

Westlake Beamer Presentation Theme

Using L^AT_EX to prepare slides



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School of Engineering

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Contents

▶ Introduction

▶ Examples

▶ Summary

Slide-Making in L^AT_EX



We assume that you can use L^AT_EX. If not, you can refer to [this page](#).

Beamer is one of the most popular and influential document classes for slide-making in L^AT_EX. You can find its [full manual here](#).

Here, we will only introduce the basic functionalities so you can master them immediately.

Beamer vs. MS PowerPoint



Compared to Microsoft PowerPoint, L^AT_EX and Beamer provides these advantages:

- Beamer produces a .pdf file with no problems on fonts, formulas, or program versions.
- Math typesetting in L^AT_EX is much easier, e.g.,

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

Contents

▶ Introduction

▶ Examples

▶ Summary

To begin with, just use **beamer** document class with **poly** theme. It should be noted that the **poly.sty** file should be included in the same directory as the **main.tex** file.

Preamble about the document class

```
1 \documentclass[10pt,aspectratio=169]{beamer}  
2 \usepackage{poly}
```

You can change the **aspectratio** to 43 to adjust the slide aspect ratio to 4:3.

You can change the metadata displayed on the title slide:

Metadata

```
1 \title{Your Title}
2 \subtitle{Your Subtitle}
3 \author{First Author, Second Author}
4 \institute[COMP]{Department of Computing}
5 \date{Date}
```

Once settled, you can render the title slide with the command `\maketitle` in the body.

Texts

In a Sequence



- A typical slide has bulleted points.

Texts

In a Sequence



- A typical slide has bulleted points.
- These can be uncovered in sequence.

Texts

In a Sequence



- A typical slide has bulleted points.
- These can be uncovered in sequence.
- When rendered, they will be separated into multiple slides.

Images

Adding images works like in normal L^AT_EX:



Figure: A sample of image

Columns



Splitting the page is easy and common.

Typically, one side has a picture and the other text:

This is the first column.

You can have some texts here.

And this is the second one.

You can have some
pictures or tables here.

Codes

```
1 def fibonacci(n):
2     if n == 0:
3         return 0
4     elif n == 1:
5         return 1
6     a, b = 0, 1
7     for _ in range(2, n + 1):
8         a, b = b, a + b
9     return b
```

Fonts



The priority when choosing a font is readability.

Here, we give some advice:

- Use serif (default) fonts only with high-resolution projectors or monitors.
- Use sans-serif fonts otherwise.
- Use *italic* or **bold** fonts to emphasize or highlight points.
- We also provide an **alert** font for emphasise.
- Use monospace fonts to display codes.

Contents

▶ Introduction

▶ Examples

▶ Summary

Good Luck!



- Enough for an introduction! You should know enough by now.
- If you have corrections or suggestions, please feel free to contact [me](#)!
- You can also find this project on [Github](#)! Stars are welcome!



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