

# My First LaTeX Document

Md Ataulha

December 5, 2022

# Contents

<b>Practical 1: Document Structure</b>	<b>1</b>
1.1 Introduction . . . . .	1
1.2 Methods . . . . .	1
1.2.1 Stage 1 . . . . .	1
1.2.2 Stage 2 . . . . .	1
1.3 Results . . . . .	1
<b>Practical 2: Typesetting Text</b>	<b>2</b>
2.1 Font Effects . . . . .	3
2.2 Color Effects . . . . .	3
2.3 Size Effects . . . . .	3
2.4 Lists . . . . .	4
2.5 Comments . . . . .	5
2.6 Spacing . . . . .	5
<b>Practical 3: Tables</b>	<b>5</b>
3.1 List of Tables . . . . .	6
<b>Practical 4: Figures and Equations</b>	<b>7</b>
4.1 Figures . . . . .	8
4.2 Sub Figures . . . . .	9
4.3 Equations . . . . .	9
<b>Practical 5: References</b>	<b>12</b>
5.1 The BibTex file . . . . .	12
5.2 Citing references . . . . .	12
5.3 Styles . . . . .	12
5.3.1 Numerical citations . . . . .	12

# List of Tables

3.1	Example Table 1	. . . . .	6
3.2	Example Table 2	. . . . .	6
3.3	Example Table 3	. . . . .	6

# List of Figures

4.1	One . . . . .	8
4.2	Two . . . . .	8
4.3	subimage1 and subimage2 . . . . .	9

# Practical 1: Document Structure

## 1.1 Introduction

This is the Introduction section.

## 1.2 Methods

This is the Methods section.

### 1.2.1 Stage 1

This is the Stage 1 subsection and there is a label on it.

#### Part 1

This is another subsubsection under subsection.

### 1.2.2 Stage 2

This is anoter Stage 2 subsection.

## 1.3 Results

Here is the results section. Referring to section 1.2.1 on page 1.

**First Paragraph** This is a simple paragraph named First Paragraph. We used the paragraph command here.

**First Paragraph Sub Paragraph** This is a subparagraph under the  
First paragraph.

# Practical 2:Typesetting Text

## 2.1 Font Effects

*textit* command for italics font effect.

*textsl* command for slanted font effect.

TEXTSC COMMAND FOR SMALLCAPS FONT EFFECT.

**textbf** command for bold font effect.

texttt command for teletype font effect.

textsf command for sans serif font effect.

textrm command for roman font effect.

underline command for underline font effect.

**underline and textsc** command for underline and bold font effect.

## 2.2 Color Effects

This is Red.

This is Green.

This is Blue.

This is Cyan.

This is Magenta.

This is Yellow.

## 2.3 Size Effects

tiny command for tiny font size.

scriptsize command for scriptsize font size.

small command for small font size.

normalsize command for normalsize font size.

large command for large font size.  
Large command for Large font size.  
LARGE command for LARGE font size.  
huge command for huge font size

## 2.4 Lists

A list and sub-list with enumerate only

1. First item.
2. Second item.
  - A sub-item.
  - Another sub-item.
3. Third item.

A list and sub-list

- First item.
- Second item.
  - A sub-item.
  - Another sub-item.
- Third item.

A custom type list

- First item.
- + Second item.
  - ABC A sub-item.
  - DEF Another sub-item.
- @ Third item.



## 2.5 Comments

Believe that life is worth living , and your belief will help create the fact.

This is spacing.  
# \$ % ^ & - { } ~

## 2.6 Spacing

Item #1A\642 costs \$8 & is sold at a ~10% profit.

# Practical 3: Tables

## 3.1 List of Tables

Apples	Green
Strawberries	Red
Oranges	Orange

Table 3.1: Example Table 1

Appels	Green
Strawberries	Red
Oranges	Orange

Table 3.2: Example Table 2

8	here's
86	stuff
2008	now

Table 3.3: Example Table 3

Country List			
Country Name	ALPHA 2 Code	ALPHA 3 Code	Numeric Code
Afghanistan	AF	AFG	004
Albania	AL	ALB	008
Algeria	DZ	DZA	012
Angola	AO	AGO	024

Item	Quantity	Price (\$)
Nails	500	0.34
Wooden boards	100	4.00
Bricks	240	11.50

City	Year		
	2006	2007	2008
London	45789	46551	51298
Berlin	34549	32543	29870
Paris	49835	51009	51970

# Practical 4: Figures and Equations

## 4.1 Figures



Figure 4.1: One

Figure 4.1 shows my histogram.



Figure 4.2: Two



(a) One



(b) Two

Figure 4.3: subimage1 and subimage2

## 4.2 Sub Figures

## 4.3 Equations

$$1 + 2 = 3$$

$$1 + 2 = 3$$

$$1 + 2 = 3 \tag{4.1}$$

$$a = b + c \tag{4.2}$$

$$= y - z \tag{4.3}$$

$$\tag{4.4}$$

$$n^2$$

$$2_a$$

$$b_{a-2}$$

$$\frac{a}{3}$$

$$\frac{y}{\frac{3}{x} + b}$$

$$\sqrt{y^2}$$

$$\sqrt[x]{y^2}$$

$$\sum_{x=1}^5 y^z$$

$$\lim_{x\rightarrow\infty}f(x)$$

$$\int_a^bf(x)$$

$$\begin{bmatrix}1&0\\0&1\end{bmatrix}$$

$$\begin{array}{c} \alpha \\ \beta \\ \delta, \Delta \\ \theta, \Theta \\ \mu \\ \pi, \Pi \\ \sigma, \Sigma \\ \phi, \Phi \\ \psi, \Psi \\ \omega, \Omega \end{array}$$

$$e=mc^2\tag{4.5}$$

$$\pi=\frac{c}{d}\tag{4.6}$$

$$\frac{d}{dx}e^x=e^x\tag{4.7}$$

$$\frac{d}{dx}\int_0^\infty f(s)ds=f(x)\tag{4.8}$$

$$f(x)=\sum_{x=i}=0^\infty\frac{f^{(i)}(0)}{i!}x^i\tag{4.9}$$

$$x=\sqrt{\frac{x_i}{z}}y\tag{4.10}$$

$$\tag{4.11}$$

$$\begin{bmatrix} 1 & 2 & 3 & 4 & 5 \\ 6 & 7 & 8 & 9 & 10 \\ 11 & 12 & 13 & 14 & 15 \\ 16 & 17 & 18 & 19 & 20 \\ 21 & 22 & 23 & 24 & 25 \end{bmatrix}$$

# Practical 5: References

## 5.1 The BibTex file

## 5.2 Citing references

[1] This is a normal reference of the Birdetal2001 paper.  
[1, p. 215] This is a demo page reference of the Birdetal2001 paper.  
[9, 6, 3, 5, 7, 10, 8, 2, 4] This is a demo multiple reference.  
[9] This is just a demo citation of the 1st bib reference.  
This is just a demo citation of the 2nd bib reference [6].

## 5.3 Styles

### 5.3.1 Numerical citations



# Bibliography

- [1] R. B. Bird, E. A. Smith, and Bird D. W. The hunting handicap: costly signaling in human foraging strategies. *Behavioral Ecology and Sociobiology*, 50:9–19, 2001.
- [2] Li-Wei Chen and Alexander Rudnicky. Fine-grained style control in transformer-based text-to-speech synthesis. In *ICASSP 2022-2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 7907–7911. IEEE, 2022.
- [3] Google. This is how you cite a website in latex. <http://www.google.com>, December 2022.
- [4] Yifan Hu, Pengkai Yin, Rui Liu, Feilong Bao, and Guanglai Gao. Mntts: An open-source mongolian text-to-speech synthesis dataset and accompanied baseline. *arXiv preprint arXiv:2209.10848*, 2022.
- [5] Rongjie Huang, Yi Ren, Jinglin Liu, Chenye Cui, and Zhou Zhao. Genspeech: Towards style transfer for generalizable out-of-domain text-to-speech synthesis. *arXiv preprint arXiv:2205.07211*, 2022.
- [6] Shafkat Kibria, M. Shahidur Rahman, M. Reza Selim, and M. Zafar Iqbal. Acoustic analysis of the speakers’ variability for regional accent-affected pronunciation in bangladeshi bangla: A study on sylheti accent. *IEEE Access*, 8:35200–35221, 2020.
- [7] Yinghao Aaron Li, Cong Han, and Nima Mesgarani. Styletts: A style-based generative model for natural and diverse text-to-speech synthesis. *arXiv preprint arXiv:2205.15439*, 2022.
- [8] Ali Raheem Mandeel, Mohammed Salah Al-Radhi, and Tamás Gábor Csapó. Investigations on speaker adaptation using a continuous vocoder within recurrent neural network based text-to-speech synthesis. *Multi-media Tools and Applications*, pages 1–15, 2022.

- [9] Sadia Sultana, M. Zafar Iqbal, M. Reza Selim, Md. Mijanur Rashid, and M. Shahidur Rahman. Bangla speech emotion recognition and cross-lingual study using deep cnn and blstm networks. *IEEE Access*, 10:564–578, 2022.
- [10] Jinlong Xue, Yayue Deng, Ya Li, Jianqing Sun, and Jiaen Liang. Ecapa-tdnn for multi-speaker text-to-speech synthesis. *arXiv preprint arXiv:2203.10473*, 2022.