

Beamer Notes + Slides – Example

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Creating Notes & Slides

Goal for Lectures

- Slides for Lectures
- Notes (“script”) for myself
- Ability to print (and then post) either *Slides* or *Notes*

All in the same file

- Ability to easily print either Slides or Notes+Slides
- For notes, include both slides and my notes
- For notes, slides must display as they look in presentation mode (but smaller), and also highlighted & demarcated

Different from Beamer “Handout”

For many years I have yearned for a way to create a single document that has my full slides (with animations or any other bells-and-whistles) together with the notes and my “script” for the presentation – my notes to myself for what I want to say.

- Slides using Beamer – full power & functionality of Beamer
- Text and notes and anything else I need for myself as reminders, script, and background for the presentation

I have a few objectives for this combination of notes + slides:

- Slides should harness the full power and functionality of Beamer
- Notes should have the full functionality of Latex – equations, graphics, ...
- Printed version of the notes should show the slides as they appear in the presentation, highlighted and demarcated from the notes
- Printed version of the notes should have slides compact and compressed relative to the slides so that everything can be printed with limited damage to our forests.

Solution – *beamerarticle*

Single File

- Contains both the Beamer Slides & text, graphics, equations, ...
- Trick is using *beamerarticle* & `\mode*`

Set `\mode*` at beginning of the document – ignores text in *beamer* mode

Use “shadowbox” to highlight & demarcate slides

For printing Slides,

- document class “*beamer*”
- remove the “`\usepackage{beamerarticle,pgf}`”

For printing Notes+Slides

- document class “*article*”
- Insert “`\usepackage{beamerarticle,pgf}`”

1. `\mode*`
 - (a) Set this command at the beginning of your document
 - (b) For *article* class this does nothing, while for *beamer* class (presentations) it ignores all text outside frames.
 - (c) Section 21.3 of Beamer User Guide: “The effect of this mode is to ignore all text outside frames in the presentation modes. In article mode it has no effect.”
2. Minibox to highlight & demarcate slides
 - (a) I want to clearly demarcate slides – use “shadowbox” minipage

```
\noindent\shadowbox{\begin{minipage}[t]{1\columnwidth
- 2\fbboxsep - 2\fbboxrule - \shadowsize}%
\begin{frame}{Title}
My slide content here
\end{frame}
%
\end{minipage}}
```
3. Print document to *pdf* using either *beamer* class (for slides) or *article* class + *beamerarticle* package for slides+notes
 - (a) Slides: *beamer* class

```
\documentclass[english]{beamer}
\usepackage[T1]{fontenc}
\usepackage[latin9]{inputenc}
\setcounter{secnumdepth}{3}
```

```

\setcounter{tocdepth}{3}
\usepackage{fancybox}
\usepackage{calc}
\makeatletter
%%\% Textclass specific LaTeX commands.

```

- (b) Notes+Slides: *article* class + *beamerarticle* package

```

\documentclass[english]{article}
\usepackage[T1]{fontenc}
\usepackage[latin9]{inputenc}
\usepackage{geometry}
\geometry{verbose}
\setcounter{secnumdepth}{3}
\setcounter{tocdepth}{3}
\usepackage{fancybox}
\usepackage{calc}
\makeatletter
%%\% Textclass specific LaTeX commands.
\usepackage{beamerarticle,pgf}

```

- (c) See section 21.2 of the Beamer User Guide.

4. I use *Lyx* and here it is particularly easy

- (a) Main file, with all my slides and text, title “MySlides_slides.lyx”
 - i. Set Document Class *beamer*
- (b) Notes file: simple “cover” file that “includes” my notes file, title “MySlides_notes.lyx”
 - i. “Include: MySlides_slides.lyx”
 - ii. Set Document Class *beamerarticle*
- (c) When I print from “_slides.lyx” I get slides. When I print from “_notes.lyx” I get Notes+Slides. Easy
 - i. NB - youi may get a warning when printing from “_notes.lyx” about a conflict in classes (beamer versus article) but that is OK – you are essentially overwriting the “beamer” class with “article” class and that is what you want to do.