ETFX FOR LINGUISTS

Workshop at School of Humanities and Social Sciences, Nanyang Technological University

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AGENDA

Basics

Typesetting Text

Structuring and Cross-referencing Text

Citations and References

Typesetting Mathematics

Graphics, Figures and Tables

Multilingual Text

Linguistic Examples and Interlinear Glosses

Presentation Slides

1

BASICS

MINIMAL DOCUMENT STRUCTURE

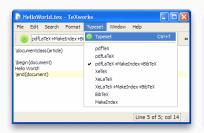
```
%% helloworld.tex - First LaTeX document
\documentclass{article}

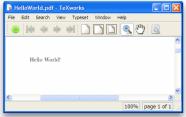
\begin{document}
Hello World!
\end{document}
```

- · Standard document classes:
 - · article: for short reports, articles in proceedings or journals, etc.
 - · book: for real books.
 - · report, letter, ...
- Other document classes: beamer, scrartcl, memoir, recipe, resume, leaflet, exam, beamerposter...

ETEX WORKFLOW IN TEXWORKS

- 1. Create, edit, save .tex file
- 2. Make sure Typeset operation set to pdfLaTeX+MakeIndex+BibTeX
- 3. Typeset (Ctrl + T or ▶)
- 4. Correct errors, repeat Typeset
- 5. View Output

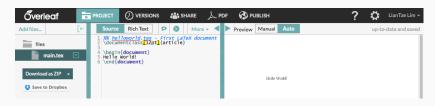




Tip: Ctrl + click in source to jump to corresponding point in PDF (and vice versa)

ETEX WORKFLOW IN OVERLEAF

- · 'Auto' mode: compiles and previews automatically as you edit
- · 'Manual' mode: Ctrl + . to trigger compile



- · Click in PDF to position cursor in Source.
- · Right-click in Source code, Position in preview

ETEX BASICS

Commands (0 or more options/arguments)

```
\cmdname[option1, option2...]{arg1}{arg2}...
```

Environments

```
\begin{envname}
environment contents
\end{envname}
```

· Comments: the % character.

```
% You won't see this line in the output.
You will see this line %<-- but nothing after this!
```

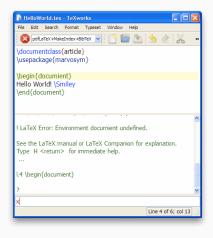
ANOTHER EXAMPLE

```
%%%% document class declaration with options
\documentclass[a4paper,12pt]{article}
%%%% document preamble starts...
%% loading packages: for extra capabilities
\usepackage{marvosym}
%% "meta" information and other definitions
\author{Lim Lian Tze}
\title{Hello}
%%%% document preamble ends, document body starts
\begin{document}
\maketitle
Hello World! \Smiley
\end{document}
```

HOW DO I KNOW WHAT COMMANDS HATH A PACKAGE?

- · Google!
- Package documentation
 - MikT_EX Run a command
 then type mthelp <package name>
 then pick usually the first file
 T_EXLive \$ texdoc <package name>
 Online http://texdoc.net/pkg/<package name>

AARRGGGH! ERRORS!



- Error message and line number in the Output panel
- In the Console bar:
 - Hit Enter (perhaps repeatedly) to continue anyway. May still get a PDF output but with erroneous content.
 - Hit x then Enter, or click to abort.
- · Correct error, retry.

PACKAGE INSTALLATION ON MIKTEX

- MikTeX 2.9 Maintenance (Admin) Settings (Admin)
- · Set On-the-fly installation to Yes or Ask me first.
- During compilation, missing packages will be installed on the fly. (But no progress bar...)
- MikTeX 2.9 Maintenance (Admin) Package Manager (Admin)
- Install, delete packages from here, using the 🛨 and 🗖 buttons

PACKAGE INSTALLATION ON MAC

- Start the TeX Live Utility
- · Click on the Pacakges tab
- Install, delete packages from here (right-click on the required packages)

TEXT

WHITE SPACE AND NEW LINES

- · Space and tab characters
 - · White space does not (usually) matter
 - · T_EX determines inter-word spacing to ensure legibility

WHITE SPACE AND NEW LINES (CONT.)

- Paragraph breaking
 - · Leave a blank line between text to break paragraph
 - Multiple blank lines won't give more vertical spacing
 - T_EX determines inter-line spacing to ensure legibility
 - Do not use \\ to create 'new paragraphs'!

WHITE SPACE AND NEW LINES (CONT.)

- · Manual line- and page-breaking?
 - · (are you sure?)
 - · TEX decides where to break lines, pages to ensure legibility
 - \cdot if you insist: \\, \pagebreak

EFFECTS OF WHITE SPACE

how far they are apart (style).

4

5 6 7

```
This is to demonstrate % TODO: comments again!
typesetting plain text in \LaTeX. It doesn't care much about
multiple blank spaces and tabs.

''Multiple blank lines'' have the same effect as one blank line.

Blank lines are for separating paragraphs (content), but not
```

This is to demonstrate typesetting plain text in LaTeX. It doesn't care much about multiple blank spaces and tabs.

"Multiple blank lines" have the same effect as one blank line.

Blank lines are for separating paragraphs (content), but not how far they are apart (style).

SPECIAL CHARACTERS

```
\#
#
    (hash, pound)
                        : \$
    (dollar)
%
    (percent)
                        : \%
                        : \^{}
    ("hat")
                        : \&
    (ampersand)
&
    (underscore)
                        : \{
    (left brace)
                        : \}
    (right brace)
                        : \~{}
    (tilde)
                        : $\sim$
    (wide tilde)
    (open double quotes):
"
                            1 1
    (close double quotes):
                           \string@
@
    (alias)
```

VERBATIM TEXT

"I'm tired of escaping characters!"

Type all the special characters you want, 100%!

No need to escape your # and \$ and ^ here,
and it respects your line breaks
and whitespaces, too!

Inline: mem_buffer.

URLS AND FILE PATHS

```
\usepackage{url,menukeys} % this line in preamble!
...
You can find this presentation at
\url{http://liantze.googlepages.com/latextypesetting}.

Your MiKTeX installation is most likely at
\directory{C:/Program Files/MiKTeX 2.9}.

Oh and the menukeys package can do \menu{File > Save > Save
As...} and \keys{Ctrl + X}.
```

You can find these slides at http://liantze.googlepages.com/latextypesetting.

Your MiKTeX installation might be at C:→Program Files→MiKTeX 2.9.

Oh and the menukeys package can do $\boxed{\text{File} \times \text{Save} \times \text{Save As...}}$ and $\boxed{\text{Ctrl}} \times \boxed{X}$.

SPECIAL SYMBOLS: CHARACTERS WITH DIACRITIC MARKS

- · Diacritic marks: e.g. à, á, â, ã, ä, å, æ
 - · no input methods: 'a, 'a, 'a, 'a, 'a, 'a, 'a, 'a
 - with input methods: (TeXworks and Overleaf save files as UTF-8 by default)

```
\usepackage[utf8]{inputenc}
\usepackage[T1]{fontenc}
...
àáâãäåæ
```

MORE SPECIAL SYMBOLS

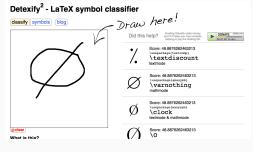
· Common text symbols: e.g. © ® ™ °

\textcopyright \textregistered \texttrademark \textdegree

- · Mathematical symbols: a whole slew of them!
- "How would I know what command produces symbol X"?
 - 1. The Comprehensive <code>MEX</code> Symbol List (http://www.texdoc.net/pkg/comprehensive)

MORE SPECIAL SYMBOLS (CONT.)

2. Detexify (http://detexify.kirelabs.org/)



FONT FAMILIES AND EFFECTS

Commands can be nested:
 \texttt{\emph{Like this.}} → Like this.

FONT SIZES

Font size changing commands relative to base font size given in documentclass option

```
{\tiny Text}
                          \rightarrow Text
{\scriptsize Text} \rightarrow Text
{\footnotesize Text} \rightarrow Text
{\small Text}
                   \rightarrow Text
{\text{normalsize Text}} \rightarrow \text{Text}
                      \rightarrow Text
{\large Text}
                          → Text
{\Large Text}
                          → Text
{\LARGE Text}
                          \rightarrow Text
{\huge Text}
                          → Text
{\Huge Text}
```

LIST-LIKE ENVIRONMENTS

Bulleted Lists

\begin{itemize}
\item one
\item two
\end{itemize}

- one
- two

Numbered Lists

\begin{enumerate}
\item one
\item two
\end{enumerate}

- 1. one
- 2. two

Description Lists

\begin{description}
\item[one] is here
\item[two] is there
\end{description}

one is here

two is there

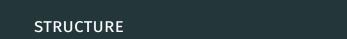
Lists can be nested up to 6 levels deep.

More on Changing Fonts

- · Default document font: Computer Modern (designed by Knuth)
 - · Computer Modern Serif
 - · Computer Modern Sans Serif
 - · Computer Modern Typewriter
- · Use Times Roman + Helvetica + Courier as default:

```
\usepackage{mathptmx}
\usepackage[scaled=.89]{helvet} % Helvetica is LARGE
\usepackage{courier}
```

- Other fonts can be loaded via relevant packages (http://www.tug.dk/FontCatalogue/)
- · But be careful about improper font combinations!



SECTIONING COMMANDS

- · article: section, subsection, subsubsection.
- · book: part (not usually used), chapter, section, ...

```
\documentclass{article}
\begin{document}
\section{Introduction}
Introduce your topic here.
\section{Background}
A line or two.
\subsection{Related Work}
Review others' work.
\subsection{Problems}
Unresolved issues.
\end{document}
```

1 Introduction

Introduce your topic here.

2 Background

A line or two.

2.1 Related Work

Review others' work.

2.2 Problems

Unresolved issues.

CROSS-REFERENCING

```
\documentclass{article}
\begin{document}
\section{Introduction}\label{sec:intro}
Introduce your topic here.
\section{Background}
\label{sec:background}
Mention section \ref{sec:intro} again.
\subsection{Related Work}
\label{sec:related}
Review others' work.
\subsection{Problems}
\label{sec:problems}
In section \ref{sec:related} on page
\pageref{sec:related}\ldots
\end{document}
```

"Bookmark" with \label, reference with \ref, \pageref

1 Introduction

Introduce your topic here.

2 Background

Mention section 1 again.

2.1 Related Work

Review others' work.

2.2 Problems

In section 2.1 on page 1...

OTHER GOODIES

- · Author information (in preamble)
 - · \author: Name(s) of authors
 - · \title: Title of the article/book/report
 - · \date: Specify a date
 - Other custom fields for respective journals, conference styles (refer to publisher's instructions and templates)

OTHER GOODIES (CONT.)

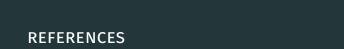
- · Routine tasks (in document body)
 - · Abstract:

```
\begin{abstract}
My text here.
\end{abstract}
```

- Footnote: ...why?\footnote{why not?}
- Margin notes: ...why?\marginpar{why not?}
- Auto-generate title: \maketitle
- Auto-generate TOC: \tableofcontents (\listoffigures,\listoftables - we'll try later)

PDF HYPERLINKS AND BOOKMARKS

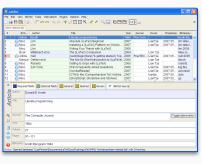
- Just load hyperref package
- · But load it as last package!
- Coloured borders around links in PDF will not show up when printed, don't worry!



EXTERNAL (CENTRALISED) REFERENCE DATABASE

latex-related.bib

```
@ARTICLE{knuth:1984,
  author = {Donald E. Knuth},
  title = {Literate programming},
  journal = {The Computer Journal},
  year = \{1984\},
  volume = \{27\}.
  number = \{2\},
  pages = \{97 - -111\},
  address = {Oxford, UK},
  publisher = {Oxford University
   Press}
```



JabRef: Java-based reference manager
http://jabref.sourceforge.net

Or use Mendeley, Zotero, CiteULike... AND EXPORT .BIB [©]

CITING FROM EXTERNAL .bib FILE

```
\documentclass{article}

\begin{document}
 \cite{latex:companion} is a useful book. Knuth
introduced the literate programming paradigm while
developing \TeX{}\ \cite{knuth:1984}.

\bibliographystyle{plain}
\bibliography{latex-related}
\end{document}
```

Unified Style

- Download from http://celxj.org/ (Scroll to the bottom)
- Put unified.bst in the same folder as your .tex

```
\usepackage{natbib}
\cite{John1991}
\citet{John1991}
\citep{John1991}
\bibliographystyle{unified}
\bibliography{latex-related}
```

WHEN CHANGING BIBLIOGRAPHY STYLES, YOU MAY
NEED TO DELETE .BBL FILE MANUALLY

MLA STYLE

- Download from https://www.ctan.org/tex-archive/ biblio/bibtex/contrib/mla
- Put mla.bst in the same folder as your .tex

```
\usepackage{mla} % no natbib!!
\cite{John1991}
\bibliographystyle{mla}
\bibliography{latex-related}
```

natbib: FLEXIBLE CITATIONS

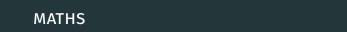
- · Recommended:
 - · \usepackage{natbib} for author-year styles
 - .\usepackage{apacite}\bibliographystyle{apacite}
- natbib citation commands:

```
\begin{tabular}{ll} $$ & \to (Knuth, 1984) \\ $$ & \to (Knuth, 1984) \\ $$ & \to Knuth (1984) \\ $$ & \to Knuth (1984) \\ $$ & \to (Careful! \land (Careful! \land (Cite becomes \land (Citet if using natbib!)) \\ $$ & \to (Knuth, 1984, section 2.1) \\ $$ & \to (Knuth, 1984, se
```

- (apacite supports \citeauthor and \citeyear too)
- See also
 http://en.wikibooks.org/wiki/LaTeX/Bibliography_Management

NOTES ABOUT NAMES

```
author = {John Doe} \rightarrow (Doe, 2002) author = {J. Doe} \rightarrow (Doe, 2002) author = {Doe, John} \rightarrow (Doe, 2002) author = {John von Neumann} \rightarrow (von Neumann, 1945) author = {Lim Lian Tze} \rightarrow (Tze, 2004) author = {Lim, Lian Tze} \rightarrow (Lim, 2004) author = {John Doe and Allen Smith and Lee, Ai Chong} \rightarrow (Doe, Smith and Lee, 2003)
```



MATHEMATICS WITH amsmath PACKAGE

(1) relates the golden ratio and the Fibonacci series. Recall that the golden ratio, $\phi = \frac{1}{2}(1 + \sqrt{5})$.

$$\phi = 1 + \sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{F_n F_{n+1}} \tag{1}$$

Source: http://mathworld.wolfram.com/GoldenRatio.html

...TOO MUCH "TREASURE" TO DESCRIBE HERE!

- http://en.wikibooks.org/wiki/LaTeX/Mathematics
- http://www.andy-roberts.net/misc/latex/ latextutorial9.html, latextutorial10.html
- Scribble an equation, get the MTX code: http://webdemo.myscript.com/#/demo/equation

ANOTHER MATHS EXAMPLE

[...] A family of wavelets can be constructed from a function $\psi(x)$, sometimes known as a "mother wavelet," which is confined in a finite interval. "Daughter wavelets" $\psi^{a,b}(x)$ are then formed by translation (b) and contraction (a). [...] An individual wavelet can be defined by

$$\psi^{a,b}(x) = |a|^{-\frac{1}{2}}\psi\left(\frac{x-b}{a}\right).$$

Then

$$W_{\psi}(f)(a,b) = \frac{1}{\sqrt{a}} \int_{-\infty}^{\infty} f(t) \psi\left(\frac{t-b}{a}\right) dt,$$

and Calderón's formula gives

$$f(x) = C_{\psi} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \langle f, \psi^{a,b} \rangle \psi^{a,b}(x) a^{-2} da db.$$

A common type of wavelet is defined using Haar functions.

Source: http://mathworld.wolfram.com/Wavelet.html

FIGURES & TABLES

GRAPHICS FILE FORMAT

pdflatex embeds JPG, PNG and PDF graphic files

```
\usepackage{graphicx}
...
\includegraphics[width=.3\textwidth]{NTU-logo}
```

(no file extension \rightarrow automatically looks for .jpg, .png, .pdf)



Other ways to specify the size: width=5cm, height=120mm, scale=1.1 ...

FIGURES

```
\begin{figure}[hbt!]\centering
\includegraphics[width=.3\textwidth]{MMU}
\caption{MMU's logo}
\label{fig:mmu:logo}
\end{figure}
Figure \ref{fig:mmu:logo} depicts MMU's logo.
```



Figure 1: MMU's logo

Figure 1 depicts MMU's logo.

TABULAR MATERIAL

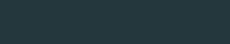
one	two two	three three tree
one one	two two two	three
one one one	two	three three
In the end		What?!

Do yourself a favour and use http://www.tablesgenerator.com/.⊕

TABLES

Table 1: Sample table		
one	two two	three three tree
one one	two two two	three

Table 1 is a very simple example.



MULTILINGUAL TEXT

RECAP: CHARACTERS WITH DIACRITIC MARKS

- · Diacritic marks: e.g. à, á, â, ã, ä, å, æ
 - · no input methods: 'a, 'a, 'a, 'a, 'a, 'a, 'a, 'a
 - with input methods: (TeXworks and Overleaf save files as UTF-8 by default)

```
\usepackage[utf8]{inputenc}
\usepackage[T1]{fontenc}
...
àáâãäåæ
```

UTF-8 ENGINES

· or compile with Xনুষ্রানুX, Luaষ্রানুX engine – no need to load extra packages

TeXworks Typeset operation set to XeLaTeX+MakeIndex+BibTeX

Overleaf Settings LaTeX engine = XeLaTeX

\documentclass{article} \begin{document} àââäåæ wheeee \end{document}



FONT SELECTION IN X3ETEX

```
\usepackage{fontspec}
\setmainfont[Ligatures=TeX]{Times New Roman}
\setsansfont{Arial}
\setmonofont{Consolas}
```

- Does the journal accept X¬ETFX?
- Does the journal have the necessary fonts?
- · (Ask first...)

IPA Symbols: pdf&T_EX

```
\usepackage{tipa}
\textipa{f@"nEtIks}
```

- · fəˈnɛtɪks
- Cheat sheet: http://www.ling.ohio-state.edu/events/ lcc/tutorials/tipachart/tipachart.pdf

IPA SYMBOLS: X<u>J</u>ET_EX

```
\usepackage{fontspec}
\newfontfamily{\ipafont}{Doulos SIL}
{\ipafont fə'netiks}
```

- · fə'netiks
- Other IPA fonts:
 http://ipa4linguists.pbworks.com/w/page/4325763/
 Cool%20free%20IPA%20fonts%20to%20download

tipa + X₃ET_EX

If you'd like to use **tipa** in X₃MT_EX, use these code:

```
\usepackage{tipa} % Must come before fontspec
\usepackage{fontspec}
\setmainfont[Ligatures=TeX]{Times New Roman}
\newfontfamily{\ipafont}{Doulos SIL}
\AtBeginDocument{
  \renewcommand\textipa[1]{{\ipafont\tipaencoding #1}}
% Both of the following will now work
{\ipafont fo'netiks}
\textipa{f@"nEtIks}
```

CHINESE IN PDFLATEX: CJKutf8

```
\usepackage{CJKutf8}
\begin{CJK}{UTF8}{gbsn}
可以打中文吗?
\end{CJK}
\CJK{UTF8}{gkai}{竟然可以!}
```

可以打中文吗? 竟然可以!

JAPANESE, KOREAN IN PDFLATEX: CJKutf8

```
%% Japanese. Try also maru, goth
\begin{CJK}{UTF8}{min}
露の世は 露の世ながら さりながら
\end{CJK}
```

```
%% Korean
\begin{CJK}{UTF8}{mj}
편편황조 자웅상의 염아지독 수기여귀
\end{CJK}
```

CJK IN X₃ŁT_EX: xeCJK

 Default font: Fandol (Download from http://www.ctan.org/tex-archive/fonts/fandol and install in your OS!)

```
\usepackage{xeCJK}

一般字体为〖宋体〗。
强调用\textbf{〖黑体〗}。
中文没有斜体,要用\emph{〖楷体〗}。
代码可以用\texttt{〖仿宋〗}。
```

一般字体为〖宋体〗。无衬线体用〖**黑体**〗。中文没有斜体,要用〖楷体〗。代码可以用〖仿宋〗。

USING OTHER CJK FONTS

· (But does the other party esp. publishers have the same fonts?)

```
\setCJKmainfont[
BoldFont={Adobe Heiti Std},
ItalicFont={Adobe Kaiti Std]
{Adobe Song Std}
\setCJKsansfont{Adobe Heiti Std}
\setCJKmonofont{Adobe Fangsong Std}
\newCJKfontfamily{\jpfont}{Meiryo}
{\jpfont 露の世は 露の世ながら さりながら}
```



PACKAGES FOR LINGUISTIC EXAMPLES

gb4e very popular, but tends to have problems with new packages

expex newer, very flexible

So for each following example: \usepackage{expex}

LINGUISTIC EXAMPLES

```
\ex
This is an example.
\xe
\ex
This is another example.
\xe
```

(1) This is an example.

(2) This is another example.

EXAMPLE WITH PARTS

```
\pex Here are two famous sayings.
\a A stitch in time saves nine.
\a Saved by the bell.
\xe
```

- (3) Here are two famous sayings.
 - a. A stitch in time saves nine.
 - b. Saved by the bell.

ALIGNED JUDGEMENT MARKS

- (4) a. There is a pair of pants on the floor.
 - b. ?*There are a pair of pants on the floor.
 - c. *There is the pair of pants on the floor.

INTERLINEAR GLOSSES

```
\ex\deftagex{basic} %% \deftagex adds a label for referencing
\begingl
\gla An example formatted with expex //
\glb \textsc{an} example formatted \textsc{with} expex //
\glft 'A free translation.'//
\endgl
\xe
We have our first glossing example (\getref{basic})!
```

INTERLINEAR GLOSSES (CONT.)

(5) An example formatted with expex AN example formatted WITH expex

'A free translation.'

We have our first glossing example (5)!

FOUR LINES INTERLINEAR GLOSSES

```
\ex
\begingl
\gla Some authors like four lines //
\glb some {author -s} like four {line -s} //
\glc some {author \textsc{-pl}} like four {line
\textsc{-pl}}//
\glft Some authors like an extra line for morpheme
breaks. This is OK.//
\endgl
\xe
```

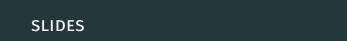
FOUR LINES INTERLINEAR GLOSSES (CONT.)

(6) Some authors like four lines some author -s like four line -s some author -PL like four line -PL

Some authors like an extra line for morpheme breaks.

More Goodies for Linguists

See http://en.wikibooks.org/wiki/LaTeX/Linguistics



CREATING PRESENTATIONS WITH beamer

- · Quite a few choices to creating presentation slides...
- ...but beamer is (one of the) most versatile (the manual has 200+ pages; use as a reference)
- · This presentation was created with beamer!
- · To run slideshow in Acrobat Reader:
 - · Ctrl + L to go fullscreen
 - · Spacebar or arrow keys (\longleftrightarrow) to go to next/previous slide
 - Esc to exit slideshow

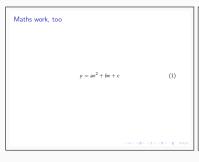
SIMPLE beamer EXAMPLE

```
\documentclass{beamer}
\author{Lian Tze}
\title{Quick Beamer Example}
\institute{NLP-SIG, MMU}
\date{8 March 2010}
\begin{document}
\begin{frame}
\maketitle
\end{frame}
\section{Introduction}
\subsection{Hello!}
```

```
\begin{frame}
\frametitle{Hello World!}
This is my first presentation with \LaTeX.
\begin{itemize}
\item Beamer has many features
\item This is just a simple demo
\end{itemize}
\end{frame}
\subsection{Maths}
\begin{frame}
\frametitle{Maths work, too}
\begin{equation}
```

```
y = ax^2 + bx + c
\end{equation}
\end{frame}
\section{Conclusion}
\begin{frame}
\frametitle{It's Your Decision}
\begin{itemize}
\item Give \LaTeX\ a try
\item You might hate it, you might love it
\item Now that you've tried it, you can decide if it's
for you
\end{itemize}
\end{frame}
\end{document}
```







MAKING ITEMS APPEAR ONE BY ONE

(Only applicable for itemize/enumerate!)

```
\begin{itemize}[<+->]
\item Beamer has many features
\item This is just a simple demo
\item Have a go!
\end{itemize}
```

ORDER OF APPEARANCE

```
\begin{itemize}
\item<1-> Beamer has many features
\item<3-> This is just a simple demo
\item<2-> Have a go!
\end{itemize}
```

OR JUST PAUSING AT A SPECIFIC POINT

```
\begin{itemize}
\item Beamer has many features
\item This is just a simple demo
\pause
\item Have a go!
\end{itemize}
```

WHEN PRINTING...

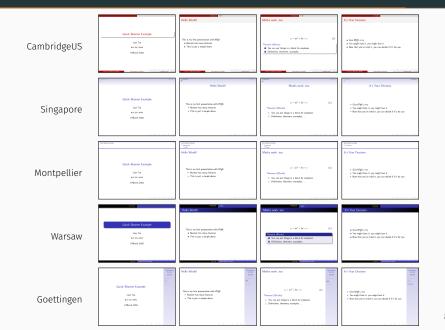
- You probably won't want the animated bullets one by one, so use the trans mode: \documentclass[...,trans]{beamer}
- · Add these code for printing 4-up slides in handout mode:

```
\documentclass[...,handout]{beamer}
\mode<handout>{
   \usepackage{pgfpages}
   \pgfpagesuselayout{4 on 1}[a4paper,landscape,border shrink=8mm]
}
```

BEAMER PRESENTATION THEMES

- · Try these:
 - . \usetheme{CambridgeUS}
 - . \usetheme{Singapore}
 - . \usetheme{Montpellier}
 - . \usetheme{Warsaw}
 - · \usetheme{Goettingen}
- Colour schemes, e.g. \usecolortheme{crane}
- http://www.hartwork.org/beamer-theme-matrix/
- Other customisations, including defining your own themes
- Try googling for more themes; e.g.
 http://staff.science.uva.nl/~koppejan/misc/latex.html

BEAMER PRESENTATION THEMES (CONT.)



JUST CHANGING THE MAIN COLOUR SCHEME

```
\documentclass[xcolor={dvipsnames,x11names,svgnames}]
{beamer}
\usetheme{Singapore}
\usecolourtheme[named=Maroon]{structure}
```



See http://texdoc.net/pkg/xcolor pp. 38-40 for pre-defined colour names

OTHER THEMES FROM THE WEB



oxygen (KDE): http://www.kde.org/kdeslides/

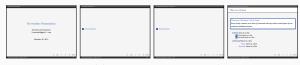


Manhattan: (Keynote look-alike) http://blog.hartwork.org/?p=435



Torino: http://blog.barisione.org/2007-09/torino-a-pretty-theme-for-latex-beamer/

OTHER THEMES FROM THE WEB (CONT.)



Wuerzburg: http://www.cgogolin.de/Computer.html



Blackboard: github.com/kmaed/kmbeamer/archive/master.zip



MoreBlue: github.com/hayamiz/beamerMoreBlue/archive/master.zip

These slides: mtheme https://github.com/matze/mtheme

'HIDDEN TRACK': OVERSIZED POSTERS

CREATING OVERSIZED ACADEMIC POSTERS WITH LETEX

- · Many classes to use, no clear-cut 'winner'
- But beamerposter seems to be slightly more popular
- · Themes available from the Internet
 - · Each may have slightly different ways to use
 - $\boldsymbol{\cdot}$ Best work from the accompanying sample code

CREATING A beamerposter WITH LLT-poster THEME

```
\documentclass{beamer}
% Adjust size, orientation per organiser instructions; Use
scale to get larger font sizes
\usepackage[size=a1,orientation=portrait,scale=1.8]{beamerposter}
\usetheme{LLT-poster}
\usecolortheme{ComingClean}
%% Alternative colour themes: ConspiciousCreep; Entrepreneur
% (Only for this theme) The 'short' author name is 'hijacked'
for the e-mail
\author[liantze@gmail.com]{Lim Lian Tze}
\title{Yet Another Beamer Poster Theme}
\institute{Multimedia University, Malaysia}
% (Only for this theme) You can put a graphics in the lower
right hand corner
\footimage{\includegraphics[height=15cm]{liantze}\hspace*{2em}}
```

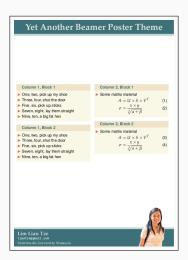
(CONT.)

```
\begin{document}
\begin{frame}\centering
\begin{columns}[T]
\begin{column}{.46\textwidth}
\begin{block}{Column 1, Block 1}
. . .
\end{block}
\begin{block}{Column 1, Block 2}
\end{block}
\end{column}
```

```
\begin{column}{.46\textwidth}
\begin{block}{Column 2, Block 1}
\end{block}
\begin{block}{Column 2, Block 2}
\end{block}
\end{column}
\end{columns}
\end{frame}
\end{document}
```

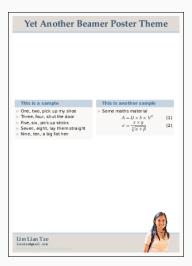
Download from http://goo.gl/gjjjq0

SAMPLE OUTPUT



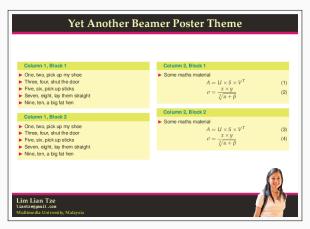
ComingClean colour theme

SAMPLE OUTPUT (CONT.)



alternative Entrepreneur colour theme

SAMPLE OUTPUT (CONT.)



landscape and alternative ConspiciousCreep colour theme

OTHER THEMES FROM THE NET



http://goo.gl/G1C1A



http://goo.gl/Pkd06

More may be found from the Net

