Making Powerpoint-like Presentations with LATEX

Elizabeth Brown

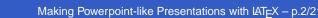
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Making Powerpoint-like Presentations with IAT_FX - p.1/2











Goal: easily make presentation-quality slides Options:

PowerPoint





Goal: easily make presentation-quality slides Options:

PowerPoint - what to do about equations?



- PowerPoint what to do about equations?
- ${\mathbb A}T_EX \rightarrow pdf$ -several packages will do this



- PowerPoint what to do about equations?
- ▲T_EX → pdf -several packages will do this
 pdfslide or P⁴ with pdflatex

Overview

- PowerPoint what to do about equations?
- ▲T_EX → pdf -several packages will do this
 pdfslide or P⁴ with pdflatex
 - prosper most straight-forward; can easily convert existing seminar slides

AT_EX seminar

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Making Powerpoint-like Presentations with $LAT_EX - p.3/2$

AT_EX seminar

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• prosper

Making Powerpoint-like Presentations with LATEX - p.3/2

IATEX

- seminar
- prosper
- hyperref

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LATEX

- seminar
- prosper
- hyperref
- pstricks

LATEX

- seminar
- prosper
- hyperref
- pstricks
- Other
 - dvips
 - ps2pdf (ghostscript)
 - Adobe Acrobat Reader (acroread)

\documentclass[*Options*]{prosper}

\title{Title of the presentation }
\subtitle{ subtitle}
\author{ Names of the authors}
\institution{ Affiliation }
\slideCaption{ caption text }

\begin{document} \maketitle

\begin{slide} [transition] { slide title }
 Material for the slide
\end{slide}

...

\overlays{n}{
\begin{slide} [transition] { slide title }
Material for the slide

\end{slide}

\end{document}

Options: final draft total nototal slideBW slideColor colorBG nocolorBG ps pdf noaccumulate accumulate azure

lignesbleues contemporain nuancegris **troispoints** frames

Legend

Mandatory or default choice Optional

slides

In seminar slides are constructed using \begin{slide} slide contents here \end{slide} Since prosper uses seminar, slides are built the same way. However, now we include a title. \begin{slide}{title} slide contents here \end{slide}

If the title is left out the letter s will become the title.

ike this \begin{slide}[Glitter] like this \end{slide}

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For no title, use \begin{slide}[Dissolve]{} For no title, use \end{slide}

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Transitions

- Split: two lines sweep across the screen
- Blinds: multiple lines appear and synchronously sweep in the same direction
- Box: a box sweeps from the center
- Wipe: a single line sweeps across the screen from one edge to the other
- Dissolve: the old page image dissolves
- Glitter: similar to Dissolve, except the effect sweeps across the image
- Replace: the effect is simply to replace the. Making Powerpoint-like Presentations with LATEX - 1 old page with the new page.



With overlays, you can

incrementally add items to a page





- incrementally add items to a page
- replace text or images on a slide in a smooth transition



- incrementally add items to a page
- replace text or images on a slide in a smooth transition

Making Powerpoint-like Presentations with LATEX

How it works

each overlay treated as separate page



- incrementally add items to a page
- replace text or images on a slide in a smooth transition

How it works

- each overlay treated as separate page
- material is properly alligned from page to page to create illusion of adding material to slide



- incrementally add items to a page
- replace text or images on a slide in a smooth transition

How it works

- each overlay treated as separate page
- material is properly alligned from page to page to create illusion of adding material to slide

Making Powerpoint-like Presentations with IAT_FX

indexed as only one slide.

Overlay commands

Every slide with overlays must be preceded by
\overlays{n} and enclosed in brackets
\overlays{2}{
 \begin{slide}
 contents of slide
 \end{slide}

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Overlay commands, cont.

- \fromslide{p}{mat}. Puts mat on slides
 p through n;
- \onlySlide{p}{mat}. Puts mat on slide p only;
- \untilSlide{p}{mat}. Puts mat on slides
 1 through p;

Overlay commands, cont.

- \fromslide{p}{mat}. Puts mat on slides
 p through n;
- \onlySlide{p}{mat}. Puts mat on slide p
 only;
- \untilSlide{p}{mat}. Puts mat on slides
 1 through p;
- \FromSlide{p}. All the material following this statement will be put on slides p through n;
- Onlyslide{p}. All the material following this statement be put on slide p only point-like Presentations with LATEX - p.11/2

Overlay commands, cont.

- \fromslide*{p}{mat} Puts mat on slides
 p through n;
- \onlySlide*{p}{mat}. Puts mat on slide
 p only;
- \untilSlide*{p}{mat}. Puts mat on slides 1 through p;

Adding an * to these commands causes the material to be replaced by the material on the next overlay.

one

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> $\operatorname{Verlays} \{4\}$ \begin {slide}{Text overlay - no replacement} \begin{itemstep} \item one \item two \item three \item four \end {itemstep} \end {slide}} ۲

 $\operatorname{Verlays} \{4\}$ \begin {slide}{Text overlay - no replacement} \begin{itemize} \item one \FromSlide2 \item two \FromSlide3 \item three \FromSlide4 \item four \end {itemize} •\end {slide}}

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one

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• two

\overlays { 4 }{
\begin {slide}{Text overlay - no replacement}
\begin{itemstep}
\item one
\item two
\item two
\item three
\item four
\end {itemstep}
\end {slide}}

\overlays { 4 }{
 \begin {slide}{Text overlay - no replacement}
 \begin{itemize}
 \item one
 \FromSlide2 \item two
 \FromSlide3 \item three
 \FromSlide4 \item four
 \end {itemize}
 \end {slide}}
 Making Powerpoint-like Presentations with LATEX - p. 13/2

one

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- two
- three

\overlays { 4 }{
\begin {slide}{Text overlay - no replacement}
\begin{itemstep}
\item one
\item two
\item two
\item three
\item four
\end {itemstep}
\end {slide}}

\overlays { 4 }{
 \begin {slide}{Text overlay - no replacement}
 \begin{itemize}
 \item one
 \FromSlide2 \item two
 \FromSlide3 \item three
 \FromSlide4 \item four
 \end {itemize}
 \end {slide}}
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one

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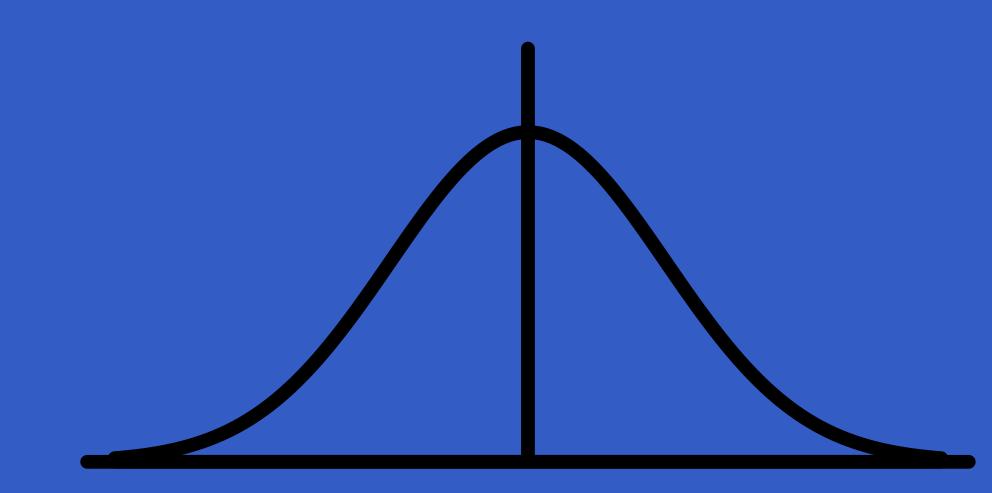
- two
- three
- four

 $\operatorname{Verlays} \{4\}$ \begin {slide}{Text overlay - no replacement} \begin{itemstep} \item one \item two \item three \item four \end {itemstep} \end {slide}} ۲

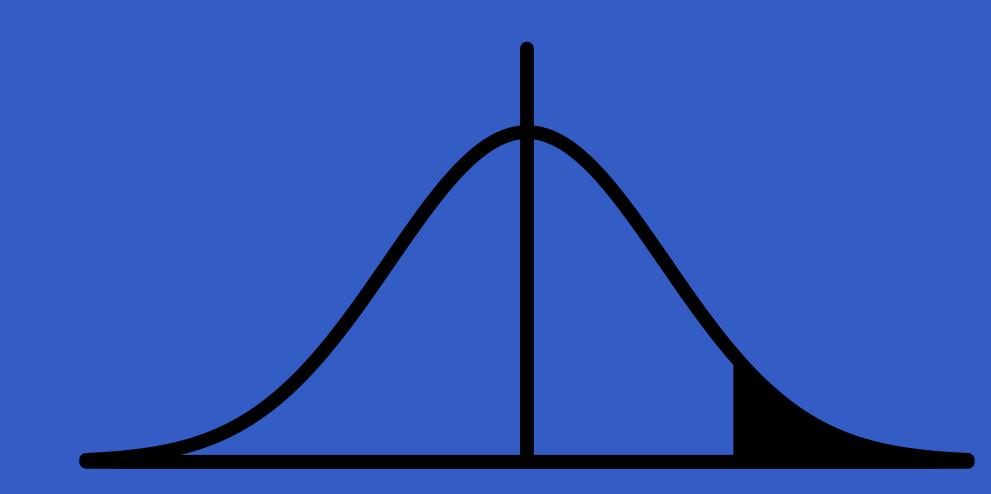
 $\operatorname{Verlays} \{4\}$ \begin {slide}{Text overlay - no replacement} \begin{itemize} \item one \FromSlide2 \item two \FromSlide3 \item three \FromSlide4 \item four \end {itemize} •\end {slide}}

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Plot overlay example

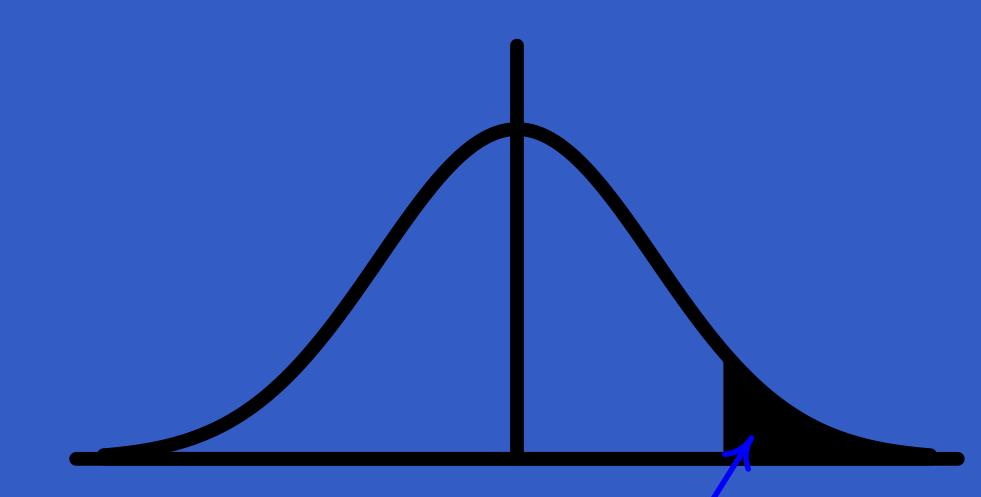


Plot overlay example



Plot overlay example

code



Rejection region



hyperref package

Use this package to creat links to help you move around the document and load webpages \href{URL}{text} creates a link to a web page \hypertarget{name}{text} creates a target for a link in your document \hyperlink{name}{text} creates a link to a place in the presentation defined by \hypertarget

hyperref examples

Examples:

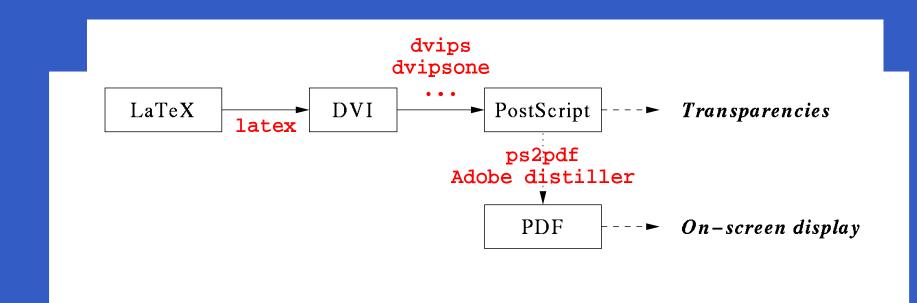
Department homepage

open applications

citations a book I'm reading [?]

Making the presentation file

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More advanced topics

creating your own background

Helpful links

Webpage for this talk – http://biosun1.harvard.edu/~ebrown/cwg6-6-01.html

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code

```
\overlays{3}{
\begin{slide}{Plot overlay example}
\begin{center}
\onlySlide*{1}{
mfpic commands}
 \onlySlide*{2}{
mfpic commands }
\onlySlide*{3}{
\begin{mfpic}[50][300]{-3.2}{3.2}{0}{.5}
 pen{5pt}
 \axes
\int \frac{1}{2} \frac{
(-3,0), (3,0)
\pen{2pt} \drawcolor{blue} \headcolor{blue}
\left[1.5,3,0.1\right] \{1/sqrt(2*pi)*exp(-.5*x*x)\} \{0*x\}
 \arrow[110]
 rotatepath{(1.7,.025),-120}\lines{(2.5,.02),(1.7,.025)}
 \tlabel(0,-.12){\blue Rejection region}
 \end{mfpic}} \end{center} \end{slide}
```