PADERBORN UNIVERSITY

LaTeX Beamer Template

Prof. Dr. Axel Ngonga

Data Science Group
Paderborn University

April 8, 2021

LaTeX Beamer Template

Motivation

After the title slide, typically a table of contents is presented. Make it more interesting by firstly introducing the problem you are solving afterwards. That could also be on an own slide. Better than a long text like this is an image or keywords. Almost always.

Contents

Quick Start

Create your first slide:

1. Copy all *.sty files into a directory
2. Copy packages.tex into the directory
3. Create a .tex file and add the code listed below
4. Generate your slide using LaTeX

Listing 1: Minimal Example

```
\documentclass{beamer}
\usetheme{claw}
\input{packages.tex}
\begin{document}
\begin{frame} Hello World \end{frame}
\end{document}
```

Text Formatting

Predefined Styles

- You could emphasize important parts
  (Maybe distinguish between problems and solutions)
- Use alert to display **warnings**
- Use the url command (`https://dice-research.org/`) or the href command (DICE) for links
- Highlight "*predefined terms*" like brands and `TechnicalTerms` like software components

Text Formatting

Additional Commands

Use combinations for other concepts:

- Text styles: **bold**, *italic*, underlined, SMALL CAPS
- Font families: `monospaced`, sans serif, roman
- Text colors: bluedark, gray, magenta, blue, orange, purple, red, turquoise, green
- Text sizes: tiny, scriptsize, footnotesize, small, normalsize, large, Large, LARGE, huge, Huge

Code Listings & Frame Arguments

Use these arguments to configure frames:

`fragile`	Specially interpreted contents, e.g. for listings
`plain`	No headlines, footlines, sidebars; e.g. for large images To also remove background images use: `{\usebackgroundtemplate{}[...]}`
`squeeze`	Squeezes vertical spaces, e.g. for long contents
`shrink`	Shrinks frame, e.g. for long contents

Listing 2: Frame Options

```
1 \begin{frame}[fragile]{Code Listings \& Frame
    Arguments}
2   % [...]
3 \end{frame}
```

Mathematics & Miscellaneous

- Math[1]: $5^2 = 3^2 + 4^2$
- Equations:

$$\sum_{n=1}^{\infty} \frac{1}{n} = 1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \dots \tag{1}$$

[1] This is a footnote also working in columns

Blocks

This is a Block

- This is an item

1. This is enumeration item

This is an Example Block

- This is an item

1. This is enumeration item

This is an Alert Block

- This is an item

1. This is enumeration item

Blocks

This is a Block

- This is an item

1. This is enumeration item

This is an Example Block

- This is an item

1. This is enumeration item

This is an Alert Block

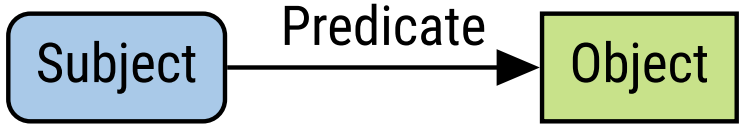
- This is an item

1. This is enumeration item

Tables

Topic	Content
Generator	Use tools like tablesgenerator.com
Large tables	Try the frame option `[shrink=.8]` (center table with `\hspace*{5cm}`)
Large tables	Combine the longtable package and the frame option `[allowframebreaks]`
Style	Try the booktabs package

Graphs



Thank you!

Questions?

Data Science Group at Paderborn University

Web: dice-research.org

Code: github.com/dice-group

Twitter: @DiceResearch

References I

[1] J. Wright, V. Miletić, and T. Tantau, “beamer – A LaTeX class for producing presentations and slides.” https://ctan.org/pkg/beamer.

[2] A. Wilke, “Claw LaTeX Beamer Template.” https://github.com/adibaba/templates.

Appendix

Predefined Base Colors

- primarybluedark
- primarybluelight
- primarygraylight
- primarygraydark
- secondarymagenta
- secondaryblue
- secondarygreen
- secondaryorange
- secondarypurple
- activeyellow
- activered
- activeturquoise
- activegreen
- specificblue

Appendix

Predefined Text Colors

- textdarkblue
- textgray
- textmagenta
- textblue
- textorange
- textpurple
- textred
- textturquoise
- textgreen
- textbluespecific

Appendix

Predefined Element Colors

- elementgray
- elementmagenta
- elementblue
- elementorange
- elementpurple
- elementyellow
- elementred
- elementturquoise
- elementgreen
- elementbluespecific

Appendix

Predefined Light Colors

- lightgray
- lightmagenta
- lightblue
- lightorange
- lightpurple
- lightyellow
- lightred
- lightturquoise
- lightgreen
- lightbluespecific

Appendix

Predefined Background Colors

- backgroundgray
- backgroundmagenta
- backgroundblue
- backgroundorange
- backgroundpurple
- backgroundyellow
- backgroundred
- backgroundturquoise
- backgroundgreen
- backgroundbluespecific