A first RPTU LaTeX Presentation
A more detailed example

with the new RPTU Kaiserslautern–Landau Corporate Design

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Agenda

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Theme Options

Available options I - Colors and RPTU Hausschrift (Red Hat Text)

`\usetheme[options]{rptu}`

Option	Description
`dunkelblau|hellblau` `rot|orange` `dunkelgruen|hellgruen` `blaugrau|gruengrau` `violett|pink`	Set color scheme of presentation (**dunkelblau** is default) Each line defines a colorscheme, you specify the main color and the secondary color is set automatically
`redhattext=true|false`	Use/**Do not use** the Red Hat Text Font needs specific compilers $\Rightarrow$ read remarks (Slide 5)

Defaults are the descriptions written in **bold**.

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Using Red Hat Text

- › Make sure that the static versions of the font are installed on your computer
- › We use the following `.ttf` files
  - › RedHatText-Regular as normal text
  - › RedHatText-Italic as *italic* `\textit`
  - › RedHatText-SemiBold as **bold** `\textbf`
  - › RedHatText-SemiBoldItalic for ***bold and italic***
  - › RedHatText-Bold for **title and the sectionpage**, can be accessed with `\fontseries{k}\selectfont`
- › We use the package `fontspec` for setting this font $\Rightarrow$ you need to compile with X$\exists$LATEX (XeLaTeX) or LuaLATEX (LuaLaTeX) if you want to use Red Hat Text
- › If you use X$\exists$LATEX or LuaLATEX with the option `redhattext=false` then Arial is set as main font family with Arial Black as substitute for **RedHatText-Bold** (you need to install Arial/Arial Black manually under Ubuntu in that case)
- › With pdfLaTeX the main font family is Computer Modern (LATEX default)

Available options II - Logos
`\usetheme[options]{rptu}`

Option	Description
`ownlogo=true|false`	Use/**Do not use** a user specified logo (instead of default RPTU logo)
`sponsorlogo=true|false`	Use/**Do not use** a user specified sponsor logo (placed in upper right corner)

Defaults are the descriptions written in **bold**.
In both cases you need to specify the exact image with dimensions by filling

> `\renewcommand\ownlogo{}` ⇒ image A on the title page

> `\renewcommand\sponsorlogo{}` ⇒ image B on the title page

with e.g. `\includegraphics[width=3cm]{your_file.png}`

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Option	Description
`institute=true|false`	Show/**Hide** short institute in footline
`displayinstitute`	Show short institute in footline
`hideinstitute`	Hide short institute in footline
`frametotal=true|false`	Show/**Hide** total number of slides in footline
`displayframetotal`	Show total number of slide in footline
`hideframetotal`	Hide total number of slide in footline

Defaults are the descriptions written in **bold**.
This version uses the option `displayframetotal` but the default regarding the institute in the footline.

Available options IV - Navigation

`\usetheme[options]{rptu}`

Option	Description
`navigation=true|false`	Show/**Hide** navigation in headline
`displaynavigation`	Show navigation in headline
`hidenavigation`	Hide navigation in headline
`compress`	equivalent to beamer's compress

Defaults are the descriptions written in **bold**. If you do not specify any navigation option, no navigation bar with mini frames will be shown.
This presentation uses the defaults, i.e. no navigation bar.

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Options
Some Remarks

> Use `navigation=true` in combination with the option `compress` to obtain a single line for the navigation symbols.

> If `institute=true` the `\institute` is used to set the name of department/institute/affiliation both in the footline and on the title page `\institute[name in footline]{name on title page}`

> Use `\documentclass[aspectratio=169]{beamer}` for getting a 16:9 aspect ratio instead of 4:3

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Elements of a Frame
Blocks

Blocks

Basic Block
`block`: Content is typeset like this

Alert Block
`alertblock` (always in rot/orange): Content is typeset like this

Example Block
`exampleblock` (always in dunkelgruen/hellgruen): Content is typeset like this

Definition (Probability Space)

A definition goes here.

Theorem (Bayes' Theorem)

We might want to state theorems.

Example

Or give examples.

Proof.

And a proof. □

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A RPTU Design Box

These boxes are created with the `tcolorbox` package and are defined within `beamerthemeRPTU.sty`.

```
\begin{rptu-twocolors}
text
\end{rptu-twocolors}
```

```
\begin{rptu-onecolor}
text
\end{rptu-onecolor}
```

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Elements of a Frame
Footnotes

Footnotes

Sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Sed diam voluptua.[1] At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.

---

[1] here goes a footnote

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Sed diam voluptua. At vero eos et accusam et justo duo dolores[2] et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Sed diam voluptua.[3] At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.[4]

---

[2] some footnote
[3] here goes a footnote
[4] even a third footnote

2

Elements of a Frame
Frame Styles

A slide of style **minimal**

You can create a slide like this via
`\begin{frame}[minimal]{A slide of style minimal}`
…
`\end{frame}`
Here, only frame number and RPTU logo are shown in the footline.

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A slide of style **minimal and highlight1**

```
\begin{frame}[minimal]{A slide of style minimal, highlight1}
…
\end{frame}
```

Here, only frame number and RPTU logo are shown in the footline. **Highlight1** sets the background color to the main color.

> A
>> A
>> B
> B

A slide of style **highlight2**

```
\begin{frame}[highlight2]{A slide of style highlight2}
…
\end{frame}
```

Highlight2 sets the background color to the secondary color.

A slide of style **plain**

```
\begin{frame}[plain]{A slide of plain}
…
\end{frame}
```

An example for a **plain** slide with title, thus no footline, no headline, no navigation (in case that you use the navigation option)

If you want a monochrome slide

```
\begin{frame}[minimal, black]{If you want a monochrome slide}
…
\end{frame}
```

This one uses `minimal` and `black`

Back to a white slide

Style changes are only changed back to default at the beginning of each standard slide. `\rptusectionpage` does not count as a slide. You should use a non-colored slide before using a sectionpage with a subsection title (as e.g. the next slide) to correctly change the colors. Using minimal or plain is fine.

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Elements of a Frame
Lists

Itemize and Enumerate Environments

Some text before the itemize

- one
  - item one one
  - item one two
    - item one one
    - item one two
- two

Some text after the itemize

Some text before the enumerate

1. one
2. two
   2.1. enumerate with subitem
   2.2. second
3. and even mixed
   - item one one
   - item one two

Some text after the enumerate

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3 Math

Sample of Math Typesetting

By default, the beamer template changes the math font to the sans serif font.

$$\sum_{n=1}^{k} \frac{1}{n} \succ \int_{1}^{k+1} \frac{1}{x}\,dx = \ln(k+1) \qquad \sum_{n=0}^{\infty} \frac{(-1)^n}{2n+1} = 1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \cdots = \frac{\pi}{4}$$

$$\int_{a}^{b} f(x)\,dx = F(b) - F(a) \qquad\qquad f'(a) = \lim_{h \to 0} \frac{f(a+h) - f(a)}{h}$$

$$\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix} \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 1 \\ 0 & 3 \end{bmatrix} \qquad\qquad r = |z| = \sqrt{x^2 + y^2}$$

If you want to use a different sans serif or a serif font, you can use

```
\usepackage{unicode-math}
\setmathfont{Latin Modern Math}
```

in the preamble to specify Latin Modern Math (as a serif font) or any other

available font as math font.

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Images and Figures

with \subsection* it is possible to add some text here which does not count for the table of contents
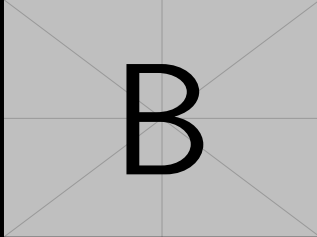
Include Images
on black background

Figure: Image A

Figure: Image B
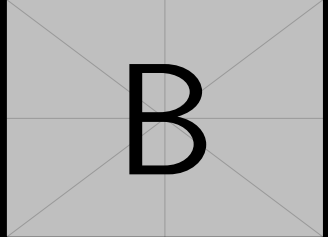

Figure: Image C

Include Images
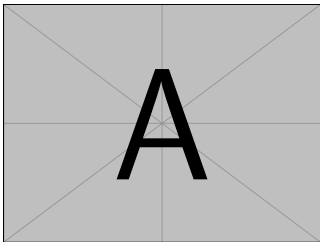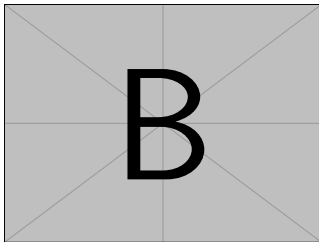on white background

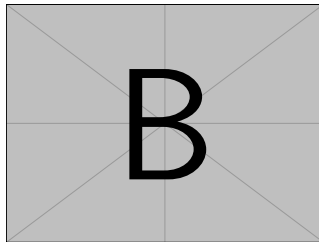Figure: Image A

Figure: Image B

Figure: Image C

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Thank you

Maybe your name

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