










## TU Graz Corporate Design – L<sup>A</sup>T<sub>E</sub>X Presentations

This presentation theme is based on the `beamer`  package for pdfL<sup>A</sup>T<sub>E</sub>X. If you are new to L<sup>A</sup>T<sub>E</sub>X presentations, check the `beamer` userguide for an introduction.

The theme package contains (at least the first five of) the following files:

-  `README.pdf`: This documentation
-  `presentation.tex`: Simple example presentation, useful as a starting point for your slides
-  `beamerthemetugraz2018.sty`: The style file that specifies the theme
-  `beamerthemetugraz/*.*`: Images loaded by the theme (title page, institute graphical acronyms)
-  `figures/*.*`: Example images used in the example presentations
-  `examples-presentation.tex`: Detailed examples for presentations (style options, content)
-  `examples-welcome.tex`: Detailed examples for “Welcome” title slides for events
-  `examples-poi.tex`, `examples-poi-nonewslines.tex`: Detailed examples for POI digital signage

### Getting started

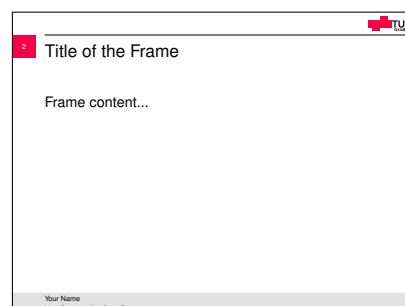
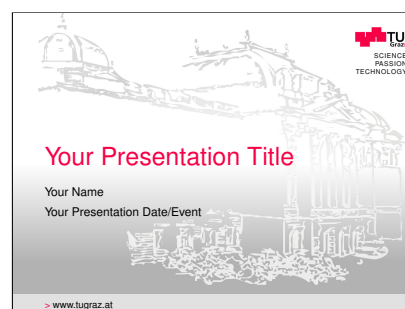
To load the theme in your presentation, copy `beamerthemetugraz2018.sty` and `beamerthemetugraz/` to your working directory. Start your main `.tex` file as follows to load the theme and set basic information; you can also copy `presentation.tex` as a basic template. Compile with `pdflatex` at least twice:

```
\documentclass{beamer}
\usetheme[tugraz2018] % add theme options here
% add your \usepackage{...} etc. here

% Provide document info:
\title[Your Presentation Title]
\author{Your Name}
\date{Your Presentation Date/Event}

\begin{document}
\begin{frame}[plain] % create title slide
  \maketitle
\end{frame}

\begin{frame}{Title of the Frame}
  Frame content...
\end{frame}
...
\end{document}
```



## Theme Package Options

1. **Aspect ratio:** Choose the correct geometry for your projector with `beamer` (not theme) options:

- **16:9**, for most projectors and POI: `\documentclass[aspectratio=169]{beamer}`
- **4:3**, for older projectors: `\documentclass[aspectratio=43]{beamer}`



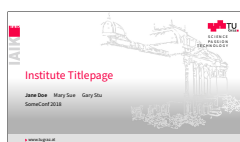
16:9



4:3

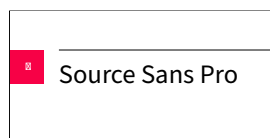
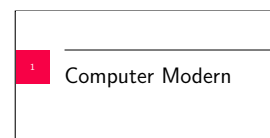
2. **Presentation theme:** Choose one of three main theme variants to define the slide layout:

- option `[standard]`, *default*: the standard neutral variant,
- option `[institute]`: with your institute's graphical acronym on the left, or
- option `[minimal]`: with reduced visual elements and more space for your contents.

`[standard]` (*default*)`[institute]``[minimal]`

3. **Font:** Optionally change the main font for the presentation:

- Helvetica/Arial (*default*) is the primary choice for the corporate design,
- Source Sans Pro (option `[webfont]`) is an alternative font used on the new TU Graz websites,
- Computer Modern Sans (option `[nofont]`) is the fall-back if you choose not to load any fonts.

Helvetica/Arial (*default*)Source Sans Pro `[webfont]`Computer Modern `[nofont]`

4. **Color:** Optionally change the main accent color to your faculty's color with a theme option:

`[tug]``[arch]``[bau]``[etit]``[mbww]``[tcvp]``[infbio]``[mpug]`

Or select a custom color with `\colorlet{main}{mycolorname}` (see `xcolor` [↗](#) package).

5. **Language:** `\usepackage[ngerman]{babel}` changes the language to German (claim, hyphenation).

## Title Pages

### Presentations

- `\maketitle` creates a title slide for standard presentations:



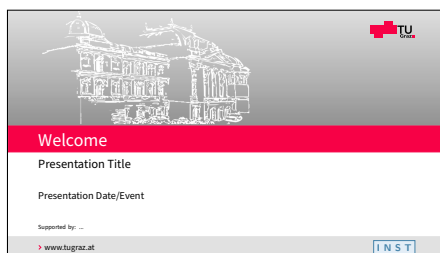
`\maketitle` (16:9)



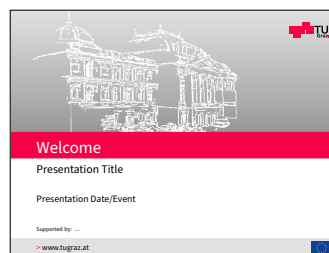
`\maketitle` (4:3)

### Welcome Slide

- `\makewelcome` creates a standalone cover/opening slide for events:



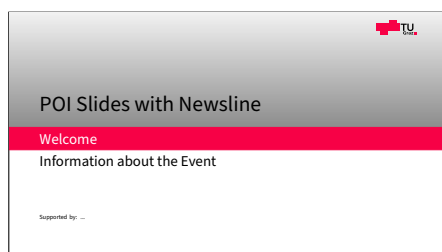
`\makewelcome` (16:9)



`\makewelcome` (4:3)

### TU Graz Digital Signage (POI) Slides


- `\makepoi` for standard slideshows on digital signage widescreens (POI) across the campus (event announcements, digital posters). Part of the screen will be covered by the newsline (100 px) as indicated.
- `\makepoinonewslines` for temporary, local slideshows on digital signage widescreens (POI) during an event (event program details, information for participants, etc.).



`\makepoi`



`\makepoinonewslines`

The POI variants need to be exported as png images (1360×768 px). See [poi.tugraz.at](http://poi.tugraz.at)  for details. On Linux: `convert -geometry 1360x768 -density 300 myfile.pdf -quality 90 myfile.png`

## Title Information

	<code>\title</code>	<code>\subtitle</code>	<code>\date</code>	<code>\author</code>	<code>\institute</code>	<code>\instituteurl</code>	<code>\instituteurl</code>	<code>\additionallogo</code>	<code>\logobar</code>	<code>\titlefigure</code>	<code>\toptext</code>	<code>\bottext</code>
Slides	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<code>\maketitle</code>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<code>\makewelcome</code>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<code>\makepoi</code>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<code>\makepoinonewslines</code>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

The information on the title page is set with the following variables in the preamble or document. Images must be pdf, png, or jpg files with no umlauts, spaces, or special characters in the filename.

- **Title:** `\title[Short Title]{Your Long Title}` sets the presentation title. An optional short title is displayed in the headline of every slide.
- **Date/Event:** `\date{Presentation Date}` sets the date or event on the title page and footline.
- **Author:** `\author{Jane Doe}` sets the list of authors. Separate multiple authors with `\and` and optionally highlight the presenter. Displayed on the title page (`\maketitle`) and in the footline.
- **Affiliation:** `\institute{TU Graz}` sets the author's affiliation, also displayed in the footline.
- **URL:** `\instituteurl{www.tugraz.at}` sets the author's or institution's website. Displayed in the footline of the title page and, in the `minimal` style, in the headline.
- **Institute's Graphical Acronym:** `\instituteurl{beamerthemetugraz/institute/EXAMPLE}` sets the institute's graphical acronym (Kürzel) displayed on the left margin in the `institute` variant to the specified file. If your institute's acronym is still missing, request it from [cd@tugraz.at](mailto:cd@tugraz.at) ✉
- **Institute's Additional Logo:** `\additionallogo{figures/logo}` specifies the given file as an additional logo of the institute/department that is displayed in the footline.
- **Sponsors:** `\logobar{Supported by...}` sets a line of sponsor names or logos on the title page.
- **Welcome text:** `\subtitle{Welcome}` sets the "Welcome" bar text on the welcome page.
- **Top/bottom text:** `\toptext{...}`, `\bottext{...}` set text above/below the Welcome bar (POI).
- **Background image:** `\titlefigure{figures/myfile}` sets the top background image. Sizes:

Welcome	4:3	12.8 cm × 4.74 cm	1024 px × 380 px
Welcome	16:9	16.0 cm × 4.21 cm	1920 px × 506 px
POI with newslines	16:9	16.0 cm × 4.19 cm	1920 px × 503 px
POI without newslines	16:9	16.0 cm × 5.35 cm	1920 px × 642 px

## Welcome/POI Customization

The Welcome/POI slides are intended for customizations with the following steps within the frame:

(1) Style with templates/colors, (2) Set title information, (3) Typeset with `\make...`, (4) Decorate.

### Background templates and colors

- **Top background template:** Configure via the beamer template `welcome page top` (*default: figure*) or `poi page top` (*default: shade*) to one of these options, e.g.,

`\setbeamertemplate{poi page top}[fill]:`

- `plain` leaves the background white.
- `fill` fills the background with a solid color.
- `shade` uses a gradient gray color.
- `figure` prints the image file `\titlefigure{}`.


Top text and fill color: `\setbeamercolor{welcome page top}{fg=mytextcolor,bg=myfillcolor}`.

- **Welcome bar, theme elements:** Defined by the main color (*default: tug red*). Change with a package option (see “Color”) or `\colorlet{main}{mycolorname}`.

- **TU Graz logo:** The predefined `welcome/poi` templates typeset the TU Graz logo in the correct size. `\makelogo` typesets the TU Graz logo manually (usually not necessary). The logo colors are defined by the beamer color `tuglogo` (*default Text: fg=black, Squares: bg=tug*). If you need another variant of the TU Graz logo (e.g., monochrome), change with

`\setbeamercolor{tuglogo}{fg=white,bg=tug}`.

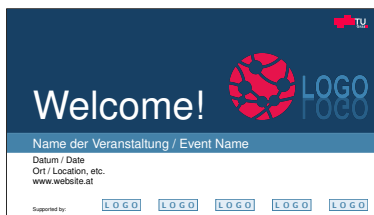
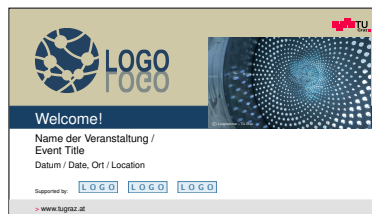
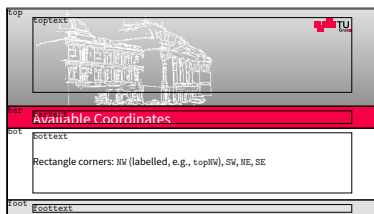
### Decoration: Event Logo, Eyecatchers

To allow free placement of additional elements (event logo, etc.) with `tikz` , the relevant corners of the Welcome/POI slides are available as named TikZ coordinates using the option `tugtheme`:

```
\begin{tikzpicture}[tugtheme]
```

```
% ...TikZ code using corner coordinates NW/SW/NE/SE of top, bar, foot...
```

```
\end{tikzpicture}
```



For details, we refer to `examples-welcome.tex`, `examples-poi.tex`, `examples-poi-nonewslines.tex`.

## Technical Information

**Theme Version:** 12 June 2023

**Updating from the 2013 Theme:** Presentations using the 2013 theme are largely compatible with the 2018 theme – please check the spacing in the final output. The `[notes]` option no longer displays a preview of the next slide, please instead use a pdf viewer that supports this feature, such as `pdfpc` on Linux.

**Other Options:** The following advanced theme options are supported, but not recommended:

`notes` (produces dual-screen pdf showing a Presenter View with your notes on the second screen)

`pure` (hides all theme elements on normal frames)

`nofootline / noheadline` (hides the theme footline / headline)

`nologo` (hides the TU Graz logo and claim)

`nofiles` (hides title background figures to remove external dependencies on files in `beamerthemetugraz/`)

`strict` (enforces strict font sizes instead of relative font sizes for many theme elements)

`plainsectionpages` (hide headline/footline on sectionheader slides)

`biblatex` (loads the `biblatex` ↗ package at the end of the preamble)

`nohyperref` (does not load the `hyperref` ↗ package)

**Required Packages:** `beamer`, `ifthen`, `tikz`, `ocg-p`, `scrextend`, `iflang`, `soul`.

Optional: `helvet`, `sourcesanspro`, `fontenc`, `biblatex`, `pgfpages`, `hyperref`.

**Tested with** T<sub>E</sub>XLive 2022

## Finding Help

- <https://latex.tugraz.at> ↗ – Introductory information, TU Graz templates, and more
- <https://en.wikibooks.org/wiki/LaTeX> ↗ – Extensive L<sup>A</sup>T<sub>E</sub>X guide and introduction
- <http://tug.ctan.org/macros/latex/contrib/beamer/doc/beameruserguide.pdf> ↗ – User guide for the `beamer` ↗ presentation class

**Presenting PDF slides** works best if your PDF viewer supports multiple screens and can display additional information (next slide, time, notes) on your notebook's screen, such as `pdfpc` on Linux.

## Contact

- Corporate Design: Christina Fraueneder [cd@tugraz.at](mailto:cd@tugraz.at) ✉ <https://cd.tugraz.at> ↗
- 2018–2023 L<sup>A</sup>T<sub>E</sub>X Theme: Maria Eichlseder [maria.eichlseder@tugraz.at](mailto:maria.eichlseder@tugraz.at) ✉
- Re-using some elements of the 2013 L<sup>A</sup>T<sub>E</sub>X Theme by Thomas Quaritsch

## Graphical acronyms

