

GoicO Mini-batch Learn

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This template is a based on SINTEF Presentation from Federico Zenith and its derivation Beamer-LaTeX-Themes from Liu Qilong

THU style adaptation contributed by Wenhao Fang SDU style adaptation contributed by Penghong Gao

In the following you find a brief introduction on how to use <u>KTEX</u> and the beamer package to prepare slides, based on the one written by <u>Federico Zenith</u> for <u>SINTEF Presentation</u>

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- We assume you can use \(\mathbb{E} \mathbb{E} \mathbb{E} \); if you cannot, you can learn it here
- Beamer is one of the most popular and powerful document classes for presentations in MTEX
- 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

1 Introduction

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 T_FX is the best:

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



To start working with sintefbeamer, start a Lagrange document with the preamble:

Minimum SINTEF Beamer Document

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



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.



• A typical slide has bulleted lists



Writing a Simple Slide

It's really easy!

- A typical slide has bulleted lists
- 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}
```



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Changing Slide Style

- 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, sintefyellow, sintefgreen, sintefdarkgreen
 - Default is no footline; you can restore it with \footlinecolor{}
 - Others may work, but no guarantees!
 - Should not be used with the maincolor theme!



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]{sinteflightgreen}{title}
content...
\end{colorblock}

The "official" colours of colour blocks are: sinteflilla,

maincolor, sintefdarkgreen, and

sintefyellow.



Using Colours

- You can use colours with the \textcolor{<color name>}{text} command
- The colours are defined in the sintefcolor package:
 - Primary colours: maincolor and its sidekick sintefgrey
 - Three shades of green: sinteflightgreen, sintefgreen,
 - sintefdarkgreen
 - Additional colours: sintefyellow, sintefpurple, sinteflilla, testcolornuaablue
 - o These may be shaded—see the sintefcolor documentation or the SINTEF profile manual
- Do not abuse colours: \emph{} is usually enough
- Use \alert{} to bring the focus somewhere



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 - o These may be shaded—see the sintefcolor documentation or the SINTEF profile manual
- 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 works like in normal **ETEX**:

Code for Adding Images

\usepackage{graphicx}
\includegraphics[width=\textwidth]{assets/gpnu-log





Splitting in Columns

2 Personalization

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}
   \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}
```



Special Slides

² Personalization

- Chapter slides
- Side-picture slides





Chapter slides

- 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, sintefdarkgreen,
 - sintefgreen, sinteflightgreen, sintefpurple,
 - sintefyellow, sinteflilla, nuaablue, nuaalightblue.
 - 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

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





Fonts

- 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

- 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.



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



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Thank you for listening!
Any questions?