

L^AT_EX, A Short Course

Creating Presentations with Beamer

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- There is an excellent document class for \LaTeX for creating presentations.
- This class is called `beamer`.
- Beamer is included in some \LaTeX distributions. For others you have to download and install it yourself.
- The slides for this workshop were created Beamer and a customized Beamer theme.

- The basic format of a Beamer document is as follows:

```
\documentclass{beamer}

\title[Short Title]{Long Title}
\subtitle{...} % Optional
\author{...}
\institute{...} % Optional, I think

\begin{document}

\begin{frame}
\titlepage
\end{frame}

%Slides go here

\end{document}
```

- Your file `workfiles/beamer_example.tex` contains a more complete example.

Typesetting Slides

- All slides are typeset in the `frame` environment.
- You can put any valid \LaTeX commands within a `frame` environment. Just remember you are constrained a bit by the large font size.
- Typical slide:

```
\begin{frame}
\frametitle{Title of Slide}
\begin{itemize}
\item Point 1
\item Point 2
\item Point 3
\end{itemize}
\end{frame}
```

- Open your `workfiles/beamer_example.tex`.
- Fill in the author/title information in the preamble.
- Experiment by making a slide or two.
- Create a PDF output file using `pdflatex` and view it.

- Note in the example that sectioning commands are used.
- You can break a presentation into sections just as you would a normal document.
- This allows Beamer to display the current section of the talk at the top of each slide, and allows auto-generation of a table of contents for the presentation.

- If you don't like the default slide style, you can change it by altering the default Beamer theme.
- Try adding the following to the preamble of `beamer_example.tex`:

```
\mode<presentation>{  
\usetheme{Warsaw}  
}
```

- You can do an enormous amount of customization to slide styles.
- The Beamer manual is about 280 pages, most of which is devoted to customization of the look and feel of slides.
- Try adding the following to the `command`:

```
\definecolor{uofsgreen}{rgb}{.125,.5,.25}  
\usecolortheme[named=uofsgreen]{structure}
```


- Overlays
- “Article” and “Notes” mode.
- Change appearance of different parts of the presentation easily.
- Maintains the hierarchical document structure.
- Location of beamer user guide:
`/usr/share/texmf/doc/latex/beamer/beameruserguide.pdf`