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# Using latex

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## 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:

$$X = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} y^2 c_a$$

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.

$$\mathbf{Z} = \frac{X}{Y}$$

Here's an example. If you just type **Z**is 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.