

1. Semester and Year : 2012 FALL
2. Course Number : CS-227
3. Course Title : Linux & System Software
4. Work Number : LA-12
5. Work Name : Presentation Draft
6. Work Version : Version1
7. Long Date : Thursday, 28, November, 2012
8. Author(s) Name(s) : Jake Waffle

## **Introduction**

### **History**

- I'll briefly mention how LaTeX derives from Tex.
- I also want to just give a general description of what LaTeX is, with emphasis towards it being a programming language.

### **Thesis**

- I'll be talking about how to use LaTeX for three different tasks: Mathematics, Essays/Research Papers and UML.

## **Body**

### **Text Editor Versus Compiler**

- I'll get everyone to download a text editor and the LaTeX compiler.
- Then I'll talk about how a text editor may be linked to the compiler, but is still a separate thing.
- I'll go over how to compile a LaTeX file and convert it to a pdf.

### **Similarities to other Programming Languages**

- Extensions can be included into a file.
- An extension can be used by a file if it is in the same directory.

### **Mathematics**

- I'll be talking about the American Mathematical Society's extensions for LaTeX (amssymb.)
- How are equations written in LaTeX.
- How are special symbols used.

### **Essays**

- I'll basically show how to use the preset template that handles the formatting.
- And how to do all the things that a student might need for a school paper.

### **UML**

- I found this MetaUML extension and I would like to go over how to use LaTeX to create visual representations for one's program.
- I really want to hit how to display classes and also show the general flow of code in a program.

## Conclusion

### **Restating the Thesis (with suggestions for what to use the learned skills for)**

- Here I'd like to tell everyone that they may be able to use LaTeX for their math assignments (as Brian and Dan are familiar with LaTeX.)
- It can be used for designing programs and displaying a representation that isn't harmful to the eye. Which can be good for larger team projects that we will have to be doing in higher-level Computer Science classes.
- It also can be used for writing papers for English or any other class asking for a research paper.