



beamerinnerthemetubs – beamer-Farbschema für *tubslatex**

Enrico Jörns
e dot joerns at tu minus bs dot de

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Zusammenfassung

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

1 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{tubsbeamsizes}  
7 \RequirePackage{tubslogo}
```

1.1 Optionen

‘shadow’

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

Optionen behandeln

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

*This document corresponds to beamerinnerthemetubs ?, dated ?.

1.2 Titelgrafik und Logo

`\tuDefaultTitlegraphic` Lädt Standard-Titelgraphik

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

13 %NOTE: beamer redefines includegraphics and drops the starred version... :/
14 \newcommand\tubs@imagefit{cropped}
15 \newcommand\@img@scale@param{}
```

`\tubs@calc@autoscale`

```
16 \newcommand\tubs@calc@autoscale[1]{%
17   \newdimen\@image@xorig%
18   \newdimen\@image@xcalc%
19   \newdimen\@image@yorig%
20   \newdimen\@image@ycalc%
21   \ifthenelse{\equal{\tubs@imagefit}{scaled}}{%
22     \renewcommand\@img@scale@param{clip,%
23       height=\titlegraphicsheight,
24       width=\titlegraphicswidth}
25   }{\ifthenelse{\equal{\tubs@imagefit}{cropped}}{%
26     % Ermittelt, ob das Bild an den Seiten oder oben und unten beschnitten
27     % werden muss, um in den Darstellungsbereich zu passen
28     % Dazu wird die Höhe des auf korrekte Breite skalierten Bildes
29     % mit der Höhe des Darstellungsbereichs verglichen und entsprechend
30     % eine crop-Option gesetzt.
31     \settoheight{\@image@ycalc}{%
32       \includegraphics[clip,width=\titlegraphicswidth]{#1}}
33     \ifthenelse{\lengthtest{\@image@ycalc>\titlegraphicsheight}}{%
34       \renewcommand{\tubs@imagefit}{cropy}
35     }{%
36       \renewcommand{\tubs@imagefit}{cropx}
37     }
38   }}
39   \ifthenelse{\equal{\tubs@imagefit}{cropy}}{%
40     % Berechne abzuschneidende Ränder (oben+unten)
41     % Dazu wird die Differenz zwischen Darstellungsbereich und Höhe des
42     % korrekt auf die Breite skalierten Bildes berechnet und mit dem
43     % ermittelten Skalierungsfaktor multipliziert, sowie durch 2 geteilt.
44     % Das Ergebnis wird dann einmal am oberen und einmal am unteren Teil
45     % des (Original-)Bildes mit Hilfe der 'trim'-Option abgeschnitten.
46     \settoheight{\@image@yorig}{%
47       \includegraphics[clip]{#1}}%
48     \settoheight{\@image@ycalc}{%
49       \includegraphics[clip,width=\titlegraphicswidth]{#1}}%
50     \setlength{\@image@ycalc}{(\@image@ycalc-\titlegraphicsheight)*\ratio{\@image@yorig}{\@image@ycalc}}
51     \setlength{\@image@ycalc}{0.5\@image@ycalc}%
52     \renewcommand\@img@scale@param{clip,%
```

```

53         width=\titlegraphicswidth,
54         trim=0pt {\@image@ycalc} 0pt {\@image@ycalc}}%
55     }{\ifthenelse{\equal{\tubs@imagefit}{cropx}}{%
56         \settowidth{\@image@xorig}{%
57             \includegraphics[clip]{#1}}%
58         \settowidth{\@image@xcalc}{%
59             \includegraphics[clip,height=\titlegraphicsheight]{#1}}%
60         \setlength{\@image@xcalc}{(\@image@xcalc-(\titlegraphicswidth))*\ratio{\@image@xorig}{\@image@xcalc}}%
61         \setlength{\@image@xcalc}{0.5\@image@xcalc}%
62         \renewcommand\@img@scale@param{clip,%
63             height=\titlegraphicsheight,
64             trim={\@image@xcalc} 0pt {\@image@xcalc} 0pt}%
65     }{\ifthenelse{\equal{\tubs@imagefit}{keepsizes}}{%
66         \renewcommand\@img@scale@param{}%
67     }{}}}%
68 }%
69 }

```

Imagefit-Keys

‘scaled’ Horizontal + vertikal Skalieren

```

70 \define@key{tubs@titlegraphic}{scaled}[true]{
71     \renewcommand\tubs@imagefit{scaled}
72 }

```

‘hclip’ Skalieren auf Höhe, Zuschneiden auf Breite

```

73 \define@key{tubs@titlegraphic}{hclip}[true]{
74     \renewcommand\tubs@imagefit{cropx}
75 }
76 \define@key{tubs@titlegraphic}{fi theight}[true]{
77     \renewcommand\tubs@imagefit{cropx}
78 }
79 \define@key{tubs@titlegraphic}{clipx}[true]{% obsolete
80     \renewcommand\tubs@imagefit{cropx}
81 }
82 \define@key{tubs@titlegraphic}{cropx}[true]{% obsolete
83     \renewcommand\tubs@imagefit{cropx}
84 }

```

‘vclip’ Skalieren auf Breite, Zuschneiden auf Höhe

```

85 \define@key{tubs@titlegraphic}{vclip}[true]{
86     \renewcommand\tubs@imagefit{cropy}
87 }
88 \define@key{tubs@titlegraphic}{fitwidth}[true]{
89     \renewcommand\tubs@imagefit{cropy}
90 }

```

```

91 \define@key{tubs@titlegraphic}{clipy}[true]{% obsolete
92 \renewcommand\tubs@imagefit{cropy}
93 }
94 \define@key{tubs@titlegraphic}{cropy}[true]{% obsolete
95 \renewcommand\tubs@imagefit{cropy}
96 }

```

‘clipped’ Automatisches Skalieren und Zuschneiden

```

97 \define@key{tubs@titlegraphic}{clipped}[true]{
98 \renewcommand\tubs@imagefit{cropped}
99 }
100 \define@key{tubs@titlegraphic}{cropped}[true]{
101 \renewcommand\tubs@imagefit{cropped}
102 }

```

‘keepsizes’

```

103 \define@key{tubs@titlegraphic}{keepsizes}[true]{
104 \renewcommand\tubs@imagefit{keepsizes}
105 }

106 \let\@orig@titlegraphic\titlegraphic
107 \newsavebox{\@test@box}

```

\titlegraphic Lädt Titelgraphik, definiert angepasste Version von \includegraphics

```

108 \renewcommand{\titlegraphic}[2][{}]{%
109 \@orig@titlegraphic{
110 \setkeys{tubs@titlegraphic}{cropped,#1}%
111 % redefine includegraphics to store information
112 \newif@if@incgraphused\@incgraphusedfalse%
113 \let\@orig@includegraphics\includegraphics%
114 \renewcommand{\includegraphics}[2][\relax]{%
115 \@incgraphusedtrue%
116 \def\@incgraph@optparam{###1}%
117 \def\@incgraph@param{###2}%
118 \ifthenelse{\equal{\@incgraph@optparam}{\relax}}{%
119 \let\@manipulated@includegraphics\includegraphics
120 \let\includegraphics\@orig@includegraphics
121 \tubs@calc@autoscale{\@incgraph@param}%
122 \let\includegraphics\@manipulated@includegraphics
123 \expandafter\@orig@includegraphics\expandafter[\@img@scale@param]{%
124 \@incgraph@param}%
125 }{%
126 \expandafter\@orig@includegraphics\expandafter[\@incgraph@optparam]{%
127 \@incgraph@param}%
128 }
129 }%
130 #2}
131 }

```

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

```
132 \renewcommand{\logo}[1]{%
133   \setbeamertemplate{logo}{%
134     \begin{group}
135       \presetkeys{Gin}{height=\logoheight,width=3.5\logoheight,keepaspectratio}{}%
136       #1%
137     \end{group}%
138   }%
139 }
```

1.3 Templates

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

title page

```
142 %% Trick: To re-define a template from scratch, give it a new name as
143 %% second argument.
144 \defbeamertemplate*{title page}{tubs}[1][1]{%
145   \vspace*{-5.5pt} % korrigierte Nulllinie
146   \vspace*{\beamer@CDsenderheight}
147   \begin{beamercolorbox}[
148     wd=\beamer@CDcommunicationwidth,
149     ht=11\beamer@CDgaussunit]
150     {titlebarfirst}
151     \usebeamerfont{title}\centering\inserttitlegraphic%
152   \end{beamercolorbox}%
153   \vskip-1pt
154
155   \begin{beamercolorbox}[wd=\beamer@CDcommunicationwidth,
156     ht=9\beamer@CDgaussunit]
157     {titlebarsecond}
158     \hspace*{\beamer@leftmarginwidth}
159     \parbox[b][9\beamer@CDgaussunit]{\beamer@titlepagetextwidth}{%
160       \vskip0.5\beamer@CDborderwidth%
161       \vfil%
162       {\raggedright\usebeamerfont{title}\inserttitle\par}%
163       \vfil%
164       {\raggedright\usebeamerfont{subtitle}\insertsubtitle\par}%
165       \vskip 0.5ex%
166       \vfil%
167       \raggedright%
168       \usebeamerfont{author}\insertauthor%
169       \ifx\insertauthor\@empty\else%
170       \ifx\insertdate\@empty\else%
171         , %
172       \fi%
```

```

173     \fi%
174     \mbox{\insertdate}\par%
175     \vfil%
176     \usebeamerfont{institute}\insertinstitute%
177     \vfil%
178   }
179 \end{beamercolorbox}%
180 \vskip-1pt
181
182 {\tiny
183 \begin{beamercolorbox}[wd=\beamer@CDcommunicationwidth,
184   ht=\beamer@CDgaussunit]
185   {titlebarlow}
186 \end{beamercolorbox}}%
187 \vspace*{-24.1\beamer@CDgaussunit}
188
189 \begin{beamercolorbox}[wd=\beamer@CDcommunicationwidth,
190   ht=4\beamer@CDgaussunit]
191   {structure}
192   \hspace*{-\beamer@CDborderwidth}\tubslogoAbs{37mm}
193 \end{beamercolorbox}
194 \vspace*{-20mm}
195
196 \begin{beamercolorbox}[
197   wd=\beamer@CDcommunicationwidth,ht=4\beamer@CDgaussunit]
198   {structure}
199   \vbox to 4\beamer@CDgaussunit{%
200     \vfill
201     \parbox{\beamer@CDcommunicationwidth}{%
202       \usebeamerfont{author}\raggedleft\insertlogo}
203     \vfill}
204 \end{beamercolorbox}
205 \vspace*{22\beamer@CDgaussunit}
206 }

```

part page

```

207 \defbeamertemplate*{part page}{tubs}[1][]{%
208   \begin{centering}
209     {\usebeamerfont{part name}\usebeamercolor[fg]{part name}\partname~\insertromanpartnumber}
210     \vskip1em\par
211     \begin{beamercolorbox}[sep=8pt,center,#1]{part title}
212       \usebeamerfont{part title}\insertpart\par
213     \end{beamercolorbox}
214   \end{centering}
215 }

```

narrowitemize Itemize environment with narrower lines

```

216 \newenvironment{narrowitemize}{%
217   \begin{itemize}%
218     \setlength{\itemsep}{0pt}%
219 }{%
220   \end{itemize}%
221 }

```

emptyitemize Itemize environment with narrower lines and with no item signs

```

222 \newenvironment{emptyitemize}{%
223   \setbeamertemplate{itemize item}{\ }
224   \setbeamertemplate{itemize subitem}{\rule[0.17em]{0.25em}{0.25em}}
225   \begin{itemize}%
226     \setlength{\itemsep}{0pt}%
227 }{%
228   \end{itemize}%
229 }

230 % Squares for items
231 \defbeamertemplate*{itemize item}{tubs}{\rule[0.15em]{0.3em}{0.3em}}
232 \defbeamertemplate*{itemize subitem}{tubs}{\rule[0.17em]{0.25em}{0.25em}}
233 % dash for subsubitems
234 \defbeamertemplate*{itemize subsubitem}{tubs}{\textbf{\textendash}}
235 \defbeamertemplate*{itemize subsubsubitem}{tubs}{\textperiodcentered}

236 \defbeamertemplate{section in toc}{tubs}{%
237   \leavevmode\normalsize\raise-1.5pt\hbox{\rule[0.15em]{0.3em}{0.3em}}\kern1.25ex
238   \inserttocsection\par
239 }

240 \defbeamertemplate{subsection in toc}{tubs}{%
241   \leavevmode\leftskip=1.5em\hbox{\rule[0.17em]{0.25em}{0.25em}}%
242   \kern1ex\inserttocsubsection\par
243 }

244 \defbeamertemplate{subsubsection in toc}{tubs}{%
245   \leavevmode\normalsize\usebeamerfont{subsection in
246     toc}\leftskip=3em\usebeamerfont{subsubsection in toc}%
247   \hbox{\textasteriskcentered}%
248   \kern0.75ex\inserttocsubsubsection\par
249 }

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

252 \setlength{\leftmargini}{1.3em}
253 \setlength{\leftmarginii}{1.3em}
254 \setlength{\leftmarginiii}{1.3em}
255 \setlength{\leftmarginiv}{1.3em}

```

Abbildungen werden standardmäßig durchnummeriert

```
256 \setbeamertemplate{caption}[numbered]
```

```
257 \mode<all>
```

```
258 \innertheme
```