Using latex

Matthew Stone

November 9, 2004

1 Introduction

Since latex is a programming language, you start by including the definitions you need to get started.

2 What you use a lot

The things that you use a lot are:

1. Lists that allow you to structure parts of a document. So this enumerate environment creates a numbered list.

2. Math mode. Math mode is a set of special commands that let you typeset structured formulas. To display math do this:

\[
X = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \begin{pmatrix} y^2 \\ c \end{pmatrix}
\]

3. Crossreferences within a document. For example, this document has three sections, Section 1 is the introduction. Section 2 talks about the commands you use a lot. Section 3 talks about making your own commands.

3 Defining your own commands

If you’ve defined notation, you should be able to use it.

\[
Z = \frac{X}{Y}
\]
Here’s an example. If you just type Zis my measurement, there will be a space missing. If you want the space there, you should type Z to insert a real space. What about if you try it twice? You get Z whose appearance we will have to discover.