



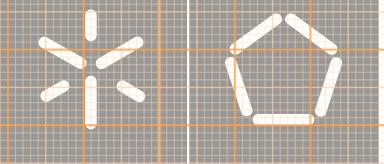
**Universidade do Minho**

Escola de Engenharia

John Very Longname Doe

**A Very Long and Impressive  
Thesis Title with a Forced Line Break**





**Universidade do Minho**

Escola de Engenharia

John Very Longname Doe

**A Very Long and Impressive  
Thesis Title with a Forced Line Break**

Master Thesis  
(MSc Program Name)  
(Speciality Name)

Word developed under the supervision of:

**Mary Doe Adviser Name**

**John Doe Co-Adviser Name**

**John Doe other Co-Adviser Name**

(month), (year)

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# 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.

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I further declare that I have fully acknowledged the Code of Ethical Conduct of the Universidade do Minho.

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(Place) \_\_\_\_\_, \_\_\_\_\_ (Date)

---

(John Very Longname Doe)

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

# Resumo

## Um Título de Tese Longo e com uma Mudança de Linha Forçada

Independentemente da língua em que a dissertação esteja redigida, é necessário um resumo na mesma língua do texto principal e outro resumo noutra língua. Pressupõe-se que as duas línguas em questão sejam o português e o inglês.

Os resumos devem aparecer primeiro na língua do texto principal e depois na outra língua. Por exemplo, se a dissertação for redigida em português, o resumo em português aparecerá primeiro, seguido do resumo em inglês (*abstract*), seguido do texto principal em português. Se a dissertação for redigida em inglês, o resumo em inglês (*abstract*) aparecerá primeiro, seguido do resumo em português, seguido do texto principal em inglês.

Na versão L<sup>A</sup>T<sub>E</sub>X o template NOVAthesis irá ordenar automaticamente os dois resumos tendo em consideração a língua do texto principal. É possível alterar este comportamento adicionando

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

à zona de customização no preâmbulo do documento, e.g.,

```
\abstractorder(de):={de,en,it}
```

Os resumos não devem ultrapassar uma página e, de forma genérica, devem responder às seguintes questões (é essencial adaptá-los 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:** Palavra-chave 1, Palavra-chave 2, Palavra-chave 3, ...

# Abstract

## A Very Long and Impressive Thesis Title with a Forced Line Break

Regardless of the language in which the dissertation is written, a summary is required in the same language as the main text and another summary in another language. It is assumed that the two languages in question are Portuguese and English.

The abstracts should appear first in the language of the main text and then in the other language. For example, if the dissertation is written in Portuguese the abstract in Portuguese will appear first, then the abstract in English, followed by the main text in Portuguese. If the dissertation is written in English, the abstract in English will appear first, then the abstract in Portuguese, followed by the main text in English.

In the  $\text{\LaTeX}$  version, the NOVAtesis template will automatically order the two abstracts taking into account the language of the main text. You may change this behaviour by adding

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

to the customization area in the document preamble, e.g.,

```
\abstractorder(de):={de,en,it}
```

The abstracts should not exceed one page and, in a generic way, should 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?
4. What results (implications/consequences) from the solution?

**Keywords:** Keyword 1, Keyword 2, Keyword 3, ...

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# Glossary

# Acronyms

**DI** Department of Computer Science and Informatics [1](#)

**FCT** NOVA School of Science and Technology [1](#)

**NOVA** NOVA University Lisbon [1](#)

**NOVAtesis** NOVAtesis LaTeX template [1](#), [5](#), [6](#), [7](#)

# Symbols



# Introduction

*This work is licensed under the [\TeX Project Public License v1.3c](#). To view a copy of this license, visit [LaTeXprojectpubliclicense](#).*

This is the NOVAthesis \TeX template version v6.3.1 from 2021-04-16.

## 1.1 If You Use this Template...

This Chapter presents an introduction to the template and how it is organized. In the next chapter you can find some specific instructions. Please read the next sections carefully.

Someone spent a few dozens of hours working on this template to make your life easier and to allow you to be more productive. Those working hours were not paid and were “stolen” from family. If you use this template, please go to the [project web page in GitHub](#) and:

1. Cite it [1] in your thesis/dissertation with “\cite{novatheresis-manual}”, any place you think it makes sense. If you cite it this way, the correct entry will be added automatically to your bibliography (there no need to add it to your BibTeX file);
2. Give the project a star (marked with a red ellipse at the top-right in Figure 1); and
3. Make a small donation (marked with a red ellipse at the bottom-left in Figure 1).

## 1.2 The NOVAthesis template

The NOVAthesis LaTeX template (NOVAthesis) was initially directed to the PhD and MSc students thesis at Department of Computer Science and Informatics (DI) of the NOVA School of Science and Technology (FCT) of the NOVA University Lisbon (NOVA), Portugal, but currently it supports other Universities and Schools, namely:

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**NOVA University Lisbon**

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## CHAPTER 1. INTRODUCTION

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NOVA School of Science and Technology [PhD] ([FCT-NOVA](#))



NOVA School of Science and Technology [MSc] ([FCT-NOVA](#))



NOVA School of Social Sciences and Humanities ([FCSH-NOVA](#))



NOVA Information Management School ([NOVA-IMS](#))



National School of Public Health ([ENSP-NOVA](#))

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## University of Lisbon

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Instituto Superior Técnico ([IST-UL](#))



Faculdade de Ciências [PhD] ([FCUL](#))



Faculdade de Ciências [MSc] ([FCUL](#))

## University of Minho



Escola de Arquitetura ([EA-UM](#))



Escola de Ciências ([EC-UM](#))



Escola de Direito ([ED-UM](#))



Escola de Economia e Gestão ([EEG-UM](#))



Escola de Engenharia ([EE-UM](#))



Escola de Medicina ([EM-UM](#))



Escola de Psicologia ([EP-UM](#))



Escola Superior de Enfermagem ([ESE-UM](#))



Instituto de Ciências Sociais ([ICS-UM](#))



Instituto de Educação ([IE-UM](#))



Instituto de Letras e Ciências Humanas ([ILCH-UM](#))



Instituto de Investigação em Biomateriais, Biodegradáveis e Biomiméticos ([I3B-UM](#))

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## ISCTE — Instituto Universitário de Lisboa

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Escola de Tecnologias e Arquitectura ([ETA-ISCTE-IUL](#))

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## Instituto Politécnico de Lisboa

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Instituto Superior de Engenharia de Lisboa ([ISEL-IPL](#))

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## Instituto Politécnico de Setúbal

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Escola Superior de Tecnologia de Setúbal ([ISEL-IPL](#))

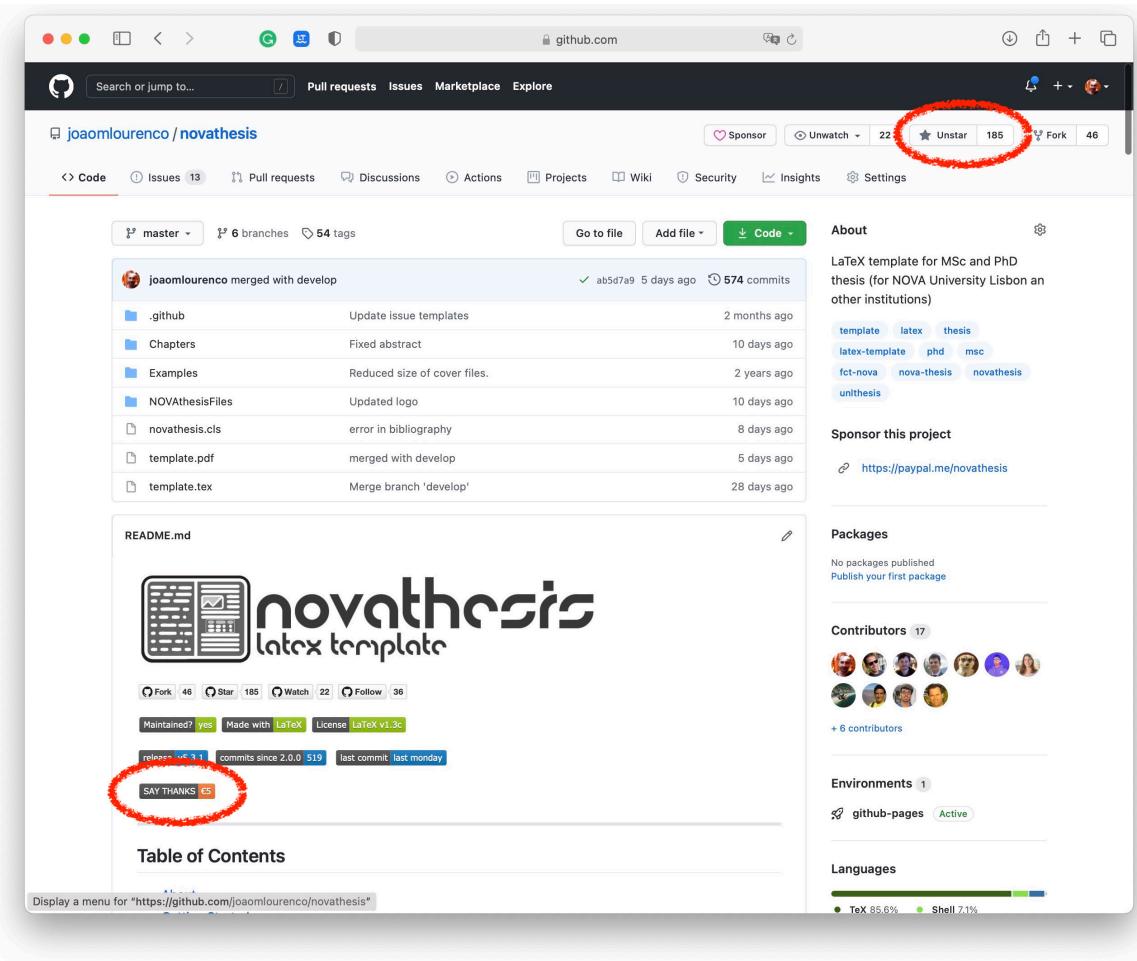


Figure 1: The NOVAthesis project web page in GitHub.

## Other Universities/Schools/Degrees



Escola Superior de Enfermagem do Porto (ESEP)



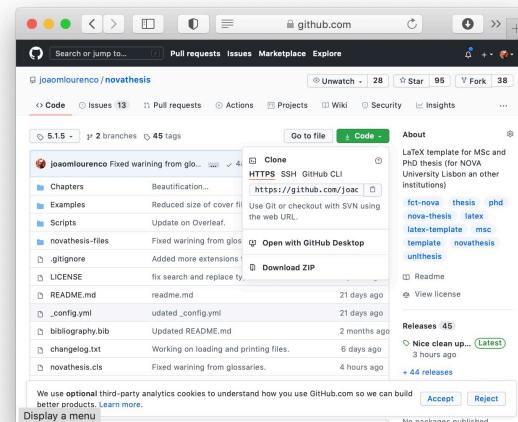
Masters Program in Geospatial Technologies (GT)

## 1.3 Getting Started

The template provides an *easy to use* setting for you to write your thesis/dissertation in  $\text{\LaTeX}$ :

- Select your school;
- Fill your thesis metadata (title, research field, etc) in the file “`template.tex`”;

Just access the NOVAthesis LaTeX template 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 v5.1.8).



## 1.4 Getting Help

**Please do not send me emails! I will not answer them!**

### 1.4.1 Google

Remember, when looking for hints or help, [Google](#) is your best friend! And if you prefix your Google query with “*LaTeX*”, your first link will most probably direct you to [tex.stackexchange.com](#).

### 1.4.2 Group Support

To get directed help on the NOVAthesis LaTeX template please join:

- the [NOVAthesis Facebook group](#), or
- the [NOVAthesis Google group](#).

There were huge changes from version 4.x.y to version 5.a.b so, please, **always** state the version number you are using when asking for help.

### 1.4.3 Reporting Problems

If you just need some help, see above Subsection 1.4.1 and Subsection 1.4.2.

If you believe you found a bug or if you need some improvement in the template, please [fill an issue](#) in [github](#) at <https://github.com/joaomlourenco/novathesis/issues>.

## 1.5 Donations

This template is the result of hundreds (yes! *may hundreds!*) of hours of work from the [main developer](#). If you think this template really made your life easier while writing your thesis, please consider [making a donation](#). We will keep a list thanking all the identified donors that identify themselves in the “Add special instructions to the seller” box.

### Donors 2020

João Carvalho, David Romão, DisplayersereStream, and António Estêvão.

## **Donors 2019**

Jorge Barreto and Raissa Almeida.

## **1.6 Disclaimer**

Although this template is endorsed by the FCT-NOVA and even [linked from its web site](#), this is still not an official template. This template exists to make your life easier and we do our best to make the [NOVAtesis](#) template compliant to the supported 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.

## Bibliography

- [1] 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/novathesis/raw/master/template.pdf> (cit. on p. 1).



