



**JOHANNES KEPLER  
UNIVERSITY LINZ**



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# JKU L<sup>A</sup>T<sub>E</sub>X BEAMER THEME

## A First Layout Proposal



Space for speaker names

2021/07/18

Space for institute information

# PREREQUISITES



# Installation

- Download `jkubeamer.zip` (or `jkulatex.zip`) from `teaming.jku.at`.
- Extract its content (unzip) and move the files to a location on your computer where  $\text{\LaTeX}$  will find them (depends on your installation).
- Use documentclass `beamer` with your preferred options.
- Use JKU beamer theme: `\usetheme[...]{jku}`.
- use “`pdflatex`” (because it includes graphics in non-PostScript-format).

# Theme Package Requirements

This theme requires that the following packages are installed:

- `{beamer}`
- `{calc}`
- `[utf8]{inputenc}`
- `{listings}`
- `{pgf}`
- `{xcolor}`

**PREREQUISITES**



**JKU THEME OPTIONS**



# General Options

Option	Description
german	German logo, german text templates
nosectionpage	Section pages will be suppressed
nopagenumber	Page Numbers will be suppressed
nojkuFooter	No JKU-logo in the page footer
greyText	Most text-like fonts are printed darkgrey

# Faculty-Specific Options

**RE** colors for RE-faculty

**SOWI** colors for SOWI-faculty

**TNF** colors for TNF-faculty

**MED** colors for MED-faculty

... maybe more in the future?

If no faculty-specific options are given, the package uses general JKU color styling, which is essentially b/w.

# Titlepage

A titlepage is generated with the `\maketitle`-command. It uses the information given in the preamble:

**Title:** title of the presentation (`\title`-command)

**Subtitle:** subtitle of the presentation (`\subtitle`-command)

**Author:** author of the presentation (`\author`-command)

**Institute:** institute of the autho (`\institute`-command)

**Date:** date of the presentation (`\date`-command)

- `\date{}` suppresses the date
- omitting the `\date`-command uses today's date

**Partnerlogo:** a logo for a partner-institution (e.g. co-sponsor)  
(`\partnerlogo`-command). Must be a filename containing an image.

# Teaser Pages

You might consider to put some sort of empty slide with the JKU-logo before the titlepage (like in the current presentation). This slide could be shown before the presentation begins.

The commands for producing these slides are:

- `\jkulogoblack`
- `\jkulogogrey`
- `\jkulogowhite`

# Table of Contents

Include a listing of the presentation's sections For those longer presentations - keep the table of contents compact, but consider omitting an overview slide entirely, see [1].

```
\begin{frame}{Table of Contents}
  \tableofcontents[hideallsubsections]
\end{frame}
```

**Prerequisites**

**Colors**

**General Beamer Features (non JKU-Theme-specific)**

**Ending the Presentation**

# Table of Contents

This is a table of contents including the subsections

```
\begin{frame}{Table of Contents}
  \tableofcontents
\end{frame}
```

## Prerequisites

- JKU Theme Options

## Colors

## General Beamer Features (non JKU-Theme-specific)

## Ending the Presentation

## Section Pages

- At the beginning of each section (subsection, subsubsection) a slide will be inserted automatically telling the section title.
- Choose compact titles such that they fit on one line, it will look better!
- Section pages can be suppressed with the option `nosectionpage`.
- No section pages will be generated in handout-mode, see slide 26.
- Frame numbering does not count the section pages. Btw., if you want to reference a slide number, use the option `[label=s]` in the target frame. Then `\ref{s}` will give a reference to the slide number!

# Items & Enums

L<sup>A</sup>T<sub>E</sub>X does not support more than three levels, and this is good!

- point 1
  - sub 1
    - subsub 1

1. point 1
  - 1.1 sub 1
    - 1.1.1 subsub 1

```
\begin{itemize}
\item point 1
\begin{itemize}
\item sub 1
\begin{itemize}
\item subsub 1
\end{itemize}
\end{itemize}
\end{itemize}
\end{itemize}
```

```
\begin{enumerate}
\item point 1
\begin{enumerate}
\item sub 1
\begin{enumerate}
\item subsub 1
\end{enumerate}
\end{enumerate}
\end{enumerate}
\end{enumerate}
```



# Blocks

## Block Title Here

In  $\text{\LaTeX}$ -beamer it is very common to highlight content in so-called blocks. This is a standard block.

```
\begin{block}{Block Title Here}
```

```
  In \LaTeX-beamer it is very common to highlight content in  
  so-called blocks. This is a standard \texttt{block}.
```

```
\end{block}
```

# Additional Blocks

## Alert Block

This is an alert-block, if you have to use it.

```
\begin{alertblock}{Alert Block}  
  This is an alert-block, if you have to use it.  
\end{alertblock}
```

# Environments

## Definition (Monoid)

We call  $(M, \circ)$  a monoid if and only if

$$\forall a, b, c \in M : \quad (a \circ b) \circ c = a \circ (b \circ c) \quad \text{(associativity)}$$

$$\exists e \in M \forall a \in M : \quad a \circ e = e \circ a = a \quad \text{(neutral element)}$$

# Environments

Theorem (Fundamental Theorem of ...)

*Let  $(M, +)$  be a monoid. Then ...*

Proof.

Let  $M$  be an arbitrary set. We then show ...



Example

Put an example here.

# Pre-defined Environments

Standard  $\text{\LaTeX}$ -beamer defines several environments like  
*theorem, corollary, fact, lemma, problem, solution, definition, definitions,*  
*example, and examples.*

## German Environment Names

Note that if you want german environment names you have to pass the option 'german' to **beamer**, it is not enough to have 'german' in the JKU-beamer-theme.

# COLORS



# Color in Presentation

If you need colors in your presentation, use one of the pre-defined JKU-colors.

Mac-users should use theme-option 'mac'.

Consider one of the faculty-specific options, they also give decent coloring.

# Pre-defined JKU-Colors

`jkuBlue`

`jkuYellow`

`jkuLight Green`

`jkuPurple`

`jkuCyan`

`jkuGrey`

`jkuGreen`

`jkuRed`

`black`

`white`



# **GENERAL BEAMER FEATURES (NON JKU-THEME-SPECIFIC)**



# General Beamer Features

The following tips and tricks may be known to you as a frequent beamer user.

- background coloring
- empty slides
- including pictures
- using columns
- customized blocks
- self-defined environments
- producing handouts
- 16:9 presentations, etc.
- ...

# Frame Colored Backgrounds

You can change the color of a frame background by placing the frame within a group:

```
\begingroup
\setbeamercolor{background canvas}{bg=jkuLightGreen}
\begin{frame}
% Your frame content goes here
\end{frame}
\endgroup
```



Or maybe you want a background picture.

The aspect-ratio of the picture should fit the presentation page. To fill the whole screen you might use `height=...`, but the result might be distorted!

```
\begingroup
\usebackgroundtemplate{
  \includegraphics[width=\paperwidth]{jku_hoch_en.png}}
\begin[plain]{frame}
% Your frame content goes here
\end{frame}
\endgroup
```

# Custom Blocks

## Purple customization

Using the theme colors to generate colored blocks.

```
\begingroup
\setbeamercolor{block title}{fg=white, bg=jkuPurple}
\setbeamercolor{block body}{bg=jkuPurple!20}
\begin{block}{Custom Blocks}
    Using the theme colors to generate colored blocks.
\end{block}
\endgroup
```

# Self-defined Environments

You can define your own environments, too.

```
\newtheorem{idea}[theorem]{Idea}  
\theoremstyle{definition}  
\newtheorem{def}[theorem]{My Definition}  
\theoremstyle{example}  
\newtheorem{ex}[theorem]{My Example}
```

# Self-defined Environments

Idea (My own idea)

*Here is a self-defined environment*

My Definition

Test

My Example

Test



# Multiple Columns

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

- Point 1
- Point 2

# Producing Handouts

1. You can generate a 'handout'-version with the option `handout` in `beamer`.
2. Overlays will be flattened.
3. No section pages will be generated.
4. Note that frame-numbering will still coincide with frame-numbers in the non-handout version.

# Presentations using Different Aspect Ratio

1. Standard beamer supports the option `aspectratio=num`, where `num` is a decimal number and
  - 43** means 4:3,
  - 169** means 16:9, and
  - 1610** means 16:10.
2. All JKU-specific pages appear “nice” in all of these three formats due to adjustments in certain spacing.
3. Standard beamer supports more than those three, but the JKU-layout is not tested against them.

# ENDING THE PRESENTATION



**Thank You Thank You Thank You Thank You Thank You  
Thank You Thank You Thank You Thank You Thank You**

(you see, btw., the slide title can run over several lines ...)

Please ...

... refrain from putting an extra slide at the end saying “Thank you for your attention”. This is really annoying. You can say “Thank you” anyway, it need not be written, instead you can put a nice “JKU page” as the final slide! [2, 1]

Further activities:

- ...
- ...
- ...
- ...

Next meeting(s):

1. ...
2. ...
3. ...
4. ...

Further activities:

- ...
- ...



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# References

- [1] K. Karol.  
Two slides that are ruining your damn powerpoint presentation, October 8 2015.
- [2] D. M. Schultz.  
Do you end with a 'thank you' or 'questions?' slide?, February 9 2011.

# JKU Theme Information

This is an **official** beamer theme for JKU University, Linz, Austria.

Please help improving the style

You are always welcome to suggest improvements, or, even better, create alternative JKU styles based on this one.