Beamer-Vorlagen für tubslatex

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30. November 2020

Zusammenfassung

Dieses Dokument beschreibt die verschiedenen Module der Beamer-Vorlagen. Diese sind aufgeteilt in ein Farbschema, ein Fontschema, ein inneres und ein äußeres Schema, sowie ein zusammenfassendes Schema.

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Teil a

beamerthemetubs.dtx

beamerthemetubs – beamer-Theme für *tubslatex*[*]

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30. November 2020

Zusammenfassung

Diese Datei stellt das Farbschema für latex-beamer-Präsentationen im Corporate Design dar.

1 Implementierung

1 ⟨*beamertheme⟩

```
2 \ProvidesPackage{beamerthemetubs}[\tubslatexVersion\space TU Braunschweig (beamer) theme]
3 \typeout{^^JBeamer theme 'tubs', \tubslatexVersion^^J}
```

1.1 Optionen

1.1.1 Font-Optionen

'nexus'

```
4 \DeclareOptionBeamer{nexus}{%
5   \PassOptionsToPackage{nexus}{beamerfontthemetubs}}
```

'arial'

```
6 \DeclareOptionBeamer{arial}{%
7   \PassOptionsToPackage{arial}{beamerfontthemetubs}}
```

'lnum'

```
8 \DeclareOptionBeamer{lnum}{%
9   \PassOptionsToPackage{lnum}{beamerfontthemetubs}}
```

[*]This document corresponds to beamerthemetubs ?, dated ?.

1.1.2 Farb-Optionen

‘rgb’

```
\DeclareOptionBeamer{rgb}{%
  \PassOptionsToPackage{rgb}{beamercolorthemetubs}%
  \PassOptionsToPackage{rgb}{tubslogo}}
```

‘rgbprint’

```
\DeclareOptionBeamer{rgbprint}{%
  \PassOptionsToPackage{rgbprint}{beamercolorthemetubs}%
  \PassOptionsToPackage{rgbprint}{tubslogo}}
```

‘cmyk’

```
\DeclareOptionBeamer{cmyk}{%
  \PassOptionsToPackage{cmyk}{beamercolorthemetubs}%
  \PassOptionsToPackage{cmyk}{tubslogo}}
```

‘yellow’

```
\DeclareOptionBeamer{yellow}{%
  \PassOptionsToPackage{yellow}{beamercolorthemetubs}}% for compatibility
```

‘orange’

```
\DeclareOptionBeamer{orange}{%
  \PassOptionsToPackage{orange}{beamercolorthemetubs}}
```

‘green’

```
\DeclareOptionBeamer{green}{%
  \PassOptionsToPackage{green}{beamercolorthemetubs}}
```

‘blue’

```
\DeclareOptionBeamer{blue}{%
  \PassOptionsToPackage{blue}{beamercolorthemetubs}}
```

‘violet’

```
\DeclareOptionBeamer{violet}{%
  \PassOptionsToPackage{violet}{beamercolorthemetubs}}
```

‘light’

```
\DeclareOptionBeamer{light}{%
  \PassOptionsToPackage{light}{beamercolorthemetubs}}
```

‘medium’

```
\DeclareOptionBeamer{medium}{%
  \PassOptionsToPackage{medium}{beamercolorthemetubs}}
```

‘dark’

```
\DeclareOptionBeamer{dark}{%
  \PassOptionsToPackage{dark}{beamercolorthemetubs}}
```

‘colorhead’

```
\DeclareOptionBeamer{colorhead}{%
  \PassOptionsToPackage{colorhead}{beamerouterthemetubs}}
```

‘colorfoot’

```
\DeclareOptionBeamer{colorfoot}{%
  \PassOptionsToPackage{colorfoot}{beamerouterthemetubs}}
```

‘colorblocks’

```
\DeclareOptionBeamer{colorblocks}{%
  \PassOptionsToPackage{colorblocks}{beamercolorthemetubs}}
```

1.1.3 Layout-Optionen

‘nopagenum’

```
\DeclareOptionBeamer{nopagenum}{%
  \PassOptionsToPackage{nopagenum}{beamerouterthemetubs}}
```

‘nodate’

```
\DeclareOptionBeamer{nodate}{%
  \PassOptionsToPackage{nodate}{beamerouterthemetubs}}
```

‘noauthor’

```
\DeclareOptionBeamer{noauthor}{%
  \PassOptionsToPackage{noauthor}{beamerouterthemetubs}}
```

‘totalpages’

```
\DeclareOptionBeamer{totalpages}{%
  \PassOptionsToPackage{totalpages}{beamerouterthemetubs}}
```

‘tocinheader’

```
\DeclareOptionBeamer{tocinheader}{%
  \PassOptionsToPackage{tocinheader}{beamerouterthemetubs}}
```

‘tinytocinheader’

```
\DeclareOptionBeamer{tinytocinheader}{%
  \PassOptionsToPackage{tinytocinheader}{beamerouterthemetubs}
  \PassOptionsToPackage{tinytocinheader}{beamerfontthemetubs}}
```

‘nosubsectionsinheader’

```
\DeclareOptionBeamer{nosubsectionsinheader}{%
  \PassOptionsToPackage{nosubsectionsinheader}{beamerouterthemetubs}}
```

‘widetoc’

```
\DeclareOptionBeamer{widetoc}{%
  \PassOptionsToPackage{widetoc}{beamerouterthemetubs}}
```

‘narrowtoc’

```
\DeclareOptionBeamer{narrowtoc}{%
  \PassOptionsToPackage{narrowtoc}{beamerouterthemetubs}}
```

‘nologoinfoot’

```
\DeclareOptionBeamer{nologoinfoot}{
  \PassOptionsToPackage{nologoinfoot}{beamerouterthemetubs}}
```

Optionen verarbeiten

```
% \DeclareOptionBeamer*{%
%   \PassOptionsToPackage{\CurrentOption}{beamerthemetubs}%
% }
\ExecuteOptionsBeamer{rgb}
\ProcessOptionsBeamer\relax
%
\DeclareOption*{%
  \let\@classoptionslist\CurrentOption
  \PassOptionsToClass{\CurrentOption}{beamer}%
}
\ProcessOptions\relax
```

Hack: If available use short title for pdftitle

```
\g@addto@macro\beamer@firstminutepatches{%
  \hypersetup{%
    pdftitle={\beamer@shorttitle\ifx\insertsubtitle\@empty\else\ - \insertsubtitle\fi}}
}
```

```
\mode<presentation>
```

Themen einbinden

```
\usecolortheme{tubs}
\usefonttheme{tubs}
\useoutertheme{tubs}
\useinnertheme{tubs}

\mode<all>
%
⟨/beamertheme⟩
```

Teil b

beamercolorthemetubs.dtx

Technische Universität Braunschweig

beamercolorthemetubs – beamer-Farbschema für *tubslatex*[*]

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30. November 2020

Zusammenfassung

Diese Datei stellt das Farbschema für latex-beamer-Präsentationen im Corporate Design bereit.

2 Implementierung

```
1 ⟨*colortheme⟩
2 \ProvidesPackage{beamercolorthemetubs}[\tubslatexVersion TU Braunschweig (beamer) color theme]
```

Es werden die folgenden Pakete geladen:

```
3 \RequirePackage{ifthen}
4 \mode<all>
```

Vordefinierte Makros

```
5 \def\tubscolor{Orange} % yellow is standard color
6 \def\tubscolorshade{}
7 \newboolean{colorblocks}\setboolean{colorblocks}{false}
```

2.1 Optionen

Farbmodell-Optionen

`'rgb'` Standard-Option. Darstellung in Beamer-optimiertem RGB-Farbmodell.

```
8 \DeclareOptionBeamer{rgb}{%
9   \PassOptionsToPackage{rgbbeamer}{tubscolors}
10  \PassOptionsToPackage{rgbbeamer}{tubslogo}
11 }
```

[*]This document corresponds to beamercolorthemetubs ?, dated ?.

`'rgbprint'` Druckoptimiertes RGB-Farbmodell

```
\DeclareOptionBeamer{rgbprint}{\PassOptionsToPackage{rgb}{tubscolors}}
```

`'cmyk'` CMYK-Farbmodell für Druck.

```
\DeclareOptionBeamer{cmyk}{\PassOptionsToPackage{cmyk}{tubscolors}}
```

Farbschema-Optionen

`'yellow'` `'green'` `'blue'` `'violet'` Legt das für die Darstellung verwendete Sekundärfarbschema fest.

```
\DeclareOptionBeamer{yellow}{\def\tubscolor{Orange}}% for compatibility
\DeclareOptionBeamer{orange}{\def\tubscolor{Orange}}
\DeclareOptionBeamer{green}{\def\tubscolor{Green}}
\DeclareOptionBeamer{blue}{\def\tubscolor{Blue}}
\DeclareOptionBeamer{violet}{\def\tubscolor{Violet}}
```

Schattierungs-Optionen

`'light'` `'medium'` `'dark'` Legt die Schattierung für das verwendete Farbschema fest.

```
\DeclareOptionBeamer{light}{\def\tubscolorshade{Light}}
\DeclareOptionBeamer{medium}{\def\tubscolorshade{}}
\DeclareOptionBeamer{dark}{\def\tubscolorshade{Dark}}
```

Block-Darstellung

`'colorblocks'` Eingefärbte Blöcke verwenden.

```
\DeclareOptionBeamer{colorblocks}{\setboolean{colorblocks}{true}}

\ExecuteOptionsBeamer{rgb,yellow,light}
\ProcessOptionsBeamer\relax
\RequirePackage{tubscolors}
```

2.2 Farbdefinitionen

```
\mode<presentation>
```

`palette primary` Primäre Palette. Wird verwendet für:

- Kopfleiste
- Titelleiste

- Part-Seiten

```
\setbeamercolor*{palette primary}{fg=tuBlack, bg=tuGrey20}
```

`palette secondary` Sekundäre Palette. Wird verwendet für:

- Titelseite

```
\setbeamercolor*{palette secondary}{fg=tuBlack, bg=tu\tubscolor\tubscolorshade }
```

`palette tertiary` Tertiäre Palette. Wird verwendet für:

- Fußzeile (fg)

```
\setbeamercolor*{palette tertiary}{fg=tuBlack,bg=tuWhite}
```

`palette quaternary` Quaternäre Palette. Wird nicht explizit verwendet.

```
\setbeamercolor*{palette quaternary}{parent=palette tertiary}
```

`separation line` `logo` Farbe der Trennlinie und des Logos.

```
\setbeamercolor{separation line}{bg=tuRed}
\setbeamercolor{logo}{parent=separation line}% TODO: unused!?
```

`structure` `highlight` Farbe von inneren Strukturelementen

```
\setbeamercolor{structure}{fg=tuBlack}
\setbeamercolor{highlight}{bg=tuRed,fg=white}
```

`normal text` `alerted text` `example text` Farbe von normalem, aletred und example-Text

```
\setbeamercolor{normal text}{fg=tuBlack,bg=tuWhite}
\setbeamercolor{alerted text}{fg=tuRed}
\setbeamercolor{example text}{fg=tuGreenDark}
```

`block body` `block body alerted` `block body example` `block title` `block title alerted` `block title example` Blöcke

```
\ifthenelse{\boolean{colorblocks}}{%
\setbeamercolor{block body}{bg=tuBlueDark20}
\setbeamercolor{block body alerted}{bg=tuRed20}
\setbeamercolor{block body example}{bg=tuGreenDark20}
\setbeamercolor{block title}{fg=tuBlueDark,bg=tuBlueDark40}
\setbeamercolor{block title alerted}{fg=tuRed100,bg=tuRed40}
\setbeamercolor{block title example}{fg=tuGreenDark,bg=tuGreenDark40}
}{%
\setbeamercolor{block body}{}
\setbeamercolor{block body alerted}{}
```

```
\setbeamercolor{block body example}{}
\setbeamercolor{block title}{fg=tuBlue}
\setbeamercolor{block title alerted}{parent=alerted text}
\setbeamercolor{block title example}{parent=example text}
}

\mode
<all>

⟨/colortheme⟩
```

Teil c

beamerfontthemetubs.dtx

beamerfontthemetubs – beamer-Fontschema für *tubslatex*[*]

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30. November 2020

Zusammenfassung

Diese Datei stellt das Fontschema für latex-beamer-Präsentationen im Corporate Design dar.

3 Implementierung

```
1 ⟨*fonttheme⟩
2 \ProvidesPackage{beamerfontthemetubs}[\tubslatexVersion\space TU Braunschweig (beamer) font the
3 \RequirePackage{ifthen}
```

3.1 Optionen

Variablen für Optionsbehandlung

```
4 \newboolean{tinytocinheader}\setboolean{tinytocinheader}{false}
5 \newboolean{use@nexus}\setboolean{use@nexus}{false}
6 \newboolean{use@lnum}\setboolean{use@lnum}{false}
```

'tinytocinheader'

```
7 \DeclareOptionBeamer{tinytocinheader}{\setboolean{tinytocinheader}{true}}
```

'nexus' Verwende Arial Font

```
8 \DeclareOptionBeamer{nexus}{\setboolean{use@nexus}{true}}
```

Verwende Versalziffern

[*]This document corresponds to beamerfontthemetubs ?, dated ?.

‘arial’ Verwende Nexus Font

```
\DeclareOptionBeamer{arial}{\setboolean{use@nexus}{false}}
```

‘lnum’ Verwende Versalziffern

```
\DeclareOptionBeamer{lnum}{\setboolean{use@lnum}{true}}

\ProcessOptionsBeamer\relax
```

Lade Pakete

```
\ifthenelse{\boolean{use@nexus}}{%
  \PassOptionsToPackage{nexus}{nexus}
}{%
  \RequirePackage{type1cm}% prevent OT1 font size warnings
  \PassOptionsToPackage{arial}{nexus}
}%
\ifthenelse{\boolean{use@lnum}}{%
  \PassOptionsToPackage{lnum}{nexus}
}{}%
\RequirePackage{nexus}
```

3.2 Zusätzliche Schriftgrößen

\microsize

```
\newcommand\microsize{%
  \tiny%
  \@tempdima=\f@size pt%
  \@tempdima=0.8333333\@tempdima%
  \@tempdimb=1.2\@tempdima%
  \@setfontsize\microsize{\the\@tempdima}{\the\@tempdimb}%
}
```

\nanosize

```
\newcommand\nanosize{%
  \microsize%
  \@tempdima=\f@size pt%
  \@tempdima=0.8333333\@tempdima%
  \@tempdimb=1.2\@tempdima%
  \@setfontsize\nanosize{\the\@tempdima}{\the\@tempdimb}%
}
```

3.3 Beamerfont-Definitionen

`page number in sidebar`

```
\setbeamerfont*{page number in sidebar}{size=\small,series=\bfseries}
```

`title` Schriftart des Titels auf Titelseiten

```
\setbeamerfont*{title}{series=\bfseries,size=\Large}
```

`subtitle` Schriftart des Untertitels auf Titelseiten

```
\setbeamerfont*{subtitle}{series=\mdseries,size=\normalsize}
```

`author` Schriftart des Autoren auf Titelseiten

```
\setbeamerfont*{author}{series=\mdseries,size=\footnotesize}
```

`frametitle` Schriftart des Titels auf Inhaltsseiten

```
\setbeamerfont*{frametitle}{series=\bfseries,size=\Large}
```

`footline` Schriftart der Fußzeile auf Inhaltsseiten

```
\setbeamerfont*{footline}{series=\mdseries,size=\microsize}
```

`section in toc` Schriftart für sections im mitlaufenden Inhaltsverzeichnis

```
\setbeamerfont*{section in toc}{series=\bfseries,size=\large}
```

`subsection in toc` Schriftart für subsections im mitlaufenden Inhaltsverzeichnis

```
\setbeamerfont*{subsection in toc}{series=\mdseries,size=\normalsize}
```

`footlinelogo` Schriftart für für das Logo auf Inhaltsverzeichnis

```
\setbeamerfont{footlinelogo}{size=\tiny}%
```

`section in head/foot` Set the font for the running toc dependig on option tinytocinheader

```
\ifthenelse{\boolean{tinytocinheader}}{%
  \setbeamerfont*{section in head/foot}{series=\mdseries,size=\nanosize}%
}{%
  \setbeamerfont*{section in head/foot}{series=\mdseries,size=\microsize}%
}
```

⟨/fonttheme⟩

Teil d

beamerouterthemetubs.dtx

Technische Universität Braunschweig

beamerouterthemetubs – beamer-Aussenschema für *tubslatex*[*]

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30. November 2020

Zusammenfassung

Diese Datei stellt das outer-Theme für latex-beamer-Präsentationen im Corporate Design bereit.

4 Template-Einbindung

Farben Die Farben der `palette primary` werden genutzt, um die Titelleiste etc. darzustellen. Die Farben der `palette secondary` werden genutzt, um die Elemente der Titelseite darzustellen. Ist die Option `colorheads` gewählt, wird `palette primary.bg` auf 40% der Farbe `palette secondary.bg` gesetzt.

5 Implementierung

```
1 ⟨*outertheme⟩
2 \ProvidesPackage{beamerouterthemetubs}[\tubslatexVersion\space TU Braunschweig (beamer) outer t
```

Lade benötigte Pakete

```
3 \RequirePackage{ifthen}
4 \RequirePackage{calc}
5 \RequirePackage{tubslogo}
6 \PassOptionsToPackage{ngerman}{babel}
7 \RequirePackage{babel}
8 \RequirePackage{tubsbeamersizes}
```

Horizontaler Abstand in running toc

[*]This document corresponds to beamerouterthemetubs ?, dated ?.

```
\newdimen\beamer@tochorizontalspace
\beamer@tochorizontalspace=0.15em
```

Boolean-Variablen für Optionen

```
\newboolean{tubs@nopagenum}\setboolean{tubs@nopagenum}{false}
\newboolean{tubs@nodate}\setboolean{tubs@nodate}{false}
\newboolean{tubs@noauthor}\setboolean{tubs@noauthor}{false}
\newboolean{tubs@totalpages}\setboolean{tubs@totalpages}{false}
\newboolean{tocinheader}\setboolean{tocinheader}{false}
\newboolean{nosubsectionsinheader}\setboolean{nosubsectionsinheader}{false}
\newboolean{nologoinfoot}\setboolean{nologoinfoot}{false}
\newboolean{colorhead}\setboolean{colorhead}{false}
\newboolean{colorfoot}\setboolean{colorfoot}{false}
```

5.1 Optionen

‘nopagenum’

```
\DeclareOptionBeamer{nopagenum}{\setboolean{tubs@nopagenum}{true}}
```

‘nodate’

```
\DeclareOptionBeamer{nodate}{\setboolean{tubs@nodate}{true}}
```

‘noauthor’

```
\DeclareOptionBeamer{noauthor}{\setboolean{tubs@noauthor}{true}}
```

‘totalpages’

```
\DeclareOptionBeamer{totalpages}{\setboolean{tubs@totalpages}{true}}
```

‘tocinheader’

```
\DeclareOptionBeamer{tocinheader}{\setboolean{tocinheader}{true}}
```

‘tinytocinheader’

```
\DeclareOptionBeamer{tinytocinheader}{\setboolean{tocinheader}{true}}
```

‘nosubsectionsintoc’

```
\DeclareOptionBeamer{nosubsectionsintoc}{%
  \setboolean{nosubsectionsinheader}{true}%
}
\DeclareOptionBeamer{nosubsectionsinheader}{%
  \setboolean{nosubsectionsinheader}{true}%
}
```

‘nologoinfoot’

```
\DeclareOptionBeamer{nologoinfoot}{\setboolean{nologoinfoot}{true}}
```

‘widetoc’

```
\DeclareOptionBeamer{widetoc}{\beamer@tochorizontalspace=0.3em}
```

‘narrowtoc’

```
\DeclareOptionBeamer{narrowtoc}{\beamer@tochorizontalspace=0.em}
```

Kopf-/Fuß-Darstellung

‘colorhead’

```
\DeclareOptionBeamer{colorhead}{
  \setbeamercolor{palette primary}{use=palette secondary,bg=palette secondary.bg!40}
}
```

‘colorfoot’ Darstellung des Kopf- bzw. Fußbereichs in Farbe.

```
\DeclareOptionBeamer{colorfoot}{\setboolean{colorfoot}{true}}
```

Optionen verarbeiten

```
\ProcessOptionsBeamer\relax
```

5.2 Implementierung

Only sections and subsections in toc

```
\setcounter{tocdepth}{2}% TODO: check
```

```
\newboolean{highlighttitle}\setboolean{highlighttitle}{false}
\newboolean{notitle}\setboolean{notitle}{false}
```

Texträndер links/rechts

```
\setbeamersize{text margin left=\beamer@leftmarginwidth}
\setbeamersize{text margin right=\beamer@leftmarginwidth}
\reset@font% TODO
```

Präsentations-Modus

```
\mode<presentation>
```

```
% \newcommand<>\insertsource{null}
% \newcommand<>\source[1]{%
% %   \gdef\insertsource{}
%   \only#2{\renewcommand<>\insertsource{#1}}%
%   insertsource is: \insertsource
% }
```

Titlepage-Farbzuordnung

```
\setbeamercolor{titlepage}{use={palette secondary}, parent=palette secondary}
\setbeamercolor{titlebarfirst}{use={titlepage}, parent=titlepage, bg=titlepage.bg!80}
\setbeamercolor{titlebarsecond}{use={titlepage}, parent=titlepage, bg=titlepage.bg!40}
\ifthenelse{\boolean{colorfoot}}{%
  \setbeamercolor{titlebarlow}{use={titlepage}, parent=titlepage, bg=titlepage.bg!80}
}{%
  \setbeamercolor{titlebarlow}{parent=separation line}
}
```

Head/Foot-Farbzuordnung

```
\setbeamercolor{titlehead}{parent=palette primary}
\setbeamercolor{titlelike}{parent=titlehead}
\setbeamercolor{section in head/foot}{parent=titlehead,fg=alerted text.fg}
\setbeamercolor{section in head/foot shaded}{parent=titlehead}
\setbeamercolor{subsection in head/foot}{parent=section in head/foot}
\setbeamercolor{subsection in head/foot shaded}{use=titlehead,parent=titlehead,fg=titlehead.fg!
\setbeamercolor{title in head/foot}{parent=palette tertiary}
\setbeamercolor{date in head/foot}{parent=title in head/foot}
\setbeamercolor{author in head/foot}{parent=title in head/foot}
\setbeamercolor{pagenum in head/foot}{parent=title in head/foot}
```

`sidebar right` Sidebar löschen

```
\defbeamertemplate*{sidebar right}{tubs}{}
```

`headline` Kopfzeile wird gesetzt, wenn 'tocinheader' gewählt wurde

```
\ifthenelse{\boolean{tocinheader}}{%
  \defbeamertemplate*{headline}{tubs}{%
%     \usebeamerfont{frametitle}% TODO
%     \def\@headtemplate{titlelike}
    % toc-Text-Farben für highlighttitle ändern
    \ifthenelse{\boolean{highlighttitle}}{%
      \setbeamercolor*{section in head/foot}{parent=highlight}
      \setbeamercolor{palette tertiary}{fg=white}% TODO: use from another
    }{}
    \begin{beamercolorbox}[dp=0mm, ht=0.45\beamer@headheight]{section in head/foot}%
        \parbox[b][0.45\beamer@headheight-\depth-.05\beamer@headheight]{\textwidth}{%
        \ifthenelse{\boolean{tocinheader}}{%
          {\usebeamerfont{section in head/foot}%
```

```
          \insertsectionnavigationhorizontal{\textwidth}%
                  {\hskip20pt plus1filll}{\quad}%
          \ifthenelse{\boolean{nosubsectionsinheader}}{}{%
            \vspace*{-0.5mm}%
            \insertsubsectionnavigationhorizontal{\textwidth}%
                    {\hskip20pt plus1filll}{\quad}%
          }}%
        }{}%
        \vfill%
      }%
    \end{beamercolorbox}%
  }%
}{%
  \defbeamertemplate*{headline}{tubs}{}%
}
```

frametitle Frame-Titel

```
\defbeamertemplate*{frametitle}{tubs}{%
  % Breite und hoehe berechnen
  \setlength{\tubs@outer@tempwidtha}{\textwidth+2\beamer@leftmarginwidth}
  \ifthenelse{\boolean{tocinheader}}{%
    \setlength{\tubs@outer@tempwidthb}{0.55\beamer@headheight}%
  }{%
    \setlength{\tubs@outer@tempwidthb}{\beamer@headheight}%
  }%
  \vskip-1.5pt% TODO: check why needed...
  \ifthenelse{\boolean{highlighttitle}}{%
    \addtolength{\tubs@outer@tempwidthb}{0.5\beamer@headheight}%
    \begin{beamercolorbox}[%
            wd=\tubs@outer@tempwidtha,%
            dp=0mm,%
            ht=\tubs@outer@tempwidthb]{highlight}%
      \vspace*{1em}\par%
      \hspace*{\beamer@leftmarginwidth}\parbox{\tubs@outer@tempwidtha-2\beamer@leftmarginwidth}
      \vspace*{0.5em}%
    \end{beamercolorbox}%
  }{%
    \begin{beamercolorbox}[%
            wd=\tubs@outer@tempwidtha,%
            dp=0mm,%
            ht=\tubs@outer@tempwidthb]{titlelike}%
        \hspace*{\beamer@leftmarginwidth}\parbox{\tubs@outer@tempwidtha-2\beamer@leftmarginwidt
        \vfill%
    \end{beamercolorbox}%
  }
}%
```

section in head/foot

```
\defbeamertemplate*{section in head/foot}{tubs}{%
  \usebeamercolor[fg]{section in head/foot}%
  {\insertsectionhead}\hspace{\beamer@tochorizontalspace}%
}
```

section in head/foot shaded

```
\defbeamertemplate*{section in head/foot shaded}{tubs}{%
  \usebeamercolor[fg]{section in head/foot shaded}%
  {\insertsectionhead}\hspace{\beamer@tochorizontalspace}%
}
```

subsection in head/foot

```
\defbeamertemplate*{subsection in head/foot}{tubs}{%
  \usebeamercolor[fg]{subsection in head/foot}%
  {\insertsubsectionhead}\hspace{\beamer@tochorizontalspace}%
}
```

subsection in head/foot shaded

```
\defbeamertemplate*{subsection in head/foot shaded}{tubs}{%
  \usebeamercolor[fg]{subsection in head/foot shaded}%
  {\insertsubsectionhead}\hspace{\beamer@tochorizontalspace}%
}
```

Lösche nicht benötigte Sidebar-Inhalte

section in sidebar
section in sidebar shaded
subsection in sidebar
subsection in sidebar shaded
subsubsection in sidebar
subsubsection in sidebar shaded

```
\defbeamertemplate*{section in sidebar}{tubs}{}
\defbeamertemplate*{section in sidebar shaded}{tubs}{}
\defbeamertemplate*{subsection in sidebar}{tubs}{}
\defbeamertemplate*{subsection in sidebar shaded}{tubs}{}
\defbeamertemplate*{subsubsection in sidebar}{tubs}{}
\defbeamertemplate*{subsubsection in sidebar shaded}{tubs}{}
```

Breite tubslogo: 24.7mm

footline

```
\newlength{\tubs@outer@tempwidtha}% used for settowidth
\newlength{\tubs@outer@tempwidthb}% used for settowidth
\defbeamertemplate*{footline}{tubs}{%
  % Kommandos deklarieren
  \def\@footsepline{\rule[-0.1em]{0.09em}{1em}}%
  % Trennwort zwischen Seitenzahl und Gesamtseitenzahl
  \def\pageof{%
```

```
  \iflanguage{ngerman}{von}{of}%
}%
% Datum + Trennstrich einfügen, Optionen beachten
\def\tubs@insertdate{%
  \ifthenelse{\boolean{tubs@nodate}}{}{%
    \usebeamerfont{date in head/foot}%
    \usebeamercolor{date in head/foot}%
    \textcolor{fg}{\insertdate}%
  }%
}%
% Trennstrich + Seite einfügen, Optionen beachten
\def\tubs@insertpage{%
  \ifthenelse{\boolean{tubs@nopagenum}}{}{%
    \usebeamerfont{page in head/foot}%
    \usebeamercolor{page in head/foot}%
    \ifthenelse{\boolean{tubs@totalpages}}{%
      ~\@footsepline~\textcolor{fg}{\pagename~\insertframenumber~\pageof~\inserttotalframenum
    }{%
      ~\@footsepline~\textcolor{fg}{\pagename~\insertframenumber}%
    }%
  }%
}%
%
\def\tubs@insertauthor{%
  \ifthenelse{\boolean{tubs@noauthor}}{}{%
    \usebeamerfont{author in head/foot}%
    \usebeamercolor{author in head/foot}%
    \textcolor{fg}{\insertshortauthor}%
  }%
}%
%
\newcommand\tubs@inserttitle[1][]{%
  {%
  \usebeamerfont{title in head/foot}%
  \usebeamercolor[fg]{title in head/foot}%
  \insertshorttitle[####1]%
  }%
}%
%% Additional space needed to increase the calculated height of the footline
\vspace*{0.25cm}
% TU-Logo und Sekundärlogo
\begin{minipage}{\paperwidth}
  \logoheight=20.7pt% Höhe des Logos in Fußzeile
  %Linie zeichnen
  {\usebeamercolor[bg]{separation line}\rule{\paperwidth}{0.4pt}}%
  % Logo-Dimensionen (manuell)
  \newdimen\beamer@CDlogowidth%
  \newdimen\beamer@CDlogoheight%
  \newdimen\@footline@textwidth%
  \beamer@CDlogowidth=24.7mm%
```

```
208     \beamer@CDlogoheight=9.17mm%
209 %     %
210 %     \hspace*{-\textwidth}\hspace{\beamer@CDlogowidth}\hspace{5pt}%
211 %     \raisebox{3pt}{\parbox[b]{\textwidth-\beamer@CDlogowidth-5pt-\beamer@CDborderwidth}{\ragg
212     % Wieder auf Zeilenanfang
213     \hspace*{-\paperwidth}%
214     % Siegelbandlogo
215     \raisebox{-0.75\beamer@CDlogoheight}{%
216       \tubslogoAbs{\beamer@CDlogowidth}%
217     }%
218     %
219     \hspace*{5pt}% Abstand Logo<->Text
220     %
221     \raisebox{-9pt}{% Abstand Linie/Text
222     % Breite von Textbereich (abhängig von Option 'nologoinfoot') berechnen
223       \setlength\@footline@textwidth{%
224         \paperwidth-5pt-\beamer@CDlogowidth-\beamer@CDborderwidth}%
225       \ifthenelse{\boolean{nologoinfoot}}{}{%
226         \addtolength\@footline@textwidth{-3.5\logoheight}% Logo-Breite abziehen
227       }%
228       % Textbereich setzen
229       \parbox[t][26pt]{\@footline@textwidth}{% Höhe und Breite Textbereich
230         % Prüfe, ob Inhalt in einzelne Zeile passt
231         \settowidth{\tubs@outer@tempwidtha}{%
232           \tubs@insertdate\tubs@insertauthor~\@footsepline~\tubs@inserttitle\tubs@insertpage}%
233         \ifthenelse{\lengthtest{\tubs@outer@tempwidtha<\@footline@textwidth}}{% passt...
234           \strut\tubs@insertdate
235           \ifthenelse{\boolean{tubs@nodate}}{}{~\@footsepline~}%
236           \tubs@insertauthor%
237           \ifthenelse{\boolean{tubs@noauthor}}{}{~\@footsepline~}%
238           \tubs@inserttitle%
239           \tubs@insertpage%
240         }{% passt nicht...
241           \strut\tubs@insertdate%
242           \ifthenelse{\boolean{tubs@nodate}}{}{%
243             \ifthenelse{\boolean{tubs@noauthor}}{}{%
244               ~\@footsepline~}}%
245           \tubs@insertauthor\tubs@insertpage\hfill\\%
246           \tubs@inserttitle[width=\@footline@textwidth]%
247         }%
248       }%
249     }%
250     %
251     \hspace*{0.5\beamer@CDborderwidth}% Abstand Text<->Logo
252     %
253     \raisebox{-\logoheight-4pt}{%
254       \parbox[t]{3.5\logoheight}{%
255         \vbox to\logoheight{%
256           \vfill%
257           % Logo einfügen, wenn nicht 'nologoinfoot'-Option gewählt wurde
```

```
          \ifthenelse{\boolean{nologoinfoot}}{}{%
            \usebeamerfont{footlinelogo}%
            \raggedleft\insertlogo%
          }%
          \vfill%
        }%
      }%
    }%
  \end{minipage}
}
```

navigation symbols Ausblenden der Navigations-Symbolleiste

```
\setbeamertemplate{navigation symbols}{}
```

5.3 Zusätzliche frame-Optionen

‘notitle’

```
\define@boolkey{beamerframe}{notitle}[true]{%
%   \ifKV@beamerframe@notitle
%     \setboolean{notitle}{true}
%   \else
%     \setboolean{notitle}{false}
%   \fi
}
```

‘highlight’

```
\define@boolkey{beamerframe}{highlight}[true]{%
  \ifKV@beamerframe@highlight
    \setboolean{highlighttitle}{true}
  \else
    \setboolean{highlighttitle}{false}
  \fi
}
```

Setze Standardwerte für zusätzliche Keys.

```
\presetkeys{beamerframe}{notitle=false, highlight=false}{}
```

5.3.1 Veraltete Umgebungs-Alternative

Umgebungen sind nicht weiter dokumentiert und sollten nicht verwendet werden. Sie sind nur aus Kompatibilitätsgründen erhalten.

```
\newenvironment{highlightframe}[1]{%
```

```
  \begin{frame}[highlight]{#1}%
}{%
  \end{frame}%
}

\newenvironment{notitleframe}[1]{%
  \setboolean{notitle}{true}%
  \begin{frame}{#1}%
}{%
  \end{frame}%
  \setboolean{notitle}{false}%
}

\mode
<all>
```

⟨/outertheme⟩

Teil e

beamerinnerthemetubs.dtx

Technische Universität Braunschweig

beamerinnerthemetubs – beamer-Farbschema für *tubslatex*[*]

Enrico Jörns
e dot joerns at tu minus bs dot de

30. November 2020

Zusammenfassung

Diese Datei stellt das Farbschema für latex-beamer-Präsentationen im Corporate Design dar.

6 Implementierung

```
1 ⟨*innertheme⟩
2 \ProvidesPackage{beamerinnerthemetubs}[\tubslatexVersion\space TU Braunschweig (beamer) inner t
```

Lade Pakete.

```
3 \RequirePackage{ifthen}
4 \RequirePackage{relsize}[1999/11/01]
5 \RequirePackage{printlen}
6 \RequirePackage{tubsbeamersizes}
7 \RequirePackage{tubslogo}
```

6.1 Optionen

'shadow'

```
8 \DeclareOptionBeamer{shadow}[true]{\def\beamer@themerounded@shadow{#1}}
```

Optionen behandel

```
9 \ExecuteOptionsBeamer{shadow=false}
10 \ProcessOptionsBeamer\relax
```

[*]This document corresponds to beamerinnerthemetubs ?, dated ?.

6.2 Titelgrafik und Logo

\tuDefaultTitlegraphic Lädt Standard-Titelgraphik

```
\newcommand{\tuDefaultTitlegraphic}{%
\includegraphics[width=\titlegraphicswidth]{defaulttitlepicture}}

%NOTE: beamer redefines includegraphics and drops the starred version... :/
\newcommand\tubs@imagefit{cropped}
\newcommand\@img@scale@param{}%
```

\tubs@calc@autoscale

```
\newcommand\tubs@calc@autoscale[1]{%
  \newdimen\@image@xorig%
  \newdimen\@image@xcalc%
  \newdimen\@image@yorig%
  \newdimen\@image@ycalc%
  \ifthenelse{\equal{\tubs@imagefit}{scaled}}{%
    \renewcommand\@img@scale@param{clip,%
        height=\titlegraphicsheight,
        width=\titlegraphicswidth}
  }{\ifthenelse{\equal{\tubs@imagefit}{cropped}}{%
      % Ermittelt, ob das Bild an den Seiten oder oben und unten beschnitten
      % werden muss, um in den Darstellungsbereich zu passen
      % Dazu wird die Höhe des auf korrekte Breite skalierten Bildes
      % mit der Höhe des Darstellungsbereichs verglichen und entsprechend
      % eine crop-Option gesetzt.
      \settoheight{\@image@ycalc}{%
        \includegraphics[clip,width=\titlegraphicswidth]{#1}}
      \ifthenelse{\lengthtest{\@image@ycalc>\titlegraphicsheight}}{%
        \renewcommand{\tubs@imagefit}{cropy}
      }{%
        \renewcommand{\tubs@imagefit}{cropx}
      }
    }{}
    \ifthenelse{\equal{\tubs@imagefit}{cropy}}{%
      % Berechne abzuschneidende Ränder (oben+unten)
      % Dazu wird die Differenz zwischen Darstellungsbereich und Höhe des
      % korrekt auf die Breite skalierten Bildes berechnet und mit dem
      % ermittelten Skalierungsfaktor multipliziert, sowie durch 2 geteilt.
      % Das Ergebnis wir dann einmal am oberen und einmal am unteren Teil
      % des (Original-)Bildes mit Hilfe der 'trim'-Option abgeschnitten.
      \settoheight{\@image@yorig}{%
        \includegraphics[clip]{#1}}%
      \settoheight{\@image@ycalc}{%
        \includegraphics[clip,width=\titlegraphicswidth]{#1}}%
      \setlength{\@image@ycalc}{(\@image@ycalc-\titlegraphicsheight)*\ratio{\@image@yorig}{\@im
      \setlength{\@image@ycalc}{0.5\@image@ycalc}%
      \renewcommand\@img@scale@param{clip,%
```

```
          width=\titlegraphicswidth,
          trim=0pt {\@image@ycalc} 0pt {\@image@ycalc}}%
    }{\ifthenelse{\equal{\tubs@imagefit}{cropx}}{%
      \settowidth{\@image@xorig}{%
        \includegraphics[clip]{#1}}%
      \settowidth{\@image@xcalc}{%
        \includegraphics[clip,height=\titlegraphicsheight]{#1}}%
      \setlength{\@image@xcalc}{(\@image@xcalc-(\titlegraphicswidth))*\ratio{\@image@xorig}{\@i
      \setlength{\@image@xcalc}{0.5\@image@xcalc}%
      \renewcommand\@img@scale@param{clip,%
          height=\titlegraphicsheight,
          trim={\@image@xcalc} 0pt {\@image@xcalc} 0pt}%
    }{\ifthenelse{\equal{\tubs@imagefit}{keepsize}}{%
      \renewcommand\@img@scale@param{}%
    }{}}}%
  }%
}
```

Imagefit-Keys

'scaled' Horizontal + vertikal Skalieren

```
\define@key{tubs@titlegraphic}{scaled}[true]{
  \renewcommand\tubs@imagefit{scaled}
}
```

'hclip' Skalieren auf Höhe, Zuschneiden auf Breite

```
\define@key{tubs@titlegraphic}{hclip}[true]{
  \renewcommand\tubs@imagefit{cropx}
}
\define@key{tubs@titlegraphic}{fitheight}[true]{
  \renewcommand\tubs@imagefit{cropx}
}
\define@key{tubs@titlegraphic}{clipx}[true]{% obsolete
  \renewcommand\tubs@imagefit{cropx}
}
\define@key{tubs@titlegraphic}{cropx}[true]{% obsolete
  \renewcommand\tubs@imagefit{cropx}
}
```

'vclip' Skalieren auf Breite, Zuschneiden auf Höhe

```
\define@key{tubs@titlegraphic}{vclip}[true]{
  \renewcommand\tubs@imagefit{cropy}
}
\define@key{tubs@titlegraphic}{fitwidth}[true]{
  \renewcommand\tubs@imagefit{cropy}
}
```

```
\define@key{tubs@titlegraphic}{clipy}[true]{% obsolete
  \renewcommand\tubs@imagefit{cropy}
}
\define@key{tubs@titlegraphic}{cropy}[true]{% obsolete
  \renewcommand\tubs@imagefit{cropy}
}
```

'clipped' Automatisches Skalieren und Zuschneiden

```
\define@key{tubs@titlegraphic}{clipped}[true]{
  \renewcommand\tubs@imagefit{cropped}
}
\define@key{tubs@titlegraphic}{cropped}[true]{
  \renewcommand\tubs@imagefit{cropped}
}
```

'keepsize'

```
\define@key{tubs@titlegraphic}{keepsize}[true]{
  \renewcommand\tubs@imagefit{keepsize}
}

\let\@orig@titlegpraphic\titlegraphic
\newsavebox{\@test@box}
```

\titlegpraphic Lädt Titelgraphik, definiert angepasste Version von \includegraphics

```
\renewcommand{\titlegraphic}[2][]{%
  \@orig@titlegpraphic{
    \setkeys{tubs@titlegraphic}{cropped,#1}%
    % redefine includegraphics to store information
    \newif\if@incgraphused\@incgraphusedfalse%
    \let\@orig@includegraphics\includegraphics%
    \renewcommand{\includegraphics}[2][\relax]{%
      \@incgraphusedtrue%
      \def\@incgraph@optparam{####1}%
      \def\@incgraph@param{####2}%
      \ifthenelse{\equal{\@incgraph@optparam}{\relax}}{%
        \let\@manipulated@includegraphics\includegraphics
        \let\includegraphics\@orig@includegraphics
        \tubs@calc@autoscale{\@incgraph@param}%
        \let\includegraphics\@manipulated@includegraphics
        \expandafter\@orig@includegraphics\expandafter[\@img@scale@param]{%
                \@incgraph@param}%
      }{%
        \expandafter\@orig@includegraphics\expandafter[\@incgraph@optparam]{%
                \@incgraph@param}%
      }
  }%
  #2}
}
```

\logo Höhe des Logos wird automatisch skaliert bei Verwendung von includegraphics

```
\renewcommand{\logo}[1]{%
  \setbeamertemplate{logo}{%
    \begingroup%
    \presetkeys{Gin}{height=\logoheight,width=3.5\logoheight,keepaspectratio}{}%
    #1%
    \endgroup%
  }%
}
```

6.3 Templates

```
\mode<presentation>% TODO: Hier ???
\setbeamertemplate{blocks}[rounded][shadow=\beamer@themerounded@shadow]
```

title page

```
%% Trick: To re-define a template from scratch, give it a new name as
%% second argument.
\defbeamertemplate*{title page}{tubs}[1][]{%
  \vspace*{-5.5pt} % korrigierte Nulllinie
  \vspace*{\beamer@CDsenderheight}
  \begin{beamercolorbox}[
      wd=\beamer@CDcommunicationwidth,
      ht=11\beamer@CDgaussunit]
      {titlebarfirst}
    \usebeamerfont{title}\centering\inserttitlegraphic%
  \end{beamercolorbox}%
  \vskip-1pt

  \begin{beamercolorbox}[wd=\beamer@CDcommunicationwidth,
      ht=9\beamer@CDgaussunit]
      {titlebarsecond}
    \hspace*{\beamer@leftmarginwidth}
    \parbox[b][9\beamer@CDgaussunit]{\beamer@titlepagetextwidth}{%
      \vskip0.5\beamer@CDborderwidth%
      \vfil%
      {\raggedright\usebeamerfont{title}\inserttitle\par}%
      \vfil%
      {\raggedright\usebeamerfont{subtitle}\insertsubtitle\par}%
      \vskip 0.5ex%
      \vfil%
      \raggedright%
      \usebeamerfont{author}\insertauthor%
      \ifx\insertauthor\@empty\else%
      \ifx\insertdate\@empty\else%
      , %
      \fi%
```

```
      \fi%
      \mbox{\insertdate}\par%
      \vfil%
      \usebeamerfont{institute}\insertinstitute%
      \vfil%
    }
  \end{beamercolorbox}%
  \vskip-1pt

  {\tiny
  \begin{beamercolorbox}[wd=\beamer@CDcommunicationwidth,
      ht=\beamer@CDgaussunit]
      {titlebarlow}
  \end{beamercolorbox}}%
  \vspace*{-24.1\beamer@CDgaussunit}

  \begin{beamercolorbox}[wd=\beamer@CDcommunicationwidth,
      ht=4\beamer@CDgaussunit]
      {structure}
    \hspace*{-\beamer@CDborderwidth}\tubslogoAbs{37mm}
  \end{beamercolorbox}
  \vspace*{-20mm}

  \begin{beamercolorbox}[
      wd=\beamer@CDcommunicationwidth,ht=4\beamer@CDgaussunit]
      {structure}
    \vbox to 4\beamer@CDgaussunit{%
    \vfill
    \parbox{\beamer@CDcommunicationwidth}{%
      \usebeamerfont{author}\raggedleft\insertlogo}
    \vfill}
  \end{beamercolorbox}
  \vspace*{22\beamer@CDgaussunit}
}
```

part page

```
\defbeamertemplate*{part page}{tubs}[1][]{%
  \begin{centering}
    {\usebeamerfont{part name}\usebeamercolor[fg]{part name}\partname~\insertromanpartnumber}
    \vskip1em\par
    \begin{beamercolorbox}[sep=8pt,center,#1]{part title}
      \usebeamerfont{part title}\insertpart\par
    \end{beamercolorbox}
  \end{centering}
}
```

narrowitemize Itemize environment with narrower lines

```
\newenvironment{narrowitemize}{%
  \begin{itemize}%
    \setlength{\itemsep}{0pt}%
}{%
  \end{itemize}%
}
```

emptyitemize Itemize environment with narrower lines and with no item signs

```
\newenvironment{emptyitemize}{%
  \setbeamertemplate{itemize item}{\ }
  \setbeamertemplate{itemize subitem}{\rule[0.17em]{0.25em}{0.25em}}
  \begin{itemize}%
    \setlength{\itemsep}{0pt}%
}{%
  \end{itemize}%
}

%  Squares for items
\defbeamertemplate*{itemize item}{tubs}{\rule[0.15em]{0.3em}{0.3em}}
\defbeamertemplate*{itemize subitem}{tubs}{\rule[0.17em]{0.25em}{0.25em}}
%  dash for subsubitems
\defbeamertemplate*{itemize subsubitem}{tubs}{\textbf{\textendash}}
\defbeamertemplate*{itemize subsubsubitem}{tubs}{\textperiodcentered}

\defbeamertemplate{section in toc}{tubs}{%
  \leavevmode\normalsize\raise-1.5pt\hbox{\rule[0.15em]{0.3em}{0.3em}}\kern1.25ex
  \inserttocsection\par
}

\defbeamertemplate{subsection in toc}{tubs}{%
  \leavevmode\leftskip=1.5em\hbox{\rule[0.17em]{0.25em}{0.25em}}%
  \kern1ex\inserttocsubsection\par
}

\defbeamertemplate{subsubsection in toc}{tubs}{%
  \leavevmode\normalsize\usebeamerfont{subsection in
    toc}\leftskip=3em\usebeamerfont{subsubsection in toc}%
  \hbox{\textasteriskcentered}%
  \kern0.75ex\inserttocsubsubsection\par
}

\setbeamertemplate{items}[tubs]
\setbeamertemplate{sections/subsections in toc}[tubs]

\setlength{\leftmargini}{1.3em}
\setlength{\leftmarginii}{1.3em}
\setlength{\leftmarginiii}{1.3em}
\setlength{\leftmarginiv}{1.3em}
```

Abbildungen werden standardmäßig durchnummeriert

```
\setbeamertemplate{caption}[numbered]

\mode<all>
⟨/innertheme⟩
```

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