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NATIONAL TSING HUA UNIVERSITY

NTHU ATLAS Expt. Beamer Presentation Theme

Weekly Meeting @ NTHU Expt. HEP Group

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Contents



- ▶ Introduction
- ▶ Editing
- ▶ Summary





- 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 also has 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:

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

Contents



- ▶ Introduction
- ▶ Editing
- ▶ Summary



Selecting the Class



After the last update to the graphic profile, the sintef theme for Beamer has been updated into a full-fledged class. To start working with sintefbeamer, start a \LaTeX document with the preamble:

Minimum SINTEF Beamer Document

```
1 \documentclass{sintefbeamer}
2 \begin{document}
3 \begin{frame}{Hello, world!}
4 \end{frame}
5 \end{document}
```



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

The Commands for the Title Page

```
1 \title{Sample Title}
2 \subtitle{Sample subtitle}
3 \author{First Author, Second Author}
4 \date{Defaults to today's}
```

You can then write out the title page with `\maketitle`. You can set a different background image than the default one with the `\titlebackground` command, set before `\maketitle`. In the backgrounds folder, you can find a lot of standard backgrounds for SINTEF presentation title pages.

Writing a Simple Slide

It's really easy!



- A typical slide has bulleted lists

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- These can be uncovered in sequence

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Code for a Page with an Itemised List

```
1 \begin{frame}  
2   \frametitle{Writing a Simple Slide}  
3   \framesubtitle{It's really easy!}  
4   \begin{itemize}[<+>]  
5     \item A typical slide has bulleted lists  
6     \item These can be uncovered in sequence  
7   \end{itemize}  
8 \end{frame}
```

Adding images



Adding images works like in normal \LaTeX :

Code for Adding Images

```
1 \usepackage{graphicx}
2 % ...
3 \includegraphics
4 [width=\textwidth]{images/default}
```



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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

```
1 \begin{columns}
2   \begin{column}{0.6\textwidth}
3     This is the first column
4   \end{column}
5   \begin{column}{0.3\textwidth}
6     And this the second
7   \end{column}
8   % There could be more!
9 \end{columns}
```



- The paramount task of fonts is to be 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



- To change the color of the title dash, give one of the class options `cyandash` (default), `greendash`, `magentadash`, `yellowdash`, or `nodash`.
- To change between the light and dark themes, give the class options `light` (default) or `dark`. It is not possible to switch themes for one slide because of the design of Beamer—and it's probably a good thing.
- To insert a final slide, use `\backmatter`.
- The aspect ratio defaults to 16:9, but you can change it to 4:3 for old projectors by passing the class option `aspectratio=43`; any other values accepted by Beamer are also possible.

Contents



- ▶ Introduction
- ▶ Editing
- ▶ Summary



Good Luck!



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

Backup



Here is an example of using the blank page test.

Blank title recover test.



Is it back to normal? (Need to be yes.)



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