Univ-Eiffel Template

A modern beamer theme based

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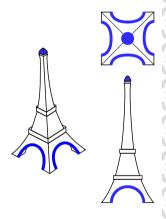
³INRIA Rennes

⁴An Awesome Company









Introduction: Beamer

Contents





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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}}
```



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```
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



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Sections group slides of the same topic

\section{Elements}

Typography



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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



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- Regular
- Italic
- SMALL CAPS
- Bold
- Bold Italic
- Bold Small Caps
- Monospace
- Monospace Italic
- Monospace Bold
- Monospace Bold Italic





1+	_	-	
H.	е	п	15

- 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.

Animation



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- This is important
- Now this
- And now this

Animation



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





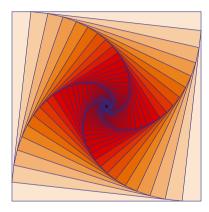


Figure 1: Rotated square with Tikz package from texample.net.





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	

Blocks



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Three different block environments are pre-defined.

Default

Block content.

Alert

Block content.

Example

Block content.



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

1)





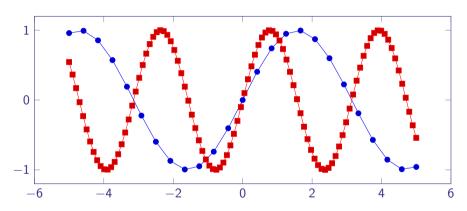


Figure 2: A nice sinus plot with Tikz.



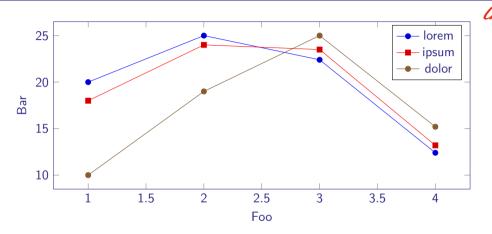


Figure 3: A nice bar chart with Tikz.



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Veni, Vidi, Vici

from Julius Caesar.



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Some references to showcase [allowframebreaks] [0, 0, 0, 0, 0] $\,$

Metropolis Theme

Contents



Metropolis



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The Metropolis theme is a Beamer theme with minimal visual noise inspired by the ${}_{\rm HSRM}$ 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



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Sections group slides of the same topic

\section{Elements}

for which Metropolis provides a nice progress indicator . . .

Metropolis Theme

Title formats

Metropolis title formats



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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.



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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.



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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.



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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



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

Default	Default
Block content.	Block content.
A1 .	A1 .
Alert	Alert
Block content.	Block content.
Example	Example
Block content.	Block content.

Presetted Plots styles



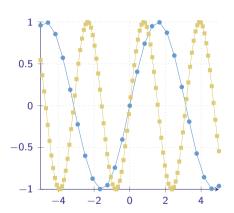


Figure 4: A nice sinus plot with Tikz.

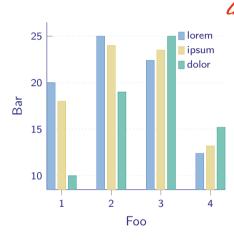


Figure 5: A nice bar chart with Tikz.



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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 25/38



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```
The final slide has a new option style with command:
```

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

Et voilà!

UGE Theme

Contents



Why this template?





This template is here to help UGE Beamer users forgotten by the administration.

The template is available via the following links:

- GitHub: https://github.com/KirmTwinty/uge-beamer
- Overleaf: https://www.overleaf.com/read/vxnjgfmyvccj

Currently the main authors and maintainers of the template are: Romain NOËL and Thibaud TOULLIER.

We are always looking for any good wills to help us.

Title Page



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```
The UGE template is keeping Beamer primitives such as:
  \institute for affiliations, or
  \titlegraphic for logos on the title page, or
  aspectratio=169 or 43 for the beamer class option (with other ratios the layout was not
setup).
The background can be changed manually using:
{\usebackgroundtemplate{\includegraphics{YourBackground.pdf}}
\begin{frame} \titlepage \end{frame}
```

Conserved Metropolis settings



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The UGE style also respect primitives from Metropolis!

So the pages for section can use a progress bar, the frame can numbered and use a progress bar in the footer or the header, the background can be light or dark...

All of these feature are accessible at anytime using:

```
\metroset{
    sectionpage= progressbar,
    numbering=fraction,
    progressbar= foot,
    block= fill,
    background= light,
}
```

Dependencies



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So the UGE theme cannot work without previously loading some dependencies:

% Include some custum modifications but quite handy.

\usetheme{BeamerExtra}

% Metropolis Theme.

\usetheme{metropolis}

% Change progress bar size and redefine some colors.

\usetheme{MetropolisBeamerExtra}





The default normal slide is including:

- a header (from Metropolis) with the UGE logo
- an extra logo: it can be change via the beamer command \logo{}
- an email address in the footer: it can be disable by using in the preamble \author[]{Your NAME\inst{1} ...}
- a edging on left side (from UGE graphical charter). This can be turned off locally using \begin{frame} [noedging] or globally with \boolfalse{defaultedging}. If it is globally disabled it can be turned on locally using \begin{frame} [edging]

Extra frame options



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- \begin{frame}[rotateFooter]
- a watermark on left side (from UGE graphical charter). This can be turned off locally using \begin{frame} [nowatermark] or globally with \boolfalse{defaultWaterMark}. If it is globally disabled it can be turned on locally using \begin{frame} [watermark] .
- \renewcommand{\UGEwatermark}{otot}

Standout vs standin



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From Metropolis theme a standout slide is available and was inspired by the UGE visit card Style.

But also in addition the inverted color of the standout, called standin, was introducted. This standin style is used for section slide layout.

Both standout and standin layout can be used on any slide using \begin{frame}[standout] and \begin{frame}[standin].

From BeamerExtra the boolean sectionContent (default is True) is used to print the content of section after the section frame. This can be turned of with \boolfalse{sectionContent}

Sections options



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- \boolfalse{sectionContent}
- \renewcommand{\secContentName}{toto}

Lenghts



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- \setlength{footlineOffset}{Opt}
- \setlength{footerOffset}{Opt}

Graphical guidelines not respected



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By doing this UGE template, we also took some liberties about the graphical charter. Thus using the template you are accepting consequences.

Some elements of the graphical charter not respected:

Alert

- fonts because the official ones are not free and not easy to install
- title page since the official one is not convenient

Known Issues



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Alert

• Incompatibilities between thrm and alert (but this a Beamer issue).

Conclusion

Contents





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Get the source of Metropolis 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.





References i





- [0] D. KNUTH. "Two notes on notation". In: *Amer. Math. Monthly* 99 (1992), pp. 403–422.
- [0] R. GRAHAM, D. KNUTH, and O. PATASHNIK. *Concrete mathematics*. Reading, MA: Addison-Wesley, 1989.
- [0] H. SIMPSON. "Proof of the Riemann Hypothesis". preprint (2003), available at http://www.math.drofnats.edu/riemann.ps. 2003.
- [0] 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.
- [0] G. D. GREENWADE. "The Comprehensive Tex Archive Network (CTAN)". In: *TUGBoat* 14.3 (1993), pp. 342–351.

BeamerExtra



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Backup slides



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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



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

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

Section Content





The table of content after the section slide can be turn on or off with the command:

\boolfalse{sectionContent} % to turn off the table of content.

From example, the table of content will be turn of for the next section (on the following slide).

The name the content slide can also be modified thanks to the command:

\renewcommand{\secContentName}{def} % to redefine the title on section content.

Things good to know about Beamer (not BeamerExtra)

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!

Print extended version - 1





This slide will always be printed with

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

while the following code will never appears

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

Print extended version - 2





```
This frame will appear with
\documentclass[]{beamer}
\begin{frame}<handout:0|beamer:1>
BUT the following will not appear
% requires handout to appear
\documentclass[10pt]{beamer}
\begin{frame} < handout: 1 | beamer: 0 >
BY opposition with
```

\documentclass[handout]{beamer}

Things brought by good practices in UserPackage

refined name





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The interactions between ntheorem and beamer has been solved.

Theorem 1. contenu...

Proof. contenu...



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

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

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

where f is a variable defined through glossaries.

Cite in the footnote



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Some text that requires a reference⁰, 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

⁰KNUTH. "Two notes on notation". 1992

^aPlease note that this command can be used side-by-side the command footnote.

Video using media9/multimedia



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:

\def\OSvar{linux}

Then, the video can be included with the command:

\includeVideo[% no space
 width=7cm, height=5cm,]% Options
{\PathS/video.mp4}% Video File
{\includegraphics[width, height]%
 {\PathS/screenshot.png}%
}% Poster image.

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Leading to the following result:

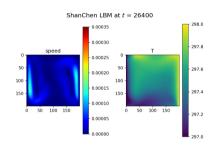


Figure 6: Example of embedded video using \includeVideo.





Warning

Currently the method to include video using \includeVideo is no longer work on Windows because flash player is no longer supported.

Up to now, this solution is still working on Linux with okular, poppler and phonon-backend-vlc installed.

A possible workaround is to used external player rather than embedded solutions. An example of external inclusion on Windows with multimedia package is:

Video using animate



Another solution which is use a animation from a stack of image:
\animategraphics[autoplay, loop,
width=\textwidth, controls

1%

7 /0

{<frame rate>}}{Images/Image_}{0}{99}
or for more complex drawing:

\begin{animateinline}[<opt>]{<rate>}

... typeset material ...

\newframe[<frame rate>]

... typeset material ...

\newframe

. . .

\end{animateinline}

Figure 7: Example of embedded video using \animategraphics.



