>}}}
```

For example, for a main document written in German with abstracts written in German, English and Italian (by this order) use:

```
\ntsetup{abstractorder={de={de,en,it}}}
```

Concerning its contents, the abstracts should not exceed one page and may answer the following questions (it is essential to adapt to the usual practices of your scientific area):

1. What is the problem?
2. Why is this problem interesting/challenging?
3. What is the proposed approach/solution/contribution?
4. What results (implications/consequences) from the solution?

**Keywords:** One keyword · Another keyword · Yet another keyword · One keyword more · The last keyword

## Sustainable Development Goals (SDG):



# RESUMO

Independentemente da língua em que a dissertação está escrita, geralmente esta contém pelo menos dois resumos: um resumo na mesma língua do texto principal e outro resumo numa outra língua.

A ordem dos resumos varia de acordo com a escola. Se a sua escola tiver regulamentos específicos sobre a ordem dos resumos, o template (LATEX) novathesis irá respeitá-los. Caso contrário, a regra padrão no template novathesis é ter em primeiro lugar o resumo *no mesmo idioma do texto principal* e depois o resumo *no outro idioma*. Por exemplo, se a dissertação for escrita em português, a ordem dos resumos será primeiro o português e depois o inglês, seguido do texto principal em português. Se a dissertação for escrita em inglês, a ordem dos resumos será primeiro em inglês e depois em português, seguida do texto principal em inglês. No entanto, esse pedido pode ser personalizado adicionando um dos seguintes ao arquivo `5_packages.tex`.

```
\abstractorder(<MAIN_LANG>) := {<LANG_1>, ..., <LANG_N>}
```

Por exemplo, para um documento escrito em Alemão com resumos em Alemão, Inglês e Italiano (por esta ordem), pode usar-se:

```
\ntsetup{abstractorder={de={de,en,it}}}
```

Relativamente ao seu conteúdo, os resumos não devem ultrapassar uma página e frequentemente tentam responder às seguintes questões (é imprescindível a adaptação às práticas habituais da sua área científica):

1. Qual é o problema?
2. Porque é que é um problema interessante/desafiante?
3. Qual é a proposta de abordagem/solução?
4. Quais são as consequências/resultados da solução proposta?

**Palavras-chave:** Primeira palavra-chave · Outra palavra-chave · Mais uma palavra-chave · A última palavra-chave

## Objetivos de Desenvolvimento Sustentável (ODS):

**1** ERRADICAR A POBREZA



**2** ERRADICAR A FOME



**3** SAÚDE DE QUALIDADE



**4** EDUCAÇÃO DE QUALIDADE



**5** IGUALDADE DE GÉNERO



**6** ÁGUA POTÁVEL E SANEAMENTO



**7** ENERGIAS RENOVÁVEIS E ACESSÍVEIS



**8** TRABALHO DIGNO E CRESCIMENTO ECONÓMICO



**9** INDÚSTRIA, INovação e INFRAESTRUTURAS



**10** REDUZIR AS DESIGUALDADES



**11** CIDADES E COMUNIDADES SUSTENTÁVEIS



**12** PRODUÇÃO E CONSUMO SUSTENTÁVEIS



**13** AÇÃO CLIMÁTICA



**14** PROTEGER A VIDA MARINHA



**15** PROTEGER A VIDA TERRESTRE



**16** PAZ, JUSTIÇA E INSTITUIÇÕES EFICAZES



**17** PARCERIAS PARA A IMPLEMENTAÇÃO DOS OBJETIVOS



# DISCLOSURE OF USAGE OF GENERATIVE ARTIFICIAL INTELLIGENCE

The author, John Very Longname Doe, acknowledges the use of the following generative artificial intelligence tools in the development of this thesis. These technologies were utilized under strict supervision, and all AI-generated outputs were critically reviewed and verified for accuracy. The author accepts full responsibility for the validity and originality of the content, confirming that the use of these tools aligns with all institutional policies and standards of academic integrity.<sup>1</sup>

**Generative AI tools used:** ChatGPT-5.2, Gemini 3 Pro, Claude 4.5 Opus, and Perplexity 12.12.25.

**Activities supported by Generative Artificial Intelligence Tools:**<sup>2</sup>

## Conceptualization

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Idea generation                            | <input type="checkbox"/> Formulating research questions and hypotheses         | <input type="checkbox"/> Hypothesis viability assessment       |
| <input checked="" type="checkbox"/> Defining the research objective | <input checked="" type="checkbox"/> Feasibility assessment and risk evaluation | <input type="checkbox"/> Simulated debate and argument testing |

## Literature Review

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Search and Discovery                   | <input checked="" type="checkbox"/> Concept Mapping and Systematization | <input type="checkbox"/> Gap Identification and Novelty Evaluation |
| <input type="checkbox"/> Literature summarization and synthesis | <input type="checkbox"/> Market/patent landscape analysis               | <input type="checkbox"/> Cross-lingual literature comprehension    |

## Methodology

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Experimental Design Optimization | <input type="checkbox"/> Development of experimental or research protocols | <input checked="" type="checkbox"/> Methodological Instrument Selection |
|---|--|---|

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<sup>1</sup>This declaration was generated using LuaLaTeX [16] and the LaTeX package `aidisclose` [11].

<sup>2</sup>This list extends the GAIDeT taxonomy [15].

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## Software Development and Automation

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- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Code Generation              | <input checked="" type="checkbox"/> Debugging and Repair | <input type="checkbox"/> Algorithm design                          |
| <input type="checkbox"/> Refactoring and Optimization | <input checked="" type="checkbox"/> Process automation   | <input type="checkbox"/> Code documentation and comment generation |

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## Data Management

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- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Data collection                           | <input type="checkbox"/> Data analysis                                 | <input type="checkbox"/> Synthetic data generation                              |
| <input type="checkbox"/> Validation                                | <input checked="" type="checkbox"/> Quantitative Plotting and Charting | <input type="checkbox"/> De-identification and anonymization support            |
| <input type="checkbox"/> Data cleaning                             | <input type="checkbox"/> Reproducibility and rerun checks              | <input checked="" type="checkbox"/> Audio-to-text transcription and diarization |
| <input checked="" type="checkbox"/> Data curation and organization | <input type="checkbox"/> Data labeling and annotation assistance       |   |

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## Visuals and Multimedia

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- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Synthetic Asset Generation | <input checked="" type="checkbox"/> Image Enhancement and Editing | <input type="checkbox"/> Diagrammatic and Schematic Design |
|---|---|--|

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## Writing and Editing

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- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Drafting Text                             | <input type="checkbox"/> Formulation of conclusions | <input type="checkbox"/> Citation formatting and bibliography management  |
| <input type="checkbox"/> Polishing and Editing                     | <input type="checkbox"/> Tone Adjustment            | <input checked="" type="checkbox"/> Press releases and outreach materials |
| <input type="checkbox"/> Abstract and Executive Summary Generation | <input type="checkbox"/> Translation                | <input type="checkbox"/> Title Generation                                 |

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## Ethics Review

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- |   |   |  |
|---|---|--|
| <input checked="" type="checkbox"/> Bias analysis and discrimination assessment | <input type="checkbox"/> Ethical risk analysis                        | <input type="checkbox"/> Data confidentiality monitoring |
|   | <input type="checkbox"/> Monitoring compliance with ethical standards |  |

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## Quality Assurance

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- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Simulated Peer Review          | <input type="checkbox"/> Identification of limitations                         | <input type="checkbox"/> Publication support |
| <input type="checkbox"/> Consistency checking against field trends | <input checked="" type="checkbox"/> Publication strategy and journal selection |  |

Additional comment #1: The AI was used primarily for refining the code in Section 3, but the algorithm logic was derived manually.

Additional comment #2: This is a second additional comment!

Additional comment: This is a third additional comment! It is starred and, thus, does not get a number. Also, this comment is longer and, hopefully, will span to the next line!

Additional comment #3: This is the third non-starred additional comment!

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## GLOSSARY

**computer** An electronic device which is capable of receiving information (data) in a particular form and of performing a sequence of operations in accordance with a predetermined but variable set of procedural instructions (program) to produce a result in the form of information or signals. This is a test that adds a citation [2] to the glossary! (*p. 15*)

## ACRONYMS

<b>aaa</b>	acronym aaa ( <i>p. 15</i> )
<b>aab</b>	acronym aab ( <i>p. 15</i> )
<b>aba</b>	acronym aba ( <i>p. 15</i> )
<b>abbrev</b>	abbreviation of a longer text ( <i>p. 15</i> )
 <b>bbb</b>	acronym bbb ( <i>p. 15</i> )
 <b>DI</b>	Department of Computer Science ( <i>p. 1</i> )
 <b>FCT</b>	NOVA School of Science and Technology ( <i>pp. 1, 6</i> )
 <b>NOVA</b>	NOVA University Lisbon ( <i>p. 1</i> )
 <b>novathesis</b>	NOVAtesis L <sup>A</sup> T <sub>E</sub> X ( <i>pp. vi, viii, xiv, 1–9</i> )
 <b>xpto</b>	and extension of a xpto xpto xpto xpto xpto xpto xpto xpto xpto xpto xpto xpto xpto ( <i>p. 15</i> )

## SYMBOLS

$\mu$  Mu (*p. 15*)

$\pi$  the numerical value of pi (*p. 15*)

$r$  the radius of a circle (*p. 15*)

## INTRODUCTION



This is the **novathesis** L<sup>A</sup>T<sub>E</sub>X template Version 7.10.0 from Template!date2026-01-26.

*This work is licensed under the L<sup>A</sup>T<sub>E</sub>X Project Public License v1.3c. To view a copy of this license, visit the [LaTeX project public license](#).*

This first Chapter introduces the **novathesis** template and how it is organized. In Chapter 2 you can find some specific instructions on how to use this template. Chapter 3 shows some examples and give some hints on how to write your text. Please read these next Chapters carefully.

### 1.1 The NOVAthesis Template

The **novathesis** template was born at the Department of Computer Science (DI) of NOVA School of Science and Technology (FCT) of NOVA University Lisbon (NOVA), Portugal. But the user base grew... initially grew to other Departments of NOVA FCT, then to other Schools of NOVA, and later to other Schools of other Universities. Currently more than 25 Schools are natively supported by the **novathesis** template. The full list of supported Schools can be found at the [Project's GitHub page](#).

#### 1.1.1 Your Time is Precious

Did you learn how to drive by sitting by the wheel and throwing your car into the road? Most probably you did take your time *learning the rules* and *practicing* first! Likewise, it is not wise to throw yourself at the task of writing a thesis/dissertation in L<sup>A</sup>T<sub>E</sub>X without seriously considering the following recommendation!

If you are going to spend zillions of hours writing your thesis/dissertation using the **novathesis** L<sup>A</sup>T<sub>E</sub>X template (or some other L<sup>A</sup>T<sub>E</sub>X template), be wise and spend a couple of hours learning how to use it properly by reading its manual. And then, be even wiser, and spend a few more hours **learning some L<sup>A</sup>T<sub>E</sub>X**. I am sure that the time you are investing now will pay itself countless times before you submit your thesis/dissertation.

— João Lourenço

### 1.1.2 Recognition

The **novathesis** template was born in 1996, and what you see now accumulates to many many hundreds (thousands?!?) of working hours, unpaid and stolen from family and friends. This work is available to the community under the **L<sup>A</sup>T<sub>E</sub>X Project Public License v1.3c**, which means you are entitled to use it for free and change it at your will. However, if you decide to use this template to write your thesis/dissertation, **be fair to the developers** and:

1. Cite the **novathesis** manual [12] in a place of your choice (e.g., in the *Acknowledgments*) of your thesis/dissertation with “\cite{novathesis-manual}”. If you cite it this way, the correct entry will be added automatically to your bibliography (no need to worry with the necessary BibTeX entry, as it will be added automatically);
2. Go to the **project web page in GitHub** and give the project a star (marked with a red ellipse at the top-right in Figure 1.1); and
3. Make a donation by visiting the **novathesis** project page and clicking in the button marked with a green ellipse at the top-center in Figure 1.1). Alternatively, just click **HERE** and your browser will be directed to the right page.

## 1.2 Getting Started

The template provides an *easy to use* setting for you to write your thesis/dissertation in L<sup>A</sup>T<sub>E</sub>X:

- Select your school;
- Fill your thesis metadata (title, research field, etc) in the file “`template.tex`”;
- Create your thesis/dissertation contents using the files in folder “`Chapters`”; and
- Process using you favorite L<sup>A</sup>T<sub>E</sub>X processor (`pdflatex`, `XeLaTeX` or `LuaLaTeX`).

### 1.2.1 Using Overleaf



Figure 1.1: The `novathesis` project web page in GitHub.

[Overleaf](#) is a collaborative cloud-based LaTeX editor used for writing, editing and publishing scientific documents. Like “Google Docs”, for  $\text{\LaTeX}$  users. You can edit and compile your  $\text{\LaTeX}$  source on the cloud, without installing software in your own computer, and, much like *Google Docs*, you can share your document with others users and everybody can edit the same file at the same time (this may be dangerous).

If you do not have an account in Overleaf, you must [create one first](#).

Once you have an account, please access the `novathesis` template in [Overleaf](#) and select the green button *Open as Template* (see Figure 1.2).

Please notice that the version currently available in Overleaf (*v7.1.18*) is slightly outdated (current version is *v7.10.0*). A new version (*v7.1.29*) will be submitted to Overleaf soon. Until then, please:

1. Download the [latest version](#) from the GitHub repository as a Zip file.
2. Login to your favorite LaTeX cloud service. I recommend [Overleaf](#) but there are alternatives (these instructions apply to Overleaf and you'll have to adapt for other providers).
3. In the menu select: *New project* → *Upload project*.
4. Upload the zip file.
5. Select “`template.tex`” as the main file.

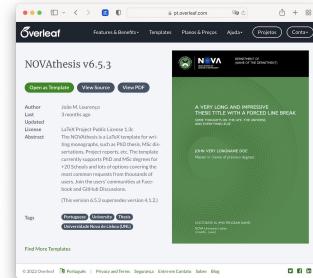


Figure 1.2: NOVAthesis template in Overleaf.

### 6. Let Overleaf compile the document.

Notice that you need a (student) subscription to compile the `novathesis` template in Overleaf, otherwise your compilation will always time out.

#### 1.2.2 Using a Local L<sup>A</sup>T<sub>E</sub>X Installation Local

First of all, start by installing L<sup>A</sup>T<sub>E</sub>X in your computer. There are two main distributions, [Mik<sup>T</sup>E<sub>X</sub>](#) and [T<sub>E</sub>XLive](#), and both of them are available for the 3 most popular Operating Systems: Linux, macOS and Windows.

Be aware that a full installation of Mik<sup>T</sup>E<sub>X</sub> or T<sub>E</sub>XLive will take near 5 GB of hard disk space. So, think twice before installing the full distribution. See the `novathesis` Wiki for the [list of packages required to compile the template](#).

Once you have L<sup>A</sup>T<sub>E</sub>X up and running, remember to install a good L<sup>A</sup>T<sub>E</sub>X text editor. I recommend you to take a look at [this post](#) in the [tex.stackexchange.com](#) site. If you want a quick and dirty recommendation, try [TeXStudio](#).

Now, you must access the `novathesis` repository in [GitHub](#), select the green button *Code* and then *download* (or *clone*) the template. You will always get the latest version of the template (currently v7.10.0 from 2026-01-26).

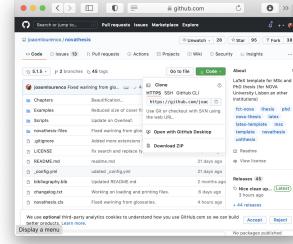


Figure 1.3: The NOVAthesis Project page in GitHub.

### 1.3 Getting Help

No! You don't have to use this template to write your thesis. You don't even have to use L<sup>A</sup>T<sub>E</sub>X. However, writing a thesis is serious stuff, and which tool you shall use to write it is not a decision to make lighthearted.

L<sup>A</sup>T<sub>E</sub>X is hard enough by itself. This template aims at making your life easier, but not easy. If you choose to use this template to write your thesis, you are very welcome. However, don't expect me to provide you help with L<sup>A</sup>T<sub>E</sub>X. Look for help with your friends (you have some friends, don't you?), or search the web, or try even to read some book(s) on L<sup>A</sup>T<sub>E</sub>X. In the end you will certainly find the experience rewarding.

When you come to the point of "*How do I do this with the novathesis template?*", remember...

1. To check the [novathesis wiki](#) and have some hope! :D
2. [Google](#) is your best friend.
3. Search the [GitHub Discussions page](#) for a question related to yours. *If and only if* you don't find one, then post your own question in English please!

4. Search the [NOVAtheis Facebook group](#) for a question related to yours. *If and only if* you don't find one, then post your own question in either Portuguese or English, at your preference.

When you post your own question, remember to **always** state the **novathesis** version number you are using and referring to.

Please do not attempt to contact me directly (email, Messenger, etc)...  
I WILL NOT REPLY!

### 1.3.1 Suggestions, Bugs and Feature Requests

**Help:** If you just need some help, see above [Section 1.3](#).

**Suggestion:** Do you have a suggestion/recommendation? Please add it to the wiki and help other users!

**Bug:** Did you find a bug? Please open an issue. Thanks!

**New Feature:** Would you like to request a new feature (or support of a new School)? Please open an issue. Thanks!

## 1.4 Donors

The [list of Donors](#) is available in the **novathesis** Project page.

## 1.5 Disclaimer

Although the **novathesis** template is endorsed by some Schools (e.g., linked from NOVA FCT web site), the **novathesis** template **this not an official template** for any School.

The **novathesis** template exists to make your life easier and we do our best to make it compliant to the supported (+25) Schools' regulations but, in the end of the line, you and only you are accountable for both the look and the contents of the document you submit as your thesis/dissertation.

# NOVATHESIS TEMPLATE *USER'S MANUAL*

This manual is outdated and must be revised!

## 2.1 Introduction

This Chapter describes how to use the NOVAthesis L<sup>A</sup>T<sub>E</sub>X (`novathesis`) template. It is assumed that you have a working of L<sup>A</sup>T<sub>E</sub>X, either local (in your own computer) or remote (in [Overleaf](#)), and that you were able to generate a PDF for the default configuration of the template: a PhD thesis for NOVA School of Science and Technology (FCT).

## 2.2 Quick Start

### 2.2.1 With a Local L<sup>A</sup>T<sub>E</sub>X Installation

Follow these steps to get started with a local L<sup>A</sup>T<sub>E</sub>X installation:

1. Download L<sup>A</sup>T<sub>E</sub>X. There are two major L<sup>A</sup>T<sub>E</sub>X distributions — [Mik<sub>T</sub>E<sub>X</sub>](#) and [T<sub>E</sub>XLive](#) — that share lots of similarity, and L<sup>A</sup>T<sub>E</sub>X documents are portable between them. This means that, for most users, both systems are equally usable.

[T<sub>E</sub>X-Live](#) is maintained by (La)T<sub>E</sub>X developers and is certainly the best distribution you may install in your computer: However, the default distribution will take more than 5 GB on your hard disk... so, if you are not short on disk space, install T<sub>E</sub>XLive!

[Mik<sub>T</sub>E<sub>X</sub>](#) will, by default, install only a minimal set of packages. The extra/additional packages will be installed on the fly. Installing packages on the fly is useful if disk space is limited, but has its own caveats in the longer term. Definitely choose Mik<sub>T</sub>E<sub>X</sub> if you're short on disk space.

Which one to download? There are [pros and cons for both distributions](#) so it is essentially a question of where does your heart fall first! Mine falls to T<sub>E</sub>XLive, but yours can fall elsewhere! :D

2. Install  $\text{\LaTeX}$ . Installation of  $\text{\LaTeX}$  is as hard as installing any other software. Just do your best and you will certainly succeed.
3. Update your  $\text{\LaTeX}$  installation using the *T<sub>E</sub>XLiveUtility* program of the Mik $\text{T}_{\text{E}}$ X console.
4. Download the `novathesis` template by either:

- Cloning the [GitHub repository](#) with

```
git clone --depth=1 https://github.com/joaomlourenco/novathesis.git
```

or

- Downloading the [latest version from the GitHub repository as a Zip file](#).

5. Download additional School specific files if applicable:

**Universidade do Minho (UMINHO)** download the required *NewsGotT* font files from <https://raw.githubusercontent.com/joaomlourenco/novathesis-extras/main/Fonts/NewsGotT.zip> then unzip the file and copy the 3 font files

“n015002t.ttf”, “n015003t.ttf”, and “n015006t.ttf”

to the folder

“NOVAthesisFiles/FontStyles/Fonts”.

**Escola Superior de Enfermagem do Porto (ESEP)** download the required *Calibri* font files from <https://raw.githubusercontent.com/joaomlourenco/novathesis-extras/main/Fonts/Calibri.zip> then unzip the file and copy the 4 font files

“Calibri.ttf”, “Calibrib.ttf”, “Calibrii.ttf”, and “Calibriz.ttf”

to the folder

NOVAthesisFiles/FontStyles/Fonts.

6. Compile the document with you favorite  $\text{\LaTeX}$  processor ( $\text{pdf}\text{\LaTeX}$ ,  $\text{Xe}\text{\LaTeX}$  or  $\text{Lua}\text{\LaTeX}$ ).

- The main file is named “`template.tex`”, but you are free to rename it as you please.
- Either load the main file in your favorite [LaTeX text editor](#) and press the appropriate (*magic*) button to generate a PDF file, or open a terminal and compile it with “`latexmk -pdf template`”. If you use a  $\text{\LaTeX}$  text editor, please notice that the `novathesis` template uses “`biber`” and not “`bibtex`” to process the bibliography, which means that most probably you have to open the *Editor*

*Preferences* and somewhere (depending on the Editor you are using) change “`bibtex`” to “`biber`”.

- Notice that, due to the external font sets used, `pdflatex` will not work for both **UMINHO** and **ESEP**, and you have to use either `XeLaTeX` (“`latexmk -pdfxe template`”) or `LuaLaTeX` (“`latexmk -pdflua template`”).

7. Edit the files in the “Config” folder. See [Table 2.2](#).

8. Recompile de document.

9. And you're done with a beautifully formatted thesis/dissertation! :D

### 2.2.2 With a Remote Cloud-based Service

Follow these steps to get started with a remote `LATeX` installation:

- Download the [latest version from the GitHub repository as a Zip file](#).
- Login to your favorite `LaTeX` cloud service. I recommend [Overleaf](#) but there are alternatives. These instructions apply to Overleaf and you'll have to adapt for other providers.
- In the menu select `New project` → `Upload project`.
- Select “`template.tex`” as the main file.
- Follow from Step 5 above in Section [2.2.1 \(With a Local `LATeX` Installation\)](#).

## 2.3 Folder and Files

The `novathesis` template is organized into many files and folders. At the main level it includes the following files and folders listed in [Table 2.1](#).

Table 2.1: The folders and files (top level).

Name	Type	Access	Contents
<code>template.tex</code>			The main template file. You need to <i>compile</i> this file with one of <code>pdflatex</code> , <code>XeLaTeX</code> , or <code>LuaLaTeX</code> to obtain the PDF file (“ <code>template.pdf</code> ”). I recommend the usage of the “ <code>latexmk</code> ” command or, if you use a UN*X-like OS, you may use “ <code>make</code> ” (and the given “ <code>Makefile</code> ”).
<code>Config</code>			Configuration files. Please customize your template by changing the files in this folder!

Chapters			Examples of document contents, including Chapters, Appendices, Annexes, Abstracts, Glossaries, Lists of Symbols, etc. Replace them with your own.
Bibliography			Where all your bibliography files should be located. You may have many bibliography files as you want.
template.pdf			A possible result of applying pdflatex to the "template.tex" file. The look and feel of the document will depend on the parametrization/configuration (e.g., School) of this template.
novathesis.cls			The main class file.
NOVAthesisFiles			Additional files for the novathesis template. This is where all the juice is so, unless you are a TeXmagician, don't mess up with the files and folders inside this folder.

Table 2.2: The configuration files (Config folder).

Name	Type	Access	Contents
0_memoir.tex			Options specific for the memoir class. <i>Don't touch this file unless you know what you are doing!</i>
1_novathesis.tex			The main configuration file for the template, e.g., select the document type, the school, the used languages, etc.
2_biblatex.tex			Select how your citations and bibliographic references will be printed. The default is numbers inside square brackets, e.g. [12], but you can change it to other formats, such as author-year, e.g., Lourenço (2021).
3_cover.tex			Configure cover contents (e.g., author's name, thesis/dissertation title, author, advisers, committee, etc)
4_files.tex			Select which files shall be included in the document as chapters, appendices, annexes, etc...
5_packages.tex			User's customization, such as loading additional packages and declare user defined commands.

6_list_of.tex			Configure the lists to be printed (table of contents, list of figures, list of tables, list of listings, etc). <i>Don't touch this file unless you know what you are doing!</i>
9_nova_fct.tex			Configurations specific to NOVA FCT. <i>Otherwise ignored.</i>
9_ulisboa_fmv.tex			Configurations specific to ULISBOA FMV. <i>Otherwise ignored.</i>
9_ulisboa_ist.tex			Configurations specific to ULISBOA IST. <i>Otherwise ignored.</i>
9_uminho.tex			Configurations specific to UMINHO (all schools). <i>Otherwise ignored.</i>

---

## 2.4 Customizing the *novathesis* template

The *novathesis* template can be customized by editing the files in the Config folder.

### 2.4.1 Options in 1\_novathesis.tex

#### 2.4.1.1 Most Relevant Options (1\_novathesis.tex)

---

**doctype=OPT**

*phd, phdprop, phdplan, msc, mscplan,  
bsc, plain*

**The type of the document.**

*phd* → PhD thesis ( $\Leftarrow$  default).  
*phdprop* → PhD thesis proposal (for NOVA FCT).  
*phdplan* → PhD thesis plan.  
*msc* → MSc thesis.  
*mscplan* → MSc thesis plan.  
*bsc* → BSc report.  
*plain* → Other report.

---

**school=OPT**

*nova/fct, nova/fcsh, nova/ims,  
nova/ims/mcsig, nova/ims/mgt,  
nova/ensp, nova/itqb/green,  
nova/itqb/gray, ulisboa/ist, ulisboa/fcul,  
ulisboa/fmv, uminho/eaad, uminho/ec,  
uminho/ed, uminho/eeg, uminho/eeng,  
uminho/elach, uminho/emed,  
uminho/epsi, uminho/ese, uminho/i3bs,  
uminho/ics, uminho/ie, iscteiul/eta,  
ips/ests, ipl/isel, ipl/isel/meb, ulht/deisi,  
ulht/mge, other/esep*

**Selection of the university and of the school (and degree variant).**

⇒ Default: *school=nova/fct*

This option changes the typesetting of the document to some specific School formating and layout, like covers, margins, fonts, paragraph spacing and indentation, etc.

**docstatus=OPT**

*draft, provisional, final*

**The current status of the document.**

*working* → Working version (⇐ default).

*provisional* → Version for submission.

*final* → Final version.

**lang=OPT**

*en, pt, de, es, fr, gr, it*

**The main language for the document.**

*en* → English (⇐ default).

*pt* → Portuguese.

*de* → German.

*es* → Spanish.

*fr* → French.

*gr* → Greek.

*it* → Italian.

**media=OPT**

*screen, paper*

**The target media for the PDF.**

*screen* → No empty/white pages (⇐ default).

*paper* → Empty/white pages are added when necessary.

**print/webography=OPT**

*User defined title*

**Generate a separate bibliography for @online references.**

⇒ Default: *print/webography=undefined*

If undefined, the @online references are list in the main bibliography. If defined, the @online references will be printed in a separate bibliography titled as given in the option.

**color/links=OPT**

*Color name*

**The color for the hyperlinks (URLs, cross references, citations).**

⇒ Default: *color/links=DarkBlue*

The valid color names as listed in “xcolor” manual, the “svgnames” color set.

<b>glossaries/color/gls=OPT</b>	<b>The color for the glossary managed hyperlinks (glossary, symbols, etc).</b>
<i>Color name</i>	$\Rightarrow$ Default: <i>glossaries/color/gls=Black</i> The valid color names as listed in "xcolor" manual, the "svgnname" color set.
<b>print/index=OPT</b>	<b>Print the (words) index at the end of the document.</b>
<i>true,</i> <i>false</i> ( $\Leftarrow$ default)	Print the index (in Portuguese <i>Índice Remissivo</i> ).

---

#### 2.4.1.2 Less Relevant Options (1\_novathesis.tex)

<b>abstractorder=OPT</b>	<b>Forces the abstracts languages and order for documents in language <math>L_0</math>.</b>
$L_0 = \{L_1, L_2, \dots, L_n\}$	$\Rightarrow$ Default: <i>abstractorder={en={en,pt}}</i> for english $\Rightarrow$ Default: <i>abstractorder={L={L, en}}</i> for lang $L$ $L_i$ is a two-letters language code from the set of valid language codes, following ISO 3166-1 (alfa-2).
<b>lang/extralang=OPT</b>	<b>List of additional languages are used in the document besides the main language and those used in the abstracts (above).</b>
$\{L_1, L_2, \dots, L_n\}$	$\Rightarrow$ Default: <i>lang/extralang={}</i> $L_i$ is a two-letters language code from the set of valid language codes, following ISO 3166-1 (alfa-2).
<b>glossaries/list/reverse=OPT</b>	<b>Shall the glossary entries list the page numbers where those entries are used? (Like a reverse index!)</b>
<i>true, (<math>\Leftarrow</math> default)</i> <i>false</i>	
<b>tocintoc=OPT</b>	<b>Shall table of contents be listed in the table of contents?</b>
<i>true,</i> <i>false</i> ( $\Leftarrow$ default)	
<b>tocintoc=OPT</b>	<b>Shall a second cover page be forced?</b>
<i>true,</i> <i>false</i> ( $\Leftarrow$ default)	If the contents for the second page are not defined, the second cover will be a replica of the first cover.
<b>print/committee=OPT</b>	<b>Shall the evaluation committee be printed?</b>
<i>true,</i> <i>false</i>	$\Rightarrow$ Default: <i>print/committee=true if docstatus=final</i> $\Rightarrow$ Default: <i>print/committee=false otherwise</i>

---

<b>print/statement=OPT</b> <i>true,</i> <i>false</i> ( $\Leftarrow$ default)	<b>Shall the honor/originality statement be printed?</b>
<b>print/copyright=OPT</b> <i>true, (= default)</i> <i>false</i>	<b>Shall the copyright message be printed?</b>
<b>print/timestamp=OPT</b> <i>true,</i> <i>false</i>	<b>Shall a timestamp (with the PDF generation date/time) be printed in the cover?</b> ⇒ Default: <i>print/timestamp=true if docstatus=working</i> ⇒ Default: <i>print/timestamp=false otherwise</i>
<b>style/url=OPT</b> <i>default, (<math>\Leftarrow</math> default)</i> <i>same</i>	<b>Use the same (main) font in URLs?</b>
<b>style/font=OPT</b> <i>arial, bookman, calibri, erewhon,</i> <i>kieranhealy, kpfonts, libertine, newpx,</i> <i>newsgott, scholax</i>	<b>Which font set to use in the document?</b> arial → Use ‘arial’ font. Requires Xe <sup>L</sup> A <sub>T</sub> E <sub>X</sub> or Lua <sup>L</sup> A <sub>T</sub> E <sub>X</sub> . bookman → Use ‘bookman’ font. calibri → Use ‘calibri’ font. Requires Xe <sup>L</sup> A <sub>T</sub> E <sub>X</sub> or Lua <sup>L</sup> A <sub>T</sub> E <sub>X</sub> . erewhon → Use ‘erewhon’ font. kieranhealy → Use ‘kieranhealy’ font. kpfonts → Use ‘palatino’ font. libertine → Use ‘libertine’ font. newpx → Use ‘palatino’ font. ( $\Leftarrow$ default) newsgott → Use ‘newsgott’ font. Requires Xe <sup>L</sup> A <sub>T</sub> E <sub>X</sub> or Lua <sup>L</sup> A <sub>T</sub> E <sub>X</sub> . scholax → Use ‘scholax’ font.

**style/chapter=OPT**

See list on the side!

**Which chapter style to use in the document?**

Besides the standard `memoir` chapter styles (`default`, `section`, `article`, `reparticle`, `hangnum`, `companion`, `demo`, `bianchi`, `bringhurst`, `brotherton`, `chappell`, `culver`, `dash`, `demodemoell`, `ger`, `lyhne`, `madsen`, `pedersen`, `southall`, `thatcher`, `veelo`, `verville`, `crosshead`, `dowding`, `komalike`, `ntglike`, `tandh`, `wilsondob`), the customized list of chapter styles below is also available.

<code>bar</code>	→ Use 'bar' chapter style. ( $\Leftarrow \text{default}$ )
<code>bar-compact</code>	→ Use 'bar-compact' chapter style.
<code>bluebox</code>	→ Use 'bluebox' chapter style.
<code>compact</code>	→ Use 'compact' chapter style.
<code>elegant</code>	→ Use 'elegant' chapter style.
<code>fmv</code>	→ Use 'fmv' chapter style.
<code>hansen</code>	→ Use 'hansen' chapter style.
<code>ist</code>	→ Use 'ist' chapter style.
<code>ist2</code>	→ Use 'ist2' chapter style.
<code>pedersen</code>	→ Use 'pedersen' chapter style.

**lang/cover=OPT**

*en, pt, de, es, fr, gr, it*

**The main language for the cover.**

⇒ Default: *The same as the main language.*

**lang/copyright=OPT**

*en, pt, de, es, fr, gr, it*

**The main language for the copyright message.**

⇒ Default: *The same as the main language.*

**spine/layout=OPT**

*no, full, trim*

**Print the "book spine" at the end of the document?**

⇒ Default: `'trim' if docstatus=final`

⇒ Default: `'no' otherwise`

`no` → do not print the book spine.

`full` → print the book spine in a full page.

`trim` → print and trim the page to the width of the book spine.

**spine/width=OPT**

`\LaTeX` dimension

**Force the width of the "book spine".**

⇒ Default: *The "natural width".*

The default width for the book spine will be the width of the number of pages of the document if printed in standard paper ( $80g/m^2$ ).

**debug=OPT**

*cover, spine*

**Activate debug mode for cover and/or book spine.**

⇒ Default: `debug={}`

## 2.5 How to Write Using LATEX

Please have a look at Chapter 3, where you may find many examples of LATEX constructs, such as Sectioning, inserting Figures and Tables, writing Equations, Theorems and algorithms, exhibit code listings, etc.

## 2.6 Example glossary, acronyms, and symbols

This is the first occurrence of an abbreviation: abbreviation of a longer text (abbrev). And now the second occurrence of the same abbreviation: abbrev. And a new acronym with capital letter: And extension of a xpto (xpto) and reused xpto. Let's also use a few other acronyms such as acronym aaa (aaa), acronym aab (aab), acronym aba (aba), acronym bbb (bbb) and xpto. In geometry, the area enclosed by a circle of radius  $r$  is  $\pi r^2$ . Here the Greek letter  $\pi$  is equal to the ratio of the circumference of any circle to its diameter. Lets add "computer" to the glossary! Be carefull with mathematical symbols in acronyms, please see the definition of  $\mu$ .

# A SHORT LATEX TUTORIAL WITH EXAMPLES

This Chapter aims at exemplifying how to do common stuff with LATEX. We also show some stuff which is not that common! ;)

Please, use these examples as a starting point, but you should always consider using the *Big Oracle* (aka, [Google](#), your best friend) to search for additional information or alternative ways for achieving similar results.

## 3.1 Document Structure

## 3.2 Dealing with Bibliography

Citing something online [4, 7, 9].

## 3.3 Inserting Tables

## 3.4 Importing Images

## 3.5 Floats, Figures and Captions

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet,

tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.



Figure 3.1: A figure with two sub-figures!

**And this is a small text that references the Figure 3.1 and its Subfigures 3.1(a) and 3.1(b).**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem

non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

## 3.6 Text Formatting

## 3.7 Generating PDFs from L<sup>A</sup>T<sub>E</sub>X

### 3.7.1 Generating PDFs with pdflatex

You may create PDF files either by using `latex` to generate a DVI file, and then use one of the many DVI-2-PDF converters, such as `dvipdfm`.

Alternatively, you may use `pdflatex`, which will immediately generate a PDF with no intermediate DVI or PS files. In some systems, such as Apple, PDF is already the default format for L<sup>A</sup>T<sub>E</sub>X. I strongly recommend you to use this approach, unless you have a very good argument to go for `latex + dvipdfm`.

A typical pass for a document with figures, cross-references and a bibliography would be:

```
$ pdflatex template
$ bibtex template
$ pdflatex template
$ pdflatex template
```

You will notice that there is a new PDF file in the working directory called `template.pdf`. Simple :)

Please note that, to be sure all table of contents, cross-references and bibliographic citations are up-to-date, you must run `latex` once, then `bibtex`, and then `latex` twice.

### 3.7.2 Dealing with Images

You may process the same source files with both `latex` or `pdflatex`. But, if your text include images, you must be careful. `latex` and `pdflatex` accept images in different (exclusive) formats. For `latex` you may use EPS ou PS figures. For `pdflatex` you may use JPG, PNG or PDF figures. I strongly recommend you to use PDF figures in vectorial format (do not use bitmap images unless you have no other choice).

### 3.7.3 Dealing with Citations

Para fazer citações, deverá usar-se a chave da referência no ficheiro BibTeX. Se for uma única referência [2], usar um “~” para ligar o `\cite{...}` à palavra que o precede (...referência~`\cite{Artho04}`). Caso queira fazer múltiplas citações [13, 14, 6], deverá agrupá-las dentro de um único `\cite{...}`.

Note que o ficheiro de bibliografia pode ter tantas entradas quantas quiser. Apenas aquelas cuja chave seja referenciada no texto é que serão incluídas na listagem de bibliografia.

### 3.7.4 Footnotes

Footnotes<sup>1</sup> will be numbered and shown in the bottom of the page.

### 3.7.5 Tables

The Table 3.1 illustrates some important concepts associated with table construction:

- i) Do not use vertical lines;
- ii) The caption should be above the table;
- iii) Use the macros `\toprule`, `\midrule` and `\bottomrule` to make the top, inner and bottom horizontal lines, respectively.

Table 3.1: Test results summary.

Test	Anomalies	Warnings	Correct	Categories	Missed
Connection [3]	2	2	1	C	1
Coordinates'03 [1]	1	4	1	2B, 1C	0
Local Variable [1]	1	2	1	A	0
NASA [1]	1	1	1	—	0
Coordinates'04 [2]	1	4	1	3C	0
Buffer [2]	0	7	0	2A, 1B, 2C, 2D	0
Double-Check [2]	0	2	0	1A, 1B	0
StringBuffer [8]	1	0	0	—	1
Account [17]	1	1	1	—	0

---

<sup>1</sup>This is a simple footnote.

Jigsaw [17]	1	2	1	C	0
Over-reporting [17]	0	2	0	1A, 1C	0
Under-reporting [17]	1	1	1	—	0
Allocate Vector [10]	1	2	1	C	0
Knight Moves [3]	1	3	1	2B	0
Total	12	33	10	5A, 6B, 10C, 2D	2

### 3.7.6 Figures

The images inserted in the document must be of good quality, preferably in vector format (vector PDF) and not in *bitmap* (PNG, JPG, etc.). *bitmap* images (Figure 3.2) do not scale well and have negative effects on the quality of your document. On the other hand, *vector* images Figure 3.3 scale as much as necessary without degrading the quality of the image.

You should only use *screenshots* for your plots, charts, etc, if you absolutely have no other alternative. Instead of generating a *screenshot*, try using a virtual PDF printer and printing to a PDF file. As a general rule, you will get a vector PDF. Even if your PDF contains images, they will always be of higher or equal quality than what you would get with a *screenshot*.

To combine several figures into a single one... You can then reference the set as Figure 3.4 or the sub-figures separately as 3.4(a) and 3.4(b).

## 3.8 Equations

LaTeX is a powerful tool for writing in a mathematical style. It allows you to insert formulas into the text, such as this:  $ax^2 + bx + c = 0$ . It also allows formulas to be highlighted on a separate line and centered on the page.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

or numbered

$$e = mc^2 \tag{3.1}$$

which latter be referenced as equation 3.1

## 3.9 Test for listings

Testing the package “listings”...

Listing 3.1: cap

```
if (a==b)
  puts("YESS!")
```



Figure 3.2: Bitmap image (JPG/PNG)



Figure 3.3: Vectorial image (PDF)



(a) Novelo de lã



(b) Tempestade com neve

Figure 3.4: Exemplo de utilização de *subbottom*

### 3.10 Test for algorithms

Uncomment the algorithms source below and add the following to file “5\_packages.tex”

```
\usepackage{algorithm2e}  
\RestyleAlgo{ruled}
```

and uncomment

```
\ntaddlistof{listofalgorithms}
```

in file “8\_list\_og.tex”.

## ADDING SUPPORT TO A NEW SCHOOL (WORK IN PROGRESS)

My advice to customize the `novathesis` template to another School/University/Department/Degree is to browse the existing supported degrees to find one that is *close enough*, and depart from there!

The multitude of layouts supported by the `novathesis` template is based in a three-tier naming scheme, separated by slashes: University / School / Department-or-Degree. This three-tier naming scheme is also reflected in a three-tier directory (folder) structure in: `<project_root>a/NOVAthesisFiles/Schools/....`. For example:

```
...
|
+-- nova
|   +-- Images
|   +-- fct
|   |   \-- Images
|   +-- ims
|   |   \-- Images
|
|   ...
|
\-- uminho
    +-- Images
    +-- ea
    |   \-- Images
    +-- ec
    |   \-- Images
...

```

The directory `uminho` contains the customization for all Schools of Universidade do Minho. This university is an example of the case where the regulations are defined at University level and all the schools apply the same thesis layout and organization. So,

the all the customization is done in the file `uminho/uminho-defaults.1df`, except the definition of the name and logo of each individual school.

As another example, the directory `nova` contains the customization for all Schools from NOVA University Lisbon. This university grants a lot of freedom in the definition of the thesis layouts. In some cases, they are defined at the School level (e.g., NOVA FCT), while in some other cases they are defined separately for each degree (e.g., NOVA IMS).

1. Try all the already supported schools and check which one is closer to your needs;
  - a) Edit `Config/1_novathesis.tex` and near line 28 uncomment the line with key  
`\ntsetup{school=<SOMETHING>};`
  - b) For each school supported (see the comment), replace `<SOMETHING>` with the school name, e.g., make it `\ntsetup{school=ulisboa/fmv}`
  - c) Recompile and check the document. Particularly, check the cover layout, the front-page (second cover) layout, the front-matter contents, the bibliography style;
  - d) Repeat for the next school, until you find one close enough.
- 2.

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# A

## NOVATHESIS COVERS SHOWCASE

This Appendix shows examples of covers for some of the supported Schools. When the Schools have very similar covers (e.g., all the schools from Universidade do Minho), just one cover is shown. If the covers for MSc dissertations and PhD thesis are considerable different (e.g., for NOVA FCT and UMinho), then both are shown.

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Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

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Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi.

Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetur.

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

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Morbi luctus, wisi viverra faucibus pretium, nibh est placerat odio, nec commodo wisi enim eget quam. Quisque libero justo, consectetur a, feugiat vitae, porttitor eu, libero. Suspendisse sed mauris vitae elit sollicitudin malesuada. Maecenas ultricies eros sit amet ante. Ut venenatis velit. Maecenas sed mi eget dui varius euismod. Phasellus aliquet volutpat odio. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Pellentesque sit amet pede ac sem eleifend consectetur. Nullam elementum, urna vel imperdiet sodales, elit ipsum pharetra ligula, ac pretium ante justo a nulla. Curabitur tristique arcu eu metus. Vestibulum lectus. Proin mauris. Proin eu nunc eu urna hendrerit faucibus. Aliquam auctor, pede consequat laoreet varius, eros tellus scelerisque quam, pellentesque hendrerit ipsum dolor sed augue. Nulla nec lacus.

Suspendisse vitae elit. Aliquam arcu neque, ornare in, ullamcorper quis, commodo eu, libero. Fusce sagittis erat at erat tristique mollis. Maecenas sapien libero, molestie et, lobortis in, sodales eget, dui. Morbi ultrices rutrum lorem. Nam elementum ullamcorper leo. Morbi dui. Aliquam sagittis. Nunc placerat. Pellentesque tristique sodales est.

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Sed feugiat. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Ut pellentesque augue sed urna. Vestibulum diam eros, fringilla et, consectetur eu, nonummy id, sapien. Nullam at lectus. In sagittis ultrices mauris. Curabitur malesuada erat sit amet massa. Fusce blandit. Aliquam erat volutpat. Aliquam euismod. Aenean vel lectus. Nunc imperdiet justo nec dolor.

Etiam euismod. Fusce facilisis lacinia dui. Suspendisse potenti. In mi erat, cursus id, nonummy sed, ullamcorper eget, sapien. Praesent pretium, magna in eleifend egestas, pede pede pretium lorem, quis consectetur tortor sapien facilisis magna. Mauris quis magna varius nulla scelerisque imperdiet. Aliquam non quam. Aliquam porttitor quam a lacus. Praesent vel arcu ut tortor cursus volutpat. In vitae pede quis diam bibendum placerat. Fusce elementum convallis neque. Sed dolor orci, scelerisque ac, dapibus nec, ultricies ut, mi. Duis nec dui quis leo sagittis commodo.

Aliquam lectus. Vivamus leo. Quisque ornare tellus ullamcorper nulla. Mauris porttitor pharetra tortor. Sed fringilla justo sed mauris. Mauris tellus. Sed non leo. Nullam elementum, magna in cursus sodales, augue est scelerisque sapien, venenatis congue nulla arcu et pede. Ut suscipit enim vel sapien. Donec congue. Maecenas urna mi, suscipit in, placerat ut, vestibulum ut, massa. Fusce ultrices nulla et nisl.

Etiam ac leo a risus tristique nonummy. Donec dignissim tincidunt nulla. Vestibulum rhoncus molestie odio. Sed lobortis, justo et pretium lobortis, mauris turpis condimentum augue, nec ultricies nibh arcu pretium enim. Nunc purus neque, placerat id, imperdiet sed, pellentesque nec, nisl. Vestibulum imperdiet neque non sem accumsan laoreet. In hac habitasse platea dictumst. Etiam condimentum facilisis libero. Suspendisse in elit quis nisl aliquam dapibus. Pellentesque auctor sapien. Sed egestas sapien nec lectus. Pellentesque vel dui vel neque bibendum viverra. Aliquam porttitor nisl nec pede. Proin mattis libero vel turpis. Donec rutrum mauris et libero. Proin euismod porta felis. Nam lobortis, metus quis elementum commodo, nunc lectus elementum mauris, eget vulputate ligula tellus eu neque. Vivamus eu dolor.

Nulla in ipsum. Praesent eros nulla, congue vitae, euismod ut, commodo a, wisi. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Aenean nonummy magna non leo. Sed felis erat, ullamcorper in, dictum non, ultricies ut, lectus. Proin vel arcu a odio lobortis euismod. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Proin ut est. Aliquam odio. Pellentesque massa turpis, cursus eu, euismod nec, tempor congue, nulla. Duis viverra gravida mauris. Cras tincidunt. Curabitur eros ligula, varius ut, pulvinar in, cursus faucibus, augue.

Nulla mattis luctus nulla. Duis commodo velit at leo. Aliquam vulputate magna et leo. Nam vestibulum ullamcorper leo. Vestibulum condimentum rutrum mauris. Donec id mauris. Morbi molestie justo et pede. Vivamus eget turpis sed nisl cursus tempor. Curabitur mollis sapien condimentum nunc. In wisi nisl, malesuada at, dignissim sit

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Curabitur tellus magna, porttitor a, commodo a, commodo in, tortor. Donec interdum. Praesent scelerisque. Maecenas posuere sodales odio. Vivamus metus lacus, varius quis, imperdiet quis, rhoncus a, turpis. Etiam ligula arcu, elementum a, venenatis quis, sollicitudin sed, metus. Donec nunc pede, tincidunt in, venenatis vitae, faucibus vel, nibh. Pellentesque wisi. Nullam malesuada. Morbi ut tellus ut pede tincidunt porta. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam congue neque id dolor.

Donec et nisl at wisi luctus bibendum. Nam interdum tellus ac libero. Sed sem justo, laoreet vitae, fringilla at, adipiscing ut, nibh. Maecenas non sem quis tortor eleifend fermentum. Etiam id tortor ac mauris porta vulputate. Integer porta neque vitae massa. Maecenas tempus libero a libero posuere dictum. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Aenean quis mauris sed elit commodo placerat. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Vivamus rhoncus tincidunt libero. Etiam elementum pretium justo. Vivamus est. Morbi a tellus eget pede tristique commodo. Nulla nisl. Vestibulum sed nisl eu sapien cursus rutrum.

Nulla non mauris vitae wisi posuere convallis. Sed eu nulla nec eros scelerisque pharetra. Nullam varius. Etiam dignissim elementum metus. Vestibulum faucibus, metus sit amet mattis rhoncus, sapien dui laoreet odio, nec ultricies nibh augue a enim. Fusce in ligula. Quisque at magna et nulla commodo consequat. Proin accumsan imperdiet sem. Nunc porta. Donec feugiat mi at justo. Phasellus facilisis ipsum quis ante. In ac elit eget ipsum pharetra faucibus. Maecenas viverra nulla in massa.

Nulla ac nisl. Nullam urna nulla, ullamcorper in, interdum sit amet, gravida ut, risus. Aenean ac enim. In luctus. Phasellus eu quam vitae turpis viverra pellentesque. Duis feugiat felis ut enim. Phasellus pharetra, sem id porttitor sodales, magna nunc aliquet nibh, nec blandit nisl mauris at pede. Suspendisse risus risus, lobortis eget, semper at, imperdiet sit amet, quam. Quisque scelerisque dapibus nibh. Nam enim. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc ut metus. Ut metus justo, auctor at, ultrices eu, sagittis ut, purus. Aliquam aliquam.

# B

## APPENDIX 2 LOREM IPSUM

This is a test with citing something [5] in the appendix.

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  Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

  Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

  Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

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  Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis duí, et vehicula libero duí cursus duí. Mauris tempor ligula sed lacus. Duis cursus enim ut augue.

## APPENDIX B. APPENDIX 2 LOREM IPSUM

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Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetur.

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Donec odio elit, dictum in, hendrerit sit amet, egestas sed, leo. Praesent feugiat sapien aliquet odio. Integer vitae justo. Aliquam vestibulum fringilla lorem. Sed neque lectus, consectetur at, consectetur sed, eleifend ac, lectus. Nulla facilisi. Pellentesque eget lectus. Proin eu metus. Sed porttitor. In hac habitasse platea dictumst. Suspendisse eu lectus. Ut mi mi, lacinia sit amet, placerat et, mollis vitae, dui. Sed ante tellus, tristique ut, iaculis eu, malesuada ac, dui. Mauris nibh leo, facilisis non, adipiscing quis, ultrices a, dui.

Morbi luctus, wisi viverra faucibus pretium, nibh est placerat odio, nec commodo wisi enim eget quam. Quisque libero justo, consectetur a, feugiat vitae, porttitor eu, libero. Suspendisse sed mauris vitae elit sollicitudin malesuada. Maecenas ultricies eros sit amet ante. Ut venenatis velit. Maecenas sed mi eget dui varius euismod. Phasellus aliquet volutpat odio. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Pellentesque sit amet pede ac sem eleifend consectetur. Nullam elementum, urna vel imperdiet sodales, elit ipsum pharetra ligula, ac pretium ante justo a nulla. Curabitur tristique arcu eu metus. Vestibulum lectus. Proin mauris. Proin eu nunc eu urna hendrerit faucibus. Aliquam auctor, pede consequat laoreet varius, eros tellus scelerisque quam, pellentesque hendrerit ipsum dolor sed augue. Nulla nec lacus.

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  Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

  Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

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  Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque

egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetur.

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## ANNEX 1 LOREM IPSUM

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## APPENDIX I. ANNEX 1 LOREM IPSUM

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