Org-Mode Beamer Example

Derek Feichtinger

[2015-07-12 Sun]

Outline

- Introduction
- A collection of example pages
- Animations by overlays
- Multiple Columns
- Conclusions

A title page for this section

Introduction

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Org mode version information

Emacs version: GNU Emacs 24.4.1 (x86_64-unknown-linux-gnu, GTK+ Versiof 2014-10-31 on dflt1w

org version: 8.2.10

Sources and Links

- I started this example based on the Worg hosted example by Eric S. Fraga
- Basic LATEX Beamer links
 - An introduction to Beamer (German)
 - great beamer reference card by Fabrice Niessen on GitHub.
 - nice link for choosing a theme: beamer theme matrix
 - nice example of beamer features (pure Latex)

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A simple slide

This slide consists of some text with a number of bullet points:

- the first, very important, point!
- the previous point shows the use of the special markup which translates to the Beamer specific *alert* command for highlighting text.

The above list could be numbered or any other type of list and may include sub-lists.

A more complex slide

This slide illustrates the use of Beamer blocks. The following text, with its own headline, is displayed in a block:

Theorem (Org mode increases productivity)

- org mode means not having to remember LATEX commands.
- it is based on ascii text which is inherently portable.
- Emacs!



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Tables

The size of the table font can be chosen by giving a #+LATEX: \small command (or \tiny or \footnotesize)

	WNs	Processors	Cores/node	HS06/node	total cores	total HS06
-	20	2*Xeon X5560	8	118	160	2360
	11	2*E5-2670 2.60GHz	16	263	176	2893
	4	2*AMD 6272 2.40GHz	32	241	128	964
-	35				464	6217

block environments

a block

```
\begin{block}{A block}
...
\end{block}
```

an alert block

```
\begin{alertblock}{An alert block}
...
\end{alertblock}
```

an example block

```
\begin{exampleblock}{An alert block}
...
\end{exampleblock}
```

some more blocks

The beamercolorbox does not seem to work

```
\begin{beamercolorbox}[shadow=true, rounded=true]{eecks}
...
\end{beamercolorbox}
```

A fullframe is a frame with an ignored slide title. frametitle is set to the empty string

	noreheading environment will one. The heading text itself is ignor	
 Contents are not i 	nserted in any frame environment.	
	Il as a structural element in order Element (like a block or a column	<u> </u>
Derek Feichtinger	Org-Mode Beamer Example	[2015-07-12 Sun] 12 / 28

structureenv environment

- For highlighting text.
- To help the audience see the structure of your presentation.
- TODO: Currently I see no effect on the text style when using structureenv
- might need to use ignoreheading (like here) in order to then insert some more normal text after the structureenv.

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definition environment

Definition (definition)

Contents of the definition

- Suppose *p* were the largest prime number.
- Let q be the product of the first p numbers.
- Then q + 1 is not divisible by any of them.
- But q+1 is greater than 1, thus divisible by some prime number not in the first p numbers.

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Highlighting text

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A useful feature

Lists

For the first list we use an #+ATTR_BEAMER: :overlay +- specification. It acts like \begin{itemize}[<+->]. So, it will cause the list items to appear one after the other.

- item 1
- item 2
- item 3

For the second list we classify each line by angular brackets

- item 1
- item 2
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Two blocks animated by BEAMER_act

First Block

this is visible from the beginning

Second Block

 and this one is revealed afterwards by using the BEAMER_act keyword in the PROPERTIES section.

Two blocks animated by BEAMER act

First Block

this is visible from the beginning

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Two blocks with invisible layering

First Block

• this is visible from the beginning

Two blocks with invisible layering

First Block

• this is visible from the beginning

Second Block

 and this one is revealed afterwards by using the BEAMER_act keyword in the PROPERTIES section.

different transparency setting and default overlay

First Block

this is visible from the beginning. Note that we specified another transparency compared to the previous slide.

Second Block

and this is revealed later by using the BEAMER_act keyword in the frame's PROPERTIES section.

Third Block

Same here!

different transparency setting and default overlay

First Block

this is visible from the beginning. Note that we specified another transparency compared to the previous slide.

Second Block

and this is revealed later by using the BEAMER_act keyword in the frame's PROPERTIES section.

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Same here!

different transparency setting and default overlay

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Second Block

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Third Block

Same here!

plain text between two blocks

block 1

The first block

A plain text paragraph. I only managed to get the right uncovering behavior by using #+LATEX: \onslide<2-> in front of the paragraph.

block 2

The second block

plain text between two blocks

block 1

The first block

A plain text paragraph. I only managed to get the right uncovering behavior by using #+LATEX: \onslide<2-> in front of the paragraph.

block 2

The second block

plain text between two blocks

block 1

The first block

A plain text paragraph. I only managed to get the right uncovering behavior by using #+LATEX: \onslide<2-> in front of the paragraph.

block 2

The second block

Blocks in two columns

A left block

- this slide consists of two columns
- This is the first column

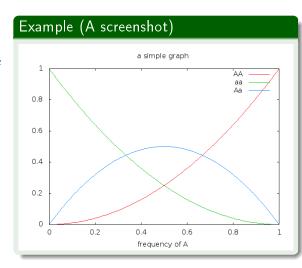
A right block

• this is the right column

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A text section and a figure

- this slide consists of two columns
- the first (left) column has no heading and consists of text
- the second (right) column has an image and is enclosed in an example block

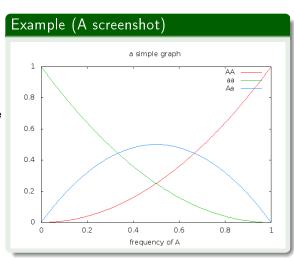


22 / 28

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A centered text section and a figure

 a centered text section. I found no good way for using \vfill or \minipage as referenced here



23 / 28

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Babel

Octave code

 $x = A \setminus b$

```
A = [1 \ 2 \ ; \ 3 \ 4]
b = [1; 1];
```

The output

1 2

3 4

x =

-1

Summary

- org is an incredible tool for time management
- but it is also excellent for writing and for preparing presentations
- Beamer is a very powerful LATEX package for presentations
- the combination is unbeatable!

Appendix

SOME BACKUP SLIDES. The Appendix will not be listed in the table of contents.

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Backup slide 1

Some backup info

Backup slide 2

These details are not part of the main talk.

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