

# L<sup>A</sup>T<sub>E</sub>X

James Killick

March 18, 2007

## Introduction

What is L<sup>A</sup>T<sub>E</sub>X?

## Getting L<sup>A</sup>T<sub>E</sub>X

## Creating a document

A simple document

Document types

Pre-defined constants

Sections and Subsections

Accents

Images

## Compiling the files

Output

## Recommended Reading

## Comments/Questions?

# What is $\text{\LaTeX}$ ?

$\text{\LaTeX}$  is a language used to make formatted documents. It is mainly used by people in the science domain.

# Getting L<sup>A</sup>T<sub>E</sub>X

## Windows

MikTeX - <http://www.miktex.org/>

## Linux

Depends on your distribution - most of the time it is already packaged

## Mac OS X

MacTeX - <http://www.tug.org/mactex/>

# A simple document

```
\documentclass[12pt,a4paper]{article}
\title{}
\author{}
\date{}
\begin{document}
\end{document}
```

# Document types

```
\documentclass[12pt,a4paper]{article}  
\documentclass[12pt,a4paper]{report}  
\documentclass[12pt,a4paper]{book}
```

# Pre-defined constants

```
\maketitle  
\tableofcontents  
\LaTeX{}
```

# Sections and Subsections

```
\section{<section name>}  
\subsection{<section name>}
```



# Accents

```
\documentclass[12pt,a4paper]{article}
\usepackage[french]{babel}
...
\begin{document}
\'a \'a ^a "a \oe \ae \c{c}
\end{document}
```

Produces á à â ä œ æ ç

# Images

```
...  
\usepackage[pdftex]{graphicx}  
...  
\begin{figure}[htbp]  
\begin{center}  
\includegraphics{flag.jpg}  
\caption{the welsh flag}  
\label{flag}  
\end{center}  
\end{figure}
```

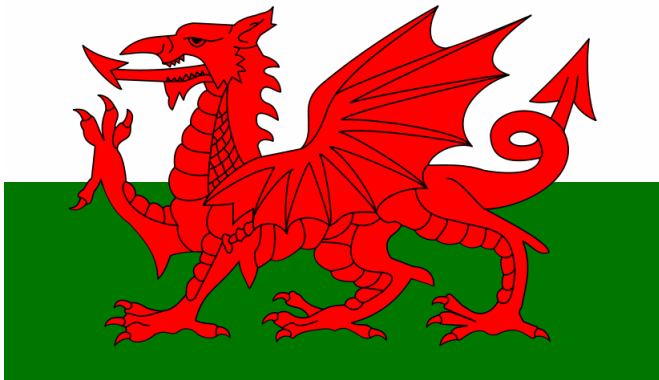


Figure: The welsh flag

## Compiling the files

If you use a L<sup>A</sup>T<sub>E</sub>X application.

In bash you can type `pdflatex <FileName>.tex.`

# Output

A .pdf file should appear in that folder which you can open with Adobe Acrobat or a pdf reader of your choice.

## Recommended Reading

The Not So Short Introduction to L<sup>A</sup>T<sub>E</sub>X, by *Tobias Oetiker, Hubert Partl, Irena Hyna, Elisabeth Shlegl,*

# Comments/Questions?

Don't be afraid - if you have any comments/questions regardless of how silly you think they are - fire away