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Abstract

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This document demonstrates the HS Emden/Leer template for academic writing. It showcases the various formatting features and structure of the template, including headings, figures, tables, and citations.

Table of Contents

List of Figures

List of Tables

Source Code Listings

Abbreviations

***CPU* – Central Processing Unit**

Glossary

Algorithm **– A process or set of rules to be followed in calculations or other problem-solving operations.**

1 Introduction

In this exemplary document I will show you how to use the HS Emden/Leer template for academic writing. This template is designed to help you create a well-structured and formatted thesis or work of any kind. It includes various features such as the automated generation of a table of contents, list of figures, and list of tables, as well as support for citations and references. In the following sections, I will demonstrate the key features of the template and how to use them effectively.

1.1 Basics

Typst is a markdown based typesetting system that allows you to write documents in a simple and intuitive way. For the really basic formatting, I recommend you to check out the Typst documentation https://typst.app/docs/. It covers everything from the very basic features and syntax to really advanced features. I highly recommend playing around with it a bit to get a feel for how it works.

1.2 Features for Academic Writing

The HS Emden/Leer template for academic writing includes a variety of features to help you create a professional and polished document. Some of the key features will be demonstrated in the following sections.

1.2.1 Automated Table of Contents

The template automatically generates a table of contents based on the headings in your document. This makes it easy to navigate through your work and find specific sections.

This section is a level 3 heading, which will be included in the table of contents as such. The table of contents supports headings up to level 3, which means you can create a well-structured document with multiple levels of headings.

1.2.2 List of Figures and Tables

The template also generates a list of figures and tables, making it easy to reference them in your text. You can include figures by using the `#figure` command.

Figure 1: Logo of the HS Emden/Leer

As you can see, the figure is automatically numbered and included in the list of figures. You can also include tables using the `#table` command.

Substance	Subcritical °C	Supercritical °C
Hydrochloric Acid	12.0	92.1
Sodium Myreth Sulfate	16.6	104
Potassium Hydroxide	24.7	

But as you can see, the table is not automatically numbered and added to the list of tables. Therefore, you should wrap tables in a `#figure` command to make them automatically numbered, give them a caption and include them in the list of tables.

When you have a table that would span over multiple pages the template ensures that the heading row will be repeated on every page, so you don't have to worry about that.

Method	Accuracy	Latency	Energy
Baseline	92.3%	120ms	450mW
Our approach	93.1%	78ms	270mW
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Method	Accuracy	Latency	Energy
tatem, ut postea variari voluptas distinguique possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo.	tatem, ut postea variari voluptas distinguique possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo.	tatem, ut postea variari voluptas distinguique possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo.	tatem, ut postea variari voluptas distinguique possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo.

Table 1: Metrics in Table layout

And if you look now, you can see that the table is automatically numbered and included in the list of tables respectively, the list of tables is automatically generated and updated when you add or remove tables from your document.

1.2.3 Citations and References

The template supports citations and references, allowing you to easily include sources and create a bibliography.

If you want to reference a source or something from within your document that you previously tagged by using brackets `<...>` you can either use the `@`-tag. For example if you were to reference the logo of the HS Emden/Leer, you could use `@LogoHSEmdenLeer` to reference it. This will create a link to the figure in your document like this: Figure 1.

If you want the full control of what is displayed in the text, you can use the `#cite` command to create citations in your text, and the template will automatically

format them according to the selected citation style. Especially for works you want to reference, I recommend creating a `.bib` file with all your references and then using the `#cite` command to cite them in your text. For example the command `#cite(<example2022>, form: "prose")` will be displayed like this: “Smith (2022)”

In some disciplines it might also be common to list the references that are occuring on the same page in a footnote. I personally found a way that works for me, but I am not sure if this is the best way to do it. Nevertheless, I will show you how I did it: using this snippet `@example2023 #footnote[#cite(<example2023>,form: "prose")]` will look like this in the text: (Doe, 2023)[1] and the reference will be automatically listed in the footnote.

If you need any further information on what is possible with references and citations, I recommend checking out the Typst documentation on https://typst.app/docs/reference/model/ref/ and https://typst.app/docs/reference/model/cite/.

1.2.4 Abbreviations and Glossary

In order to use abbreviations and a glossary, I recommend using the `@preview/glossarium` package.

Then you can create a file called `abbreviations.typ` or however you want and add all your abbreviations in there.

[1] Doe (2023)

```typst
#import "@preview/glossarium:0.5.6": *
#pagebreak(weak: true)
#heading("Abbreviations", numbering: none)
#show: make-glossary
#register-glossary(abbreviations-entry-list)
#print-glossary(abbreviations-entry-list, disable-back-references: true)
```

Abbreviations can be used by using the `@`-tag. The first occurence of the abbreviation will be displayed in full with the abbreviation in brackets behind and all following occurrences will be displayed as the only the abbreviation (unless you want to have it displayed in a different way).

Here is an example of how to use the `@`-tag:

Central Processing Unit (CPU)

The next occurence of this abbreviation will be displayed as CPU.

You can also create a glossary in the same way. Just create a file called `glossary.typ` or however you want and add all your glossary entries in there.

Then you can use the registered entries like this: `@Algorithm`

The result will look like this:

A process or set of rules to be followed in calculations or other problem-solving operations. (Algorithm)

2 Features

This chapter is just here to show you how to import several files into the `main.typ`. If you did not see it yet, the `main.typ` file is the entry point of your document. It is the file that you will render to create your final document. The `main.typ` file imports all other files and includes them in the final document. The importing of files is done using the `#include` command. The `#include` command takes a file path as an argument and includes the file in the document. You can also use the `#import` command to import files, but this is not necessary in this case. The `#import` command is used to import files that are not part of the main document, such as libraries or templates.

2.1 Code Highlighting

You might have noticed that the code snippets in this document are highlighted. This is done using the `codly` package. In order for the code snippets you provide to be highlighted, you need to wrap them into a `#figure` command. This is because the template targets figures from type `raw` for the code listing. Mainly because then you can give them a caption, tag them and they will be automatically included in the list of code listings (which is automatically generated and updated when you add or remove code listings from your document). However you will have to set the `supplement` for this `figure` to "Source code" in order for the template to know that this is a code listing and not a figure.

```rust
fn main() {
    println!("Hello World!");
}
```

Source code 1: Hello World program in Rust

Bibliography

Doe, J. (2023) "Example Article," *Journal of Examples*, 1(1), pp. 1–10.

Smith, J. (2022) *Example Book*. Example Publisher.

Declaration of authorship

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We understand that any false statements made in this declaration may be punishable by law.

Jane Doe

Name	Place	Date	Signature

John Smith

Name	Place	Date	Signature