Introduction to Latex

Tasriad Ahmed Tias

December 26, 2023

Contents

This is a LaTeX article.

1 Introduction

This is the introduction part of the document.
This text will be in bold format.
This text will be in italic format.
This text will be underlined.
Large text.
Huge text.
This text is emphasized.

2 Beginning

This is the beginning part of the document.

3 Main

3.1 part1

part 1 of the document.

3.2 part2

part 2 of the document.

3.3 part3

3.3.1 part of part3

this is the sub sub-section of part 3.

unlisted section

This section will not show up in the table of contents. Nor will it be numbered.

4 List

In this section, we shall demonstrate the ordered and unordered list.

4.1 unordered list

- item1
- item2
  - nested item1
  - nested item2
- item3

4.2 ordered list

1. item1
2. item2
3. item3
   (a) nested item1
   (b) nested item2

4.3 descriptive list

description1: about description 1

description2: about description 2

5 Table

We will see tables here.

5.1 Basic table

hcell1	**hcell2**	**hcell3**
cell4	cell5	cell6
cell7	cell8	cell9

5.2 Multi-column table

cell1	cell2	cell3
1	Merged	
2	3	4

5.3 Multi-row table

cell1	cell2	cell3
Merged	cell4	cell5
	cell6	cell7

5.4 Multi-row and Multi-column table

1	2	3	4
MergedR	MergedC		5
			6
			7

6 Mathematical equation

6.1 Direct approach

This is a simple equation $E = mc^2$
This is also a simple equation:
$a_1x + b_1y = 2$
$a_2x + b_2y = 5$
$E_{kintetic} = \frac{1}{2}mv^2$
$\sum_{i=0}^{n} a_i$

6.2 Mathematical environment

$$x = e^{\frac{a}{b^3}} \tag{1}$$

$$\gamma = \frac{1-f}{f} \tag{2}$$

$$\epsilon = 8.854E - 12 \tag{3}$$

$$A \cap B = C \tag{4}$$

$$z = \begin{pmatrix} \frac{x}{y} \\ \frac{a}{b} \end{pmatrix} \tag{5}$$