Univ-Eiffel Template

A modern beamer theme based

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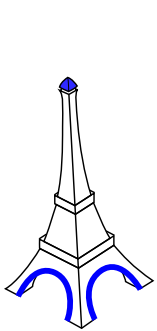
Outline

1. Introduction: Beamer
2. Metropolis Theme
3. UGE Theme
4. Conclusion



Introduction: Beamer

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Title page

The Title page is printed using the command:

```
\maketitle
```

The element printed on this page are defined in the preamble by

```
\title{Univ-Eiffel Template}
\subtitle{A modern beamer theme based}
\date{\today}
\author[romain.noel@univ-eiffel.fr]{Romain NOËL}
\institute{Universtity Gustave Eiffel}
\titlegraphic{\hfill\includegraphics[height=1.5cm, draft]{Title_logo.pdf}}
\logo{\includegraphics[height=1.5cm, draft]{logo.pdf}}
```

The usual page is printed and defined using the command:

```
    begin{frame}
\frametitle{Title on top of the frame}
contenu...
end{frame}
```

Note that the logo printed on this page are defined in the preamble by

```
\logo{\includegraphics[height=1.5cm, draft]{logo.pdf}}
```

Sections group slides of the same topic

```
\section{Elements}
```

```
The theme provides sensible defaults to
\emph{emphasize} text, \alert{accent} parts
or show \textbf{bold} results.
```

becomes

The theme provides sensible defaults to emphasize text, accent parts or show **bold** results.

Font feature test

- Regular
- *Italic*
- Small Caps
- **Bold**
- ***Bold Italic***
- **Bold Small Caps**
- `Monospace`
- *`Monospace Italic`*
- **`Monospace Bold`**
- ***`Monospace Bold Italic`***

Items

- Milk
- Eggs
- Potatoes

Enumerations

1. First,
2. Second and
3. Last.

Descriptions

PowerPoint Meeh.

Beamer Yeeeha.

Then something below the columns, that be long enough to recover all the line-width.

- This is important
- Now this
- And now this

- This is important
- Now this
- And now this

- This is important
- Now this
- And now this

- This is really important
- Now this
- And now this

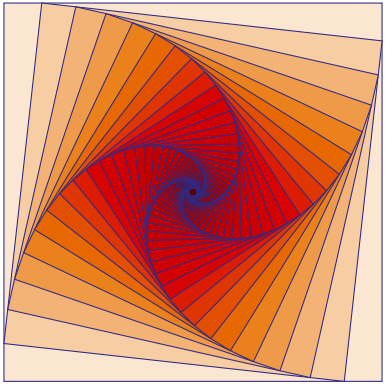

Figure 1: Rotated square with Tikz package from texample.net.

Table 1: Largest cities in the world (source: Wikipedia)

City	Population
Mexico City	20,116,842
Shanghai	19,210,000
Peking	15,796,450
Istanbul	14,160,467

Three different block environments are pre-defined.

Default

Block content.

Alert

Block content.

Example

Block content.

$$e = \lim_{n \to \infty} \left(1 + \frac{1}{n}\right)^n \tag{1}$$

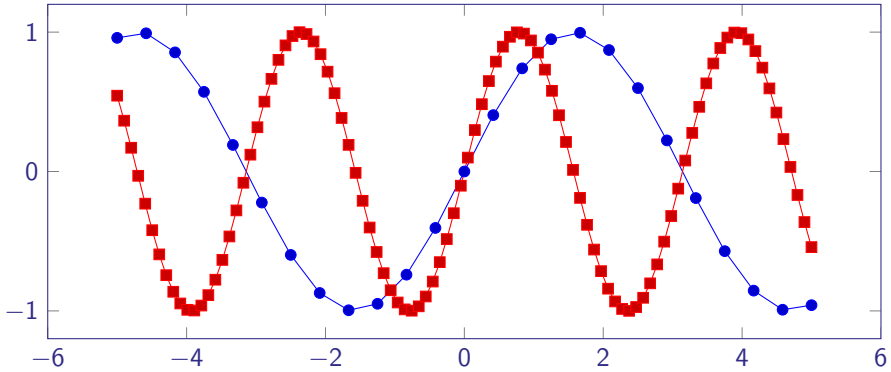

Figure 2: A nice sinus plot with Tikz.

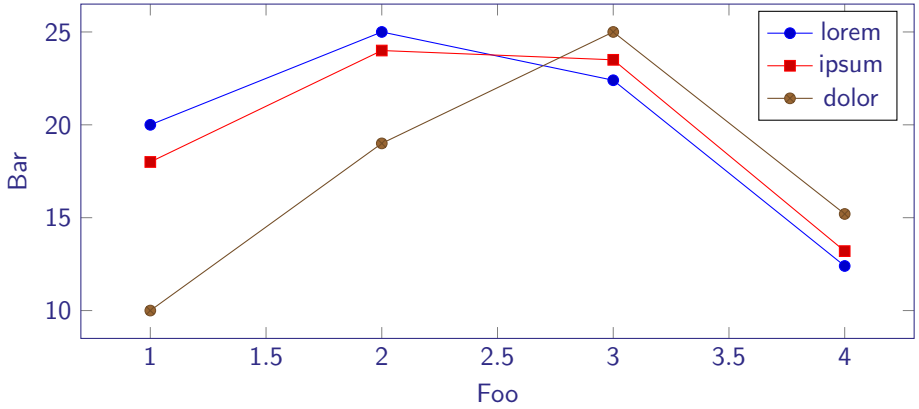

Figure 3: A nice bar chart with Tikz.

Veni, Vidi, Vici

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

Metropolis Theme

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1. Introduction: Beamer

2. Metropolis Theme

2.1 Title formats

2.2 Elements

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The Metropolis theme is a Beamer theme with minimal visual noise inspired by the HSRM Beamer Theme by Benjamin Weiss.

Enable the theme by loading

```
\documentclass{beamer}
\usetheme{metropolis}
```

Note, that you have to have Mozilla's Fira Sans font and XeTeX installed to enjoy this wonderful typography.

Sections group slides of the same topic

```
\section{Elements}
```

for which Metropolis provides a nice progress indicator ...

Metropolis Theme

Title formats

Metropolis supports 4 different title formats:

- Regular
- Small caps
- all small caps
- ALL CAPS

They can either be set at once for every title type or individually.

This frame uses the `smallcaps` title format.

Potential Problems

Be aware that not every font supports small caps. If for example you typeset your presentation with pdfTeX and the Computer Modern Sans Serif font, every text in small caps will be typeset with the Computer Modern Serif font instead.

This frame uses the `allsmallcaps` title format.

Potential problems

As this title format also uses small caps you face the same problems as with the `smallcaps` title format. Additionally this format can cause some other problems. Please refer to the documentation if you consider using it.

As a rule of thumb: just use it for plaintext-only titles.

This frame uses the `allcaps` title format.

Potential Problems

This title format is not as problematic as the `allsmallcaps` format, but basically suffers from the same deficiencies. So please have a look at the documentation if you want to use it.

Metropolis Theme

Elements

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

Default

Block content.

Default

Block content.

Alert

Block content.

Alert

Block content.

Example

Block content.

Example

Block content.

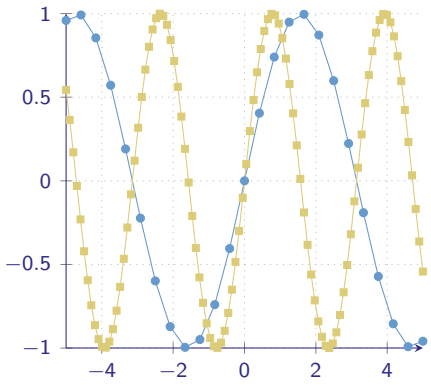

Figure 4: A nice sinus plot with Tikz.

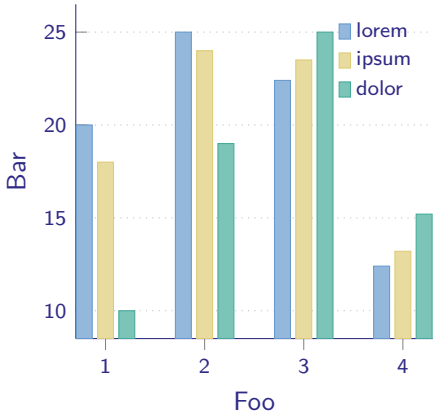

Figure 5: A nice bar chart with Tikz.

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}
```

The final slide has a new option style with command:

```
\begin{frame}[standout]
\frametitle{Thank You !}
Questions ?
\end{frame}
```

Voilà

UGE Theme

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Affiliations

Extra Logos

Background

How to change background

Normal Slide

Progress bar

email address

UGE logo

Extra logo

watermark

Visit Card Style !

Conserved Metropolis settings

contenu...

Graphical guidelines not respected

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Inria

Alert

- fonts because not free so not easy to install
- title page not convenient

Conclusion

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Get the source of this theme and the demo presentation from

`github.com/matze/mtheme`

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

Thank You !

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Inria

Questions?

[1] D. Knuth. "Two notes on notation". In: Amer. Math. Monthly 99 (1992), pp. 403–422.

[2] R. Graham, D. Knuth, and O. Patashnik. Concrete mathematics. Reading, MA: Addison-Wesley, 1989.

[3] H. Simpson. "Proof of the Riemann Hypothesis". preprint (2003), available at http://www.math.drofnats.edu/riemann.ps. 2003.

[4] P. Erdős. "A selection of problems and results in combinatorics". In: Recent trends in combinatorics (Matrahaza, 1995). Cambridge: Cambridge Univ. Press, 1995, pp. 1–6.

[5] G. D. Greenwade. "The Comprehensive Tex Archive Network (CTAN)". In: TUGBoat 14.3 (1993), pp. 342–351.

BeamerExtra

Contents

5. BeamerExtra

6. Things good to know about Beamer (not BeamerExtra)

7. Things brought by Good Practice in UserPackage

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.

Univ-Eiffel Theme will automatically turn off slide numbering and progress bars for slides in the appendix.

Section With Pictures

As the following command indicates, it is possible to include pictures under a section title:

```
\sectionpic{BeamerExtra}{\PathSO/Logos/UGE.pdf}
```

Things good to know about Beamer (not BeamerExtra)

Contents

5. BeamerExtra

6. Things good to know about Beamer (not BeamerExtra)

7. Things brought by Good Practice in UserPackage

link to Hidden slide

Thanks to Beamer, you can create buttons to just to hidden slides that are in the appendices

```
\begin{frame}[label=<originalSlide>, noframenumbering]
\hyperlink{<hiddenSlide>}{\beamerbutton{NameOfButton}}
```

Don't forget to create a button to come back also!

For example : back to previous slide !

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Print extended version

This slide will always be printed with

```
\begin{frame}<handout:1|beamer:1>or \begin{frame}<all:0>
```

while the following code will never appears

```
\begin{frame}<handout:0|beamer:0>or \begin{frame}<all:0>
```

Print extended version

This frame will appear with

```
\documentclass[aspectratio=169, 10pt]{beamer}
\begin{frame}<handout:0|beamer:1>
```

BUT the following will not appear

```
% requires handout to appear
\documentclass[aspectratio=169, 10pt]{beamer}
\begin{frame}<handout:1|beamer:0>
```

Things brought by Good Practice in UserPackage

Contents

5. BeamerExtra

6. Things good to know about Beamer (not BeamerExtra)

7. Things brought by Good Practice in UserPackage

Things brought by extra

contenu...

nTheorem

The interactions beteween ntheorem and beamer has been solved.

Theorem 1. *contenu...*

Proof. contenu... □

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Glossaries

Here is an example of acronym using glossaries: Lattice Boltzmann Method (LBM)

And an example of equation in colors, the Boltzmann equation:

$$\partial_t f(x,\xi,t) + \xi \cdot \partial_x f(x,\xi,t) + g \cdot \partial_\xi f(x,\xi,t) = \Omega(f,f) \tag{2}$$

where f is a variable defined through glossaries.

Cite in the footnote

Some text that requires a reference[1]. Using the command[a]

`\footfullciteBeamer{<bibKey>}`

The command to cite in text mode is also possible with

`\fullciteBeamer{<bibKey>}`

and giving Graham, Knuth, and Patashnik, Concrete mathematics. 1989

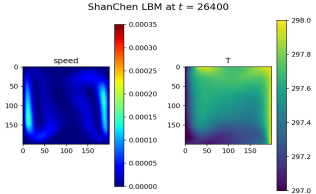
[1] Knuth, "Two notes on notation". 1992

[a] Please note that this command can be used slide-by-slide the command footnote.

Video

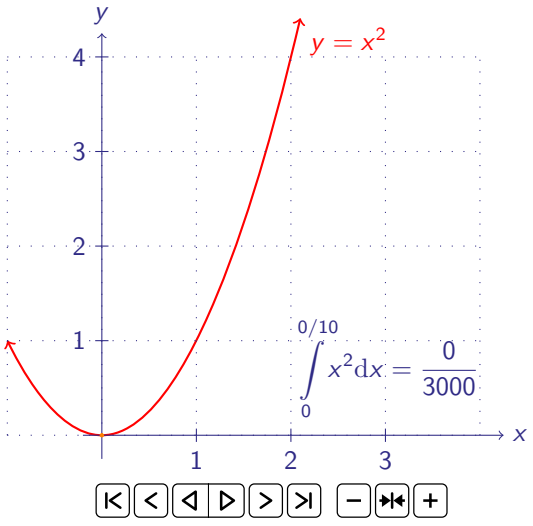
The last but not least feature present is a macro simplifying the way to include videos in beamer presentation.

It requires to define the OS on which the pdf will be red, thanks to the command



Then, the video can be included with the command

Animated Integral



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