Creating Polished Presentations

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Centre for Modern Templates

Outline i

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Tables and Figures

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1

Thanks for your attention. Pay attention here...

Introduction

This is going to be a normal paragraph in our introduction.

Some intro stuff

Observation

This is a very important piece of information.

Some other stuff ...

Blocks

Three different block environments are pre-defined and may be styled with an optional background color.

Default

Block content.

Alert

Block content.

Example

Block content.

Default

Block content.

Alert

Block content.

Example

Block content.

Tables, figures and subfiles

To insert a figure, you can use the TeXnicecenter menus.

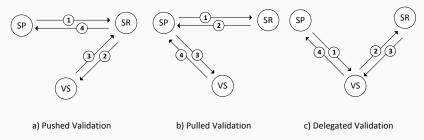


Figure 1: My First Figure

Tikspictures

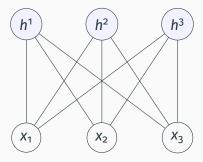


Figure 2: M1

Multipage Xtabular table i

Table 1: Sample multipage table with repeating header

		document class	bibliography style	/
Institute	of	IEEEtran	IEEEtran	IEEE
Electrical	and			Ψ.
Electronics				
Engineers				

Multipage Xtabular table ii

Table 1 continued

	document class	bibliography style
Association for Computing Ma- chinery	sig-alternate	plain
Lecture Notes in Computer Science	llncs	lllncs <u>©</u> Springer

Multipage Xtabular table iii

Table 1 continued

	document class	bibliography style	
General	article	plain	

Gant charts

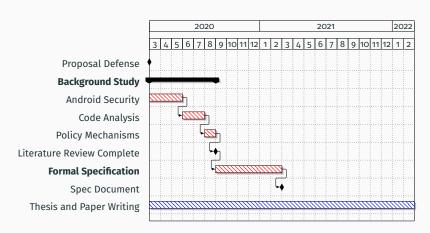


Figure 3: My First Gantt

Some text here that wants to refer to Table 1. You can also refer to the Figure 1. When you want to refer to a previous section, you can use the \ref command again. Section 2.

This comes from a separate file. Notice that we have this subsection included in the Navigator.

Algorithms

10: end if

return i

Algorithm 1 My First Simple Algorithm Require: Randomly populated array **Ensure:** Sorted array if i < 0 then $i \leftarrow 1$ else if $i \ge 0$ then for j = 0 to 10 do blah() 6: carryOutSomeProcessing() end for 8: end if

And of course, we can refer to the algorithm using \ref: See Algorithm 1 but the good thing is we can also refer to a specific line e.g. Line 4 or Line 7.

Displaying Mathematics

MTEX is extremely powerful when it comes to typesetting mathematics. It's one of the core strengths of this system.

There are two ways of displaying maths. One is *inline* and the other is *display* format – in which the whole math sits on its own set of lines.

We are going to insert a mathematics equation inline here using a pair of \$ signs: $E=mc^2$. As you can see, the display (such as line spacing) does not get messed up by the mathematics as it does with word processing softwares.

We can also display equations in their own set of lines. To do this, we can use the equation environment.

$$E = mc^2 (1)$$

As you can see, ETEX inserts the equation number automatically. We can refer to it using the \ref command just as we referred to sections, figures and tables. (E.g. Equation 1.) To get rid of the equation number, simply use the star variant of the equation environment. (For this, you need the amsmath package.)

$$E = mc^2$$

Alternatively, we can use the shorthand keys \[and \]

$$E = mc^2$$

MEX has many builtin features and you can get many more easily. Here, we'll see some of these features:

Addition, subtraction, multiplication and division:

$$X+2-25\times35\div98$$

Superscripts and subscripts:

$$\chi^2$$

$$X_{(i)}$$

Summation, union, intersection, big-union, integral:

$$\sum_{i=1}^{n} i^2$$

$$x \cup y \cap z$$

$$\bigcup_{i=1}^{n} x_i$$

$$\int_{0}^{n} x^{2}$$

Fractions, brackets, square root:

$$\frac{\frac{x}{y}}{\int_{0}^{n} x^{2}}$$

$$\sqrt{\frac{\sqrt{36}}{x^{5}}}$$

$$2 \times \left(\frac{34}{\frac{124}{356}}\right)$$

Greek letters:

$$\alpha + \beta + \gamma^* + \Sigma + \Theta + \mathbf{2}_{\epsilon}$$

Matrices and vectors. For this, you need to include the amsmath package and then use the bmatrix or pmatrix environment:

$$\begin{pmatrix} \frac{a}{44} & b \\ c & \sqrt{d} \end{pmatrix}$$

Accents:

Ŷ

î

λ

See the Math menu in the IDE for other operations. You can refer to "Short Math Guide for $\text{ET}_{\text{E}}X$ " for a lot more examples.

Code Listings and Using Symbols

You might come across situations where you need to find new symbols. For this, you can refer to the "The Comprehensive Late".

$$X \rightleftharpoons Y$$

(Optional) Since this is a long command, we might want to create a shortcut using the \newcommand command in the preamble. This also allows us to later change the symbol without having to change the equations.

$$x \rightleftharpoons y$$

Listing 1: Some LETEXCode

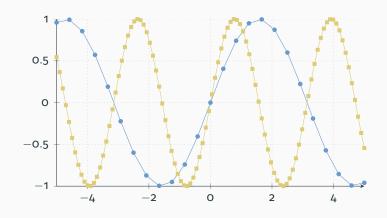
```
\lstset{language=[LaTeX]tex}
\lstset{caption=Some \LaTeX Code}
\begin{lrbox}{\codebox}
  \begin{lstlisting*}[frame=single]{}
     \ begin { frame }
           \end{frame}
  \end{lstlisting*}
\end{lrbox}
\begin{frame}{\LaTeX Code}
  \usebox{\codebox}
\end{frame}
```

C++ Code

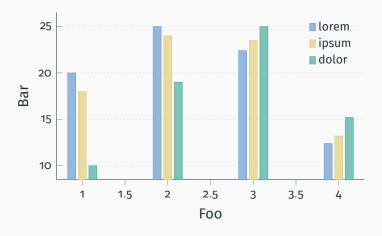
Listing 2: Some C++ Code

```
for(i = 0; i < 10; i++){
   // increment the pointer
   *p++ = i;
}</pre>
```

Line plots



Bar charts



Frame footer

METROPOLIS defines a custom beamer template to add a text to the footer. It can be set via

\setbeamertemplate{frame footer}{My custom footer}

My custom footer 23

References

Some references to showcase [4, 2, 5, 1, 3]

Conclusion

Summary

Get the source of this theme and the demo presentation from

github.com/voklymchuk/latex_templates

The theme *itself* is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.





Backup slides

Sometimes, it is useful to add slides at the end of your presentation to refer to during audience questions.

The best way to do this is to include the appendixnumberbeamer package in your preamble and call appendix before your backup slides.

METROPOLIS will automatically turn off slide numbering and progress bars for slides in the appendix.

References i



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In Recent trends in combinatorics (Matrahaza, 1995), pages 1–6. Cambridge Univ. Press, Cambridge, 1995.



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