LaTeX - the Most Common Commands

Fredrik Sahlin

Div. of Machine Elements, LTU 2004

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Common Commands
Nomenclature

Useful Commands
Environments
Cross References, Bibliography and Nomenclature

Document Class

Valid LaTeX document classes include:

- article

- report

- letter

- book

- slides

Other document classes are often available.
They are selected with the command:
\documentclass[options]{class}

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Special Characters

$ % & ~ _ ^ \ { }
Can be escaped by \ in front except \ itself
which is escaped by $\backslash$

- # Used to define use of arguments

- $ Math environment

- % Comments

- & Separate items in array and tabular

- ~ Non-breaking space

- _ Subscripts

- ^ Superscripts

- \ { and } Used in command definitions

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Useful Commands

- \footnote{text} - Places a footnote at the bottom of the page
- \maketitle - Creates a title page
- \tableofcontents - Inserts a table of contents
- \appendix - The \section{...} commands will be formatted as appendixes
- \include - Conditionally include a file
- \input - Unconditionally include a file
- \cleardoublepage - Makes the next page a right-hand (odd-numbered) page
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Sections

- \section{Some section} - An ordinary section

- \subsection{Some subsection} - An ordinary section

- \section*{Some section} - A section without numbering

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Common Environments, Math Related

- math or $...$ - Formula env that appear right in the text

- displaymath - Formula env that appear on their own line

- equation - Same as above but with equation numbering

- array - Math arrays

- eqnarray - Sequences of aligned equations with numbering

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Useful Commands
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Common Environments, Other

- figure - Floating figures

- table - Floating tables

- tabular - Align text in columns

- verbatim - Print-as-it-looks (typewriter style)

- verb+ text + - Print-as-it-looks inside text (typewriter style)

- itemize - Bulleted list env. Item is specified with \item

- enumerate - Enumerated list env. Item is specified as \

- center - A centered paragraph

- \centering - Does not start a new paragraph

- thebibliography - Bibliography or reference list

- titlepage - For hand crafted title pages

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Cross References

- \label{key} - Assigns the number of the environment to the key

- \pageref{key} - Refer to a page number

- \ref{key} - Refer to a section, figure or similar

Example:
...see Fig. \ref{key} on page \pageref{key}...
...see Fig. 14 on page 23...

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Linked Cross References in PDF

The command in the preamble:
\usepackage[hyperindex,pdfmark]{hyperref}
Will make the cross references clickable in the PDF file

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BibTeX

For powerful bibliography handling. BibTeX uses database files
with suffix .bib on the format:

```
@Article{arghir,
  author =      {M. Arghir and N. Roucou and M. Helene and
  title =       {Theoretical Analysis of the Incompressibl
  journal =     {Journal of Tribology},
  year =        2003,
  volume =      125,
  pages =       {309-318},
  month =       {April}
}
```

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BibTeX

Just type \cite{arghir} to refer to the article

And if you want "References" to appear in the TOC:

\addcontentsline{toc}{section}{References}

To specify the .bib files:

\bibliography{reference/cfd,reference/tribo}

The bibliography is included with:

\bibliographystyle{unsrt}

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Example: ...Arghir, et al. [1] report a...

📄 M. Arghir, N. Roucou, M. Helene, and J. Frene.
Theoretical analysis of the incompressible laminar flow in a
macro-roughness cell.
Journal of Tribology, 125:309–318, April 2003.

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Nomenclature

The package nomencl provides nomenclature lists:

```
\usepackage[norefeq]{nomencl}
\makeglossary
```

To define a nomenclature entry in the text, write e.g.:

```
\begin{equation}
 Re=\frac{\mathcal{LU}}{\nu}
\end{equation}
 \nomenclature{$x$, $y$, $z$}{Coordin... \nomunit{m}}
```

And if you want "Nomenclature" to appear in the TOC:

```
\addcontentsline{toc}{section}{Nomenclature}
```

The nomenclature is included with:

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\printglossary
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`\nomenclature{$x$, $y$, $z$}{Coordin... \nomunit{m}}`

And if you want "Nomenclature" to appear in the TOC:

`\addcontentsline{toc}{section}{Nomenclature}`

The nomenclature is included with:

`\printglossary`

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Nomenclature

Useful Commands
Environments
Cross References, Bibliography and Nomenclature

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The package nomencl provides nomenclature lists:

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To cope with the units, create a command in the preamble like:

\newcommand{\nomunit}[1]{\renewcommand%
{\nomentryend}{\hspace*{\fill}#1}}

Nomenclature

Example:

u	(u, v)	m/s
u, v	Velocity in x- and y-direction respectively	m/s

Applications

- >latex file.tex - Produces a viewable device-independent .dvi file

- >bibtex file - To compile the bibliography

- >makeindex file.glo -s nomencl.ist -o file.gls - To compile the indexing (nomenclature)

- >latex file.tex - Run LaTeX again two times to be sure to get correct references

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Further Documentation

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Next Lesson(s)

- LaTeX and Figures
- LaTeX and PSfrag

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Assignment

Make a LaTeX document containing:

1. **Sections**
2. Equations
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Good for now

Go further LATEXing so we can have even more fun later!