

Freshness-aware Data Management in a Polystore system

Master thesis

Faculty of Science of the University of Basel
Department of Mathematics and Computer Science
Database and Information Systems Group
dbis.dmi.unibas.ch

Examiner: Prof. Dr. Heiko Schuldt Supervisor: Marco Vogt, MSc.

 ${\it Marc Hennemann}$ ${\it marc.hennemann@stud.unibas.ch}$ 19-067-586

Abstract

This thesis discusses the thesis template using some examples of the Turing Machine.

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Introduction

This is the introduction to the thesis template. The goal is to give students a starting point on how to format and style their Bachelor or Master thesis¹.

Please make sure to always use the most current version of this template, by downloading it always from the original git repository:

http://www.github.com/ivangiangreco/unibas-latex

We will use throughout this tutorial some references to Turing's imitation game [2] and the Turing machine [1]. You may be interested in reading these papers.

The package comes with an option regarding the bibliography style. You can include the package with

\usepackage[citeauthor]{basilea}

to be able to cite authors directly with

\citet{turing:1950}

If the option is enabled, then the following reference should print Turing [2]: Turing [2]

This document also shows how to use the template.

Body of the Thesis

This is the body of the thesis.

2.1 Structure

2.1.1 Sub-Section

2.1.1.1 Sub-Sub-Section

Paragraph

Even Sub-Paragraph This is the body text. Make sure that when you reference anything you use labels and references. When you refer to anything, you normally capitalise the type of object you reference to, e.g. Section 2.1 instead of section 2.1. You may also just use the cref command and it will generate the label, e.g., for Section 2.1, we did not specify the word "Section".

Hint: Try to structure your labels as it is done with sec:my-label and fig:machine, etc.

2.2 Equations

A Turing Machine is a 7-Tuple:

$$M = \langle Q, \Gamma, b, \Sigma, \delta, q_0, F \rangle \tag{2.1}$$

A Turing Machine is a 7-Tuple even if defined in the text, as in $M = \langle Q, \Gamma, b, \Sigma, \delta, q_0, F \rangle$.

2.3 Tables

Some tables can also be used as shown in Table 2.1^2 . Remember that tables might be positioned elsewhere in the document. You can force positioning by putting a ht! in the definition.

 $^{^2}$ Table captions are normally above the table.

Body of the Thesis 3

Table 2.1: Frequency of Paper Citations. By the way: Make sure to put the label always after the caption, otherwise LATEX might reference wrongly!

Title	f	Comments
The chemical basis of morphogenesis On computable numbers, with an application to the Computing machinery and intelligence	7327 6347 6130	Turing Machine

2.4 Figures

Figures are nice to show concepts visually. For organising well your thesis, put all figures in the Figures folder. Figure 2.1 shows how to insert an image into your document. Figure 2.2 references a figure with multiple sub-figures, whereas the sub-figures are referenced by Fig. 2.2(a), etc.

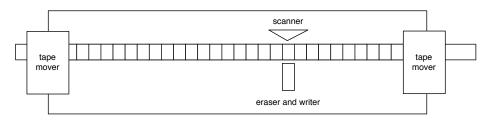
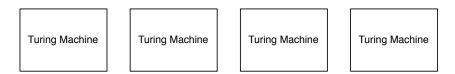


Figure 2.1: A Turing machine.



(a) Turing Machine 1 (b) Turing Machine 2 (c) Turing Machine 3 (d) Turing Machine 4

Figure 2.2: Plots of four Turing machines

2.5 Packages

These packages might be helpful for writing your thesis:

caption to adjust the look of your captions

glossaries for creating glossaries (also list of symbols)

makeidx for indexes and the back of your document

algorithm, algorithmicx, algorithms to your document

Missing: Description figure.

3 Conclusion

This is a short conclusion on the thesis template documentation. If you have any comments or suggestions for improving the template, if you find any bugs or problems, please contact me.

Good luck with your thesis!

Bibliography

- [1] Alan M Turing. On computable numbers, with an application to the entscheidungs problem. Proceedings of the London mathematical society, 42(2):230-265, 1936.
- [2] Alan M Turing. Computing machinery and intelligence. Mind, 59(236):433–460, 1950.

Appendix



Faculty of Science



Declaration on Scientific Integrity (including a Declaration on Plagiarism and Fraud) Translation from German original

Title of Thesis:					
Name Assesor:					
Name Student:					
Matriculation No.:					
acknowledged the assistance received i	bmission is my own work and that I have fully n completing this work and that it contains no owledged. I have mentioned all source materials with recognised scientific rules.				
Place, Date:	Student:				
Will this work be published?					
Yes. With my signature I confirm that I agree to a publication of the work (print/digital in the library, on the research database of the University of Basel and/or on the document server of the department. Likewise, I agree to the bibliographic reference in the catalog SLSP (Swiss Library Service Platform). (cross out as applicable)					
Publication as of:					
Place, Date:	Student:				
Place, Date:	Assessor:				

Please enclose a completed and signed copy of this declaration in your Bachelor's or Master's thesis .