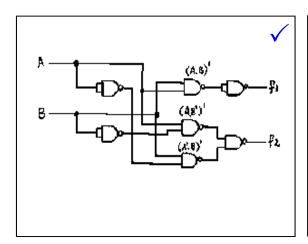
## CS2100 Logic Circuit Guidelines

This is a quick guide on the expected standard of all logic circuit drawing in CS2100. Make sure you follow the guideline while giving answers for the lab and final assessment.

- Please write and draw clearly and neatly. You may use pencil for logic diagrams. Untidy writing or drawing will be penalized.
- Please draw <u>large and neat</u> circuit diagrams. See some real students' samples below.



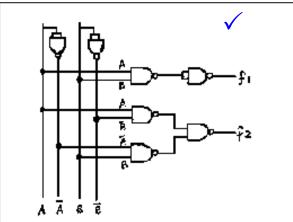
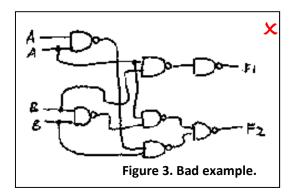
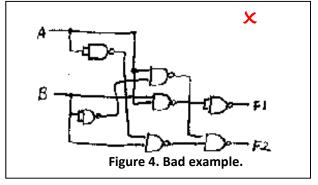


Figure 1. Good example.

Figure 2. Good example.





• For logic diagrams, all lines should be <u>straight</u>. All inputs, outputs and intermediate outputs should be labeled, as shown in Figure 5. Use black dot to indicate a fork.

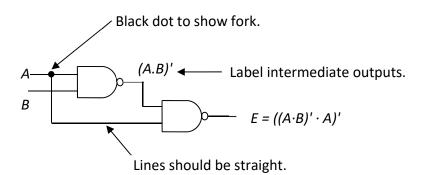


Figure 5.

All inputs of a gate must be fed with some value. You should not leave any input unconnected. For example, to use a 2-input NAND gate as an inverter, here are two correct methods:

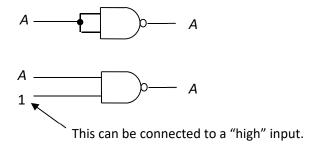


Figure 6.

But this is wrong:

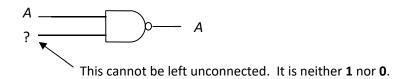


Figure 7.

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