

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{filename}
- The IRTES theme has enough space for only one logo with a width of 2cm.







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- 3 Document Structure
  - Part Sectioning
  - Table of Contents
  - Picture Slide
  - Final Slide
  - Appendix
  - Bibliography and Library
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## Part Sectioning

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

```
\operatorname{\mathtt{part}}[\operatorname{\mathsf{options}}] title \operatorname{\mathtt{part*}}[\operatorname{\mathsf{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.

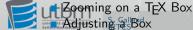






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  - Multimedia Link
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## Colors

#### 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 <sub>E</sub> 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 <sub>E</sub> X	
\textup	ABC <sup>ABC</sup>	$ackslash  ext{textsuperscript}$	ABC <sup>ABC</sup> D
	D		
\textsubscript	$ABC_{ABC}D$	<del>-</del> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-
\textdown	ABC <sub>ABC</sub>	, <del>-</del>	-
	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.





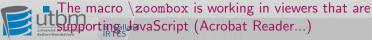






## Zooming on a TEX Box

- 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** 

