

University Name

This is my L^AT_EX boilerplate document

Subtitle

LastName, FirstName

Description of the document

City, July 27 2020

Abstract

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1 Agenda

- I. Introduction
- II. Hello world
- III. Typesetting Syntax
- IV. Labeling and Referencing
- V. Math Typing
- VI. Tables
- VII. Figures

2 Introduction

To use L^AT_EX these applications are recommended:

- 1. Full package of TeXlive <https://www.tug.org/texlive/>
- 2. MikTeX (in case 1 failed to install): <https://miktex.org/download>
- 3. The latest version of TeXstudio: <https://www.texstudio.org/>
- 4. PDF Reader (any working version): <https://get.adobe.com/reader/>
- 5. Quick help to install TeXlive and TeXstudio: <https://www.youtube.com/watch?v=82bF7uzgFes>
- 6. Better colors[Advanced]: <https://tex.stackexchange.com/a/176372>

3 Hello world

Hello world !

4 Typesetting Syntax

4.1 Paragraph

This is my paragraph: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

4.1.1 Sub paragraph

This is my subparagraph: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

4.2 Table of contents:

We have generated our table of contents by using the command `\tableofcontents`.

4.3 Font Effects

Bold text `\textbf{Bold text}` CTRL+B

Italic text `\textit{Italic text}` CTRL+I

Underline text `\underline{Underline text}`

SMALL CAPITAL TEXT `\textsc{Small capital text}`

Highlight text `\hl{Highlight text}`

4.3.1 Font size

This is the tiny text size.

This is the scriptsize text size

This is the footnotesize text size

This is the small text size

This is the normalsize text size

This is the large text size

This is the Large text size

This is the LARGE text size

This is the huge text size

This is the Huge text size

4.3.2 Colors

Latex support a package for coloring. Just you need to use `\usepackage{color}` for the package and `\color{color} text` for the text.

This is my red font text.

This is my green font text.

This is my blue font text.

This is my yellow font text.

This is my cyan font text.

This is my magenta font text.

5 Labeling and Referencing

Here I would like to call introduction section by using `\ref{label}`. Section 2. Let us call subsection! In subsection 4.1, we covered paragraph.

6 Math Typing

If you want to put a math notation in your body, you need to use the sign `$you notation goes here$`. I would like to write x in mathematics mode. Here is how I can do it: x . I would like to call Alpha like this α , or β .

$$P_{s,cache}(N, \gamma_r) = \frac{1}{N} P_{hit}$$

Here is my generated math from online tools: $\sum_{i=1}^N \frac{1}{i^N}$

<https://www.codecogs.com/latex/eqneditor.php>

$$\sum_{i=1}^N \frac{1}{i^N} \tag{1}$$

In Eq. 1 we showed...

$$\int_{y=c}^{y=d} \int_{x=a}^{x=b} \prod_{i=1}^{n=N} f(x, y, n, i) \tag{2}$$

$$\int_{y=c}^{y=d} \int_{x=a}^{x=b} \prod_{i=1}^{n=N} f(x, y, n, i)$$

$$\int_{y=c}^{y=d} \int_{x=a}^{x=b} \prod_{i=1}^{n=N} f(x, y, n, i)$$

$$\int_{y=c}^{y=d} \int_{x=a}^{x=b} \prod_{i=1}^{n=N} f(x, y, n, i) \tag{3}$$

I want to ref Eq. 3.

7 Tables

Here we are going to deal with the table stuff in L^AT_EX. The very first version of our table can be like this:

Table 1: THIS IS MY FIRST TABLE

Notation	Description
x	This is the description for the notation
y	This is the description for the notation
z	This is the description for the notation
w	This is the description for the notation
α	This is the description for the notation
θ	This is the description for the notation
β	This is the description for the notation
$\int_a^b f(x)$	B
λ	This notation is related to Eq. 3

8 Figures

Here we will need to have a specific package called `\usepackage{graphicx, graphics, subcaption}`. Then we need to define the path for the figures. We need to do it right after `\begin{document}` and the command to it is `\graphicspath{{path/}}`



Figure 1: Picture of Linear Gradient

I would like to call figure like this. Fig.1.

Calling Fig.2, named Picture of Diamond Gradient.



Figure 2: Picture of Diamond Gradient

9 Bibliography and Citations

First, you need to create a bib file. Then, you put you bibtex inside it. Further, you need to call it before `\end{document}`. Let us call the reference [LastName, 1986].

References

[LastName, 1986] LastName, L. A. (1986). The lorem ipsum. *Lorem Ipsum's Journal*.