# **Creating Slides Using Beamer** and the AUTtheme

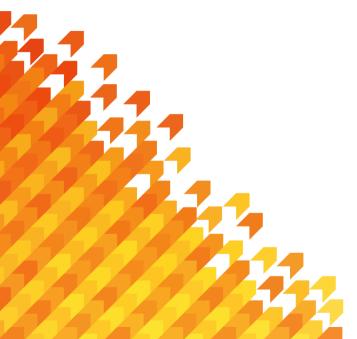
A user guide

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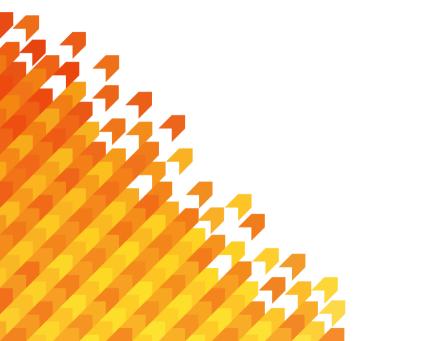
<sup>1</sup>Engineering, Computer Mathematical Sciences (ECMS

<sup>2</sup>Engineering, Computer Mathematical Sciences (ECMS

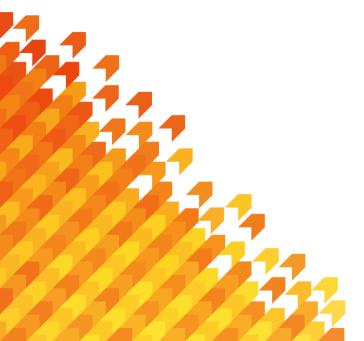


# **Table of Contents**

Frames
Slide Content
Maths and Floats



# **Frames**



# **Outline**

#### **Frames**

Frame Sizes
Loading the AUTTheme
Compiling with AUTTheme
Frame Types
New sectionframe
environment

**Slide Content** 

**Maths and Floats** 

#### **Frame Sizes**

The template can be used to create 16  $\times$  9 or 4  $\times$  3 slides. The resolution of the background images get updated automatically.

- To create 16 × 9 slides
   \documentclass[aspectratio=169]{beamer}
- To create 4 × 3 slides
   \documentclass[]{beamer}

# **Loading the AUTTheme**

\usepackage{AUTtheme}

The DCT colour theme is the default, however it can be forced as follows:

\usepackage[dct]{AUTtheme}

# **Compiling with AUTTheme**

lualatex is recommended.

# **Frame Types**

This template uses three types of frames

#### • Title page:

```
\begin{frame}
  \maketitle
  \end{frame}
```

#### • Section frame:

```
\begin{sectionframe}\frametitle{Frame Title}
Content for right hand side of slide
\end{sectionframe}
```

#### • Default frame:

```
\begin{frame}{Frame Title}
Frame content
\end{frame}
```

# **Create contents page using sectionframe environment**

#### **Example Code**

```
\begin{sectionframe}
\frametitle{Table of Contents}
\tableofcontents[
        hideallsubsections]
\end{sectionframe}
```

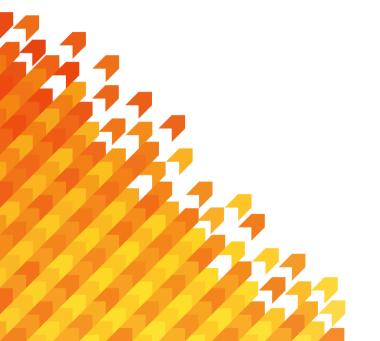
You can use \tableofcontents or build your own table of contents page.

# Slides at beginning of section

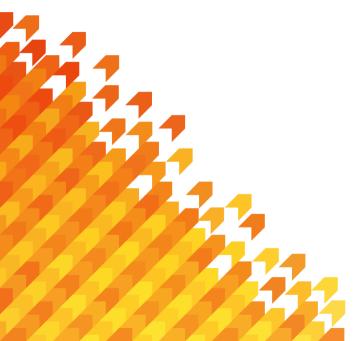
By default two sectionpage is displayed at the start of each section. The first contains the section name and the second contains a table of contents.

Both can be edited within the .tex file. e.g. To switch off use within the .tex file.

\AtBeginSection{}



# **Slide Content**



# **Outline**

#### **Frames**

#### **Slide Content**

Bulleted list

Ordered Lists

**Highlights and Colours** 

Blocks

Columns

Citations and Footnotes

**Maths and Floats** 

# List

- Item 1
  - Subitem 1.1
    - Subsubitem 1.1.1
    - Subsubitem 1.1.2
- Item 3

# List

- Item 1
  - Subitem 1.1
    - Subsubitem 1.1.1
    - Subsubitem 1.1.2
- Item 2 This item appears second due to <2->
- Item 3



Frames

#### **Slide Content**

**Bulleted lists** 

**Ordered Lists** 

**Highlights and Colours** 

contents

**Blocks** 

Columns

Citations and Footnotes

**Maths and Floats** 

# **Ordered Lists**

- **1.** Point 1
- 2. Point 2
  - a. part a
    - i. another point
    - ii. another point

#### **Ordered Lists**

- 1. Point 1
- 2. Point 2
  - a. part a
    - i. another point
    - ii. another point
  - b. The \pause command can be used to delay appearance of content
    - another point
    - another point
- 3. Point 3
- 4. Point 4

# **Highlights and Colours**

- highlighted \colorbox{orange}{text}
- AUT-themed orange text \alert{text} or \textcolor{deeporangeAUT}{text}.
- bold \textbf{text}
- alert \alert{text}
- coloured \textcolor{blue}{text}

## **Blocks**

#### **Alert block**

This is an alert block, customised to match the AUT colour scheme.

#### **Block**

This is a standard block.

#### **Example block**

This is an example block.

# **Columns**

This is a text in the first column.

$$E = mc^2$$

This is a text in the second column.

- The first term
- The second term

# **Three columns**

This is the first column content.

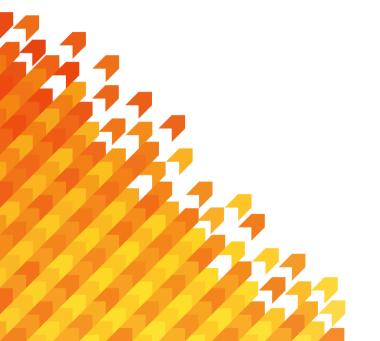
This is the second column content.

This is the third column content.

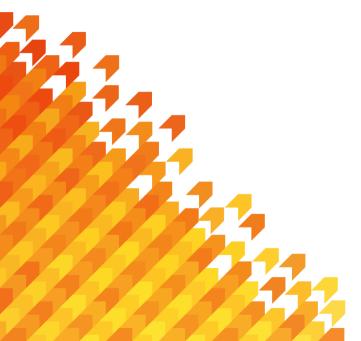
## **Citations and Footnotes**

You can cite a paper like this [1, 2]. Footnotes can be inserted like this <sup>1</sup>.

<sup>&</sup>lt;sup>1</sup>Lam, Yeh. The Geometric Process and Its Applications. World Scientific, Hackensack, NJ, 2007.



# Maths and Floats



# **Outline**

**Frames** 

**Slide Content** 

#### **Maths and Floats**

Mathematical formula Tables

Figures

# **Using math formula**

In this slide, we insert an equation(1), which is the definition of y.

$$y = \begin{cases} \frac{1}{f(x)}, \ f(x) \neq 0 \\ f(x), \ f(x) = 0 \end{cases}$$
 (1)

## **Insert a table**

This results are shown in Table 1

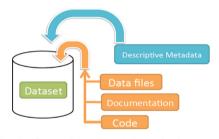
Table 1: A sample table

Metrics	M1	M2
Accu-	84%	88%
racy		
Preci-	91%	90%
sion		
Recall	75%	77%
	1	

# Insert a sample figure

The data-set information is shown in Figure 1.

Schematic Diagram of a Dataset in Dataverse 4.0

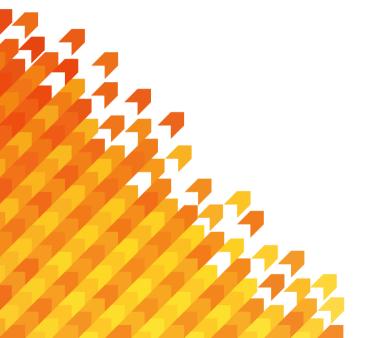


Container for your data, documentation, and code.

Figure 1: A sample picture

#### References

- [1] J. Teichmann, "Machine learning in finance," URL: https://people. math. ethz. ch/jteichma/index. php, 2019.
- [2] H. Buehler, L. Gonon, J. Teichmann, and B. Wood, "Deep hedging," *Quantitative Finance*, vol. 19, no. 8, pp. 1271–1291, 2019.



Thank you very much for your attention!



