

Thesis in a hurry

(Hacking for learning)



S. Parthasarathy

Thesis in a hurry TIAH

(Learning by hacking)
(Version 201710c)

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This is a dummy thesis, designed to demonstrate how to write your thesis using L^AT_EX . Please read the Synopsis, for details.

University of Nowhere

DOCTORAL THESIS

Lorem ipsum dolor sit amet

Submitted by

Julius Caesar

*A thesis submitted in partial fulfilment of the requirements for
the degree of Doctor of Philosophy in the*

Research Group Name

Department or School Name

March 1921

Dedicated to my
dear grandpa Donald and dear grandma Mickey
and to my pals Tom and Jerry

Acknowledgements

I am grateful to my Supervisor, Prof., who lead me through this research experience.

I also thank my team mates Tom, Dick and Harry who played the role of cheer leaders and gave me the moral support to run and complete this race.

.....

Date: _____

Julius Caesar
Author

University of Nowhere

School of Engineering

Endorsement

This thesis, titled:

Lorem ipsum dolor sit amet

is a record of the research work done by Julius Caesar, under our supervision and in this University.

Date: _____

Prof. Jean DURAND
Research Supervisor

Prof. Jaques DUPONT
Head of the School of Engineering

University of Nowhere

School of Engineering

Declaration by the author

I, Julius Caesar,
declare that this thesis titled
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and the work presented in it are my own.

I confirm that:

- This work was done wholly or mainly by me, while in candidature for a research degree at this University.
- Where any part of this thesis has previously been submitted for a degree or any other qualification at this University or any other institution, this has been clearly stated.
- Where I have consulted the published work of others, this is always clearly attributed.
- Where I have quoted from the work of others, the source is always given. With the exception of such quotations, this thesis is entirely my own work.
- I have acknowledged all main sources of help. Where the thesis is based on work done by myself jointly with others, I have made clear exactly what was done by others and what I have contributed myself.

Date: _____

Julius Caesar
Author

University of Nowhere

DOCTORAL THESIS

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Synopsis

This document is a dummy thesis, built to help you in preparing your thesis using \LaTeX .

You have almost reached the end of your research work. The next step you have to complete is going to be the toughest part of your research activity. You have to tell the world all about your research and discoveries, in a serious document called “the thesis”. You want to use \LaTeX , to present your thesis. You are in a hurry and would like some help, to do this part. This TIAH is precisely for people like you.

\LaTeX is a sophisticated and a complex tool. It takes time to start using it effectively. This document will make it easy for you to tame the beast called \LaTeX . Since this document contains almost all the structures and commands needed for writing a thesis, a basic familiarity with \LaTeX would be enough. You may however feel comfortable if you have the books [3] and [1] handily available. You should also be comfortable with \LaTeX frontends (e.g. kile, TexMaker).

Learning by hacking : This document is based on the principle of “learning by hacking” which the author (me) strongly believes in. All the source material of this document is given to you in a zipped bundle. Just replace the existing material with the real one (your material). Presto ! your thesis is ready !

If you are a \LaTeX novice : This TIAH ebook is a sequel to another ebook, called the LLL ebook

<http://drpartha.org.in/profpartha/teachlatex.htm>.

If you are aware of \LaTeX but you are not very confident with \LaTeX you should read the LLL ebook mentioned above. Keep the LLL ebook handy when using this TIAH ebook for the first time. If you are not at all aware of LaTeX, you should start from the resources mentioned in

<http://drpartha.org.in/profpartha/startlatex.htm>.

Using \LaTeX for mathematics : If your proposed thesis is rich in mathematical expressions, you must see the book

<http://drpartha.org.in/profpartha/mathltx.htm>.

This document demonstrates the use of “divide and conquer” strategy. You can build a bulky thesis by writing and testing out one manageably small unit at a time. We use a chapter as the units in which this thesis is divided, but you can use any other lump as the unit. This feature will be greatly helpful when you want to check out, or ask someone to proof read your manuscript as it grows, one Chapter at a time.

We also assume that the necessary bibliographic references are already available as a BibTeX database. This document shows how to use references from more than one such database.

This is certainly not the first document on the subject of using \LaTeX to write a thesis. The tutorial by Nikola Talbot [8] is a good starting point. The article by Mori [5] is also a very informative overview of the subject. This document may be seen as a complement to the above two publications.

This ebook was prepared and tested using a Linux system. It will work best with Linux systems only. True to the spirit of FOSS, this ebook is distributed under a liberal license – Creative Commons licence :

<https://creativecommons.org/licenses/by-sa/4.0/legalcode> .

Caution : Your University or institution may have its own standards for writing your thesis. Please consult the appropriate department/person to get details of these standards.. You may have to modify the contents/structure of this template thesis, to conform to the standards of your University/Institution.. Your thesis Supervisor may be able to help you in this matter.

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Chapter 1

A dummy chapter

1.1 Preliminaries

This ebook will help you create your own thesis using \LaTeX . It explains the “divide and conquer” strategy for creating a thesis. It is based on the “learning by hacking” principle developed by the author.

This is a dummy chapter. You can put your own material here. Some filler material (in Latin !) follows.

1.1.1 Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam nibh. Nunc varius facilisis eros. Sed erat. In in velit quis arcu ornare laoreet. Curabitur adipiscing luctus massa. Integer ut purus ac augue commodo commodo. Nunc nec mi eu justo tempor consectetur.

1.1.2 Filler stuff

Some dummy text. Filler stuff esta mit justo avec courage.

Chapter 2

Divide and conquer

2.1 Preliminaries

This is a dummy chapter. You can put your own material here. Some filler material follows.

2.1.1 The divide and conquer strategy

Create a dummy envelope \LaTeX file which will act as your main thesis. The part between `\begin{document}` and `\end{document}` will be empty, to begin with.

You can build the rest of your thesis, one small chunk at a time. An obvious way to do this would be to create one chapter at a time. Each chapter will be made as a separate LaTeX file (without the Preamble part) and then added to the main thesis using an “include” command, after the `\begin{document}` of the envelope file you created. This will help you to debug the chapter for possible \LaTeX errors. You can also use this strategy to ask your colleagues/supervisor to proof-read that chapter. Add the chapters into the main thesis, using the “include” command, as you develop them. You can selectively comment or uncomment the include command, to compile any chapter or chapters selec-

tively.

You can see your thesis grow, as you add chapters one after the other !

2.1.2 Assembling the thesis

Every institution has its own certain practice of including certain material (front matter) before the main thesis material starts. For instance, one may have :

1. A title page giving the name of the author, the institution name and the thesis title.
2. A “dedicated to” page
3. An “Acknowledgments” page
4. Endorsement by the Supervisor(s)
5. Declaration by the author
6. Abstract/Synopsis of the thesis. This part is best written after you have written all the contents of your main thesis and you know the structure and contents of your thesis. But you will have to include it before the beginning of your main matter.

The main thesis itself usually consists of:

1. Table of contents
2. Main thesis body
3. Appenddices
4. Bibliography

5. Index

You can create the above components, as separate \LaTeX files and use `\include` in the envelope document, to place them at the right place and in the right sequence.

This current ebook is structured and presented in the above pattern. However, it is strongly advised that you consult your supervisor to know the standard practice of your institution before you start writing your thesis.

2.1.3 Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam nibh. Nunc varius facilisis eros. Sed erat. In in velit quis arcu ornare laoreet. Curabitur adipiscing luctus massa. Integer ut purus ac augue commodo commodo. Nunc nec mi eu justo tempor consectetur.

2.1.4 Example footnote

Some dummy text and some dummy footnotes for demonstration.

Etiam vitae nisl. ¹ In dignissim lacus ut ante. Cras elit lectus, bibendum a, adipiscing vitae, commodo et, dui. Ut tincidunt tortor. Donec nonummy, enim in lacinia pulvinar, velit tellus scelerisque augue, ac posuere libero urna eget neque. Cras ipsum. Vestibulum pretium, lectus nec venenatis volutpat, purus lectus ultrices risus, a condimentum risus mi et quam. ².

¹A small footnote

²Pellentesque auctor fringilla neque. Duis eu massa ut lorem iaculis vestibulum. Maecenas facilisis elit sed justo. Quisque volutpat malesuada velit

Chapter 3

Another dummy chapter

3.1 Preliminaries

This is yet another dummy chapter. You can put your own material here. You can add as many chapters as you want, after this, and before the Conclusions Chapter. Some filler material follows.

3.2 Viva Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam nibh. Nunc varius facilisis eros. Sed erat. In in velit quis arcu ornare laoreet. Curabitur adipiscing luctus massa. Integer ut purus ac augue commodo commodo. Nunc nec mi eu justo tempor consectetur. Etiam vitae nisl. In dignissim lacus ut ante. Cras elit lectus, bibendum a, adipiscing vitae, commodo et, dui. Ut tincidunt tortor. Donec nonummy, enim in lacinia pulvinar, velit tellus scelerisque augue, ac posuere libero urna eget neque. Cras ipsum. Vestibulum pretium, lectus nec venenatis volutpat, purus lectus ultrices risus, a condimentum risus mi et quam. Pellentesque auctor fringilla neque. Duis eu massa ut lorem iaculis vestibulum. Maecenas facilisis elit sed justo. Quisque volutpat malesuada velit.

This part of the thesis uses references from the cobra bibliographic database (cobra.bib). You must refer to the L^AT_EX book [3] by Lamport or the companion book by Goossens. There is also an excellent tutorial available on the w-w-web [4] The paper by Nicolas Markey [4] gives a very detailed review of the concepts behind L^AT_EX bibliographies.

Chapter 4

Indexing and Bibliography

4.1 Preliminaries

This is a dummy chapter. You can put your own material here. Some filler material in follows.

4.1.1 Indexing

An alphabetic index is a useful facility in a thesis. Here are some terms for the alphabetic index:

```
\index{Lorem ipsum} \index{trees} \index{trees!teak}.
```

Use the exclamation point ! for creating subterms for hierarchical indexing: `\index{trees!teak ! Indian}`

4.1.2 Bibliography handling

A bibliographic list is the most crucial part of your thesis. It gives a trace of the resources you consulted during your research, and provides the background of your research arguments. Ideally, you must start compiling the database of all literature you

have referred to for your research, as soon as you start your research. You can add entries to the database progressively, as you discover interesting references. You can then choose from this database, only the references you want to cite in your thesis. Use BIBTEX for creating your database. These references will be cited in the body of your thesis, and will be listed in the “Bibliography” section of your thesis according to the bibliography style `*bst` which you have chosen (usually imposed by your institution).

For an introduction to Bibtex, you must refer to the L^AT_EX book [3] by Lamport or the companion book by Goossens. There is also an excellent tutorial available on the w-w-web [4] The paper by Nicolas Markey [4] gives a very detailed review of the concepts behind L^AT_EX bibliographies.

This paper was made by the author using references in the zebra database (zebra.bib)

We use the `\nocite` command to include references which are cited nowhere in the main document.

4.1.3 Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam nibh. Nunc varius facilisis eros. Sed erat. In in velit quis arcu ornare laoreet. Curabitur adipiscing luctus massa. Integer ut purus ac augue commodo commodo. Nunc nec mi eu justo tempor consectetur.

4.1.4 Example footnote

Some dummy text. Filler stuff esta mit justo avec courage. It is the family, whose ancestors lived in a village called DUSI (see left side bottom corner of the map). This tiny village

is in Tamilnadu, in India, on the banks of Palar (River of Milk), not far (about 10 km) from the sacred town of Kancheepuram (or Kanchipuram), and is about 70 km from Madras (or Chennai), in Tamilnadu State, South India. If you have a sufficiently detailed map, you will find Dusi at the following latitude/longitude: 12 47' N and 79 40' E

Etiam vitae nisl. ¹ In dignissim lacus ut ante. Cras elit lectus, bibendum a, adipiscing vitae, commodo et, dui. Ut tincidunt tortor. Donec nonummy, enim in lacinia pulvinar, velit tellus scelerisque augue, ac posuere libero urna eget neque. Cras ipsum. Vestibulum pretium, lectus nec venenatis volutpat, purus lectus ultrices risus, a condimentum risus mi et quam. ².

¹A small footnote

²Pellentesque auctor fringilla neque. Duis eu massa ut lorem iaculis vestibulum. Maecenas facilisis elit sed justo. Quisque volutpat malesuada velit

Chapter 5

Conclusions and Wrapup

5.1 Institutional responsibilities

Although writing and defending a thesis is the candidate's responsibility, the parent institution should also facilitate this responsibility. Some major areas where the institution must contribute are listed below.

5.1.1 Set the standards

Each institution has its own standards for the layout of its theses. The institution should document and make these standards visible/usable by all.

- The institution should create a document to explain the expectations of the institution. It should indicate the major components of the thesis.
- It should also prepare an appropriate document class “*cls” for theses.
- It should create the bibliography style sheets “*bst”.
- It should create a package (or packages) containing all the special L^AT_EX macros, if any, needed to be used in the thesis.

- It should prepare templates for the documents to be included in the front matter.
- All the above documents must be made freely available to all concerned, preferably by hosting it on the w-w-web.

5.1.2 Promote usage of \LaTeX

In addition, the institution should actively promote and implement usage of \LaTeX . As a matter of policy, the institution should insist on usage of \LaTeX for all reports, research papers, internship projects, proposals etc. The institution should create a “helpdesk”, manned by competent volunteers. The helpdesk should be equipped with adequate literature, journals and books on \LaTeX . Frequent and regular refresher courses in \LaTeX should be conducted for initiating users.

5.2 Conclusions

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam nibh. Nunc varius facilisis eros. Sed erat. In in velit quis arcu ornare laoreet. Curabitur adipiscing luctus massa. Integer ut purus ac augue commodo commodo. Nunc nec mi eu justo tempor consectetur. Etiam vitae nisl. In dignissim lacus ut ante. Cras elit lectus, bibendum a, adipiscing vitae, commodo et, dui. Ut tincidunt tortor. Donec nonummy, enim in lacinia pulvinar, velit tellus scelerisque augue, ac posuere libero urna eget neque. Cras ipsum. Vestibulum pretium, lectus nec venenatis volutpat, purus lectus ultrices risus, a condimentum risus mi et quam. Pellentesque auctor fringilla neque. Duis eu massa ut lorem iaculis vestibulum. Maecenas facilisis elit sed justo. Quisque volutpat malesuada velit.

Your thesis ends here

5.3 Wrapup

This part is not part of your thesis.

5.3.1 Feedback

Send your feedback, suggestions, remarks etc. to drpartha@gmail.com
Honest and frank feedback is welcome, as long as it has a constructive motive.

Appendices

Baba Blacksheep

Baba blacksheep what are you doing here, in this thesis ?

Just a dummy Appendix text. Place real Appendix here.

Twinkle twinkle

Twinkle twinkle little star, why are you twinkling, in this thesis ?

Just a dummy Appendix text. Place real Appendix here.

Bibliography

- [1] M Goossens, F Mittelbach, and A Samarin. *The L^AT_EX companion*. Addison-Wesley, 1984.
- [2] D E Knuth. *The T_EXbook (Notice that this book is not cited anywhere in the body of the rendered version of the main document)*. Addison-Wesley, 1984.
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- [6] Onemadman. *Maths is a pain (Notice that this book is not cited anywhere in the body of the rendered version of the main document)*. Lunatics Inc., 2012.
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