

# SLEEK BEAMER THEME

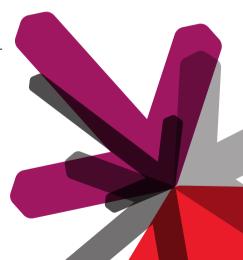
Demonstration and short introduction to beamer

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DEMEC

FEUP



Structure

- 1. Introduction
- 2. Tutorial
- 3. Example slides
- 4. Outlook



#### 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 adapeted 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 default fonts are 'Flama-Light', 'Flama-Book' and 'Flama-Medium', the font files required are inside the sleektheme folder. Alternatively 'Arial' may be used.



#### BASIC STRUCTURE OF THE DOCUMENT

# The basic structure is simple:

- \documentclass[compress]{beamer}
- % Theme
- \usetheme{sleek}
- % General presentation settings
- \title{Presentation title}
- \subtitle{Subtitle of the presentation}
- \author{Your name}
- \institute{Study area \\ {\Medium FEUP}}
- \begin{document}
- %Slides
- 11 \end{document}

### THEME OPTIONS

To customise the presentation, the following options can be specified when loading the theme package, in the options field, \usepackage[options]{package}.

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

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#### PRIMARY COLOURS

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

maincolor

sleekRed

sleekRedDark

sleekWarmGreyDark

sleekWarmGrevLight

maincolor

sleekRed

sleekRedDark

sleekWarmGreyDark

#### SECONDARY COLOURS

sleekSec1

sleekSec1Dark

sleekSec1Comp

sleekSec1CompDark

sleekSec2

sleekSec2Dark

sleekSec2Comp

sleekSec2CompDark

sleekSec1

sleekSec1Dark

sleekSec1Comp

sleekSec1CompDark

sleekSec2

sleekSec2Dark

sleekSec2Comp

sleekSec2CompDark

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#### SECONDARY COLOURS

| _ ¬   |          | - 1- | $\alpha$ | ec3    |
|-------|----------|------|----------|--------|
| - C I | $\Delta$ | אב   | S 6      | $\sim$ |
|       |          |      |          |        |

sleekSec3Dark

sleekSec3Comp

sleekSec3CompDark

#### 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

\maketitle

#### And the table of contents with

- \begin{frame}{outline}
- \tableofcontents[hideallsubsections]
- \end{frame}

The option hideall subsections is useful for longer presentations to keep the table of contents compact.

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#### **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.

Visible from the 1st slide

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

#### **ENUMERATIONS WITH TIMINGS**

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

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

The standard display style is the one on the left, if you want to see the upcoming items (right column style) just add the command \setbeamercovered{transparent} before the beginning of the document.

#### **ENUMERATIONS WITH TIMINGS**

- 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

# 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.

#### **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

```
begin{block}{Block with bulleted an enumerated list}
begin{itemize}

item Point 1
begin{enumerate}

item Item 1
hend{enumerate}

end{itemize}

hend{block}
```

### ALERT BLOCK

#### Alert Block

An Alert Block is coloured with the first primary colour.

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

# **EXAMPLE BLOCK**

# Example Block

An Example Block is coloured with the first secondary colour.

- h \begin{exampleblock}{Example Block}
- An Example Block is coloured with the first secondary colour.
- 3 \end{exampleblock}

#### **BLOCK WITH OTHER COLOUR**

#### Block with other colour

- \begingroup
- \setbeamercolor{block title}{bg=sleekSec2Dark}
- \setbeamercolor{block body}{fg=white,bg=sleekSec2}
- \begin{block}{Block with other colour}
  - Another secondary colour is used in this block.
- \end{block}
- \endgroup



#### 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



# PLOT WITH CAPTION

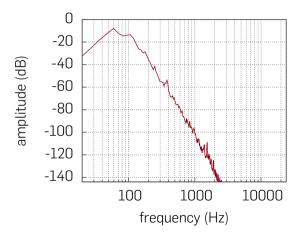


Figure: LFE channel frequency spectrum

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# **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  |

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# **FORMULAS**

# Fourier Integral

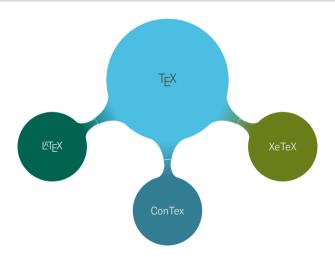
$$F(j\omega) = \int_{-\infty}^{\infty} f(t) \cdot e^{-j\omega t} dt$$

# **Factorial**

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

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# MINDMAP WITH TIKZ



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#### **FOOTNOTES**

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<sup>&</sup>lt;sup>1</sup>Lorem 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/
- pdf-presenter (Windows) urlhttps://code.google.com/p/pdf-presenter/

This state is for the audience.
The following programmes are suitable for its presentation:

• Solithow Mass 05 X)

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SLIDE WITH ASSOCIATED MOTES SLIDE

pdf-presenter (Windows)
 urlhttps://code.google.com/p/odf-presenter/

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 magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo

dolores et ea rehum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.

- one entry
- another entry

#### **COLUMN BREAK**

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- 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



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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