# Beamer Template For Sun Yat-sen University

## Using LaTeX to prepare slides

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# About this template

- Official template following SYSU visual identity guidelines about how to use LaTeX and beamer to prepare slides.

- Licensed under MIT LICENSE

- Latest version available at SYSU LaTeX GitHub

# Table of Contents

- 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

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:

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

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 Beamer Document

```
1 \documentclass{beamer}
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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### 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 works like in normal LaTeX:

### Code for Adding Images

```
1 \usepackage{graphicx}
2 % ...
3 \includegraphics
4 [width=\textwidth]{src/SYSU/color-logo.pdf}
5
```

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

<div align="center">Column Code</div>

```
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 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

- To change the colour 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 theme 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.

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- Template Repository: LulietLyan/SYSU-Beamer
- Enough for an introduction! You should know enough by now
- If you have corrections or suggestions, send them to me!

THANKS

**Temporary page!**

LATEX was unable to guess the total number of pages correctly. As there was some unprocessed data that should have been added to the final page this extra page has been added to receive it.

If you rerun the document (without altering it) this surplus page will go away, because LATEX now knows how many pages to expect for this document.