

Statale Beamer Presentation Theme

Using LaTeX to prepare slides

Master's Degree in Philosophical Science

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Hi! I'm Giorgio and this template is a based on SINTEF Presentation from Federico Zenith and its derivation Beamer-LaTeX-Themes from Liu Qilong

In the following you find a brief introduction on how to use LaTeX and the beamer package to prepare slides, based on the one written by Federico Zenith for SINTEF Presentation
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You can also find the template files in its Github repository.



Table of Contents

1 Introduction

- Introduction
- Personalization
- Summary



Beamer for slides

1 Introduction

- We assume you can use LaTeX; if you cannot, you can learn it here
- Beamer is one of the most popular and powerful document classes for presentations in LaTeX
- Beamer has also a detailed user manual
- Here we will present only the most basic features to get you up to speed



Beamer vs. PowerPoint

Compared to PowerPoint, using LaTeX is better because:

- It is not What-You-See-Is-What-You-Get, but What-You-*Mean*-Is-What-You-Get: you write the content, the computer does the typesetting
- Produces a `pdf`: no problems with fonts, formulas, program versions
- Easier to keep consistent style, fonts, highlighting, etc.
- Math typesetting in TeX is the best:

$$\mathrm{i}\,\hbar\frac{\partial}{\partial t}\Psi(\mathbf{r},t) = -\frac{\hbar^2}{2\,m}\nabla^2\Psi(\mathbf{r},t) + V(\mathbf{r})\Psi(\mathbf{r},t)$$



Getting Started

Selecting the Theme

To start working with `beamer_statale`, start a LaTeX document with the preamble:

Minimum Statale Beamer Document

```
\documentclass{beamer}
\usetheme{statale}
\begin{document}
\begin{frame}{Hello, world!}
\end{frame}
\end{document}
```



Title page

1 Introduction

To set a typical title page, you call some commands in the preamble:

The Commands for the Title Page

```
\title{Sample Title}
\subtitle{Sample subtitle}
\author{First Author, Second Author}
\date{\today} % Can also be (ab)used for conference name &c.
```

You can then write out the title page with `\maketitle`.
To set a **background image** use the `\titlebackground` command before `\maketitle`; its only argument is the name (or path) of a graphic file.
If you use the **starred version** `\titlebackground*`, the image will be clipped to a split view on the right side of the title slide.



Writing a Simple Slide

It's really easy!

- A typical slide has bulleted lists



Writing a Simple Slide

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- These can be uncovered in sequence



Writing a Simple Slide

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Code for a Page with an Itemised List

```
\begin{frame}{Writing a Simple Slide}
    \framesubtitle{It's really easy!}
        \begin{itemize}[<+->]
            \item A typical slide has bulleted lists
        \item These can be uncovered in sequence
\end{itemize}\end{frame}
```



Table of Contents

2 Personalization

▶ Introduction

▶ Personalization

▶ Summary



Changing Slide Style

2 Personalization

- You can select the white or *maincolor* **slide style** *in the preamble* with `\themecolor{white}` (default) or `\themecolor{main}`
  - You should *not* change these within the document: Beamer does not like it
  - If you *really* must, you may have to add `\usebeamercolor[fg]{normal text}` in the slide
- You can change the **footline colour** with `\footlinecolor{color}`
  - Place the command *before* a new `frame`
  - There are four "official" colors: `maincolor`, `stataleyellow`, `statalegreen`, `stataledarkgreen`
  - Default is no footline; you can restore it with `\footlinecolor{}`
  - Others may work, but no guarantees!
  - Should *not* be used with the `maincolor` theme!



Blocks

2 Personalization

Standard Blocks

These have a color coordinated with the footline (and grey in the blue theme)

```
\begin{block}{title}
content...
\end{block}
```

Colour Blocks

Similar to the ones on the left, but you pick the colour. Text will be white by default, but you may set it with an optional argument.

```
\begin{colorblock}[black]{statalelightgreen}{title}
content...
\end{colorblock}
```

The “official” colours of colour blocks are:
statalelilla, maincolor,
stataledarkgreen, and stataleyellow.



Using Colours

- You can use colours with the `\textcolor{<color name>}{text}` command
- The colours are defined in the `statale_colors` package:
  - Primary colours: `maincolor` and its sidekick `statalegrey`
  - Three shades of green: `statalelightgreen`, `statalegreen`, `stataledarkgreen`
  - Additional colours: `stataleyellow`, `statalered`, `statalelilla`
- Do *not* abuse colours: `\emph{}` is usually enough
- Use `\alert{}` to bring the focus somewhere



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- Do *not* abuse colours: `\emph{}` is usually enough
- Use `\alert{}` to bring the focus somewhere
- If you highlight too much, you don't highlight at all!



Adding images

Adding images works like in normal LaTeX:

Code for Adding Images

```
\usepackage{graphicx}
% ...
\includegraphics[width=\textwidth]
{ASSETS/logo_RGB}
```





Splitting in Columns

Splitting the page is easy and common; typically, one side has a picture and the other text:

This is the first column

And this the second

Column Code

```
\begin{columns}
    % adding [onlytextwidth] the left margins will be set correctly
    \begin{column}{0.6\textwidth}
        This is the first column
    \end{column}
    \begin{column}{0.3\textwidth}
        And this the second
    \end{column}
    % There could be more!
\end{columns}
```

Chapter Slides

2 Personalization

- Chapter slides
- Side-picture slides



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Chapter slides

2 Personalization

- Similar to `frames`, but with a few more options
- Opened with `\begin{chapter}[<image>]{<color>}{<title>}`
- Image is optional, colour and title are mandatory
- There are seven “official” colours: `maincolor`, `stataledarkgreen`, `statalegreen`, `statalelightgreen`, `statalered`, `stataleyellow`, `statalelilla`.
  - Strangely enough, these are *more* than the official colours for the footline.
  - It may still be a nice touch to change the footline of following slides to the same color of a chapter slide. Your choice.
- Otherwise, `chapter` behaves just like `frame`.



Side-Picture Slides

2 Personalization

- Opened with `\begin{sidepic}{<image>}{<title>}`
- Otherwise, `sidepic` works just like `frame`





Fonts

2 Personalization

- The paramount task of fonts is being readable
- There are good ones…
  - Use serif fonts only with high-definition projectors
  - Use sans-serif fonts otherwise (or if you simply prefer them)
- … and not so good ones:
  - `Never use monospace for normal text`
  - Gothic, calligraphic or weird fonts should always be avoided



Look

2 Personalization

- To insert a final slide with the title and final thanks, use `\backmatter`.
  - The title also appears in footlines along with the author name, you can change this text with `\footlinepayoff`
  - You can remove the title from the final slide with `\backmatter[notitle]`
- The aspect ratio defaults to 16:9, and you should not change it to 4:3 for old projectors as it is inherently impossible to perfectly convert a 16:9 presentation to 4:3 one; spacings *will* break
  - The `aspectratio` argument to the `beamer` class is overridden by the SINTEF theme
  - If you *really* know what you are doing, check the package code and look for the `geometry` class.



Table of Contents

3 Summary

- Introduction
- Personalization
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Good Luck!

3 Summary

- Enough for an introduction! You should know enough by now
- If you have corrections or suggestions, send them to me!



Statale Beamer Presentation Theme

Thank you for listening!
Any questions?