LaTeX, 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.

- A single slide is typeset in a `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 with a few bullet points:

```
\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.

- Comes standard with most modern LaTeX installs.

- Location of beamer user guide:
  `http://www.ctan.org/tex-archive/macros/latex/contrib/beamer/doc/beameruserguide.pdf`