Name of Institution
Department of Computer Studies

Collection of LaTeX Sections for Structured Academic and Technical Report Documents

A Template Collection

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1 Typography and Formatting

1.1 Text Sizes

The following demonstrates the standard LaTeX font sizing hierarchy:

- This is tiny text
- This is scriptsize text
- This is footnotesize text
- This is small text
- This is normalsize text (Default)
- This is large text
- This is Large text
- This is LARGE text
- This is huge text
- This is Huge text

1.2 Text Styles

Standard formatting options include:

- **Bold Text Example**
- *Italicized Text Example*
- Underlined Text Example
- ~~Strikethrough Text Example~~
- ***Combined Bold and Italic***
- `Monospaced/Typewriter Font`
- SMALL CAPS TEXT

1.3 Enumeration and Lists

Using the `enumitem` package, we can customize list markers.

Arabic Numerals (Default)

1. First item (Standard)
2. Second item
3. Third item

Roman Numerals

I. Major Point One

II. Major Point Two

    i. Minor point i
    ii. Minor point ii

Alphabetical Lists

A. Section A

B. Section B

    a) subsection a
    b) subsection b

2 Tables

2.1 Standard Professional Table (No Stripes)

Table 1: A clean academic table using Booktabs.

Component	Material	Cost ($)
Chassis	Aluminum	45.00
Microcontroller	Silicon	12.50
Power Supply	Li-Ion	22.00

2.2 Zebra Striped Table

This table uses the manila background color defined in the main file.

Table 2: Inventory list with alternating row colors.

Item Name	Stock ID	Quantity
Network Switch	NS-001	15
Patch Cable (5m)	PC-005	120
Server Rack	SR-990	4
Cooling Unit	CU-202	8
UPS Battery	UP-110	20

2.3 Full Width Table

This table automatically expands to fill the text width between margins.

Table 3: A full-width table utilizing available margin space.

Project Phase	Status	Completion Date
Phase 1: Planning	Complete	Jan 2024
Phase 2: Development	In Progress	Mar 2024
Phase 3: Testing	Pending	May 2024
Phase 4: Deployment	Pending	Jul 2024

3 Figures and Images

3.1 Standard Figure

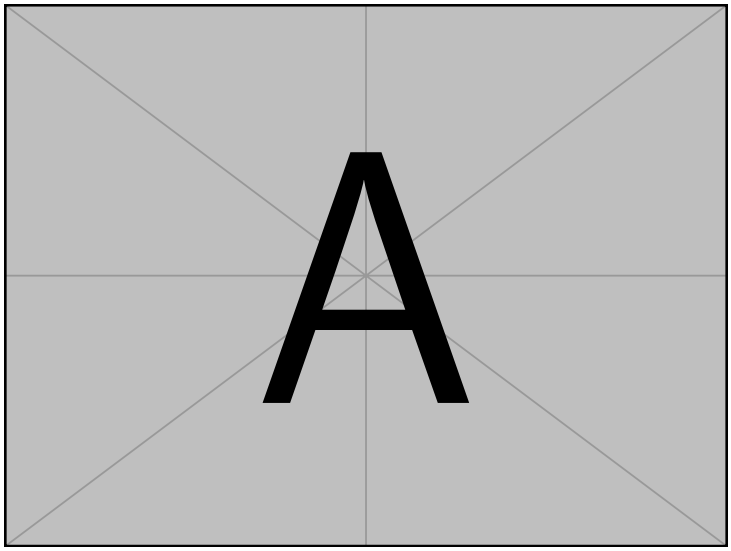
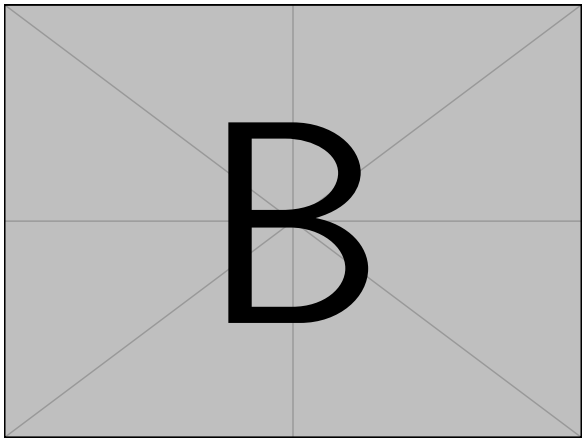


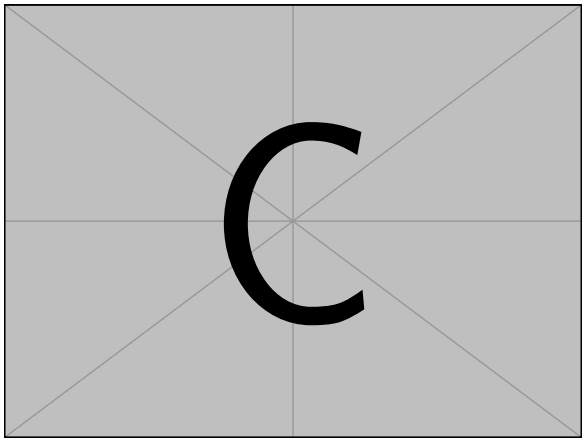
FIGURE 1
A standard centered figure.

Source: Generated by LaTeX

3.2 Side-by-Side Figures



(a) Left Side Data

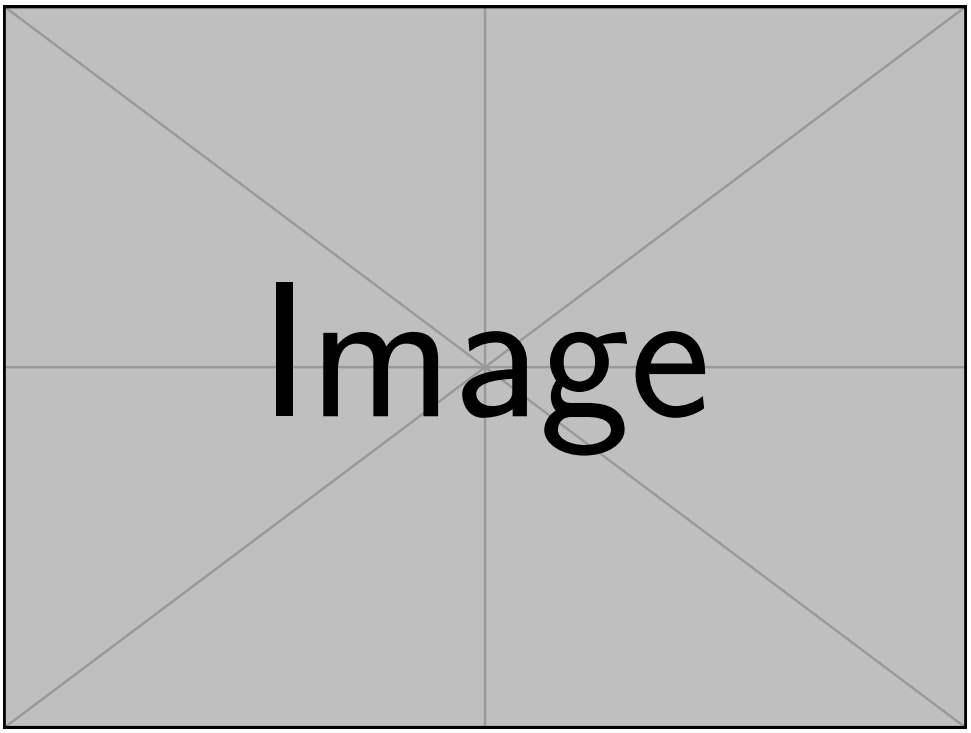


(b) Right Side Data

Figure 2: Comparative analysis showing two figures side-by-side.

3.3 Custom Styled Figure

FIGURE 3
Extended detail overview of the figure shown below...



Source: –Source of the Graph–

4 Code Implementation

4.1 Inline Code

You can mention variables or commands directly in the paragraph using `inline code styling`, which highlights the text with the Manila theme.

4.2 Multi-Language Support

MEMORY ALLOCATION ROUTINE

```c
#include <stdio.h>
#include <stdlib.h>

int main() {
    int *ptr;
    int n = 5;

    // Dynamically allocate memory
    ptr = (int*)malloc(n * sizeof(int));

    if (ptr == NULL) {
        printf("Memory not allocated.\n");
        exit(0);
    }

    printf("Memory successfully allocated using malloc.\n");
    free(ptr);
    return 0;
}
```

DATA PROCESSING SCRIPT

```python
import pandas as pd
import numpy as np

def calculate_metrics(data_frame):
    # Calculate basic statistics
    mean_val = np.mean(data_frame['value'])
    max_val = np.max(data_frame['value'])

    print(f"Processing Complete.")
    print(f"Mean: {mean_val:.2f} | Max: {max_val}")
    return mean_val

# Execute
df = pd.DataFrame({'value': [10, 20, 30, 40, 50]})
calculate_metrics(df)
```

STATISTICAL MODELING

```r
# Load necessary library
library(ggplot2)

# Create sample dataset
data <- data.frame(
  x = c(1, 2, 3, 4, 5),
  y = c(2, 4, 6, 8, 10)
)

# Linear Regression Model
model <- lm(y ~ x, data = data)

# Output summary
print(summary(model))
```

4.3 System Output

TERMINAL OUTPUT

```
user@workstation:~/projects$ gcc main.c -o main
user@workstation:~/projects$ ./main
Memory successfully allocated using malloc.
user@workstation:~/projects$ _
```