



CTUslides

simple slides in CTUstyle design using OpT_EX

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http://petr.olsak.net/ctustyle.html



Basics

- The document is included in a file (say file.tex) and it can be processed by optex file command.
- The header of the document should be:

```
\input ctustyle3 % CTUstyle macro for OpTeX
\slides % slides initialization
\worktype[B/EN] % type of the work (B,M,D,O) and language (CZ,SK,EN)
\faculty{F3} % the faculty in short
\department {Department of Mathematics} % department
\slideshow % begin of the document
... document ...
\pg.
```

- The document must be finished by $\protect\operatorname{\mathsf{Npg}}$ followed by period.
- You need OpTeX in the version Jun 2020 or newer. See http://petr.olsak.net/optex.
- The work type should be set similarly as in CTUstyle.
- Only \worktype, \faculty and \department work here. No more declaration sequences from CTUstyle.



The structural commands

- You can type * for starting of the item.
- Nested items lists (second and more level) are created in the \begitems...\enditems environments.
- The slide titles are created by \sec Text followed by end of line. For subsections, you can use \secc Text similarly.
- The title page (first slide) can be special if \tit Title (followed by end of line) is used here.
- The \subtit Author name etc. (followed by end of line) can be used after \tit at the first slide.
- The paragraph texts are ragged right.
- **You** can use \n 1 for new line in the paragraph or titles.
- **You** can use \pg followed by + or ; or . for new slide.
- The page-bar in the right corner is clickable and it will be created correctly after second pass of the T_EX run.



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 - the character + next page keeps the same text and a next text is added (usable for partially uncovering of ideas),

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\pg; ... next page
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If the control sequence \slideshow is removed (or commented out) from the beginning of the document then \pg+ sequences are deactivated. This is usable for printing version of the document.



Verbatim

Verbatim in paragraph

- Unlike CTUstyle for OPmac, you can use "code text" inside paragraph directly.
- If you declare \activettchar` before \slides then you can use
 `code text` like in Markdown.
- You can use \code{text} too.
- All these features are described in OpT_FX documentation.



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Multi-line verbatim

- Unlike CTUstyle for OPmac, you can use the pair \begtt...\endtt directly as described in OpT_EX documentation. No \pg= is needed.
- Of course, you can use \verbinut too, if you want.



Example of multi-line verbatim

The source code includes:

```
\begtt \hisyntac{C}
#include <stdio.h>
int main(); // This is a program in C
{
   printf("Hello world!\n");
}
\endtt
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and the result is:

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int main(); // This is a program in C
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```

Note that local declarations can be inserted after \begtt, the \hisyntax declaration is used in the example here.



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What to do?

If you need to partially uncover the multi-line verbatim then you can use:

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\begtt
... first line of the code ...
\endtt
\par\pg+ \vskip-6.75pt
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... second line of the code ...
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If you need to uncover the texts more ingenious then you can use \layers...\endlayers environment (see next slide...)



Uncovering by \layers, \pshow

- You can declare layers inside a slide by $\lceil \text{layers } n \dots \rceil$ endlayers pair. The number n declares the number of layers.
- The page with $\label{layers...}$ endlayers pair is repeated n-times.
- You can use \pshow k inside \layers...\endlayers environment.
 This macro means partially show. It prints the following text to the end of current group:
 - invisible, if the number of the slide layer is less than k,
 - red, if the number of slide the layer is equal to k,
 - normal (black), if the number of slide layers is greater than k.
- The verbatim text and \secc macros canot be used inside \layer environment.
- See OpT_EX documentation for more information.
- Next slide shows the usage of \pshow.



Ideas in special order

First idea

```
\secc Ideas in special order
\layers 3
* {\pshow1 First idea}
* {\pshow3 Second idea}
* {\pshow2 Third idea}
\endlayers
\pg+
\secc A formula
\layers 4
Consider
$$
 E = {\pshow2 m}{\pshow3 c^2}
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\endlayers
That is great!
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- Tables can be created by \table or \ctable macro.
- Pictures can be included by \inspic macro.
- See CTUstyle and OpTEX documentation for more details.
- The centering would be done by the \centerline macro.
- **Example:**

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You can use \puttext or \putpic macro for arbitrary positioning of texts or images.



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- the user of Beamer is forced to program his/her document using dozens of \begin{foo} and \end{foo} and many another programming constructions,
- on the other hand, plain T_EX gives you a possibility to simply write your document with minimal markup. The result is more compact.

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- You need to read 250 pages of doc for understanding Beamer,
- on the other hand, you need to read only ten slides** and you are ready to use CTUslides.
- A notice for programmers: to create another individual typographical design for LATEX is much more complicated than to do the same in plain TEX. And you need to seriously understand plain TEX if you want to do something more complicated in LATEX.

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Thanks for your attention

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Questions?