CS 193 Homework 5

Ishya Jalla

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1 Why LaTex is Amazing

There exist a lot of reasons why LaTex is an amazing utility. This assignment hopes to detail a few of those reasons.

1.1 It is not Microsoft Word

LaTex is completely free to use! The same can not be said about Microsoft Word.

1.2 There are tons of packages!

With LaTex, you can install hundreds of packages to use with your document. This gives you a great degree of customization that isn't found with Word processors. The possibilities are endless, "All you need is a box, and imagination."



1.2.1 Package Examples

There are some useful packages for LaTex that you might want to learn later. Make sure you make the package title bold when typing this list!

2 Examples of Math Equations Expressions

In LaTex, mathematical expressions can be placed in line, like this: $4 \div x = 2$. They can also be on a new line, like this:

$$\pi < 4$$

2.1 Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

2.2 Mean Formula

$$\bar{x} = \frac{\sum_{i=i}^{n} x_i}{n}$$

2.3 Integral of Inverse Sin

Hint: Use \setminus , (backslash and comma) to create a space between x and dx

$$\int \sin^{-1} x \, dx = x \sin^{-1} x + \sqrt{1 - x^2} + C$$