Short introduction to LaTeX Dr. G. H. J. Lanel

Outline

Learning LaTeX

Dr. G. H. J. Lanel

March 23, 2017

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- T_EX is a low-level markup and programming language, created to typeset documents attractively and consistently.
- LATEX is a package based on TEX, its purpose is to simplify TeX typesetting.
 - LATEX is a high-quality typesetting system.
- It includes features designed for the production of technical and scientific documentation. Today widely used for publications.

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You can't see the final result straight away.

Everything is controlled with written commands.

The document is written in a self-chosen text editor and saved in a .tex-file and finally converts .tex-file into a .pdf/dvi-file.

Advantages:

- The layout, fonts, tables etc. are consistent throughout.
- Mathematical formulae can be easily typeset.
- Indexes, footnotes and references are generated easily.

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| 2 MiKTeX |
| Mac OS X: |
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- 2 LATEX-binaries

3 Output viewer for DVI/PDF files

Windows:

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 MiKTeX

Mac OS X:

1 TeXShop

2 MacTeX or TeX-live

Linux:

Emacsen, gvim, Texmaker, Kile
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The structure of a .tex-file:

\documentclass [12pt] { article }

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begin{document }

% Document text

. . .

. . .

\end{document }

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The document class command:

documentclass [options] {class}

Example:

. . [a4paper , twoside , twocolumns] {article}

or

documentclass [1 1 pt , a4paper , oneside] { report}

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Some document classes: article, report, letter, beamer book

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Title

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Title (inserted right after\begin{document}):

\title {Introduction to LaTeX}

 $\ \$ author {[Your name]} $\ \$

\date {\today}

maketitle

ntroduction to LaTeX Your name March 23, 2017

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Title

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 $\ \$ author {[Your name]} $\ \$

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maketitle

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Document structure Sections and hierarchy

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Sectioning commands:

part { title}

chapter { title }

section { title}

\subsection { title}

\subsubsection { title}

\paragraph { title}

\subparagraph { title}

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Sectioning commands: \part { title}

 $\mathbf{Chapter} \{ title \}$

\section { title}

\subsection { title}

\subsubsection { title}

\paragraph { title}

subparagraph { title}

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Conclusions

This article has nine sections and some subsections so, we need to use $\$ section { title} and $\$ subsection { title} commands.

For example if we look at the 7th section of the article we can write it as follows:

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section { Special Symbols }

\subsection { Common Greek letters}

% Document text

\subsubsection {Special symbols}

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section { Special Symbols}

\subsection { Common Greek letters}

% Document text

\subsubsection {Special symbols}

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\ **section** { Special Symbols }

\subsection { Common Greek letters}

% Document text

. . .

. . .

\subsubsection {Special symbols}

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So, we can obtain the following output.

6 Special Symbols

6.1 Common Greek letters

These commands may be used only in math mode. Only the most common letters are included here.

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 $\alpha,\beta,\gamma,\Gamma,\delta,\Delta,\epsilon,\zeta,\eta,\theta,\Theta,\kappa,\lambda,\Lambda,\mu,\nu,\xi,\Xi,\pi,\Pi,\rho,\sigma,\tau,\phi,\Phi,\chi,\psi,\Psi,\omega,\Omega$

6.2 Special symbols

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Document text placed between

\begin {document} and \end {document} ■ Line break : \ \ (2*backslashes)

Paragraph separation : Two breakspaces (2*enter)

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```
Line of comment : Begins with %
```

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Line of comment : Begins with %
```

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We can skip some space by using commands such as

\bigskip \medskip \smallskip \vspace{1pc}

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The space can be negative.

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\$ math \$: Math in text paragraph

```
\section{Equations}
```

Let us see how easy it is to write equations

```
$\Delta =\sum_{i=1}^N w_i (x_i - \bar{x})^2 $ .
```

It is a good idea to number equations, but we can have an equation without a number by writing.

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Then the output will be as follows:

2 Equations

Let us see how easy it is to write equations, $\Delta = \sum_{i=1}^{N} w_i (x_i - \bar{x})^2$. It is a good idea to number equations, but we can have a equation without a number by writing.

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\ begin{equation} math \end{equation}:
 Math centered, separated from text and labeled

```
\section{Equations}
```

Let us see how easy it is to write equations.

```
\label{eq:login} $$ \equation} $$ Delta = \sum_{i=1}^N w_i (x_i - \bar_{x})^2 . \equation} $$ \equation} $$
```

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Then the output will be as follows:

2 Equations

Let us see how easy it is to write equations.

$$\Delta = \sum_{i=1}^{N} w_i (x_i - \bar{x})^2.$$
 (1)

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We can also have an equation without a number by writing using the following command.

Then the output will be as follows:

$$P(x) = \frac{x-a}{b-a}$$

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We can give an equation a label so that we can refer to it later, using the command \label{...} when writing the equation and then ~ \eqref{...} command in the paragraph to refer the equation.

```
\begin{equation}
\label{eq:ising}
E = -J \sum_{i=1}^N s_i s_{i+1} ,
\end{equation}
```

Equation~\eqref{eq:ising} expresses the energy of a configuration of spins in the Ising model.

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Then the output will be as follows:

 $E = -J\sum_{i=1}^{N} s_i s_{i+1},$

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Equation (2) expresses the energy of a configuration of spins in the Ising model.

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We also can align several equations using the following commands:

\begin{align }

 $\begin{array}{l} a\& = b \setminus \\ c\& = d. \end{array}$

\end{align } Then we get the following output

$$a = b$$
$$c = d,$$

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Examples of more complicated equations:

$$I=\int_{-\infty}^{\infty}f(x)\,dx$$

In order to obtain the above equation we have to use the following commands.

```
\begin{equation*}
I = \! \int_{-\infty}^\infty f(x)\,dx
\label{eq:fine}.
\end{equation*}
```

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$$m(T) = \begin{cases} 0 & T > T_c \\ \left(1 - [\sinh 2\beta J]^{-4}\right)^{1/8} & T < T_c \end{cases}$$

In order to obtain the above equation we have to use the following commands.

```
\begin{equation*}
\label{eq:mdiv}
m(T) =
\begin{cases}
0 & \text{$T > T_c$} \\
bigl(1 - [\sinh 2 \beta J]^{-4} \bigr)^{\! 1/8}
& \text{$T < T_c$}
\end{cases}
\end{equation*}</pre>
```

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$$\mathbf{T} = \begin{pmatrix} T_{++} & T_{+-} \\ T_{-+} & T_{--} \end{pmatrix},$$

In order to obtain the above matrix we have to use the following commands.

```
\begin{align*}
  \textbf{T} &=
  \begin{pmatrix}
  T_{++} \hfill & T_{+-} \\
  T_{-+} & T_{--} \hfill
  \end{pmatrix} , \nonumber \\
  \end{align*}
```

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■ Free, floating objects; position is only partly defined by the user (here, bottom, top, p: separate page).

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- Automatically numbered, label used for referencing.
- Captions can be added.

Float syntax:

 $\ \$ begin { figure or table } [placement specifier]

... figure contents ...

or table }

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... figure contents ...

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... figure contents ...

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- Automatically numbered, label used for referencing.
- Captions can be added.

loat syntax:

 \setminus begin { figure or table } [placement specifier]

. . . figure contents . . .

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... figure contents ...

or table }

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- Automatically numbered, label used for referencing.
- Captions can be added.

Float syntax:

 \setminus **begin** { figure or table } [placement specifier]

. . . figure contents . . .

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- Automatically numbered, label used for referencing.
- Captions can be added.

Float syntax:

- \setminus begin $\{ \mbox{ figure or table } \}$ [placement specifier]
- . . . figure contents . . .
- \ end { figure or table }

Table code example:

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```
\begin{table}[h]
\begin{center}
\left( \frac{1}{r} \right)
\hline
lattice & $d$ & $q$ & $T_{\rm mf}/T_c$ \\
\hline
square & 2 & 4 & 1.763 \\
\hline
triangular & 2 & 6 & 1.648 \\
\hline
diamond & 3 & 4 & 1.479 \\
\hline
simple cubic & 3 & 6 & 1.330 \\
\hline
bcc & 3 & 8 & 1.260 \\
\hline
fcc & 3 & 12 & 1.225 \\
\hline
\end{tabular}
\end{center}
\end{table}
```

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The result :

| lattice | d | q | $T_{ m mf}/T_c$ |
|--------------|---|----|-----------------|
| square | 2 | 4 | 1.763 |
| triangular | 2 | 6 | 1.648 |
| diamond | 3 | 4 | 1.479 |
| simple cubic | 3 | 6 | 1.330 |
| bcc | 3 | 8 | 1.260 |
| fcc | 3 | 12 | 1.225 |

Listing using bulleting

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Bulleting code example:

\begin{itemize}
 \item Tom
 \item Dick
 \end{itemize}

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The output is:

- Tom
- Dick

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Numbering code example:

\begin{enumerate}
 \item bread
 \item cheese
 \end{enumerate}

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The output is:

1. bread

2. cheese

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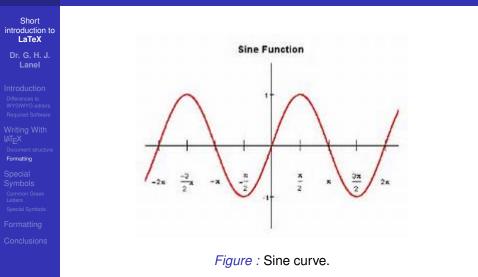
Supported image file types: JPG, PNG and PDF

Figure code example:

```
\begin{figure}[h]
\begin{center}
\includegraphics{fig1.jpg}
\caption{\label{fig:typical}Show me a sine.}
\end{center}
\end{figure}
```

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Document structure Floats: Figures



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These commands may be used only in math mode.

Only the most common letters are included here.

```
$\alpha,
\beta, \gamma, \Gamma,
\delta,\Delta,
\epsilon, \zeta, \eta, \theta, \Theta, \kappa,
\lambda, \Lambda, \mu, \nu,
\xi, \Xi,
\pi, \Pi,
\rho.
\sigma,
\tau,
\phi, \Phi,
\chi,
\psi, \Psi,
\omega, \Omega$
```

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 $\alpha, \beta, \gamma, \Gamma, \delta, \Delta$ $\epsilon, \zeta, \eta, \theta, \Theta, \kappa$ $\lambda, \Lambda, \mu, \nu, \xi, \Xi$ $\pi, \Pi, \rho, \sigma, \tau, \phi$ $\Phi, \chi, \psi, \Psi, \omega, \Omega$

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The derivative and limit are defined as;

f(

```
\begin{equation}
\frac{dy}{dx} = \lim_{\Delta x \to 0} \frac{\Delta y}
{\Delta x}
\end{equation}
\begin{equation}
f(x) \to y \quad \mbox{as} \quad x \to
x_{0}
\end{equation}
```

$$\frac{dy}{dx} = \lim_{\Delta x \to 0} \frac{\Delta y}{\Delta x}$$
(1)
(x) $\rightarrow y$ as $x \rightarrow x_0$ (2)

$$f(x) \underset{x \to x_0}{\longrightarrow} y \tag{3}$$

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Order of magnitude;

\log_{10}f \sim n
\end{equation}
\begin{equation}
f(x)\sim 10^{n}
\end{equation}
\end{frame}

 $\log_{10} f \sim n \tag{4}$
 $f(x) \sim 10^n \tag{5}$

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Approximate equality;

\begin{equation}
f(x)\simeq g(x)
\end{equation}

 $f(x) \simeq g(x)$

(6)

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LATEX is simple if we keep everything in proportion:

\begin{equation}
f(x) \propto x^3
\end{equation}

 $f(x) \propto x^3$.

(7)

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 $\tiny{...}$ \Scriptsize {...} \footnotesize{...} $small{...}$ \normalsize{...} \large{...} $Large{...}$ $LARGE{...}$ $huge{...}$ $\mathbb{U} = \{\dots\}$

sample text sample text

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There are several elements in LATEX whose colour can be changed to improve the appearance of the document.

Colours can be manually defined to a desired tone using several models.

The simplest manner to use colours in your LateX document is by importing the package color or xcolor.

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Some waysof using colours in LAT_EX ;

1 Using the command

\begin{itemize}
\color{blue}
\item First item
\item Second item
\end{itemize}

Using toolbar



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Some ways of using colours in ${{ {\tt AT}}_{{\rm E}}} X$;

Using the command

```
\begin{itemize}
\color{blue}
\item First item
\item Second item
\end{itemize}
```

2 Using toolbar



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- Learning LATEX is done by doing.
- Use external resources for command and syntax help.
- Compile the PDF frequently.
- Helps error debugging in the code.
- Let the floats (tables, figures) position themselves.

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Thank You!

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