



中国科学院大学

University of Chinese Academy of Sciences



UCAS Unofficial Beamer Template

A Subtitle

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博学笃志
格物明德
浩气长存



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- | Editing
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Acknowledgement



Special thanks to Rui Song from Hong Kong Polytechnic University (PolyU). This template is based on [PolyU Beamer Slides](#). This modification has been authorized.

Official resources, including logos, motto, calligraphy, are referenced from [UCAS Onestop Site](#). We have received authorization from UCAS for usage of these resources. CASIA logo is from [UCAS \(CASIA\) Beamer Theme](#). Background pictures are from the internet.

Not for commercial use!!!

Some useful info:

- UCAS Blue: RGB(23, 73, 148)
- The background pictures are Yanqi Lake Campus of UCAS



- 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 $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ 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 $\text{T}_{\text{E}}\text{X}$ is the best (e.g.: \mathbb{W}_p distance):

$$\mathbb{W}_p(\mathbf{p} \parallel \mathbf{q}) = \inf_{\gamma} \left\{ \int_{\mathcal{X} \times \mathcal{Y}} d(\mathbf{x}_i, \mathbf{y}_j)^p d\gamma(\mathbf{x}_i, \mathbf{y}_j) \mid \gamma \in \Gamma(\mathbf{p}, \mathbf{q}) \right\}^{1/p} \quad (1)$$

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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



Writing a Simple Slide

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- A typical slide has bulleted lists
- 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{graphics}
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 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



- To change the colour of the title dash, give one of the class options `cyandash` (default), `greendash`, `magentadash`, `yelldash`, 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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Good Luck!



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



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Motto of UCAS by former President Yongxinag Lu of CAS.

I provide three translations of my own here (probably not accurate):

English: *Refined Wisdom, Diligent Aspiration, Unyielding Quest, Luminous Virtue.*

Français: *Sagesse Rannée, Aspiration Assidue, Quête Inflexible, Vertu Lumineuse.*

Latin: *Multam Eruditionem, Firmam Voluntatem, Investigatio Rerum, Illuminatio Virtutis.*