

# $\text{\LaTeX}$ thesis template

April 4, 2012

First referee: **Prof. Dr. First Referee**  
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# Preface

## Introduction

This is the  $\text{\LaTeX}$  template for my master thesis this year. I will fill it with blindtexts and explanatory comments so that it is reusable for everyone. It will hopefully compile warningless in the end. The following software is needed to get it to compile:

- LaTeX (should be somewhat newer than 2009)
- biber
- all the packages found in *preamble/packages.tex*
- Latexmk for compilation (this is actually not needed, but recommended. This template comes with a .latexmkrc file to handle the compilation)

I will try to use as many text elements in the blind texts as possible, like inline equations, multiline equations, figures, multiple figures and so on. Whenever I encounter a new situation while writing on the actual thesis, I will add the stuff to this template as well. The source code will be available on github always. You are not only allowed but encouraged to fork the project and add useful stuff to it. I might then integrate it in the actual template, if I find it useful. The following text will be blindtexts only. If anybody is interested in the actual thesis, feel free to contact me and I can send you a copy of the PDF. However, it will not be finished before October this year.

Have fun with it!

Jan Oliver Oelerich

## Acknowledgement

Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. Separated they live in Bookmarksgrove right at the coast of the Semantics, a large language ocean. A small

river named Duden flows by their place and supplies it with the necessary regalia. It is a paradisiatic country, in which roasted parts of sentences fly into your mouth. Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar. The Big Oxmox advised her not to do so, because there were thousands of bad Commas, wild Question Marks and devious Semikoli, but the Little Blind Text didn't listen. She packed her seven versalia, put her initial into the belt and made herself on the way. When she reached the first hills of the Italic Mountains, she had a last view back on the skyline of her hometown Bookmarksgrove, the headline of Alphabet Village and the subline of her own road, the Line Lane. Pityful a rethoric question ran over her cheek, then

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## 1.1 I am a section. Cool, eh?

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Italic Mountains, she had a last view back on the skyline of her hometown Bookmarksgrove, the headline of Alphabet Village and the subline of her own road, the Line Lane. Pityful a rethoric question ran over her cheek, then she continued her way. On her way she met a copy.

The copy warned the Little Blind Text, that where it came from it would have been rewritten a thousand times and everything that was left from its origin would be the word "and" and the Little Blind Text should turn around and return to its own, safe country. But nothing the copy said could convince her and so it didn't take long until a few insidious Copy Writers ambushed her, made her drunk with Longe and Parole and dragged her into their agency, where they abused her for their projects again and again. And if she hasn't been rewritten, then they are still using her. Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. Separated they live in Bookmarksgrove right at the coast of the Semantics, a large language ocean. A small river named Duden flows by their place and supplies it with the necessary regalia. It is a paradisiatic country, in which roasted parts of sentences fly into your mouth. Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One

## 1.2 And even more...

Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. Separated they live in Bookmarksgrove right at the coast of the Semantics, a large language ocean. A small river named Duden flows by their place and supplies it with the necessary regalia. It is a paradisiatic country, in which roasted parts of sentences fly into your mouth. Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar.

### 1.2.1 ... nesting

The Big Oxmox advised her not to do so, because there were thousands of bad Commas, wild Question Marks and devious Semikoli, but the Little Blind Text didn't listen. She packed her seven versalia, put her initial into the belt and made herself on the way. When she reached the first hills of the Italic



Mountains, she had a last view back on the skyline of her hometown Bookmarksgrove, the headline of Alphabet Village and the subline of her own road, the Line Lane. Pityful a rethoric question ran over her cheek, then she continued her way. On her way she met a copy.

### 1.2.2 Read me, too!

The copy warned the Little Blind Text, that where it came from it would have been rewritten a thousand times and everything that was left from its origin would be the word "and" and the Little Blind Text should turn around and return to its own, safe country. But nothing the copy said could convince her and so it didn't take long until a few insidious Copy Writers ambushed her, made her drunk with Longe and Parole and dragged her into their agency, where they abused her for their projects again and again. And if she hasn't been rewritten, then they are still using her. Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. Separated they live in Bookmarksgrove right at the coast of the Semantics, a large language ocean. A small river named Duden flows by their place and supplies it with the necessary regelialia. It is a paradisematic country, in which roasted parts of sentences fly into your mouth. Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One

## 1.3 *Outro*

Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. Separated they live in Bookmarksgrove right at the coast of the Semantics, a large language ocean. A small river named Duden flows by their place and supplies it with the necessary regelialia. It is a paradisematic country, in which roasted parts of sentences fly into your mouth. Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar. The Big Oxmox advised her not to do so, because there were thousands of bad Commas, wild Question Marks and devious Semikoli, but the Little Blind Text didn't listen. She packed her seven versalia, put her initial into the belt and made herself on the way. When she reached the first hills of the Italic Mountains, she had a last view back on the skyline of her hometown

1 *Only text here*

Bookmarksgrove, the headline of Alphabet Village and the subline of her own road, the Line Lane. Pityful a rethoric question ran over her cheek, then

In this chapter, some textual elements are shown, like figures, tables, lists, equations, etc. Also, bananas. At this point, to try it out, I will cite [2] different articles [1–3], as can be read in Ref. [3].

## 2.1 Math

Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. Separated they live in Bookmarksgrove right at the coast of the Semantics, a large language ocean. A small river named Duden flows by their place and supplies it with the necessary regelialia. It is a paradisematic country, in which roasted parts of sentences fly into your mouth. Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar.

$$g(\varepsilon) = \frac{N}{\sqrt{2\pi}\sigma} \exp\left(-\frac{\varepsilon^2}{2\sigma^2}\right) \exp\left[-\frac{\varepsilon^2}{2\sigma^2}\right] \exp\left\{-\frac{\varepsilon^2}{2\sigma^2}\right\} \quad (2.1)$$

Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. Separated they live in Bookmarksgrove right at the coast of the Semantics, a large language ocean. A small river named Duden flows by their place and supplies it with the necessary regelialia. It is a paradisematic country, in which roasted parts of sentences fly into your mouth. Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar.

$$\sum_{n=a}^b x_n = \int_0^{2\pi} r \cdot \cos(\theta) d\theta \quad (2.2)$$

## 2.2 Units

Let us try out *siunitx*:

12 345.678 90

$1 \pm 2i$

$0.3 \times 10^{45}$

$1.654 \times 2.34 \times 3.430$

$\text{kg m s}^{-1}$

$\text{kg m s}^{-1}$

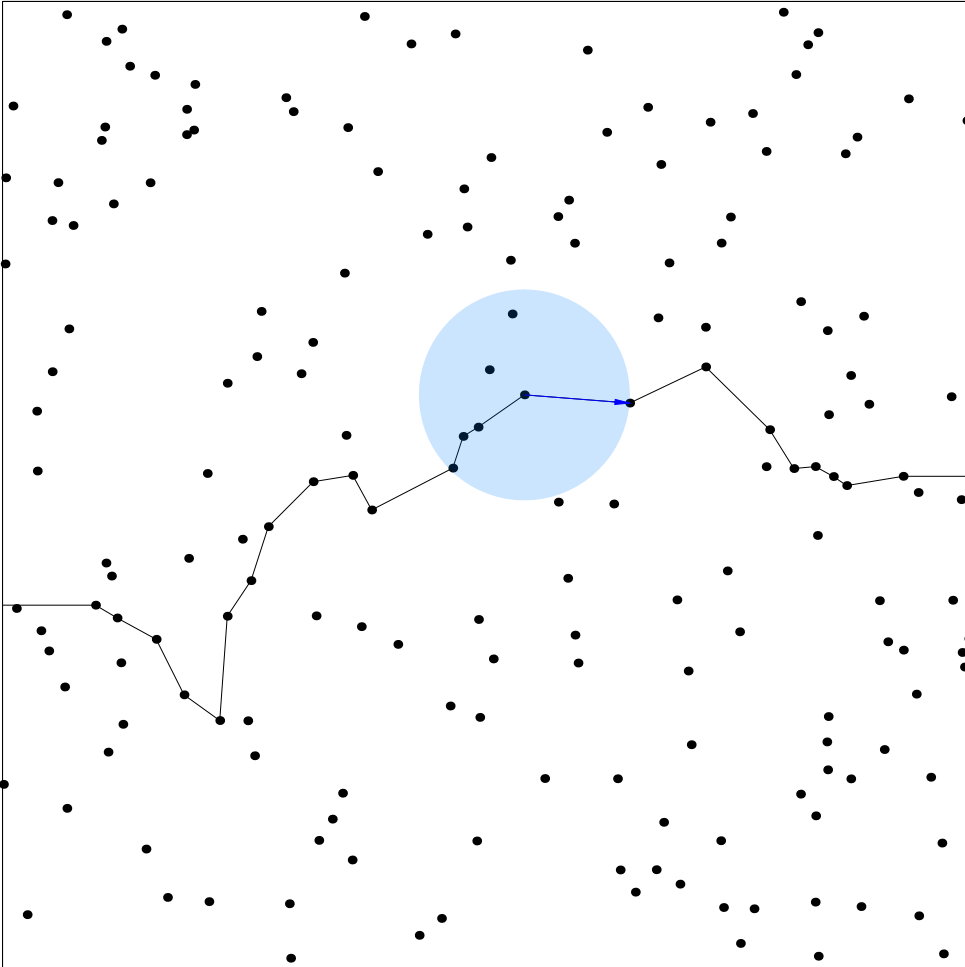
$\text{kg m/s}$

$\text{kg m/(A s)}$

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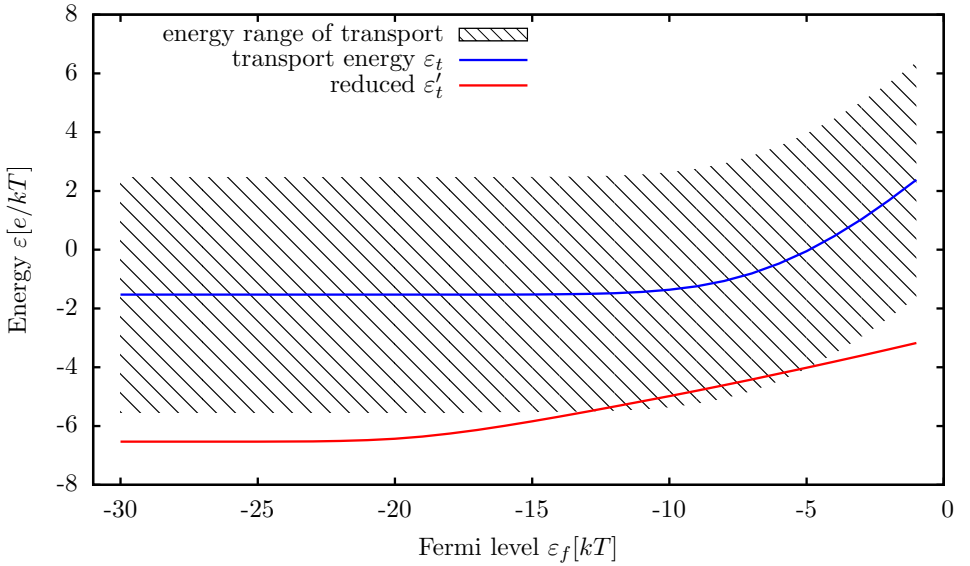
## 2.3 Figures

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**Figure 2.1** I am a caption with  $a = b$  math!

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**Figure 2.2** I am a much longer caption. This is because my father used to eat a lot of spinage and became rather tall and my mother was a giant. Also, there is  $\sum_{n=a}^b a_n$  math.

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- [2] L. Li, G. Meller, and H. Kosina. "Einstein relation in hopping transport of organic semiconductors". In: *Journal of Applied Physics* 106.1 (2009), p. 013714.
- [3] Robert Allan Smith. *Semiconductors*. Cambridge: University Press, 1963.





## I am an appendix!

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