

ELC 2137 Lab 1: Git and LaTeX Intro

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Summary

In this lab, it talk about two tools that are es-pecially suited for programming. Git is a version con-trol software that helps you keep track of modifica-tions you make to a code project and collaboratewith others on that project. LaTeX is a typesettinglanguage that can produce professional-looking doc-uments and makes including code very easy.

Q&A

1. What is your GitHub user name?

yiting-wang1

2. What LaTeX environment produces a bulleted(non-numbered) list?

The bulleted lists are produced by the itemize environment. Each entry must be preceded by the control sequence `\item`.

3. Write the equation

$$y(t) = 1/2e^t$$

using Latex equation formatting.

$$y(t) = 1/2e^t$$

4. What is the shortcut key for compiling your Latex document?

- F5 – compile to PDF
- Starting typing a command, then use arrows to choose the desired auto-complete command, and press Enter. For example, type `\V` and the first item in the pop-up list should be the `\Verilog` command.
- In tables, TeXstudio will highlight things in red when the number of columns specified doesn't match the number of columns you have in a particular row. Summary: When nothing is red, you have the right number everywhere!
- Text formatting, similar to MS Word:
 - Ctrl+b = **bold**
 - Ctrl+i = *italic*

- Ctrl+Shift+t = `typewriter` (monospaced)
- Ctrl+Shift+i = insert “\item ”
- Standard Windows shortcuts:
 - Ctrl+z = undo
 - Ctrl+y = redo
 - Ctrl+c = copy
 - Ctrl+x = cut
 - Ctrl+v = paste

Results

In this section, put your simulation waveforms, results tables, pictures of hardware, and any other required items.

Code

Binary	Hex	Decimal
0000	0	0
0010	2	2
0100	4	4
0110	6	6
1000	8	8
1010	A	10

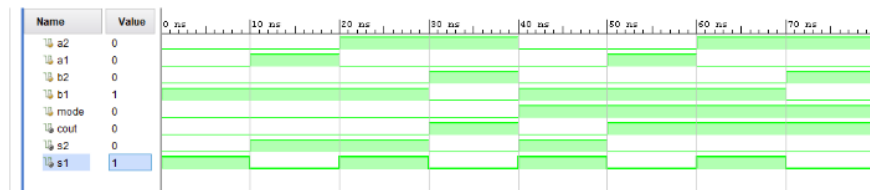


Figure 1: Table and simulation waveform to reproduce

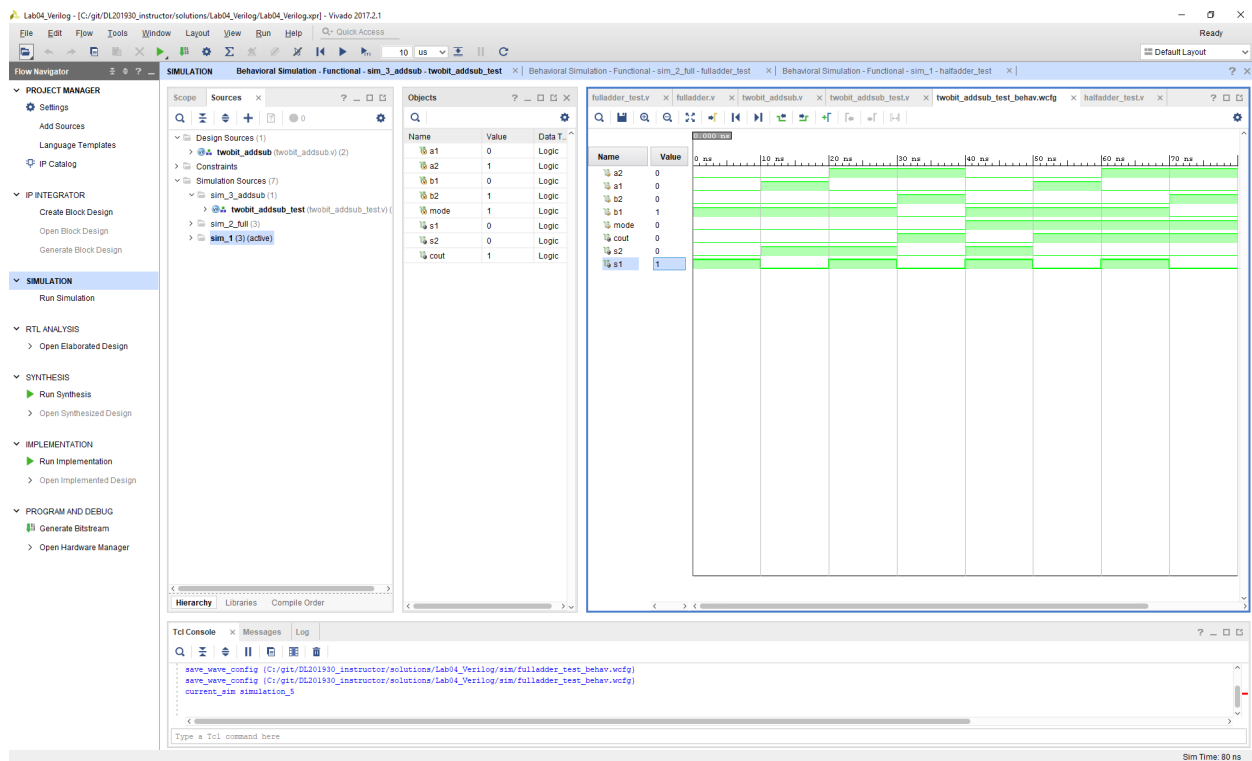


Figure 2: This is the original logo.

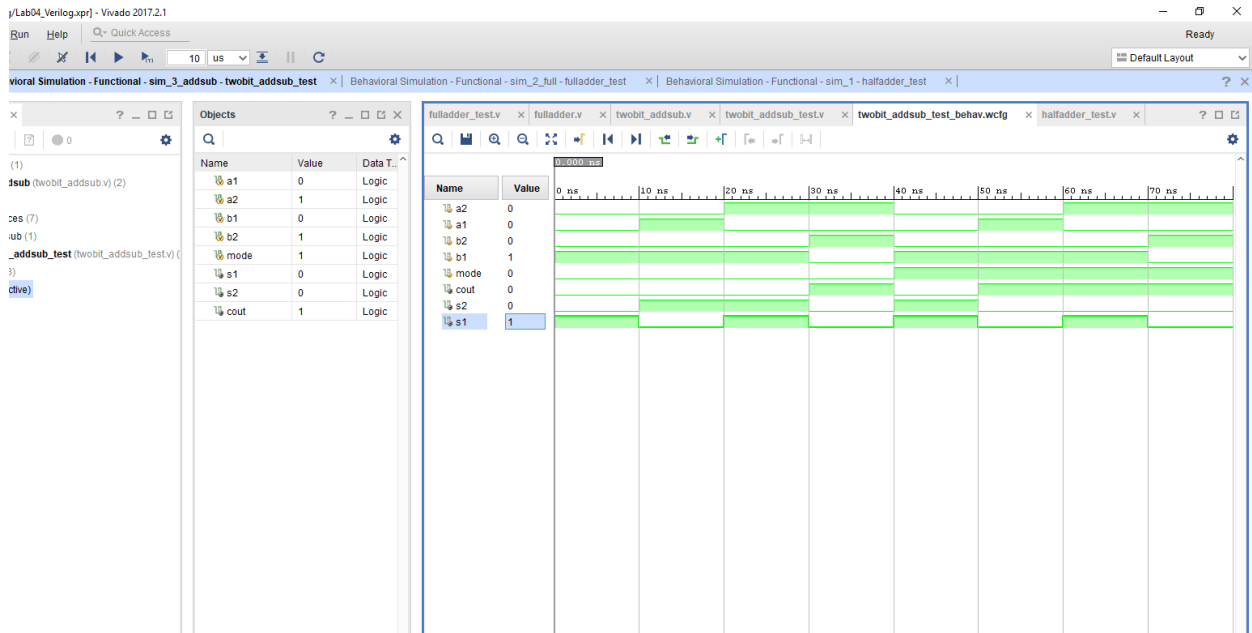


Figure 3: This is the logo cropping the top and bottom.

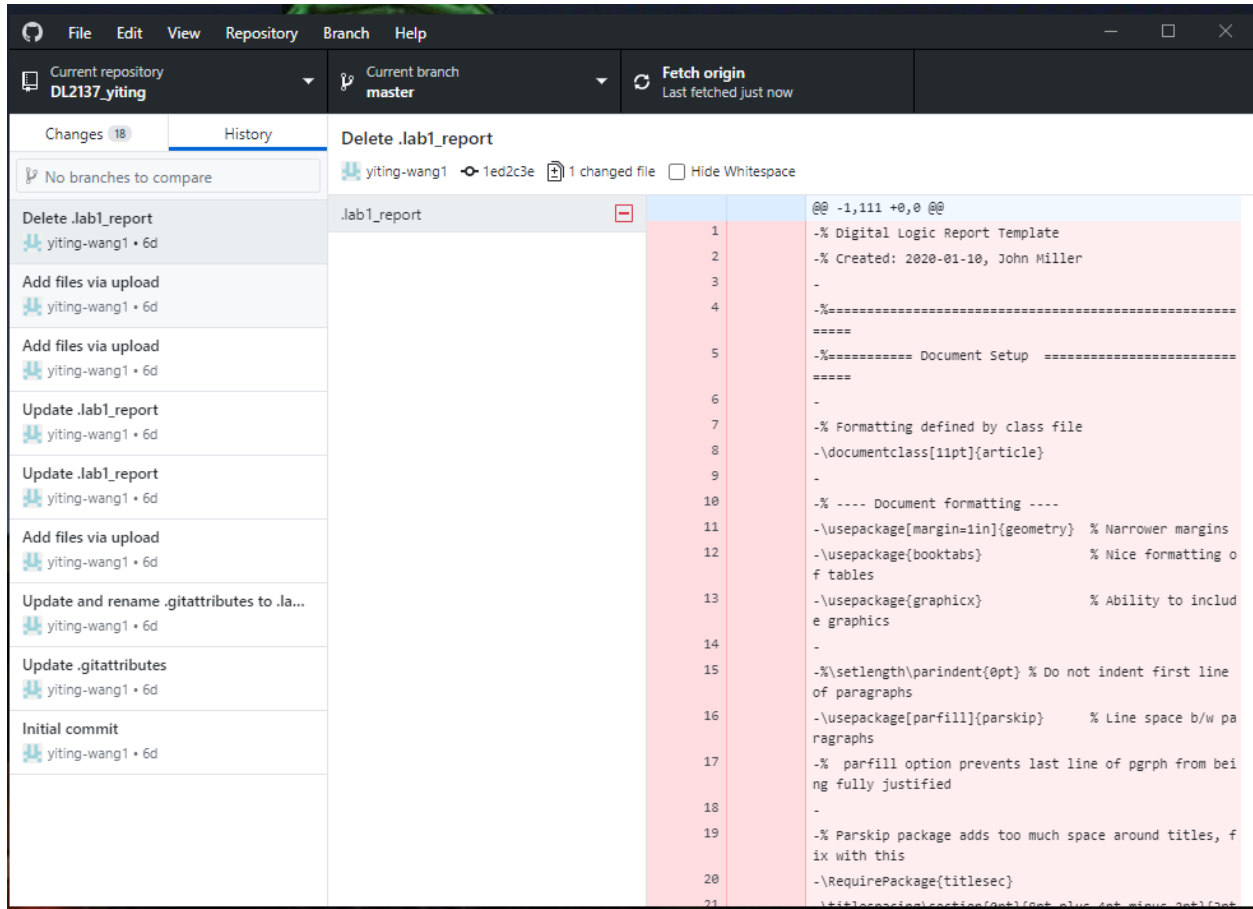


Figure 4: This is the screenshot of the GitHub History tab