

CS46 Homework 0

This homework is due at 10:00PM on Sunday, January 26. Write your solution using \LaTeX . Submit this homework using **github**. This is a **4 point** homework. (Usual homeworks are 10 points.)

This is an individual homework. It's ok to discuss approaches at a high level, and I encourage you to discuss general strategies. However, you should not reveal specific details of a solution, nor should you show your written solution to anyone else. The only exception to this rule is work you've done with a lab partner *while in lab*. In this case, note (on the post-homework survey) who you've worked with and what parts were solved during lab.

The main **learning goals** of this lab are to familiarize you with \LaTeX , review git, and make sure you know how to grab/handin homeworks using git.

0. Set up git by following these directions.

1. **Getting to know you.**

- (a) Why are you taking CS46?
- (b) What is one hobby you have outside of academics?
- (c) Is there anything I should know about you?

2. **\LaTeX details**

\LaTeX syntax requires that all math is enclosed in dollar signs to be in “math mode”, for example: $f(x) = 9x^2 + 7x - 2$. To have centered math, use double dollar signs:

$$e = m \cdot c^2$$

\LaTeX is extremely flexible and powerful, and also fiddly about its particular syntax.

Write an equation using at least one non-roman symbol¹ here:

- 3. Once you have submitted your final version of this homework, please fill out the post-homework survey.
- 4. **(extra credit)** We will be making a LOT of diagrams this semester, and many will be graphs (the nodes-and-edges sort). Here is a template for one, which is stored in the file **fig1** in your repo.

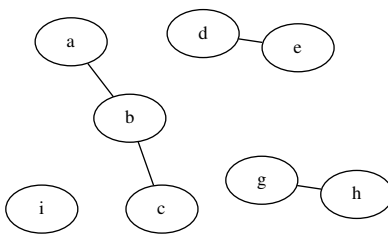


Figure 1: This is a caption for the figure!

Change some labels, add some edges, and add a caption. Re-run **make** to recompile the diagram. If you're interested in learning more about how the **fig1** file works, check out GraphViz.

¹I suggest using Greek letters, which we'll see a lot this semester, but you can also find almost any imaginable symbol at the Comprehensive \LaTeX Symbol List. Pick a cool one!