

UNIVERSITY

Department

OmniLaTeX Minimal Starter Guide

Your Name

Submitted in partial fulfillment of the requirements for the degree of Master of Science

Advisor: Advisor Name

Committee: Committee Member A, Committee Member B

Defense Date: November 2, 2025

City, Country

November 2, 2025

Rest of this page intentionally left blank.

Contents

1. Introduction	5
1.1. Text Formatting	5
1.2. Citations	5
1.3. Cross-References	5
2. Lists and Structures	7
2.1. Unordered Lists	7
2.2. Ordered Lists	7
2.3. Description Lists	7
3. Mathematics	9
3.1. Inline Math	9
3.2. Display Math	9
4. Figures and Tables	11
4.1. Figures	11
4.2. Tables	11
5. Code Listings	13
5.1. Python Example	13
5.2. LaTeX Example	13
6. Glossaries and Acronyms	15
6.1. Using Glossaries	15

6.2. Adding New Terms	15
7. Advanced Features	17
7.1. Boxes and Callouts	17
7.2. TODO Notes	17
7.3. Hyperlinks	17
7.4. Footnotes	17
7.5. Colors	17
8. Bibliography and References	19
A. Appendix Example	21
A.1. Additional Data	21
A.2. Supplementary Code	21
Symbols	21
Numbers	21
Index	22
Abbreviations	22
Subscripts	22
Non-printed entries	22

1. Introduction

This is a minimal starter template demonstrating all major OmniLaTeX capabilities. Each section shows one feature with minimal but idiomatic usage.

1.1. Text Formatting

Basic text with **bold**, *italic*, and monospace fonts. Unicode support: $\alpha\beta\gamma$, $\mathbb{R}\mathbb{C}\mathbb{N}$, $\forall\exists\in\ni$.

1.2. Citations

Reference bibliography entries with `\cite{}`: [**knuth1984texbook**]. Multiple citations: [**lamport1994latex**; **goossens1994latex**].

1.3. Cross-References

Reference sections with `\ref{}`: See Section [2](#). Reference figures: Figure [4.1](#). Reference tables: Table [4.1](#).

Rest of this page intentionally left blank.

2. Lists and Structures

2.1. Unordered Lists

- First item
- Second item
 - Nested item
 - Another nested item
- Third item

2.2. Ordered Lists

1. First step
2. Second step
3. Third step

2.3. Description Lists

OmniLaTeX Universal LaTeX template

LuaLaTeX Modern LaTeX engine

KOMA-Script Document class collection

Rest of this page intentionally left blank.

3. Mathematics

3.1. Inline Math

Einstein's famous equation: $E = mc^2$. Pythagorean theorem: $a^2 + b^2 = c^2$.

3.2. Display Math

The quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad [3.1]$$

Maxwell's equations:

$$\nabla \cdot \mathbf{E} = \frac{\rho}{\epsilon_0} \quad [3.2]$$

$$\nabla \cdot \mathbf{B} = 0 \quad [3.3]$$

$$\nabla \times \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t} \quad [3.4]$$

$$\nabla \times \mathbf{B} = \mu_0 \mathbf{J} + \mu_0 \epsilon_0 \frac{\partial \mathbf{E}}{\partial t} \quad [3.5]$$

Reference equations: Equation [3.1].

Rest of this page intentionally left blank.

4. Figures and Tables

4.1. Figures

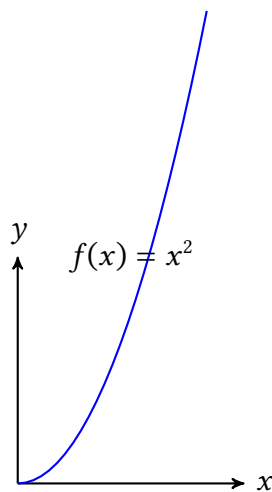


Figure 4.1: Example TikZ figure showing $f(x) = x^2$.

4.2. Tables

Table 4.1: Example table with data.

Item	Value 1	Value 2
First	10.5	20.3
Second	15.2	18.7
Third	12.8	22.1

5. Code Listings

5.1. Python Example

```
1 def fibonacci(n):  
    """Calculate the nth Fibonacci number."""  
    if n <= 1:  
        return n  
5    return fibonacci(n-1) + fibonacci(n-2)  
  
print(fibonacci(10)) # Output: 55
```

Code Listing 5.1: Recursive Fibonacci function in Python.

5.2. LaTeX Example

```
1 \documentclass{article}  
\begin{document}  
Hello, \LaTeX{ }!  
\end{document}
```

Code Listing 5.2: Minimal LaTeX document.

Rest of this page intentionally left blank.

6. Glossaries and Acronyms

6.1. Using Glossaries

This template uses ?? for typesetting. The ?? is a research university in Hamburg.

Using ?? and ?? again.

?? are essential for computing. ?? is the short form only. ?? is the long form only.

6.2. Adding New Terms

Rest of this page intentionally left blank.

7. Advanced Features

7.1. Boxes and Callouts

Note: This is an example callout box. You can add important information here.

7.2. TODO Notes

7.3. Hyperlinks

External link: <https://www.latex-project.org/>

Link with text: [CTAN Package Repository](#)

Email: example@example.com

7.4. Footnotes

This text has a footnote¹. Multiple footnotes² are possible³.

7.5. Colors

Text can be [red](#), [blue](#), or [green](#).

¹This is the footnote text.

²First footnote.

³Second footnote.

You can define custom colors in your document or institution configuration.

8. Bibliography and References

All citations appear automatically in the bibliography. Add entries to `../../bib/bibliography.bib`.

Example BibTeX entry:

```
@book{knuth1984texbook,  
  author = {Donald E. Knuth},  
  title = {The TeXbook},  
  year = {1984},  
  publisher = {Addison-Wesley}  
}
```

Rest of this page intentionally left blank.

A. Appendix Example

Appendices use the same chapter structure. They're automatically labeled A, B, C, etc.

A.1. Additional Data

Extra information that doesn't fit in the main text.

A.2. Supplementary Code

```
1 | #!/bin/bash  
  | # Build script example  
  | latexmk -pdf main.tex
```

Symbols

`\printglossary` doesn't work with the `record=only` package option use `\printunsrtglossary[type=symbols]` instead (or change the package option). This message will be removed once the problem has been fixed.

Numbers

`\printglossary` doesn't work with the `record=only` package option use

`\printunsrtglossary[type=numbers]`

instead (or change the package option). This message will be removed once the problem has been fixed.

Index

`\printglossary` doesn't work with the `record=only` package option use

`\printunsrtglossary[type=index]`

instead (or change the package option). This message will be removed once the problem has been fixed.

Abbreviations

`\printglossary` doesn't work with the `record=only` package option use

`\printunsrtglossary[type=abbreviations]`

instead (or change the package option). This message will be removed once the problem has been fixed.

Subscripts

`\printglossary` doesn't work with the `record=only` package option use

`\printunsrtglossary[type=subscripts]`

instead (or change the package option). This message will be removed once the problem has been fixed.

Non-printed entries

`\printglossary` doesn't work with the `record=only` package option use

`\printunsrtglossary[type=notprinted]`

instead (or change the package option). This message will be removed once the problem has been fixed.