

My first LaTeX document

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Abstract

First document. This is a simple example, with no extra parameters or packages included. [1] We have now added a title, author and date to our first \LaTeX document!

*Funded by the Overleaf team.

Some of the **greatest** discoveries in science were made by ***accident***.

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Figure 1: profile

1 Introduction

This is the tutorial class of \LaTeX !

As you can see in figure 1, the dog is in blue. The author is on page 4.

2 Lists in \LaTeX

This section is about the use of list in \LaTeX .

- First
- Second
- Third

Ordered list

1. First
2. Second
3. Third

3 Inline Math in \LaTeX

1. $E = mc^2$
2. $F = ma$

4 Display Math Mode in L^AT_EX

The mass-energy equivalence is described by the famous equation

$$E = mc^2$$

discovered in 1905 by *Albert Einstein*.

In natural units($c = 1$), the formula expresses the identity

$$E = m \tag{1}$$

5 More Example of Math

Subscripts in math mode are written as a_b and superscripts are written as a^b . These can be combined and nested to expressions such as

$$T^{i_1 i_2 \dots i_n}_{j_1 j_2 \dots j_m}$$

We write integrals using \int and fractions using $\frac{a}{b}$. Limits are placed on integrals using superscripts and subscripts:

$$\int_0^1 \frac{dx}{e^x} = \frac{e-1}{e}$$

Lower case Greek letters are written as $\omega\delta$ and Upper case Greek letters are written as $\Omega\Delta$.

6 Paragraph type

This is a new section

6.1 subsection1

This is a new section 2

6.2 subsection2

This is a new paragraph

- `\part{part}`
- `\chapter{chapter}`
- `\section{section}`
- `\subsection{subsection}`
- `\subsubsection{subsubsection}`
- `\paragraph{paragraph}`
- `\subparagraph{subparagraph}`

Figure 2: table of latex structure

7 Structure

This (2) is the structure of \LaTeX .

8 Tables

This is the *table* in \LaTeX .

item1	item2	item3
cell1	cell2	cell3
cell4	cell5	cell6
cell7	cell8	cell9

9 Bib

This is about the use of reference. [2]

References

- [1] Liu Junan, Lv Jinhu, and Chen Shihua. Chen's characteristics. *Control Theory and Applications*, 2002.
- [2] Lu Junan, Lv Jinhu, and Chen Shihua. Chen's characteristics. *Control Theory and Applications*, 2002.