

SLEEK BEAMER THEME

Demonstration and short introduction to beamer

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FEUP



STRUCTURE

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INTRODUCTION

WHAT IS BEAMER?

The beamer classes for \LaTeX are used to create presentations that are to be shown with a beamer. The text typesetting system creates PDF files that can be shown by a large number of programmes.

The present theme was adapted from HSRM theme by Benjamin Weiss and it makes the creation of slides (assuming basic knowledge of \LaTeX) child's play.

SYSTEM REQUIREMENTS

In order to successfully create presentations with this theme, the following requirements must be met by the system:

- LuaLaTeX must be used to typeset the slides.
- Besides some standard packages, the packages `beamer`, `pgf` and `xcolor` must be installed.
- The fonts 'Flama-Light', 'Flama-Book' and 'Flama-Medium' should be installed.
Alternative: 'Arial'

<http://www.felicianotypefoundry.com/>

TUTORIAL

BASIC STRUCTURE OF THE DOCUMENT

The basic structure is simple:

```
1 \documentclass[compress]{beamer}
2 % Theme
3 \usetheme{sleek}
4 % General presentation settings
5 \title{Presentation title}
6 \subtitle{Subtitle of the presentation}
7 \author{Your name}
8 \institute{Study area \\\ {\Medium FEUP}}
9 \begin{document}
10 %Slides
11 \end{document}
```

THEME OPTIONS

To customise the presentation, the following options can be selected.

Option	Effect
<code>noflama</code>	If you do not want the Flama font you can switch to the Arial font with this option.
<code>noserifmath</code>	Formulas are also set sans serif.
<code>nosectionpages</code>	The section introduction pages will be hidden.
<code>footline</code>	Footline with author, course and slide number.

PRIMARY COLOURS

All colours predefined are listed below and in the following slide. You may add more using the same code structure as in the `colors.tex` file.

`maincolor`

`sleekRed`

`sleekRedDark`

`sleekWarmGreyDark`

`sleekWarmGreyLight`

`sleekLightGrey`

`maincolor`

`sleekRed`

`sleekRedDark`

`sleekWarmGreyDark`

`sleekWarmGreyLight`

`sleekLightGrey`

SECONDARY COLOURS

sleekSec1

sleekSec1Dark

sleekSec1Comp

sleekSec1CompDark

sleekSec2

sleekSec2Dark

sleekSec2Comp

sleekSec2CompDark

sleekSec3

sleekSec3Dark

sleekSec3Comp

sleekSec3CompDark

sleekSec1

sleekSec1Dark

sleekSec1Comp

sleekSec1CompDark

sleekSec2

sleekSec2Dark

sleekSec2Comp

sleekSec2CompDark

sleekSec3

sleekSec3Dark

sleekSec3Comp

sleekSec3CompDark

SLIDE STRUCTURE

Structure in Beamer is the same as in \LaTeX using `section`, `subsection`, etc. For slides the `frame` environment is defined.

The slide title can be passed directly to the `frame` environment or set within the environment using `\frametitle{slide title}`

```
1 \section{My Section}
2 \subsection{My Subsection}
3 \begin{frame}
4 \frametitle{slide title}
5 % slide content
6 \end{frame}
```

TITLE PAGE AND TABLE OF CONTENTS

The title page is created with

```
1 \maketitle
```

And the table of contents with

```
1 \begin{frame}{outline}  
2   \tableofcontents[hideallsubsections]  
3 \end{frame}
```

The option `hideallsubsections` is useful for longer presentations to keep the table of contents compact.

ENUMERATIONS

Enumerations are possible with the `enumerate` and the `itemize` environment.

1. Item 1
 - 1.1 Nested item
2. Item 2
 - Point 1
 - Point 2
3. Item 3

ENUMERATIONS WITH TIMINGS

A list may be presented showing each bullet or item one by one. To achieve this result please see the source code for this frame. The standard display style is the one on the left, if you want to see the upcoming items just add the command `\setbeamercovered{transparent}` before the beginning of the document (right column).

- Visible from the 1st slide

- Visible from the 1st slide
- Visible from the 2nd slide
- Visible from the 3rd slide

ENUMERATIONS WITH TIMINGS

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- Visible from the 1st slide
- Visible from the 2nd slide
- Visible from the 1st slide
- Visible from the 2nd slide
- Visible from the 3rd slide

Display content at a specific slide

There is also the option to show content only at a specific slide or set of slides, using the command `\only`. The `\onslide` command can also be used, but the behaviour is a little different.

ENUMERATIONS WITH TIMINGS

A list may be presented showing each bullet or item one by one. To achieve this result please see the source code for this frame. The standard display style is the one on the left, if you want to see the upcoming items just add the command `\setbeamercovered{transparent}` before the beginning of the document (right column).

- Visible from the 1st slide
- Visible from the 2nd slide
- Visible from the 3rd slide

- Visible from the 1st slide
- Visible from the 2nd slide
- Visible from the 3rd slide

EMPHASIS

In the Beamer class, the function `\alert` is defined to highlight individual words.
Example:

- **highlighted text**
- This phrase is an example of the **alert** command.

Additionally, `\quoted` and `\doublequoted` can be used, resulting in the following outputs:

‘single quotation marks’

“Double quotation marks”

SIMPLE BLOCK WITH BULLETED AND ENUMERATED LIST

Block environments are defined in Beamer for structuring purposes.

Block with bulleted an enumerated list

- Point 1
 - 1. Item 1

```
1 \begin{block}{Block with bulleted an enumerated list}
2   \begin{itemize}
3     \item Point 1
4       \begin{enumerate}
5         \item Item 1
6       \end{enumerate}
7   \end{itemize}
8 \end{block}
```

ALERT BLOCK

Alert Block

An Alert Block is coloured with the first primary colour.

```
1 \begin{alertblock}{Alert Block}
2     An Alert Block is coloured with the first primary
      colour.
3 \end{alertblock}
```

EXAMPLE BLOCK

Example Block

An Example Block is coloured with the first secondary colour.

```
1 \begin{exampleblock}{Example Block}
2     An Example Block is coloured with the first secondary
   colour.
3 \end{exampleblock}
```

BLOCK WITH OTHER COLOUR

Block with other colour

Another secondary colour is used in this block.

```
1 \begingroup
2 \setbeamercolor{block title}{bg=sleekSec2Dark}
3 \setbeamercolor{block body}{fg=white,bg=sleekSec2}
4 \begin{block}{Block with other colour}
5     Another secondary colour is used in this block.
6 \end{block}
7 \endgroup
```

EXAMPLE SLIDES

OTHER EXAMPLES

Below are more example slides attached without additional explanation.
Just have a look at the source code to see how the slides were created.

PHOTO WITH COPYRIGHT



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PLOT WITH CAPTION

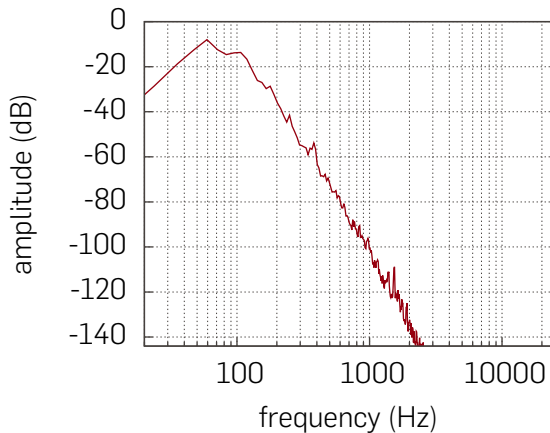


Figure: LFE channel frequency spectrum

TABLE

Table: Selection of window function and their properties

Window	First side lobe	3 dB bandwidth	Roll-off
Rectangular	13.2 dB	0.886 Hz/bin	6 dB/oct
Triangular	26.4 dB	1.276 Hz/bin	12 dB/oct
Hann	31.0 dB	1.442 Hz/bin	18 dB/oct
Hamming	41.0 dB	1.300 Hz/bin	6 dB/oct

FORMULAS

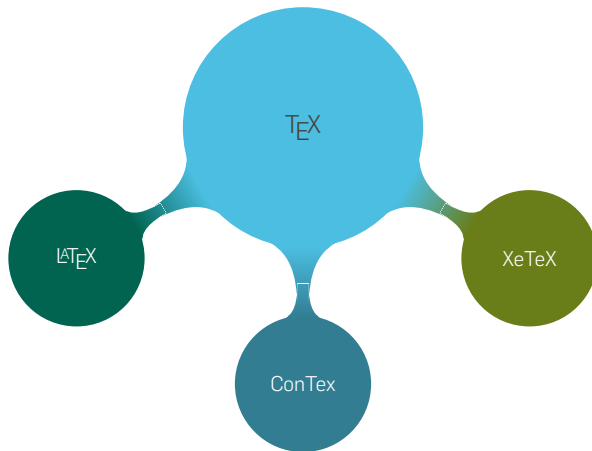
Fourier Integral

$$F(j\omega) = \int_{-\infty}^{\infty} f(t) \cdot e^{-j\omega t} dt$$

Factorial

$$n! = 1 \cdot 2 \cdot 3 \cdot \dots \cdot n = \prod_{k=1}^n k$$

MINDMAP WITH TIKZ



FOOTNOTES

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem¹ ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.

¹Lorem ipsum dolor sit amet

SLIDE WITH ASSOCIATED NOTES SLIDE

This slide is for the audience.

The following programmes are suitable for its presentation:

- Splitshow (Mac OS X)
[urlhttps://code.google.com/p/splitshow/](https://code.google.com/p/splitshow/)
- pdf-presenter (Windows)
[urlhttps://code.google.com/p/pdf-presenter/](https://code.google.com/p/pdf-presenter/)

Sleek Beamer Theme

└ Example slides

└ Notes

└ slide with associated notes slide

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- pdf-presenter (Windows)
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Use this slide for your notes on the presentation.

The following programmes are suitable for your presentation:

- Splitshow (Mac OS X)
<https://code.google.com/p/splitshow/>
- pdf-presenter (Windows)
<https://code.google.com/p/pdf-presenter/>

TWO COLUMNS

Lorem ipsum dolor sit amet, consetetur
sadipscing elitr, sed diam nonumy eirmod
tempor invidunt ut labore et dolore
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Lorem ipsum dolor sit amet.

- one entry
- another entry

COLUMN BREAK

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tempor invidunt ut labore et dolore
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dolores et ea rebum. Stet clita kasd
gubergren, no sea takimata sanctus est
Lorem ipsum dolor sit amet.

- one entry
- another entry

REFERENCES



Alan V. Oppenheim
"Discrete-Time Signal Processing"
Prentice Hall Press, 2009



European Broadcasting Union
"Specification of the Broadcast Wave Format (BWF)"
2011

OUTLOOK

TO DO

- An option to a more complete footline needs to be added.

QUESTIONS, COMMENTS, CONTACT

The SLEEK theme is licensed under the 'GNU Public License'. So it may be redistributed and modified as long as the license type is kept.

Please feel free to contact me if you have any questions or comments.

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