

Making Presentations with BEAMER

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Beamer Installation

- the official web site

`http://latex-beamer.sourceforge.net`

- download the latest release and find User Guide
- User Guide, files this talk and some additional materials

`math.iit.edu/~igor/beamer`

- MikTeX&WinEdt will recognize (most likely) the missing packages and install them automatically when you try to compile a presentation
- try to compile the SimpleFile.tex ($\text{\LaTeX} \Rightarrow \text{DVIPS} \Rightarrow \text{Open PS}$). It should compile and you should be able to see the

How to compile. Ya!

- \LaTeX \Rightarrow DVIPS \Rightarrow Open PS
- $\text{PDF}\text{\LaTeX}$ \Rightarrow view PDF
- Also after PS you can get the PDF: ps2pdf

Example

```
\documentclass{beamer}
\title{Example Presentation Created with the Beamer Package}
\author{Your Name Here} \date{\today}

\begin{document}
\frame{\titlepage}

\section{Introduction}
\subsection{Overview of the Beamer Class}

\begin{frame}{Features of the Beamer Class}
\begin{itemize}
\item<1-> Normal LaTeX class.
\item<2-> Easy overlays.
\item<3-> No external programs needed.
\end{itemize}
\end{frame}
\end{document}
```

DocumentClass

General Form:

```
\documentclass[options]{beamer}
```

```
%%%%%%%%%% Option 1: to compile with pdflatex
```

```
\documentclass[mathserif]{beamer}
```

```
%%%%%%%%%% Option 2: to compile latex, dvips, ps2pdf
```

```
\documentclass[t,dvips, mathserif]{beamer}
```

```
%%%%%%%%%% Option 3: to create handouts for print
```

```
\documentclass[t,handout]{beamer}
```

```
\usepackage{pgfpages} % to put several slides on one page
```

```
\pgfpagesuselayout{2 on 1}[a4paper, border shrink=5mm]
```

```
% 2 slides on 1 page
```

```
%\pgfpagesuselayout{4 on 1}[a4paper,landscape, border shrink=5mm]
```

```
% 4 slides on 1 page, and landscaped
```

Select the Theme/ColorTheme

```
\usetheme{Dresden}      %\usetheme{Berlin}  
\usetheme{Luebeck}     %\usetheme{Marburg}  
\usetheme{Pittsburgh}  %\usetheme{default}
```

```
%\usecolortheme{structure} %\usecolortheme{rose}  
\usecolortheme{beaver}
```

- And many more. Read the manual.
- **Rule of Thumbs: Simple is better.**
- A math presentation should be a math presentation and not a slide-show for Vouge or Glamour Magazine.

Cover Slide

```
.....  
\title{A Good Title}  
\author{That's your name here}  
\institute{You work somewhere, I guess}  
  
\begin{document}  
  
% make first slide/frame, cover slide  
\begin{frame}  
  \titlepage  
\end{frame}  
  
\end{document}
```

Make fancy numbering and bullets:

```
\beamertemplateballitem
```

Nice splitting of the sections and subsections

```
\usepackage{beamerthemesplit}
```

Summary

Put something in a block

```
\begin{block}{Summary}  
Put something in a block  
\end{block}
```

Blocks, Theorems, Examples

Theorem

Prove that $x^n + y^n = z^n$.

Example

For example $3^2 + 4^2 = 5^2$

```
\begin{beamerboxesrounded}[shadow=true]{Theorem}
Prove that  $x^n+y^n=z^n$ .
\end{beamerboxesrounded}
```

```
\begin{example}
For example  $3^2+4^2=5^2$ 
\end{example}
```

Transition

Pause command

Transition

Pause command

- One Step

Transition

Pause command

- One Step
- Two

Transition

Pause command

- One Step
- Two
- The end.

Or More complicated (not necessarily better)

Transition

Pause command

- One Step
- Two
- The end.

Or More complicated (not necessarily better)

- 1 Beatles
- 2
- 3 Led Zeppelin
- 4 Lenon

Transition

Pause command

- One Step
- Two
- The end.

Or More complicated (not necessarily better)

- 1 Beatles
- 2 Pick Floyd
- 3 Led Zeppelin
- 4 Lenon

Transition

Pause command

- One Step
- Two
- The end.

Or More complicated (not necessarily better)

- 2 Pick Floyd
- 3 Led Zeppelin
- 4 Lenon

Transition

Pause command

- One Step
- Two
- The end.

Or More complicated (not necessarily better)

④ Lenon

The code

```
Pause command
\begin{itemize}
\pause \item One Step
\pause \item Two
\pause \item The end.
\end{itemize}
```

Or More complicated (not necessarily better)\pause

```
\begin{enumerate}
\item<5-6> Beatles
\item<6-7> Pick Floyd
\item<-7> Led Zeppelin
\item<-8> Lenon
```

Finally

Remark

Avoid complicated overlays and too much animation. Usually “pause” is more than enough.

Other overlay commands: ONLY, UNCOVER, INVISIBLE, ALT,

Finally

Remark

Avoid complicated overlays and too much animation. Usually “pause” is more than enough.

Other overlay commands: ONLY, UNCOVER, INVISIBLE, ALT,

The End

Good Luck with your slides!