University

Department

OmniLaTeX Minimal Starter Guide

Your Name

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

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Committee: Committee Member A, Committee Member B
Defense Date: October 20, 2025

City, Country
October 20, 2025

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Contents

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: αβγ, □□□, ∀∃∈∋.

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.

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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

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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:

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

Maxwell's equations:

$$\nabla \cdot \mathbf{E} = \frac{\rho}{\varepsilon_0} \tag{3.2}$$

$$\nabla \cdot \mathbf{B} = 0 \tag{3.3}$$

$$\nabla \times \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t} \tag{3.4}$$

$$\nabla \times \mathbf{B} = \mu_0 \mathbf{J} + \mu_0 \varepsilon_0 \frac{\partial \mathbf{E}}{\partial t} \tag{3.5}$$

Reference equations: Equation [3.1].

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4. Figures and Tables

4.1. Figures

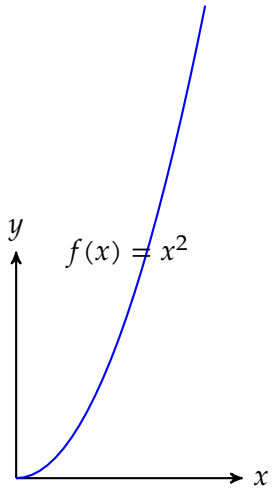

Figure 4.1 / Example TikZ figure showing $f(x) = x^2$.

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

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5. Code Listings

5.1. Python Example

```python
def fibonacci(n):
    """Calculate the nth Fibonacci number."""
    if n <= 1:
        return n
    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

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

Code Listing 5.2 / Minimal LaTeX document.

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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

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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 footnote[1]. Multiple footnotes[2] are possible[3].

7.5. Colors

Text can be red, blue, or green.
You can define custom colors in your document or institution configuration.

[1] This is the footnote text.
[2] First footnote.
[3] Second footnote.

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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}
}
```

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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

```
#!/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
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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.