



Creating a Typst template

TX000

for the

Bachelor of Science

from the Course of Studies Computer Science

by

Your name

10.10.1984

Time Period

Student ID, Course

Company

Supervisor in the Company

01.01.2023 - 00.00.2024

change-me, TINF2XA

Hewlett Packard Enterprise

Someone

Confidentiality Clause

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Abstract

This is quite abstract...

Author's Declaration

Hereby I solemnly declare:

1. that this TX000, titled *Creating a Typst template* is entirely the product of my own scholarly work, unless otherwise indicated in the text or references, or acknowledged below;
2. I have indicated the thoughts adopted directly or indirectly from other sources at the appropriate places within the document;
3. this TX000 has not been submitted either in whole or part, for a degree at this or any other university or institution;
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Stuttgart, 10.10.1984

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Contents

Abstract	II
List of Figures	V
Acronyms	VI
1 Introduction	1
1.1 Bibliography	1
1.2 Proposed Structure	2
1.3 Acronyms	2
1.4 TODO marker	3
1.5 Once you are done	3
2 Summary and Conclusion	4
Bibliography	VII

List of Figures

Code example I	Code example explaining how to configure language and your company ..	1
Code example II	Code example on how to use different bibliography formats with this template	2

Acronyms

HPE	Hewlett Packard Enterprise
JSON	JavaScript Object Notation

1 Introduction

First, in the `thesis.typ` file, adapt the configuration to match your requirements. For further configuration, look in the upper part of the `template.typ` file, e.g. to learn how to change the company name and logo. Of course, you may change other parts of the template to adapt it to your preferences.

Also, make sure to read the Typst documentation.

This template is for English documents only (for now), but one could translate it...

To configure your language of your thesis, set the `language` parameter to either `en` (default) or `de`.

```
#show: thesis.with(  
  ...  
  company: (  
    name: "Hewlett Packard Enterprise",  
    image: "assets/hpe.svg",  
  ),  
  language: "en",  
)
```

Code example I: Code example explaining how to configure language and your company

1.1 Bibliography

As for bibliography / reference listing, you may decide whether to use “Hayagriva”, a yml-based format designed for Typst or BibTeX (`.bib`) format, which is *well supported by other platforms and tooling* since it is commonly used by LaTeX. You may use the Zotero `zotero-better-bibtex` extension for automatic synchronization. To switch between bibliography formats, change the above to the following:


```
#show: thesis.with(
...
bibliography_path = "literature.bib", // or literature.yml for Hayagriva
customized_ieee_citations = true, // default
)
```

Code example II: Code example on how to use different bibliography formats with this template

By default, this template displays ISBNs in the Bibliography. If no DOI is known, the ISBN is shown instead, and as a fallback the URL if available. This deviates from the normal/usual IEEE citation style. To disable this behavior and use the normal IEEE, set `customized_ieee_citations = false`.

You can provide a reference to a good reference [1, p. 123] like: [@tanenbaum_os](#) or [@tanenbaum_os\[p. 123\]](#). They will also show up in the bibliography.

1.2 Proposed Structure

Of cause, you can do it as you like...

Put each chapter in the `chapter/` directory, prefixed i.e. with `01-` if it is the first chapter. I'd recommend using CamelCase or snake_case but not spaces. Also, I would recommend deciding if to put the heading = Introduction in these files or to the parent file.

You can include files using the following e.g:

```
#include ./chapters/01-example.typ
```

If your chapter gets too large for one file, create a subdirectory in chapters with the chapters name, and create files for the different sections.

At the beginning of each .typ file, place the following to have all functions accessible:

```
#import "/template.typ": *
```

1.3 Acronyms

These are implemented provided by this template, not Typst itself.

You can use them like:

```
#acro("HPE")
#acro("HPE", pref: "long") // To prefer the long version
#acro("JSON", append: "-schemata")
```

1. Hewlett Packard Enterprise (HPE)
2. Hewlett Packard Enterprise
3. JavaScript Object Notation-schemata (JSON)

Now, once used, acronyms, for example like HPE, are displayed in their short form by default.

1.4 TODO marker

Well, if you are too lazy to write now, just add a todo-marker.

```
#todo([Your #strike[excuse] notes on what change here])
```

For example:

***To-do/WIP:** I could probably write more on how to use this template and Typst in general, if I wouldn't be too lazy..*

And the template makes sure it is well readable in the PDF and and refrains you from signing a document which includes these TODO-markers.

1.5 Once you are done

Add a signature to your thesis. Use the `signature` property. Set it to `hide`, to leave some blank space for you to sign manually, e.g. in a printed version. Or put in the path to your signature image or svg.

Note that having TODO-markers in your document will refrain you from compiling a signed document to ensure they are not forgotten.

2 Summary and Conclusion

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequae doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguere possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet, ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum defuturum, quas natura non depravata desiderat. Et quem ad me accedis, saluto: 'chaere,' inquam, 'Tite!' lictores, turma omnis chorusque: 'chaere, Tite!' hinc hostis mi Albucius, hinc inimicus. Sed iure Mucius. Ego autem mirari satis non queo unde hoc sit tam insolens domesticarum rerum fastidium. Non est omnino hic docendi locus; sed ita prorsus existimo, neque eum Torquatum, qui hoc primum cognomen invenerit, aut torquem illum hosti detraxisse, ut aliquam ex eo est consecutus? – Laudem et caritatem, quae sunt vitae sine metu degendae praesidia firmissima. – Filium morte multavit. – Si sine causa, nollem me ab eo delectari, quod ista Platonis, Aristoteli, Theophrasti orationis ornamenta neglexerit. Nam illud quidem physici, credere aliquid esse minimum, quod profecto numquam putavisset, si a Polyaeo, familiari suo, geometrica discere maluisset quam illum etiam ipsum.

Bibliography

- [1] A. S. Tanenbaum and H. Bos, *Modern Operating Systems*, 4. ed. Boston: Prentice Hall, 2015.
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