

ELC 2137 Lab ##: Lab 1 Git and LaTeX Intro

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January 20, 2020

Summary

The purpose of this lab was to become familiar with GitHub and LaTeX, as they will be used frequently throughout the ELC 2137 course. Following a report format and an example code, students accomplished specific tasks with the help of LaTeX.

Q&A

1. What is your GitHub username?

MakennaMeyers1

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

itemize

3. Write the equation $y(t) = (1/2)e^t$ using LaTeX equation formatting.

$$y(t) = \frac{1}{2}e^t$$

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

F5

Results

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

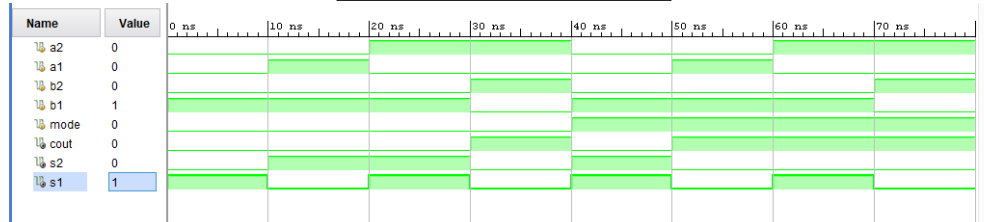


Figure 1: ERT and Simulation Waveform

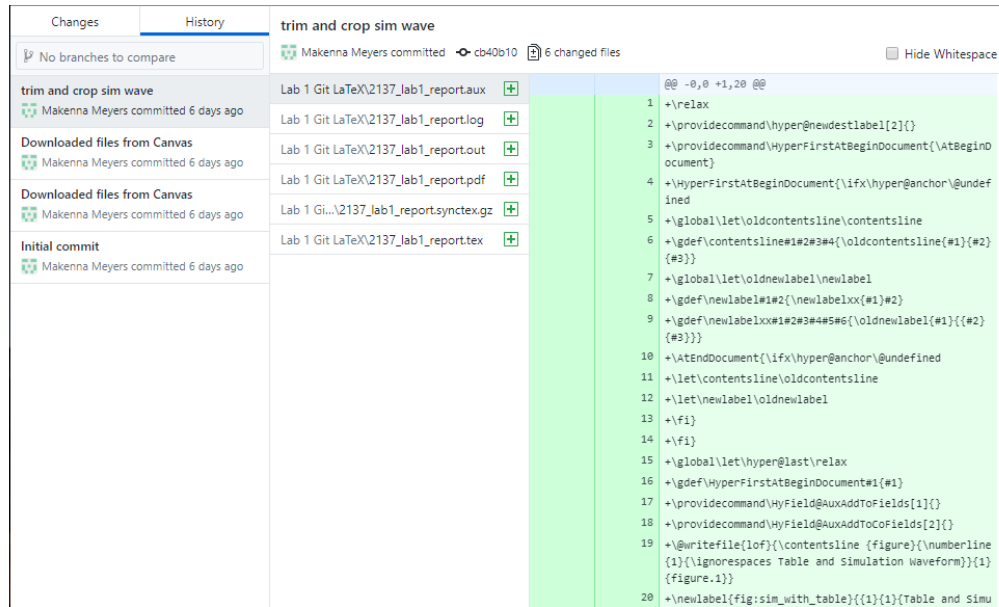


Figure 2: GitHub History

Code

Listing 1: Lab 1 Code

```
module example
  #(parameter BITS=4)
  (
    input [BITS-1:0] in0, in1,
    input sel,
    output [BITS-1:0] out
  );

  // Choose in1 or in0
  out = sel ? in1: in0;
endmodule
```
