

# IEEE UP SB Code Week Workshop

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## Abstract

In the abstract, one should explain very briefly the content of the paper.

## 1 Introduction

Your introduction goes here! Some examples of commonly used commands and features are listed below, to help you get started.

## 2 Some L<sup>A</sup>T<sub>E</sub>X Examples

### 2.1 How to Include Figures

Use the `includegraphics` command to include images. Use the `figure` environment and the `caption` command to add a number and a caption to your figure.

So if I remember correctly, figure 1 is L<sup>A</sup>T<sub>E</sub>X.

### 2.2 How to Make Tables

Use the `table` and `tabular` commands for basic tables — see Table 1, for example.

### 2.3 How to Make Sections and Subsections

Use section and subsection commands to organize your document. L<sup>A</sup>T<sub>E</sub>X handles all the formatting and numbering automatically. Use `ref` and `label` commands for cross-references.

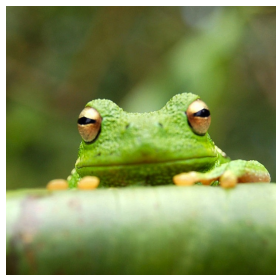


Figure 1: These gloves are made of L<sup>A</sup>T<sub>E</sub>X

Item	Quantity
Widgets	42
Gadgets	13

Table 1: An example table.

## 2.4 How to Make Lists

You can make lists with automatic numbering ...

1. Like this,
2. and like this.

...or bullet points ...

- Like this,
- and like this.

...or with words and descriptions ...

**Word** Definition

**Concept** Explanation

**Idea** Text

## 2.5 How to Write Mathematics

L<sup>A</sup>T<sub>E</sub>X is great at typesetting mathematics. Let  $X_1, X_2, \dots, X_n$  be a sequence of independent and identically distributed random variables with  $E[X_i] = \mu$  and  $\text{Var}[X_i] = \sigma^2 < \infty$ , and let

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{1}{n} \sum_i^n X_i$$

denote their mean. Then as  $n$  approaches infinity, the random variables  $\sqrt{n}(S_n - \mu)$  converge in distribution to a normal  $\mathcal{N}(0, \sigma^2)$ .

## 2.6 How to add Citations and a References List

You can upload a `.bib` file containing your BibTeX entries, created with JabRef; or import your Mendeley, CiteULike or Zotero library as a `.bib` file. You can then cite entries from it, like this: [Gre93]. Just remember to specify a bibliography style, as well as the filename of the `.bib`.

You can find a video tutorial here to learn more about BibTeX.

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## 2.7 Code Snippets

```
1 #include <iostream>
2
3 //Hello, World!
4 int main()
5 {
6     std::cout << "Hello, world!\n";
7 }
```

## 3 Conclusions

Everybody loves conclusions.

## References

- [Gre93] George D. Greenwade. The Comprehensive Tex Archive Network (CTAN). *TUGBoat*, 14(3):342–351, 1993.