

# “Hands on” L<sup>A</sup>T<sub>E</sub>X is not for me Examples

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## Abstract

The purpose of this document is to provide some insight on how L<sup>A</sup>T<sub>E</sub>X works.

## 1 Introduction

This document was constructed “on-the fly” during a talk about L<sup>A</sup>T<sub>E</sub>X.

## 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.