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FACULTY OF
ENGINEERING

ulund beamer template, LTH

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Beamer template: ulund for LTH

This file is a short introduction to the beamer template `ulund`, an attempt to mimic Lund University's ppt template in `LATEX` beamer.

Here the LTH version is used

Below follows:

- A short introduction to the implemented options in the template.
- Some examples

/Stefan Höst

Short manual

Beamer template: ulund

Start by including the beamer template `ulund`. The preamble for this document is essentially:

```
\documentclass[aspectratio=1610]{beamer}
\usepackage[utf8]{inputenc}
\usepackage[T1]{fontenc}
\usesthemef[LTHtemplate, logocol=neg]{ulund}
\titleimage{Fikapaus}
\title[ulund beamer]{ulund beamer template, LTH}
\author[S. Höst]{%
  Stefan Höst\n
  Dept. of EIT, Lund University}
\begin{document}
```

Options

The `ulund` theme comes with some options, as a comma separated list, set with

`\usetheme [<options>] {ulund}.`

The options are (default value in []):

- `titleimagecolor={ [gray], darkgray, red, blue, green}`
Background color of the default title frame and section frame.
Color can be changed with the command `\titleimagecolor{<color>}`.
- `titleimagemargin=<distance>`
White frame around page, default 2 mm.
Not more than 4 mm if you use logo in the footer
- `navigationsymbols={true, [false]}`
Beamer navigation symbols in the footer. Default off
- `mathseriffont={true, [false]}`
Serif math fonts

Options (cont'd)

- `foot={true, [false]}`
Print footer with pagenum, title and author. Default this is turned off
- `slidenumnofoot={[true], false}`
When `foot=false`, still print slide num (lower left). Default on
- `blackenumeratenumber={[true], false}`
Black enumerate numbers, otherwise Lund bronze.
- `blackitemmark={true, [false]}`
Black item marks, otherwise Lund bronze
- `defaultfont={true, [false]}`
Falls back to default beamer fonts, otherwise Palatino, Helvetica, Courier
- `sectionframe={[true], false}`
Print section frame for each section.

Options (logo)

- `logo={ [LU] , LTH }`
Decide which logo to use. Default is LU.
Todo: Implement logo choice for Helsingborg, N-fak and Nano Lund
- `logocol={ BW, [RGB] , neg }`
Black/white, color or negative (white). For `BW` and `RGB` the same logo is used on the title page and the end page, but for `neg` the end page logo is in color (`RGB`).
- `logolang={ [eng] , swe }`
English or Swedish logo text
- `LUseal={ [true] , false }`
LU seal on lower right corner of title and section page
- `footlogo={ [true] , false }`
Print the LU logo in the right part of the foot

Options (LTH version)

There are some differences in how different faculties want their expression of the template. The default is with the LU logo in color, with seal on title page and logo in the foot. In the LTH template apart from changing the logo, the seal and the logo in the foot is removed. There is also a gray background on each page. To implement this there are two options:

- `LTHbg={true, [false]}`
Prints the LTH gray background on each page.
- `LTHtemplate`, given without argument. (it is `{true, false}` and the option sets it to true).

This sets (and overrides other settings):

- `logo=LTH`
- `footlogo=false`
- `LUseal=false`
- `LTHbg=true`

Options (Old)

This template has been around for some time but recently been updated to the latest versions of the template. This has replaced some of the old options with more general, mainly to open for more versions of the logo. The following options are obsolete but should still work in the new implementation. They are kept to preserve backwards compatibility.

- `english={ [true], false }`
English logo. otherwise Swedish.
- `LTHlogo={true, [false] }`
Use LTH logo on front and end page, and LU logo in foot. Otherwise LU logo.
- `logoBW={true, [false] }`
Use black/white logo. Otherwise color

Footer

If `foot=true` it will print a footer on each page. This was given in early versions of LUs template but has been removed several years ago. It is still an option here, mainly for compatibility reasons. In the foot there are three positions; left, mid and right. The default is

<short author> <short title> <frame number>

To set other contents use the commands (here with default value)

- `\ulundfootleft{\insertshortauthor}`
- `\ulundfootmid{\insertshorttitle}`
- `\ulundfootright{\insertframenumber}`

To get total number of frames in the page number use e.g.

`\insertframenumber:\inserttotalframenumber`

Title page

The title page is printed with the command `\titlepage` inside a frame.

```
\begin{frame}[plain] % plain removes header and footer
  \titlepage
\end{frame} % (*)
```

(*) The % is needed to make the verbatim listing happy. Without it I get an error. Not sure why.

The title page has by default a coloured background, the logo in the left upper corner, the seal in the lower right corner, and the title and author in a white box. Instead of the standard monochrome background, any image can be used. Include by setting `\titleimage{<image>}`, e.g. `\titleimage{titlepictureGroup}` as on the next frame. Reset with `\titleimage{}`. The image is printed scaled and cropped so it fits the whole page, with aligned to the lower left corner.

⁹ If you have a dark image it is recommended to use the option `logocol=neg`.



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Installation

TeXlive

To find the root of the local TeX-tree, use the command

```
kpsewhich -var-value=TEXMFHOME
```

If the directory does not exist, create it. Then unpack the files into

<TEXMFHOME>/tex/latex/beamer/themes/. That means for

- MAC: ~/Library/texmf/tex/latex/beamer/themes/
- Linux: ~/Library/texmf/tex/latex/beamer/themes/
- Windows: <user>\texmf\tex\latex\beamer\themes\

MiKTeX

- Windows: ?

For more details see: tex.stackexchange.com/q/1137/95544

To do

There are always more to do and more stuff to include in the template and the examples. Some things are:

- Command `\sectionimage{ }{ }` to put optional image on section slide. It can also be used to put images on normal slides as backgrounds.
- Fill parts of slide, say half or one third, from top to bottom with an image. Or several images. This can probably be an example, showing how to find the corners.
- Options for other logos than LU and LTH. I will try to include Campus Helsingborg, N-fak, and NanoLund, since I have those logos. If there is a demand for more let me know. It is fairly straight forward, but it does not write itself.
- Command for second logo. Or an optional logo and put whatever you like there. It can even be by an example to show how to put whatever as a logo.

Questions, comments and suggestions: stefan.host@eit.lth.se

Examples

Theorems and other blocked material (1)

```
\begin{definition} [def]  
  Lorem ipsum dolor ...  
\end{definition}
```

```
\begin{theorem} [theorem]  
  Lorem ipsum dolor ...  
\end{theorem}
```

```
\begin{example} [example]  
  Lorem ipsum dolor ...  
\end{example}
```

Definition (def)

*Lorem ipsum dolor sit amet, consectetuer
adipiscing elit.*

Theorem (theorem)

*Lorem ipsum dolor sit amet, consectetuer
adipiscing elit.*

Example (example)

*Lorem ipsum dolor sit amet, consectetuer
adipiscing elit.*

Theorems and other blocked material (2)

```
\begin{lemma}[lemma]
```

 Lorem ipsum dolor ...

```
\end{lemma}
```

```
\begin{corollary}[corollary]
```

 Lorem ipsum dolor ...

```
\end{corollary}
```

Lemma (lemma)

Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

Corollary (corollary)

Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

Theorems and other blocked material (3)

```
\begin{alertblock}{Alert}
  Lorem ipsum dolor ...
\end{alertblock}
```

```
\begin{block}{Block}
  Lorem ipsum dolor ...
\end{block}
```

```
\begin{exampleblock}{Example}
  Lorem ipsum dolor ...
\end{exampleblock}
```

Alert

Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

Block

Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

Example

Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

Items and such

```
\begin{itemize}
\item First item level
  \begin{itemize}
    \item Second item level
      \begin{itemize}
        \item Third item level
      \end{itemize}
    \end{itemize}
  \end{itemize}
\item<alert@1> Alert
\item<lualert@1> LU-alert
\end{itemize}

[Same with enumerate]
```

- First item level
 - Second item level
 - » Third item level
- Alert
- LU-alert (alert bullet)
 1. First enumerate level
 - 1.1 Second enumerate level
 - 1.1.1 Third enumerate level
 2. Alert
 3. LU-alert (alert number)

Picture in column



In the LU template there are examples of slides with one column occupied by an image. This frame:

```
\begin{columns} [onlytextwidth]
  \begin{column} {0.3\textwidth}
    \columnpicture{titlepictureGroup}
  \end{column}
\end{columns} %
\begin{column} {0.65\textwidth}
  [Text]
\end{column}
```

A picture like this is for decoration. Important pictures should be included the normal way.

End page

Finally, the end of the presentation should state where you are from:

```
\begin{frame}[plain]
  \endpage
\end{frame}%
```

See next slide

$$\sum_{n^+} i_n$$



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