

# Template for L<sup>A</sup>T<sub>E</sub>X files

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## Motivation

I write a lot of documents, so why not having a template and making all of them look the same?

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## Contents

<b>1</b>	<b>Writing codes in the L<sup>A</sup>T<sub>E</sub>X environment</b>	<b>3</b>
<b>2</b>	<b>Special functions that you can use</b>	<b>3</b>
2.1	Functions for collaboration . . . . .	3
<b>3</b>	<b>Included files</b>	<b>4</b>
3.1	Codes . . . . .	4
3.2	Images . . . . .	4
3.3	Formatting file . . . . .	4
3.4	Bibliography . . . . .	5

# 1 Writing codes in the L<sup>A</sup>T<sub>E</sub>X environment

You can write your codes using `lstlisting`. The default style is set to `custom_verilog`, which is a Verilog environment (defined in the `./include/code_params.tex`). To use the default environment use:

```
\begin{lstlisting}[label=code:my_label,caption={My Caption}]
  <Some Code Here>;
  <More Code Here>;
  <etc.>
\end{lstlisting}
```

`label` keyword allows you to reference your code, while `caption` creates a caption (Duh!).

## 2 Special functions that you can use

I have written some L<sup>A</sup>T<sub>E</sub>X functions that you can use. All of them are defined in the `./include/custom_comms.tex` file. The possible functions are:

```
|| \makespace % Creates spacing after the \wrapfigure
```

### 2.1 Functions for collaboration

These functions might help you if you are writing a document with someone:

```
|| \fixme{This needs to be fixed! Are you sure this is right?}
```

Result:

**[FIXME: This needs to be fixed! Are you sure this is right?]**

```
|| I have written a long text, and I am not sure if whatever after that is
   important.
|| \ignore{This text although was written will not be shown on the final document.}
|| I have ignored it for now, to see how it would look like without it.
```

Result:

I have written a long text, and I am not sure if whatever after that is important. I have ignored it for now, to see how it would look like without it.

## 3 Included files

### 3.1 Codes

The sample codes are saved in the `./codes/` directory. Currently there is a sample code called `sample.sv`:

Code Listing 1: This is just a sample code

```
1 | `timescale 1ns/1ps
2 | module sample ();
3 |     $display("This is a sample code");
4 | endmodule
```

### 3.2 Images

All the images should be stored in the `./img/` directory. Currently it is empty.

### 3.3 Formatting file

The `src` directory has a formatting reference. Noone follows it anyway:

## Document Formatting

This section describes the formatting in the L<sup>A</sup>T<sub>E</sub>X document

- Input to different forms and file names are in this font
- \$ Terminal\_input\_has -a "\$" -in front

```
1 | always @ (*) begin
2 |     The codes right now are tuned to Verilog;
3 |     Modify the lstlisting to support other languages;
4 | end
```

- Menu  $\Rightarrow$  Navigation  $\Rightarrow$  Has  $\Rightarrow$  arrows
- *Window names* and *“Input form names”* are in italic

### 3.4 Bibliography

The bibliography file is stored in the `./src/` directory. Currently has only a sample reference to [1].

## References

- [1] Luke Skywalker. *"On L<sup>A</sup>T<sub>E</sub>X Formatting"*. Zafar Publishings, 2013.