Beamer Notes + Slides – Example

https://github.com/tscoleman/beamernotes

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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"

Example: https://github.com/tscoleman/beamernotes

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}*"

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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\fboxsep - 2\fboxrule - \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.