Introduction to LATEX A very short briefing

Henry Yip

Year 3 Mathematical Physics, University of Edinburgh Informal Website Academic Website

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I am **NOT** a LATEX expert. These are some of my (potentially poor) ways to create a LATEX document. There are much better ways but if you are a student wanting to create a LATEX document fast (to submit your hand-in) this is a very good introduction.

Introduction

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- Introduction
- Preample

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- Bonus Session for Texmaker Users

• Below is an example of a **Preample**

```
\documentclass(article)
\usepackage(amsmath)
\usepackage(amsymb)
\usepackage(parskip)
\usepackage(parskip)
\usepackage(titlesec)
\setcounter(secnumdepth){4}
\titleformat(\paragraph)
{\normalfont\normalsize\bfseries}{\theparagraph){1em}{}
{\pt}{3.25ex plus lex minus .2ex}{1.5ex plus .2ex}
\newcommand(\ie){\textit(i).\textit(e). }
\titlefIntroductory Astrophysics (PHYS08050) Notes}
\author{Henry Yip
s2231321@ed.ac.uk}
```

Components



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- \usepackage{}
- Title, Author, Date...

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- \usepackage{}
- Title, Author, Date...
- \begin{document}

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- \usepackage{amsmath} and \usepackage{amssymb} are almost always required in Mathematical Writing.
- \usepackage{geometry} is usually used to set margins. For example: \usepackage[margin=0.8in] geometry}
- Tikz is preferred if you want to include graphs
- Below is a beautiful example! (Created using Chatgpt)



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- Then create a document named **Refereces.bib**. Put the details of the papers in. For example:

@article{benisek2015vibrational,

title={The vibrational and configurational entropy of disordering in Cu3Au},

```
author={Benisek, Artur and Dachs, Edgar},
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journal={Journal of alloys and compounds},

```
pages = \{585 - 590\},\
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publisher={Elsevier}
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- You can always find your answer in Stackexchange

• \documentclass{beamer}

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Important Notice

Try not to use powerpoint slides for your Math-related presentations

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- Always include \maketitle after \begin{document}

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- You can make your equations aligned also:

$$p = mv$$
$$E = \frac{1}{2}mv^2$$

 You can use the \begin{aligned} and \end{aligned} to achieve this. Remember to include a & before every = sign so equations can be actually aligned. And add \$\$ in front and after begin{aligned} and end{aligned} respectively. You can use the \begin{aligned} and \end{aligned} to achieve this. Remember to include a & before every = sign so equations can be actually aligned. And add \$\$ in front and after begin{aligned} and end{aligned} respectively.

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- You can find more in Overleaf's website

• First, upload your images to **Overleaf**

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- Second, include this line:
 - $\[\] e = 1 \] \$

• First include the following packages in the Preamble

```
\usepackage{hyperref}
\hypersetup{
    colorlinks=true,
    linkcolor=blue,
    filecolor=magenta,
    urlcolor=cyan,
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Image: A matrix

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- Below is an example:

```
\begin{itemize}
\item Go to \href{https://www.overleaf.com/login}{the login page of Overleaf}
\item Create a New Account \footnote{You'll likely obtain a professional acco
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• Just type down \footnote $\{\}$

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- Just type down \footnote {}
- The formatting is automatic

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\begin{itemize}
\item Go to \href{<u>https://www.overleaf.com</u>/login}{the login page of Overleaf}
\item Create a New Account \footnote{You'll likely obtain a professional acco
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\bullet You can make very nice tables with $\ensuremath{{\mbox{{\rm MTE}}}} X$

Time	Activity	Remarks
7:00	Train in Glascow /Paris	
12:00	Arriving in King's Cross Station	
12:30	Check in	
13:00-14:00	Lunch	
15:00-18:45	Hong Kong Disneyland	Walk Around
19:15-20:45	Dinner	

Image: Image:

More on Tables

```
\begin{table}[H]
  \begin{center}
    \begin{tabular} {c|c|c}
      \textbf{Time} & \textbf{Activity}&\textbf{Remarks}\\
      \hline\hline
      7:00 & Train in \textbf{Glascow}/Paris& \\
      \hline
      12:00 & Arriving in \textbf{King's Cross Station}&\\
      \hline
      12:30 & Check in & \\
      \hline
      13:00-14:00 & Lunch \\
      \hline
      15:00-18:45 & Hong Kong Disneyland & Walk Around
      \hline
      19:15-20:45 & Dinner &\\
      \hline
    \end{tabular}
  \end{center}
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```

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More on Tables

```
\begin{table}[H]
  \begin{center}
    \begin{tabular} {c|c|c}
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      \hline
      19:15-20:45 & Dinner &\\
      \hline
    \end{tabular}
  \end{center}
\end{table
```

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• To adjust position please download \usepackage{float}

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• I understand that most of you are Overleaf users, but this section is for TexMaker users

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- Save your document as nameofyourdocument.tex. Download MikTeX (The Source Code is available in GitHub), go to comamnd prompt and cd to the place you stored your tex file

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- Then type pdflatex nameofyourdocument.tex
- You can also click "View" in TexMaker, then "print" and then "Microsoft Print to Pdf". However, at least for me, the hyperlinks may be lost.

Questions

If you have any Questions feel free to ask me now!

Henry, Yip (University of Edinburgh)

Jan 2024 22 / 23

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Thank You!

Henry, Yip (University of Edinburgh)

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