

Institut de Recherche sur les Transports, l'Énergie et la Société

UNIVERSITÉ DE TECHNOLOGIE DE BELFORT-MONTBELIARD

Documentation of the IRTES Theme for Beamer

Macros provided by the theme

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Outline

- 1 Introduction
- 2 Document Attributes
- 3 Document Structure
- 4 Slide Content







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Introduction

- This document explain the LATEX macros that are provided by the IRTES theme for beamer.
- To use the IRTES theme for beamer, you must:
 - Install the files of the IRTES theme inside your LATEX distribution.
 - 2 Create a document, which uses the document class: irtesbeamer







Major Features

- Apply the official style for the IRTES institute.
- Add a title slide (with label titleslide for \hyperlink) as the first slide.
- Add a final slide at the end of the presentation to avoid "black" screen at the end of the presentation.







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Class Options (1/2)

The document class irtesbeamer supports the following options:

- english: the slides are written in English (this is the default).
- french: the slides are written in French.
- nocover: do not add a slide for the title and the "thanks".
- thanksslide: add a slide with the word "Thanks" at the end (this is the default).
- questionslide: add a slide with the word "Question" at the end (this is the default).
- textnumberstyle: the frame numbers are output as text.
- ► See example
- circlenumberstyle: the frame numbers are output in a circle.

 See example
- sectioncirclenumberstyle: the frame numbers are output in a circle.







Class Options (2/2)

- partcirclenumberstyle: similar to circlenumberstyle except that the indicator is reset at the start of each part.
- partsectioncirclenumberstyle: similar to sectioncirclenumberstyle except that the indicator is reset at the start of each part.
- All the options accepted by Beamer.







Title and Subtitle

Title

Use the macro: \title{title of the document}

Subitle

Use the macro: \subtitle{subtitle of the document}







Authors

- Authors are defined with the macro: \author[short] {long}
 - the long list of authors is displayed on the front page. You should separate the names with the macro \and.
 - the short list of authors is displayed inside the foot line of the slides. You must not separate the names with the macro \and.
- Alternatively, you could define the authors with the macros:
 \addauthor[short]{long}
 \addauthor*[short]{long}
 - Add one author to the list of the authors.
 - The "starred" version applies some visual indicators to the name. It may be used to indicate the name of the talker for example.







Event Name

Definition of the event name

You could specify the name of the event for which the slides are written:

```
\event[short] {full}
```

- the full name is displayed on the front page.
- the short name is displayed inside the foot line of the slides.

Insert the event name in your slides

- You could insert the full name of the event with: \inserteventname
- You could insert the short name of the event with: \insertshorteventname







Institute Name

- You could change the name of the institute with: \institute[short]{full}
- the full name is displayed on the front page.
- the short name is displayed inside the foot line of the slides.
- The default full name is:
 Université de Technologie de Belfort-Montbéliard, 90010
 Belfort cedex, France http://irtes.utbm.fr
- The default short name is: IRTES.







Institute URL

- You could change the URL of the institute with: \instituteurl{url}
- The default url is: http://irtes.utbm.fr







Partner Logo

- You could add on all slides the logo of your partner: \partnerlogo[options]{filename}
- The IRTES theme has enough space for only one logo with a width of 2cm.
- The filename is the name of the picture.
- This figure is declared with \pgfdeclareimage with the key "IRTESpartnerlogo".
- The options are passed to \pgfdeclareimage. The default option is width=2cm.







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Part Sectioning

The IRTES theme provides a specific implementation of the \part macro:

```
\part[options]title
\part*[options]title
```

- Options may be:
 - a string value that is the "short" title of the part that is appearing in the table of contents.
 - the pair title=text to define the "short" title.
 - the pair author=text to define the author of the part.
- The stared version of \part does not add the part in the table of contents.







Table of Contents

The IRTES theme provides a convenient macro to insert a table of contents: \tableofcontentsslide[options]

It is equivalent to:

```
\begin{frame}[c]
\frametitle{\translate{Outline}}
\tableofcontents[options]
\end{frame}
```

The option onlyparts permits to display the list of the parts, only.







Picture Slide

The IRTES theme provides a macr othat permits to display a picture on the entire slide:

- height=XXX,height=YYY]{Title of the slide}{file}
- Example: \figureslide{XyZ}{irteslogo}









A Conclusion Slide

- The IRTES theme automatically adds a slide at the end of the presentation to avoid "black" screen.
- The default text on this slide is: "Thank you for your attention...".
- An other text that is available is: "Questions...".
- The class options thanksslide and questionslide permits to select one of these possibilities.
- The macro \finalslidetext{text} may be used to set the text by hand.
- This slide has the label finalslide for \hyperlink.







Appendix

- The IRTES theme supports the appendix.
- To create the appendix, you must:
 - 1 put the macro \appendix in your TFX file; or
 - 2 put the macro \bibliography in your TFX file.
- All the slides put after the creation of the appendix by one of these methods are assumed to be part of the appendix.
- The slides in the appendix are not considered in the total number of slides for the core part of the document (see \inserttotalcoreframenumber).
- The slide numbers in the appendix are roman (not arabic), and the numbers are reset.







Bibliography

- You are able to include a bibliography in your slides with the two standard LATEX macros: \bibliographystyle{style} \bibliography{filename}
- The default style is apalike.
- When the macro \bibliography is used, the appendix section is started if it was not already done.
- The bibliography slides are always at the end of the document. Even if you put slides after the \bibliography macro.
- The first slide of the bibliography has the label bibliographyslide for \hyperlink.







Library

You are able to include a list of books in your presentation with the macro:

```
\libraryslide[subtitle or comment]{picture}
{title}{authors}{How published}{ISBN}
```

■ The macro create a slide for a book.

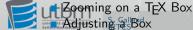






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Colors

The IRTES theme defines the following colors:

■ IRTESblue : Example

IRTESmagenta : Example

■ IRTESlightblue : Example

IRTESdarkgray : Example







Alert Boxes

The IRTES theme defines the a box for alerts:

\alertbox{this is an alert text}

this is an alert text

\alertbox*{this is an alert text}

this is an alert text







Underlining

■ The IRTES theme redefines the macro \underline to move the line closer to the text.

■ Before: Example

■ After: Example









Additional Symbols

■ The IRTES theme (re)defines the macros for several symbols

From IRTES theme		From T _E X	
\copyright	©	\copyright	©
\trademark	TM	\texttrademark	TM
\regmark	®	\textregistered	R







Exponents and Indices

- The IRTES theme (re)defines the macros to put text in exponent or in indice.
- The macros \textup and \textdown try to add a space after the text, when it is allowed by the typographic rules (it uses the macro \xspace).

From IRTES		From T _E X	
\textup	ABC ^{ABC}	$ackslash ext{textsuperscript}$	ABC ^{ABC} D
	D		
\textsubscript	$ABC_{ABC}D$	- \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-
\textdown	ABC _{ABC}	, -	-
	D		









Frame Number

- The total number of slides in the core part of the presentation could be obtained with: \inserttotalcoreframenumber
- The following macro provides the progression in the slides:
 - \insertframenumbering[type number]
 - The type number is the identifier of the progress bar to be used:

Type number	Output	Explanation
0	29	Show the current frame and its position in the total number of frames.
1	29/33	Show the current frame and the total number of frames.
2	29	Same as the type 0 with a progression bar for the current section.







Multimedia Link

- The IRTES theme provides a convenient macro to include links to multimedia resources.
- videolink[options]{resource_path}{img_path}
 - Display a picture with a link button. When the user click on the picture, the resource is run (viewed).
 - options are the options to pass to the \includegraphics
 (width...)
 - resource_path is the path to the multimedia resource.
 - img_path is the path to the picture to display in the slide.











Link to a Slide from an Picture

- The IRTES theme provides a convenient macro to create links to other slides with a picture in the link.
- \picturegoto[options]{label}{img_path}
 - Display a picture with a link button. When the user click on the picture, the slide with the given label is displayed.
 - options are the options to pass to the \includegraphics
 (width...)
 - label is the label of the target slide.
 - img_path is the path to the picture to display in the slide.





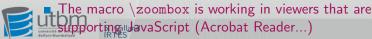






Zooming on a TEX Box

- Beamer provides the macro \framezoom to zoom on a part of a frame. But, it create a new slide and it is difficult to return to the original slide with a single click.
- The IRTES theme provides a new macro for zooming on click.
- \zoombox[options] {box content}
 - Display the content of the box. When clicked, display the box content after fitting it to the entire screen. When clicked again, the original slide is restore.
 - options are:
 - border=XXpt: specify the size of the border lines around the box.
 - 2 left=XXpt: specify the size of the left margin.
 - 3 right=XXpt: specify the size of the right margin.
 - 4 top=XXpt: specify the size of the top margin.
 - 5 bottom=XXpt: specify the size of the bottom margin.
 - 6 margin=XXpt: specify the size of all of the margins.





Adjusting a Box

- The IRTES style provides the macro \adjustbox to add margins to a box.
- \adjustbox[options] {box content}
- The options are:
 - left=XXpt is the size of the left margin.
 - right=XXpt is the size of the right margin.
 - top=XXpt is the size of the top margin.
 - bottom=XXpt is the size of the bottom margin.
 - size=XXpt is the size of all of the margins.







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End of the Documentation

