

“Hands on” L^AT_EX is not for me Examples

Pedro Inácio

October 2009

Abstract

The purpose of this document is to provide some insight on how L^AT_EX works.

Contents

1	Introduction	2
2	Example of a Section Heading	2
2.1	Example of a Sub-Section Heading	2
2.1.1	Example of a Sub-Sub-Section Heading	2
3	Numbering and Bulleting	2
4	Figure with Caption	3
5	Cross-Referencing	4

List of Figures

1	Caption of this very figure.	3
---	--------------------------------------	---

List of Tables

1	Simple Table with Caption	3
---	-------------------------------------	---

1 Introduction

This document was constructed “on-the fly” during a talk about L^AT_EX.

2 Example of a Section Heading

Text included in this section. Sub-section

2.1 Example of a Sub-Section Heading

Text included in this sub-section. Sub-sub-section

2.1.1 Example of a Sub-Sub-Section Heading

Text included in this sub-sub-section. Paragraph

Example of a Paragraph Heading Text of paragraph. SubParagraph (do not mention this)

Inserting a numbered equation or mathematical expression is simple:

$$P(X = x) = \frac{\alpha x_m}{x^{\alpha+1}}, \alpha > 0, x \geq x_m > 0. \quad (1)$$

Inserting an inline mathematical expression is done by defining the expression within the text using `$expression$`. Example:

The Pareto probability density function is given by $P(X = x) = \frac{\alpha x_m}{x^{\alpha+1}}$, where $\alpha > 0$ and $x \geq x_m > 0$.

3 Numbering and Bulleting

Buy the following stuff:

- Fruit;
- Tuna;
- Cerveja...

The following three items are obligatory:

1. Vodka;
2. Xixa;
3. Cocaine.

Lists are created using the following environments:

- This is the first item;
- This is the other item;
- + This is the first item;

+ This is the other item;

List environments may be cascaded:

- The following sub-items are numbered:
 1. This is the first item;
 2. This is the other item;
- This is the other item;

4 Figure with Caption

This section only contains a figure.

Example 6 – Figure with Caption

```
\section{Figure with Caption}
\label{secFig}

This section only contains a figure.

\begin{figure}[!ht]
  % Requires \usepackage{graphicx}
  \centering
  \label{figExample}

  \includegraphics [width=0.85\textwidth]{fig1.pdf}\

  \caption{Caption of this very figure.}
\end{figure}
```

Figure 1: Caption of this very figure.

1	2	3
4	5	6
7	8	9

Another table...

Table 1: Simple Table with Caption

1	2	3
4	5	6

5 Cross-Referencing

I hereby state that expression (1), included in subsection 2.1.1, defines the probability density function of the Pareto distribution.