

# A Brief Overview of L<sup>A</sup>T<sub>E</sub>X

The TAs

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## Abstract

A tutorial of L<sup>A</sup>T<sub>E</sub>X is presented. The format of a lab report in L<sup>A</sup>T<sub>E</sub>X is discussed. Fronts and greek letters are shown to be within the capabilities of this software. Equations, figures, and tables are also created.

## 1 Introduction

This is where you write your lab report. You can do all kinds of fun things like **Bold**, *italic*, underlined,  $a_{\text{subscript}}$ ,  $a^{\text{superscript}}$ , and an inline equation  $f(x) = \sin(\omega t)$ . I can also write equations separately in their own line.

$$F = \int \int_0^\infty B_\nu d\nu d\Omega \quad (1)$$

And write a multiple series of equations and align the '=' sign for each line.

$$y = e^x + \sqrt{x} \quad (2)$$

$$\frac{dy}{dx} = e^x + \frac{1}{2}x^{-1/2} \quad (3)$$

I can also write greek letters is this:  $\alpha\beta\Gamma\delta\sigma\zeta\xi$ . Also, L<sup>A</sup>T<sub>E</sub>X uses some special characters to denote things like equations so to display them normally you need to put a \ before the character (e.g. \$, %) although the backslash character itself is even more special. You'll probably also want to include figures in your lab report. Figures are tricky business in L<sup>A</sup>T<sub>E</sub>X, but see Fig. 1 as an example of how to create and reference them. You can also reference equations: see Equation 1.

## 2 Another Section

You'll want to break up your report into sections to improve the clarity and structure of your paper.

### 2.1 Subsections

You can even use subsections if you want.

#### 2.1.1 Yes these exist

Yup.

## 3 Tables

Table 1 shows how it can organize your results.

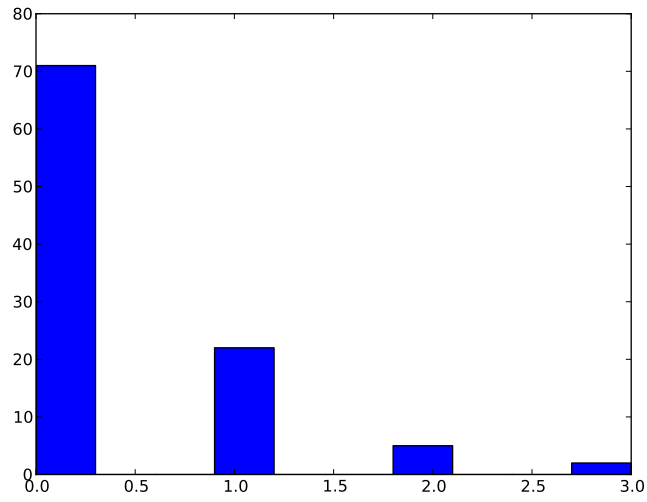


Figure 1: A hastily constructed image to show how to include a figure in a lab report.

Left	Right
Bottom Left	$x^2$

Table 1: A basic 2x2 table