开题报告
基于联邦学习的轨迹大数学隐私保护方案研究

使用 LaTeX 制作演示文稿

IP 属地中国

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本模版基于 Federico Zenith 发布的 SINTEF Presentation 模版二次修改制作而成

后文为 Federico Zenith 为模版提供的简明教程，版权归其所有

Table of Contents

▶ LaTeX 与 Beamer 简介

▶ 编辑方法

▶ 总结

- 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:

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

Table of Contents

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:

<div align="center">The Commands for the Title Page</div>

```latex
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]{images/default}
```

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 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.

Table of Contents

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

Q&A

感谢您的聆听和反馈