

An Example of L^AT_EX

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Abstract

This file will serve as an introduction to L^AT_EX and a template for your papers in this course

1 Introduction

L^AT_EX is a popular typesetting environment based upon the T_EX language. T_EX was created by Donald Knuth[3]. L^AT_EX was created by Leslie Lamport[4]. Both are very famous computer scientists.

L^AT_EX belongs to a set of languages called “Markup Languages.” Markup languages use descriptions embedded into text to indicate how that text should be displayed. Another common markup language is HTML.

The interesting thing about L^AT_EX is that it’s files are compiled. You provide source written in L^AT_EX and you pass it to a program appropriately called `latex` which then produces a `.dvi` (**DeVice Independent**) file which can be rendered with an appropriate viewer. Ultimately however, you probably want to produce a PDF, and to do this there are several ways. The easiest is to use the command `pdflatex` instead of `latex`.

2 Random Sherlock Holmes Quote

Gregory: “Is there any other point to which you would wish to draw my attention?”

Holmes: “To the curious incident of the dog in the night-time.”

Gregory: “The dog did nothing in the night-time.”

Holmes: “That was the curious incident.” [1]^{1 2}

3 Input Files

- `.tex` files are the source markup for your papers.
- `.bib` files are the source for your bibliography entries.
- `.bst` files are the format for the citations (supplied, do not edit!)

4 Commands

```
pdflatex example.tex
```

```
bibtex example
```

```
pdflatex example.tex
```

```
pdflatex example.tex
```

Produced this document.

4.1 Play by Play

The above 4 commands do the following:

¹Notice the difference between a citation and a footnote.

²Use footnotes sparingly!

1. does the initial build, including creating a list of citations that need to be looked up
2. builds the bibliography database
3. inserts the bibliography
4. makes sure that the cross-references are correct

4.2 urlbst

To cite urls [2], make sure your bibliographystyle is set to `plainurl`, the file `plainurl.bst` is in the directory with your files, and then following the example:

```
@webpage {urlbst,  
title={Urlbst},  
author={Norman Gray},  
url={http://nxg.me.uk/dist/urlbst/},  
lastchecked={Saturday, June 03, 2006}  
}
```

Title and url fields required. Author, note, year, month, and lastchecked fields optional.
please also put a

```
\usepackage{hyperref}
```

at the top of your document so that the hyperlink work in the generated pdf.

References

- [1] Arthur Conan Doyle. Silver blaze. *The Memoirs of Sherlock Holmes*, 1892.

- [2] Norman Gray. `Urlbst` [online, cited Saturday, June 03, 2006]. Available from: <http://nxg.me.uk/dist/urlbst/>.
- [3] Donald E. Knuth. *The TeXbook*. Addison-Wesley, Reading, Massachusetts, 1984.
- [4] Leslie Lamport. *LaTeX: A Document Preparation System*. Addison-Wesley, 1986.