Presentation with LaTeX

The Beamer documentclass – Till Tantau

Using Ferenc Wettl's presentation

Budapest University of Technology and Economics
Department of Algebra

2011-11-05

Time and quantity

- At most one slide per minute, but rather 3 minute/slide

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- Don't use visual effects just for the sake of the effect

Structuring the content

- `\section`, `\subsection`, `\frametitle`

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- or blocks (theorem-like environments: proof, definition, example. . .)
- colored emphasis `\alert`, `\structure` (alert, structure)

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You can see the different options here:
http://www.hartwork.org/beamer-theme-matrix/

Title frame

The title of this very presentation:

```
\title{Presentation with \LaTeX}
\subtitle{The Beamer documentclass -- Till Tantau}
\author[Gábor Borbély]{Using Ferenc Wettl's presentation}
\institute[BME Algebra]{Budapest University of Technology and
Department of Algebra}
\date{2011-11-05}

\begin{document}

\frame{\maketitle}
```

.

.

.

Use a template

- The beamer user guide, find it on CTAN or in the installation folder of you own computer
  http://mirrors.concertpass.com/tex-archive/macros/latex/contrib/beamer/doc/beameruserguide.pdf

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- Example files of the package

A single slide

- \begin{frame}{title} – a slide with title

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- `\begin{frame}{title}` – a slide with title
- `\begin{frame}[fragile]{title}` – use this of you have verbatim on the slide

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For example this very page starts this way:

```
\begin{frame}[<+->][fragile]{A single slide}

  \begin{itemize}
    \item \verb|\begin{frame}{|\alert{title}\verb|}| -- a slic
    .
    .
    .
```

Lists

A continuous

Lists

A continuous text

Lists

A continuous text paused

Lists

A continuous text paused word

Lists

A continuous text paused word by

Lists

A continuous text paused word by word

in code: `A continuous \pause text \pause paused...`

Lists

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- To make Roman numbered list: `\begin{enumerate}[<+->][(i)]`

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(i) To make Roman numbered list: `\begin{enumerate}[<+->][(i)]`

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A. And for this `\begin{enumerate}[<+->][A.]`

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- unfortunately the `\pause` command cannot break a multiline `amsmath` formula and it may interfere with the `[<+->]` argument

Tables

Header	A	B	C

Tables

Header	A	B	C
X	1	2	3

Tables

Header	A	B	C
X	1	2	3
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X	1	2	3
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```
\begin{tabular}{l|ccc}
 Header & A & B & C  \\\hline\pause
 X & 1 & 2 & 3 \pause \\
 Y & 4 & 5 & 6 \pause \\
 Z & 7 & 8 & 9 \pause
\end{tabular}
```

onslide, only, (in)visible, alt, temporal, uncover

1

\onslide<2>{}: |
\only<3>{}: |
\visible<1,3>{}: visible<1,3> |
\invisible<1,2>{}: |
\alt<2>{}{}: alt<2> second argument |
\temporal<2>{}{}{}: former |
\uncover<2>{}: |

onslide, only, (in)visible, alt, temporal, uncover

2

\onslide<2>{}: onslide<2> |
\only<3>{}: |
\visible<1,3>{}: |
\invisible<1,2>{}: |
\alt<2>{}{}: alt<2> first argument |
\temporal<2>{}{}{}: temporal<2> |
\uncover<2>{}: uncover<2> |

onslide, only, (in)visible, alt, temporal, uncover

3

\onslide<2>{}: |
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\temporal<2>{}{}{}: latter |
\uncover<2>{}: |

Theorem-like environments

Tétel

This is a theorem. (you own `\newtheorem` *definition)*

Pre-defined environments:

Theorem-like environments

Tétel

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Pre-defined environments:

Theorem

This is a theorem. (`theorem` *environment)*

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Definition

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Boxes

A simple block (block)

With a `block` environment: `\begin{block}{A simple block}`

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This is not good! (alertblock)

$1 = 2$.

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Example (exampleblock)

This is an example for a nice block

Serif font

- Sans Serif
  - default for beamer
  - optimized for readability, even on low-resolution projector

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$$123\alpha\beta$$

$$\int_a^b f(x)\,\mathrm{d}x$$

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