

# My First LaTeX Document

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# 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

$$1 + 2 = 3$$

$$1 + 2 = 3$$

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

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

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

$$\tag{4.4}$$

$$n^2$$

$$2_a$$

$$b_{a-2}$$

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

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

$$\sqrt{y^2}$$

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

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

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

$$\int_a^bf(x)$$

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

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

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

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

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

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

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

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

$$\tag{4.11}$$

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