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April 4, 2024

Abstract

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Acknowledgements

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Abbreviations

LHS Left Hand Side

RHP Right Hand Side

1 What is L^AT_EX?

L^AT_EX is a typesetting system that allows you to focus on the content of your document rather than its appearance.

2 Basic Elements of a L^AT_EX Document

Here is a list of some of the basic elements you'll often see in L^AT_EX documents:

- Document class declaration: This is where you specify the type of document (like article, book, etc.).
- Packages: L^AT_EX packages add extra functionality to L^AT_EX.
- Body: The body of the document is enclosed inside the `\begin{document}` and `\end{document}` commands.

3 Creating Sections and Subsections

Use `\section{Section Heading}` to create a section. For subsections, use `\subsection{Subsection Heading}`.

4 Adding Images

To include images in your document, you need to use the 'graphicx' package. Then you can use the `\includegraphics` command to include your image. For example,

```
\begin{figure}[h]\includegraphics[width=\textwidth]{file.jpg}\caption{Image Caption}\end{figure}
```

5 Creating Equations

There are multiple ways to add equations in L^AT_EX. A simple way is to use the 'amsmath' package and use `\begin{equation} ... \end{equation}` environment. For example,

```
\begin{equation}\end{equation}
```

$$E = mc^2 \tag{1}$$

6 Creating Tables in L^AT_EX

Tables in L^AT_EX can be a bit more complex, but here's a simple example:

Header 1	Header 2
Item 1	Item 2
Item 3	Item 4

Table 6.1: A Simple Table

7 Referencing Figures, Tables, and Sections

As shown in Table 6.1 and Figure 7.1, \LaTeX allows cross-referencing figures, tables, and sections. Make sure to add a label after the caption like this:

```
\caption{A Simple Table}  
\label{table:1}
```

Here is a figure for demonstration:



Figure 7.1: A sample image

Now you can refer back to these labels in your text using `\Cref`.

8 Creating a Bibliography

A document often has a bibliography. Though there are a few methods to add one, we will use BibTeX in this example. Suppose we have a BibTeX file called `references.bib` with an entry:

```
@book{latexcompanion,  
author   = "Michel Goossens and Frank Mittelbach and Alexander Samarin",  
title    = "The \LaTeX\ Companion",  
year     = "1993",  
publisher = "Addison-Wesley",  
address  = "Reading, Massachusetts"  
}
```

To cite this source in your document, use `\cite{key}`, where `key` is the BibTeX entry key. Like so: [1]. Don't forget to reference your `.bib` file at the end of your document with:

```
\bibliography{references}
```

And choose your style with `\bibliographystyle{style}`. e.g.

```
\bibliographystyle{plain}
```

9 Conclusion

Please replace the placeholder content with your actual content. This is just a starting point and \LaTeX offers a far more rich set of features.

References

- [1] Michel Goossens, Frank Mittelbach, and Alexander Samarin. *The L^AT_EX Companion*. Addison-Wesley, Reading, Massachusetts, 1993.

Appendix A

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