

ETEX BEAMER TEMPLATE Howto for beamer-Slides v17.12

December 7, 2017 \mid Template Version 17.12 \mid Tutorial Version 17.12 \mid My Institute



LATE A BEAMER TEMPLATE

Howto for beamer-Slides v17.12

December 7, 2017 | Template Version 17.12 | Tutorial Version 17.12 | My Institute





Part I: Introduction



ETFX sty. Files - Version 17.11

- first version with new corporate design
- tutorial is not complete yet, will be updated shortly





Part II: Installation



beamertheme-juelich.zip

The .zip archive consists of 1 directory with 3 subdirectories.

- beamertheme-juelich.zip
- beamertheme-juelich/
 - sty/
 - fzj.pdf
 - beamerthemeJuelich.sty
 - beamerouterthemeJuelich.sty
 - beamerinnerthemeJuelich.sty
 - beamerfontthemeJuelich.stv
 - beamercolorthemeJuelich.sty
 - minimal/
 - tutorial/

main directory of the .zip file directory containing the .sty files

Juelich logo for pdft kar main style file

aux. style file aux. style file

aux. style file aux. style file

directory containing a minimal examples

directory containing the sources to this tutorial

Slide 2



Linux Installation

Choose texmf Tree

First, choose your favorite install directory.

Then, create a new subdirectory beamertheme-juelich

Change to your texmf tree and create subdirectory

cd /usr/share/texmf/tex/latex/

or

cd /usr/local/share/texmf/tex/latex/

or

cd \$HOME/texmf/tex/latex/

٠.

■ mkdir beamertheme-juelich



Linux: Install the .sty Files

Create Directory + Copy files + Update T_EX

- Unzip beamertheme-juelich.zip file
- Copy all files from subdirectory beamertheme-juelich/sty into the new subdirectory beamertheme-juelich
- Try to compile the minimal example in the minimal subdirectory slide)
- Try to compile this tutorial in the tutorial subdirectory



Test your Installation

Try to compile this minimal talk

```
\documentclass{beamer}
\usetheme{Juelich}

\title{My first talk with \LaTeX{}}
\subtitle{The template works!}
\author{Your Name}
\institute{Your Institute}
\date{\today}
\titlegraphic{\includegraphics%
[height=0.45\paperheight]{placeholder}
}
\begin{document}
\maketitle
\end{document}
```

December 7, 2017



Member of the Helmholtz Associatio





Slide 5

Test your Installation II

Try to compile this minimal talk with handouts

```
\documentclass[t.handout]{beamer}
\usetheme{Juelich}
\title{My first talk with \LaTeX{}}
\subtitle{The template works!}
\author{Your Name}
\institute{Your Institute}
\date{\todav}
\titlegraphic{\includegraphics%
[height=0.45\paperheight]{placeholder}
\begin{document}
\maketitle
\begin{frame}
 \frametitle{My first slide title}
 \framesubtitle{My first slide subtitle}
\ end{frame}
\end{document}
```





Slide 6





Part III: Examples



ETFX-Beamer Features

The following slides show how Latex-Beamer constructs work within the template.

- Framebreaks
- Lists, numbered lists
- Plain slides, background images
- Theorems, proofs
- Definitions, examples
- Blocks, alert blocks
- Highlight options
- Formulae
- Verbatim environments



- using the pause command:
 - First item.



Another Subtitle

- using the pause command:
 - First item.
 - Second item.
- using overlay specifications:

■ using the general uncover command:



- using the pause command:
 - First item.
 - Second item.
- using overlay specifications:
 - 1 First numbered item.
- using the general uncover command:



- using the pause command:
 - First item.
 - Second item.
- using overlay specifications:
 - 1 First numbered item.
 - 2 Second numbered item.
 - 3rd level item!
- using the general uncover command:



- using the pause command:
 - First item.
 - Second item.
- using overlay specifications:
 - 1 First numbered item.
 - 2 Second numbered item.
 - 3rd level item!
- using the general uncover command:
 - First item.



- using the pause command:
 - First item.
 - Second item.
- using overlay specifications:
 - 1 First numbered item.
 - 2 Second numbered item.
 - 3rd level item!
- using the general uncover command:
 - First item.
 - Second item.



Plain Frames

- The next slide shows a plain frame, even without the "Jülich" color bars at the left-hand side.
- To use plain frames add the [plain] parameter to your \begin{frame} statement.

How to use plain frames

```
\begin{frame} [plain]
\frametitle(Plain Frame)
\begin{frame} \text{ begin{frame} \text{ begin{frame} \text{ on a plain frame.} \end{frame} \\
\end{frame} \\
\end{frame} \text{ ond frame} \\
\end{frame} \\
\end{f
```



Plain Frame

Enough space for your big ideas. (or holdstypictures)

theorem, proof

Theorem

There is no largest prime number.

Proof.

1 Suppose *p* were the largest prime number.

Thus q + 1 is also prime and greater than p.

theorem, proof

Theorem

There is no largest prime number.

Proof.

- 1 Suppose *p* were the largest prime number.
- 2 Let *q* be the product of the first *p* numbers.
- Thus q + 1 is also prime and greater than p.



theorem, proof

Theorem

There is no largest prime number.

Proof.

- 1 Suppose p were the largest prime number.
- 2 Let q be the product of the first p numbers.
- Then q + 1 is not divisible by any of them.
- 4 Thus q + 1 is also prime and greater than p.



definition, example

Definition

A prime number is a number that has exactly two divisors.

Example

- 2 is prime (two divisors: 1 and 2).
- 3 is prime (two divisors: 1 and 3).
- 4 is not prime (three divisors: 1, 2, and 4).



block, alertblock

Simple Block

Just some text.

Alert Block

This block seems to be pretty important.



Highlight important information

Use "Jülich" colors to attract attention

Use \emph{}

This text is \emph{important}. This text is important.

Use \alert{}

This text is \alert{really} important!
This text is really important!



Math Environment

Use your ETEX formulae inside your slides without hassle

$$\begin{split} \iiint\limits_{V} \operatorname{div} \vec{F} \, dV &= \iint\limits_{S} \vec{F} \cdot d\vec{S} \\ \prod_{k=1}^{n} k = n! \,, \quad \sum_{k=1}^{n} k = \frac{n(n+1)}{2} \,, \quad \int_{0}^{2\pi} \sin t \, dt = 0 \\ p(x) &= \sum_{i=0}^{n} f_{i} q_{i}(x) \quad \text{with} \quad q_{i}(x) = \prod_{\substack{k=0 \\ k \neq i}}^{n} \frac{x - x_{k}}{x_{i} - x_{k}} \,. \\ \iint (\operatorname{U}\operatorname{grad} W) \cdot d\vec{S} &= \iiint (\operatorname{grad} U \cdot \operatorname{grad} W + U\Delta W) \, dV \end{split}$$

Verbatim Environment

Code Snippets

Slides containing \verb statements must be defined fragile

```
\begin{frame}[fragile]
     \frametitle{Hello World in Intercal}
     \begin{verbatim}
       DO .1 <- #13
       PLEASE DO ,1 SUB #1 <- #234
       DO ,1 SUB #2 <- #112
       DO ,1 SUB #3 <- #112
       DO ,1 SUB #4 <- #0
       DO ,1 SUB #5 <- #64
       DO ,1 SUB #6 <- #194
       DO .1 SUB #7 <- #48
       PLEASE DO ,1 SUB #8 <- #22
       DO ,1 SUB #9 <- #248
       DO ,1 SUB #10 <- #168
       DO ,1 SUB #11 <- #24
       DO ,1 SUB #12 <- #16
       DO ,1 SUB #13 <- #214
       PLEASE READ OUT ,1
       PLEASE GIVE UP
       \Xend{verbatim}
                                               % remove X after copy & paste :-)
\ end{frame}
```



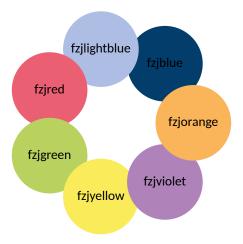


Part IV: Jülich Colors



Corporate Colors

You can use predefined colornames to spice up your slides







Part V: Localization



Localization

How to change the date display to another language

The date will be adjusted automatically. You just have to use the babel package with the desired language.

Date style - Mixed

Date style - German

O1. Januar 2018 \selectlanguage{ngerman}

Date style - English

January 01, 2018 \selectlanguage{english}

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Localization/Language

Change Helmholtz Banner Text

Using the babel package with the language option automatically sets the correct labels for the slide counter and Helmholtz banner.

Helmholtz Banner and Date in German

- Take a look at the date and Helmholtz banner in the lower left corner and the slide name adn frame number in the middle
- This slide should show the german version
- Enable options via \documentclass[english,ngerman]{beamer}
- Enabled locally via \selectlanguage{ngerman} before \begin{frame}





Part VI: Tweaks



Slide Number Display

How to change the slide number style

Full Display: Current Slide | Overall Number of Slides

\setbeamertemplate{frame number}[full]

Slide 42 | 524

No Display: empty

\setbeamertemplate{frame number}[empty]

Default Display: Current Slide

\setbeamertemplate{frame number}[default]

Slide 42

Translation

If you choose german as language the name Slide will be translated to Folie automatically (See this slide)



Project Partners

How to set up partner logos

- Show up to 3 partner logos, on this slide Jara, RWTH, Bonn
- Design your logos with sufficiently large white borders
- pdftex pictures file types: .pdf .png .jpg

Show logos

```
\setbeamertemplate{footer element1}[logo]{jara}
\setbeamertemplate{footer element2}[logo]{uni_bonn}
\setbeamertemplate{footer element3}[logo]{rwth}
```

Reset back to default settings

```
\setbeamertemplate{footer element1}[default]
\setbeamertemplate{footer element1}[default]
\setbeamertemplate{footer element1}[default]
```











Part VII: Handouts



Create Handouts

Switch and Setup Render Mode

```
\documentclass[handout]{beamer}
\mode<\handout>{
\pgfpagesuselayout{4 on 1}[a4paper,landscape,border shrink=5mm]}
```

Define Number of Pages per Sheet

```
\pgfpagesuselayout{2 on 1}[a4paper,border shrink=5mm]
\pgfpagesuselayout{4 on 1}[a4paper,landscape,border shrink=5mm, landscape]
\pgfpagesuselayout{8 on 1}[a4paper,border shrink=5mm]
\pgfpagesuselayout{16 on 1}[a4paper,landscape,border shrink=5mm, landscape]
```

Further Reading - See Latex-Beamer manual for details

www.ctan.org/tex-archive/macros/latex/contrib/beamer/doc/beameruserguide.pdf



Aspect Ratio

The documentclass allows several ratios for the slide. Just change the variable aspectratio.

Slide 23

- aspectratio=43 gives classical 4:3 ratio
- aspectratio=169 gives classical 16:9 ratio
- aspectratio=1610 gives classical 16:10 ratio



Style

The design allows two styles.

Style with Image

- for the title page: \fzjset{title page=image}
- for the part page: \fzjset{section page=image}
- for the section page: \fzjset{section page=image}

Style with Text

- for the title page: \fzjset{title page=text}
- for the part page: \fzjset{section page=text}
- for the section page: \fzjset{section page=text}



Allcaps or Regular Title Fonts

It is possible to switch the style of the font via the options

- \fzjset{title=allcaps} to set the title in allcaps
- \fzjset{title=regular} to set the title regular
- \fzjset{subtitle=allcaps} to set the title in allcaps for short text
- \fzjset{subtitle=regular} to set the title regular and in a smaller font for long text
- \fzjset{part=allcaps} to set the part in allcaps for short text
- \fzjset{part=regular} to set the part regular and in a smaller font for long text



Now in text only mode and regular text

December 7, 2017 | Your Name | My Institute





ETEX Beamer Template Now back in image mode

December 7, 2017 | Your Name | My Institute



Part X: This is a part page



This is a part page This is a section page



Fixed Bugs

Nothing reported yet.

More Pitfalls/bugs?

Please report.



Part XI: Extensions



Poster with LTEX-Beamer

To create scientific posters with MEX the beamerposter extension can be used. Template will be provided soon.

More Information at

http://www-i6.informatik.rwth-aachen.de/~dreuw/latexbeamerposter.php



Contact

Thank you for using this template!

Enhance Missing Functionality Yourself!

Please send your enhancements along with a short description to i.kabadshow@fz-juelich.de

Report Problems

Please report problems with the template or uncommon behavior to i.kabadshow@fz-juelich.de

