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April 7, 2024



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1 Introduction

1.1 Background

Greetings! This is a template for XJTLU coursework by L^AT_EX. [1] I make this template because of the excellent work of *Dr.Cheng* and the EEE students of *XJTLU*. *Dr.Cheng* has received his PhD degree in Liverpool University and now works in *XJTLU*. [2] The repository above was also used for his doctoral thesis.

Kind as him, *Dr.Cheng* shared his template on *Github* for every *XJTLUer*. Meanwhile, he also worked on a tutorial about how to use L^AT_EX. (It's a pity that his blog is now closed.) Luckily, I found this buried treasure today(November 13, 2023).

1.2 Why I make this template

Inspired by his *Open Source Spirit*, and considering his work is too sophisticated, I decided to make a **simpler template** for XJTLU coursework, which is not so official but still useful.

2 What's in this template

2.1 Pre-defined Commands

This template provides a command *picHere* to insert pictures, with 4 parameters:

1. “*path*”: the path of the picture
2. “*width*”: the width of the picture(percentage of the text width is recommended)
3. “*caption*”: the caption of the picture
4. “*label*”: the label of the picture(used for reference)

For example, we can use “`\picHere{pics/TC.png}{0.5\textwidth}{TC Campus}{TC}`” to insert a picture like this:



Figure 1: TC Campus

This template also provides a command *picHereSimple* to insert pictures, with only the first 2 parameters. This one is used for pictures without caption and label. (e.g . the cover picture)

2.2 Global Settings

At the beginning of this file, there are some parameters that can be changed to customize the report.

2.2.1 Basic Information

Some “Basic Information” like *moduleName*, *authorName* and “Picture Paths” like *XJTLU*, *coverPic*, can be set easily globally.

2.2.2 Adjustment of the Layout

titleVerticalOffset can be set to adjust the vertical offset of the title. Also, the width of the header and footer line is editable. Moreover, the contents of *Left*, *Center* and *Right* in the header and footer can also be changed easily by modifying the corresponding parameters.

2.2.3 Boolean Parameters

This is my favorite part. This template provides some boolean parameters to customize the style of the report. Currently, you can choose whether to use *MS Word Margin* and *Header and Footer*.

For example, if you want a report with *MS Word Margin* and *Header and Footer*, just keep the “`\isMSWordMargintrue`” and “`\isHeaderFootertrue`”. (They are default settings)

If you want to disable any of them, just change the postfix “*true*” to “*false*”, e.g. “`\isMSWordMargintrue`” → “`\isMSWordMarginfalse`”.

2.3 Beautiful Code

A color palette for code is defined in *settings.sty*, which is the style I used in my *VS Code*.

2.3.1 *hello.cpp*

```
1 #include <iostream>
2
3 int main()
4 {
5     std::cout << "Hello World!" << std::endl;
6     return 0;
7 }
```

Listing 1: hello.cpp

2.3.2 *multiplication.py*

```
1 # 9*9 multiplication table
2
3 ROW = 9
4 COL = 9
5
6 for i in range(1, ROW+1):
7     for j in range(1, COL+1):
8         print(f"{i}*{j}={i*j}", end="\t")
9     print("")
```

Listing 2: multiplication.py

Note: A parameter “*language*” in the command “`\lstset`” is used to specify the language of the code. **Please change it to the language you use.** Wrong type of language may cause some error of the the key word color.

3 Appendix

Pictures used in this report:

1. The *XJTLU* Logo is from the *Github* repository of *Dr.Cheng*
2. The cover picture is the avator of author, which is made by *Stable Diffusion*. (I call her *Chicarlet*.)
3. The picture of *TC Campus* is from the official website of *XJTLU*

These pictures are used for **academic purpose only**. Many thanks to the authors.

References

- [1] SiriusAhu, “An Example Paper,” vol. 13, pp. 123–456, Nov 2023.
- [2] —, “An Example Paper,” vol. 13, pp. 123–456, Nov 2022.