

A beamer theme for the typesetting of presentations at the Masaryk University, Brno

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May 16, 2020

Abstract

This document details the design and the implementation of the mubeamer theme for the beamer $\LaTeX 2_{\epsilon}$ class [1]. The theme is intended to be used across the Masaryk University in Brno and is loosely based on a theme developed by Aleš Křenek for the Institute of Computer Science at the Masaryk University in Brno¹. Included is technical documentation for anyone who wishes to modify the class as well as information on the basic usage for the ordinary user.

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{beamerthemeMU}[2020/05/16]
3 \mode<presentation>
```

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¹The original beamer theme developed by Aleš Křenek is available internally at <https://sablony.muni.cz/pracoviste/nefakultni-pracoviste/uvt/ostatni/tex-prezentace/tex-prezentace>.

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1 Requirements

1.1 Required T_EX Engine

Mubeamer should work out-of-box with all conventional T_EX engines (T_EX, ε -T_EX, pdfT_EX, LuaT_EX, XeT_EX) in PDF mode.

1.2 Required Packages

Mubeamer requires the etoolbox package to patch the `\includegraphics` command in section 4.

```
4 \RequirePackage{etoolbox}
```

Optional packages include font packages as documented in section 3.2.

2 Basic Usage

To use mubeamer, specify `\usetheme[options]{MU}` in the preamble of your beamer document; the available *options* are documented in section 3. Inside your document, you can use the standard markup provided by the L^AT_EX beamer class [1]. To get started quickly, inspect the example files distributed alongside mubeamer.

3 Package Options

3.1 Defining the Options

<code>\mubeamer@option@locale</code>	<p>The <code>locale=⟨language name⟩</code> specifies the language that will determine which logos and labels are displayed. <i>When the locale option is unspecified, the main language of the babel and polyglossia packages is used. If neither package is available, locale=english is used.</i></p> <pre> 5 \DeclareOptionBeamer{locale}{\def\mubeamer@option@locale{#1}} 6 \ExecuteOptionsBeamer{locale=% 7 \ifundefined{language#1}{english}{\language#1}} </pre>
<code>\mubeamer@option@workplace</code>	<p>The <code>workplace=⟨work place⟩</code> specifies the work place whose logos and labels that will be displayed. The <i>⟨work place⟩</i>s recognized at the Masaryk University in Brno are outlined in table 1. <i>When the workplace option is unspecified, workplace=mu is used.</i></p> <pre> 8 \DeclareOptionBeamer{workplace}{\def\mubeamer@option@workplace{#1}} 9 \ExecuteOptionsBeamer{workplace=mu} </pre>
<code>\ifmubeamer@option@fonts</code> <code>\ifmubeamer@option@scaling</code>	<p>The <code>fonts=⟨regime⟩</code> option specifies how mubeamer sets up the default font families. The following <i>⟨regime⟩</i>s are recognized:</p> <ul style="list-style-type: none"> • <code>fonts=none</code> will make no changes to the currently set up font families. • <code>fonts=basic</code> will make the PT Sans and PT Mono font families [2] the default sans-serif and monospace font families. • <code>fonts=scaled</code> is the default option when the fonts option is unspecified. Like <code>fonts=basic</code>, the scaled <i>⟨regime⟩</i> will make PT Sans and PT Mono the default sans-serif and monospace font families. On top of that, the PT Sans Caption font family will become the default sans-serif family at small font sizes to improve readability; the mechanism is documented in section 3.2. <pre> 10 \newif\ifmubeamer@option@fonts 11 \newif\ifmubeamer@option@scaling 12 \def\mubeamer@temp@option@fonts@none{none} 13 \def\mubeamer@temp@option@fonts@basic{basic} 14 \def\mubeamer@temp@option@fonts@scaled{scaled} 15 \DeclareOptionBeamer{fonts}{% 16 \def\mubeamer@temp@option@arg{#1}% 17 \ifx\mubeamer@temp@option@arg\mubeamer@temp@option@fonts@none 18 \mubeamer@option@fontsfalse 19 \mubeamer@option@scalingfalse 20 \else 21 \ifx\mubeamer@temp@option@arg\mubeamer@temp@option@fonts@basic 22 \mubeamer@option@fontstrue 23 \mubeamer@option@scalingfalse 24 \else 25 \ifx\mubeamer@temp@option@arg\mubeamer@temp@option@fonts@scaled </pre>

Work place	<i>⟨work place⟩</i>
University Archives	arch
Czech CyberCrime Centre of Excellence C4e	c4e
Central European Institute of Technology	ceitec
Cerit	cerit
Technology Transfer Office	ctt
Centre for International Cooperation	czs
Faculty of Economics and Administration	econ
Faculty of Informatics	fi
Faculty of Sports Studies	fsps
Faculty of Social Studies	fss
Institute for Biostatistics and Analyses	iba
Institute of Computer Science	ics
Information System of Masaryk University	is
Career Centre	kariera
Language Centre	lang
Faculty of Law	law
Faculty of Medicine	med
Masaryk University	mu
Mendel Museum	muzeu
Faculty of Education	ped
Faculty of Arts	phil
Masaryk University Press	press
Central Management Structure of the Ceitec Project	ptceitec
Rector's Office	rect-office
Rector	rect
Faculty of Science	sci
Accommodation and Catering Services	skm
Support Centre for Students with Special Needs	teiresias
Management of the University Campus at Bohunice	ucb
University Center Telč	uct

Table 1: The work places recognized at the Masaryk University in Brno

```

26      \mubeamer@option@fontstrue
27      \mubeamer@option@scalingtrue
28    \else
29      \PackageError{beamerthemeMU}%
30        {fonts=#1 is not a valid option}%
31        {fonts={none|basic|scaled} are the only valid options}%
32    \fi
33  \fi
34 \fi
35 }
36 \ExecuteOptionsBeamer{fonts=scaled}

```

`\ifmubeamer@option@gray` The gray option makes all logos and labels gray, whereas the color option makes them colored. *The color option is the default when neither option is specified.*

```

37 \newif\ifmubeamer@option@gray
38 \DeclareOptionBeamer{gray}{\mubeamer@option@graytrue}
39 \DeclareOptionBeamer{color}{\mubeamer@option@grayfalse}
40 \ExecuteOptionsBeamer{color}

```

3.2 Processing the Options

```
41 \ProcessOptionsBeamer
```

If the `fonts=basic` or the `fonts=scaled` option is specified, we load the `PTSans` and `PTMono` packages. This will make the PT Sans and PT Mono font families the default sans-serif and monospace font families. Since the packages do not handle font selection for \LaTeX and \LuaTeX , we load the fonts manually in these \TeX engines using commands from the `fontspec` package, which we assume the user has already loaded themselves.

`\ifmubeamer@scaling@enabled` If the `fonts=scaled` option is specified, we will load the `PTSansCaption` package and we patch the \LaTeX font size commands, so that switching to `\scriptsize` and below will:

```

\mubeamer@scaling@family@basic
\mubeamer@scaling@family@caption
\mubeamer@scaling@apply

```

- change the default sans-serif family to PT Sans Caption if PT Sans is the current default sans-serif family, and
- change the current font family to PT Sans Caption if PT Sans is the current font family.

Switching to `\small` and above will do the reverse.

```

42 \ifmubeamer@option@scaling
43   \RequirePackage{PTSansCaption}
44   \@ifpackageloaded{fontspec}{
45     \begingroup
46       \newfontfamily\mubeamer@temp@fontname
47       [NFSSFamily=PTSansCaption-TLF]{PT Sans Caption}
48     \endgroup
49   }{}
50 \fi

```

```

51 \ifmubeamer@option@fonts
52 \RequirePackage{PTSans}
53 \RequirePackage{PTMono}
54 \@ifpackageloaded{fontspec}{
55   \begingroup
56   \newfontfamily\mubeamer@temp@fontname
57     [NFSSFamily=PTSans-TLF]{PT Sans}
58   \endgroup
59   \begingroup
60   \newfontfamily\mubeamer@temp@fontname
61     [NFSSFamily=PTMono-TLF]{PT Mono}
62   \endgroup
63 }{}
64 \fi
65 \newif\ifmubeamer@scaling@enabled
66 \ifmubeamer@option@scaling
67 \def\mubeamer@scaling@family@basic{PTSans-TLF}
68 \def\mubeamer@scaling@family@caption{PTSansCaption-TLF}
69 \mubeamer@scaling@enabledtrue
70 \def\mubeamer@scaling@apply #1 (#2 -> #3){%
71   \expandafter\let\expandafter\mubeamer@temp@fontsize
72     \csname #1\endcsname
73   \expandafter\let\csname mubeamer@original@#1\endcsname
74     \mubeamer@temp@fontsize
75   \expandafter\def\csname #1\endcsname{%
76     \ifmubeamer@scaling@enabled
77       \expandafter\ifx\csname mubeamer@scaling@family@#2\endcsname
78         \sfbasic\expandafter\let\expandafter\sfddefault
79         \csname mubeamer@scaling@family@#3\endcsname
80       \fi
81       \expandafter\ifx\csname mubeamer@scaling@family@#2\endcsname
82         \f@family\expandafter\fontfamily
83         \csname mubeamer@scaling@family@#3\endcsname\selectfont
84       \fi
85     \fi
86     \csname mubeamer@original@#1\endcsname}}
87 \mubeamer@scaling@apply Huge      (caption -> basic)
88 \mubeamer@scaling@apply huge      (caption -> basic)
89 \mubeamer@scaling@apply LARGE      (caption -> basic)
90 \mubeamer@scaling@apply Large      (caption -> basic)
91 \mubeamer@scaling@apply large      (caption -> basic)
92 \mubeamer@scaling@apply normalsize (caption -> basic)
93 \mubeamer@scaling@apply small      (caption -> basic)
94 \mubeamer@scaling@apply footnotesize (basic -> caption)
95 \mubeamer@scaling@apply scriptsize (basic -> caption)
96 \mubeamer@scaling@apply tiny       (basic -> caption)
97 \fi

```

Table 2 shows how switching to PT Sans Caption at small font sizes improves readability.

	Without optical scaling	With optical scaling
<code>\Huge</code>	PTSans-TLF	PTSans-TLF
<code>\huge</code>	PTSans-TLF	PTSans-TLF
<code>\LARGE</code>	PTSans-TLF	PTSans-TLF
<code>\Large</code>	PTSans-TLF	PTSans-TLF
<code>\large</code>	PTSans-TLF	PTSans-TLF
<code>\normalsize</code>	PTSans-TLF	PTSans-TLF
<code>\small</code>	PTSans-TLF	PTSans-TLF
<code>\footnotesize</code>	PTSans-TLF	PTSansCaption-TLF
<code>\scriptsize</code>	PTSans-TLF	PTSansCaption-TLF
<code>\tiny</code>	PTSans-TLF	PTSansCaption-TLF

Table 2: The impact of optical scaling on the readability of small text

`\mubeamer@option@locale@logo` `\mubeamer@option@locale@{logo,label}` specify separately the locale for logos and for labels. Both commands inherit the value of `\mubeamer@option@locale`.

```

98 \def\mubeamer@option@locale@logo {\mubeamer@option@locale}
99 \def\mubeamer@option@locale@label{\mubeamer@option@locale}

```

4 Filenames and Pathnames

`\mubeamer@pathname@base` `\mubeamer@pathname@base` is the pathname of the base directory containing logos and labels, either directly or in subdirectories.

```

100 \def\mubeamer@pathname@base{\mubeamer/}

```

4.1 Logos and Labels

`\mubeamer@pathname@logo` `\mubeamer@pathname@{logo,label}` is the pathname of the base directory directly containing logo and label files.

```

101 \def\mubeamer@pathname@logo {\mubeamer@pathname@base logo/}
102 \def\mubeamer@pathname@label{\mubeamer@pathname@base label/}

```

`\mubeamer@filename@logo` `\mubeamer@filename@logo` is the filename of the logo that will be displayed at the top of the title page.

```

103 \def\mubeamer@filename@logo{%
104   \mubeamer@pathname@logo mubeamer-\mubeamer@option@workplace-%
105   \mubeamer@option@locale@logo
106   \ifmubeamer@option@gray\else
107     -color%
108   \fi}

```

`\mubeamer@filename@logo@fallback` `\mubeamer@filename@logo@fallback` is the filename of the logo that will be displayed at the top of the title page if `\mubeamer@filename@logo` is not found.

```

109 \def\mubeamer@filename@logo@fallback{%
110   \mubeamer@pathname@logo mubeamer-\mubeamer@option@workplace-english%
111   \ifmubeamer@option@gray\else
112     -color%
113   \fi}

mubeamer@filename@logo@lastresort \mubeamer@filename@logo@lastresort is the filename of the logo that will be
displayed at the top of the title page if both \mubeamer@filename@logo and
\mubeamer@filename@logo@fallback are not found.
114 \def\mubeamer@filename@logo@lastresort{%
115   \mubeamer@pathname@logo mubeamer-mu-english%
116   \ifmubeamer@option@gray\else
117     -color%
118   \fi}

\mubeamer@filename@label \mubeamer@filename@label is the filename of the label that will be displayed on
the last page.
119 \def\mubeamer@filename@label{%
120   \mubeamer@pathname@label mubeamer-\mubeamer@option@workplace-%
121   \mubeamer@option@locale@label
122   \ifmubeamer@option@gray\else
123     -color%
124   \fi}

mubeamer@filename@label@fallback \mubeamer@filename@label@fallback is the filename of the label that will be dis-
played on the last page.
125 \def\mubeamer@filename@label@fallback{%
126   \mubeamer@pathname@label mubeamer-\mubeamer@option@workplace-english%
127   \ifmubeamer@option@gray\else
128     -color%
129   \fi}

mubeamer@filename@label@lastresort \mubeamer@filename@label@lastresort is the filename of the label that will be
displayed on the last page if both \mubeamer@filename@label and \mubeamer@filename@label@fallback
are not found.
130 \def\mubeamer@filename@label@lastresort{%
131   \mubeamer@pathname@label mubeamer-mu-%
132   \mubeamer@option@locale@label
133   \ifmubeamer@option@gray\else
134     -color%
135   \fi}

mubeamer@subroutine@includegraphics \mubeamer@subroutine@includegraphics[\includegraphics options]{<primary
file name>}{<secondary file name>}{<tertiary file name>} attempts to display the graph-
ics file <primary file name>. If <primary file name> is not found, <secondary file name> is
tried instead. If <secondary file name> is not found either, and <tertiary file name> is
non-empty, then <tertiary file name> is tried.
136 \newcount\mubeamer@temp@recursion

```



```

137 \newcommand*\mubeamer@subroutine@includegraphics[4][]{%
138   \begingroup
139   \mubeamer@temp@recursion=0
140   \patchcmd{\Gin@ii}{\Gin@esetsize}{%
141     \renewcommand{\@latex@error}[2]{%
142       \ifnum\mubeamer@temp@recursion<2
143         \advance\mubeamer@temp@recursion by 1
144         \ifnum\mubeamer@temp@recursion=1
145           \includegraphics[#1]{#3}
146         \else
147           \if\empty#4\empty
148             \PackageError{beamerthemeMU}%
149               {none of the following graphics files was found: #2, #3}%
150               {check that the mubeamer package has been correctly
151                 installed\MessageBreak and that you specified an existing
152                 workplace}%
153           \else
154             \includegraphics[#1]{#4}
155           \fi
156         \fi
157       \else
158         \PackageError{beamerthemeMU}%
159           {none of the following graphics files was found: #2, #3, #4}%
160           {check that the mubeamer package has been correctly
161             installed\MessageBreak and that you specified an existing
162             workplace}%
163       \fi}%
164   \Gin@esetsize}{\}%
165   \PackageError{beamerthemeMU}%
166     {unable to patch the includegraphics command}%
167     {contact the maintainer of the package}}%
168   \includegraphics[#1]{#2}%
169   \endgroup}

```

4.2 Patch Files

`\mubeamer@pathname@patch` `\mubeamer@pathname@patch` is the pathname of the base directory containing patch files.

```
170 \def\mubeamer@pathname@patch{\mubeamer@pathname@base patch/}
```

`\mubeamer@filename@patch` `\mubeamer@filename@patch` is the filename of the patch file that will be applied at the end of this style file.

```

171 \def\mubeamer@filename@patch{%
172   \mubeamer@pathname@patch mubeamer-\mubeamer@option@workplace}

```

5 Layout and Design

5.1 Lengths

5.1.1 Spacing

`\mubeamer@length@margin` `\mubeamer@length@margin` is the horizontal margin across all frames and the bottom margin of the title page.

```
173 \newlength\mubeamer@length@margin
174 \mubeamer@length@margin=0.7cm
```

`\mubeamer@length@footlinebottompadding` `\mubeamer@length@footlinebottompadding` is the bottom padding of the footline.

```
175 \newlength\mubeamer@length@footlinebottompadding
176 \mubeamer@length@footlinebottompadding=.163cm
```

`\mubeamer@length@footlineheight` `\mubeamer@length@footlineheight` is the total height of the footline.

```
177 \newlength\mubeamer@length@footlineheight
178 \mubeamer@length@footlineheight=.4cm
```

5.1.2 Label and Logo Size

`\mubeamer@length@logoheight` `\mubeamer@length@logoheight` specifies the height of the logo displayed at the top of the title page.

```
179 \newlength\mubeamer@length@logoheight
180 \mubeamer@length@logoheight=1.4cm
```

5.2 Colors

The following colors are specified in the `RGB` color space assuming the `sRGB` IEC61966 v2.1 color profile with black scaling. The colors are taken directly from the design manual of the Masaryk University in Brno [3, 4].

5.2.1 Basic Palette

The basic palette is defined in [3, section 2.01, 4]. It consists of a base color, seven shades of gray as the neutral colors, and two hues of orange as the accent colors.

```
181 \definecolor{mubeamer@base}{RGB}{0,0,220}
182 \definecolor{mubeamer@gray1}{RGB}{240,240,240}
183 \definecolor{mubeamer@gray2}{RGB}{225,225,225}
184 \definecolor{mubeamer@gray3}{RGB}{210,210,210}
185 \definecolor{mubeamer@gray4}{RGB}{190,190,190}
186 \definecolor{mubeamer@gray5}{RGB}{170,170,170}
187 \definecolor{mubeamer@gray6}{RGB}{150,150,150}
188 \definecolor{mubeamer@gray7}{RGB}{130,130,130}
189 \definecolor{mubeamer@orange1}{RGB}{245,165,0}
190 \definecolor{mubeamer@orange2}{RGB}{240,140,0}
```

5.2.2 Faculty Colors

The faculty colors are defined in [3, section 2.03, 4].

```
191 \definecolor{mubeamer@law}{RGB}{145,0,220}
192 \definecolor{mubeamer@med}{RGB}{240,25,40}
193 \definecolor{mubeamer@sci}{RGB}{0,175,63}
194 \definecolor{mubeamer@phil}{RGB}{75,200,255}
195 \definecolor{mubeamer@ped}{RGB}{255,115,0}
196 \definecolor{mubeamer@econ}{RGB}{185,0,110}
197 \definecolor{mubeamer@fi}{RGB}{242,212,92}
198 \definecolor{mubeamer@fss}{RGB}{0,122,83}
199 \definecolor{mubeamer@fsps}{RGB}{90,200,175}
```

5.2.3 Label Background Color

The background color of the label that will be displayed on the last page.

```
200 \ifmubeamer@option@gray
201   \definecolor{mubeamer@label}{RGB}{255,255,255}
202 \else
203   \colorlet {mubeamer@label}{mubeamer@base}
204 \fi
```

5.3 Beamer Settings

5.3.1 Themes

The infolines outer theme displays the current section and subsection at the top of all frames.

```
205 \useoutertheme{infolines}
```

5.3.2 Dimensions

```
206 \setbeamersize{%
207   text margin left=\mubeamer@length@margin,
208   text margin right=\mubeamer@length@margin}
```

5.3.3 Templates

```
209 \setbeamertemplate{frametitle}{%
210   \vtop{%
211     \usebeamerfont{frametitle}{\insertframetitle}%
212     \ifx\insertframesubtitle\empty\else\
213       \usebeamerfont{framesubtitle}{\insertframesubtitle}
214     \fi}
215   \vfill}}
```

No navigation symbols are displayed at the bottom of frames.

```
216 \setbeamertemplate{navigation symbols}{}%
```

The footline displays the author, the title, the date, and the page numbers at the bottom of all frames.

```

217 \setbeamertemplate{footline}{%
218   \hskip\mubeamer@length@margin
219   \usebeamerfont[fg]{author in head/foot}%
220   \usebeamerfont{author in head/foot}\insertshortauthor
221   \usebeamerfont[fg]{structure}%
222   \usebeamerfont{structure}\ \lower2pt\hbox{\Large$\cdot$}\
223   \usebeamerfont[fg]{title in head/foot}%
224   \usebeamerfont{title in head/foot}\insertshorttitle
225   \usebeamerfont[fg]{structure}%
226   \usebeamerfont{structure}\ \lower2pt\hbox{\Large$\cdot$}\
227   \usebeamerfont[fg]{date in head/foot}%
228   \usebeamerfont{date in head/foot}\insertshortdate\hfill
229   \usebeamerfont[fg]{page number in head/foot}%
230   \usebeamerfont{author in head/foot}\insertframenumber\ /
231   \inserttotalframenumber
232   \hskip\mubeamer@length@margin
233   \vrule width 0pt height \mubeamer@length@footlineheight
234   depth \mubeamer@length@footlinebottompadding}

```

The title page forces bottom vertical alignment as if [b] were specified. This is to make sure that people don't end up with wonky-looking title pages by mistake.

```

235 \setbeamertemplate{title page}{%
236   \vskip\mubeamer@length@margin
237   \mubeamer@subroutine@includegraphics%
238   [height=\mubeamer@length@logoheight]%
239   {\mubeamer@filename@logo}%
240   {\mubeamer@filename@logo@fallback}%
241   {\mubeamer@filename@logo@lastresort}%
242   \vskip0pt plus 6filll
243   {\usebeamerfont{title}\usebeamerfont[fg]{title}\inserttitle\par}%
244   \vskip0pt plus 1filll
245
246   {\usebeamerfont{subtitle}\usebeamerfont[fg]{subtitle}\insertsubtitle}%
247   \vskip0pt plus 4filll
248
249   {\usebeamerfont{author} \insertauthor}%
250   \vskip0pt plus 1filll
251
252   {\usebeamerfont{institute}\usebeamerfont[fg]{institute}\insertinstitute}%
253   \vskip0pt plus 1filll
254
255   {\usebeamerfont{date} \insertdate}%
256   \vskip\mubeamer@length@margin}

```

Bibliography entries are preceded with the reference text (like “[Dijkstra, 1982]”).

```

257 \setbeamertemplate{bibliography item}[text]

```

Bullet list entries are preceded with squares.

```

258 \setbeamertemplate{itemize items}[square]

```

Blocks are round, and cast a shadow.

```

259 \setbeamertemplate{blocks}[rounded][shadow=true]

```

\mubeamer@lastpage The label will be displayed on the last page.

```
260 \def\mubeamer@lastpage{%
261   \begin{group}
262   \setbeamercolor{background canvas}{bg=mubeamer@label}
263   \begin{frame}[plain]
264     \vfill
265     \centering
266     \mubeamer@subroutine@includegraphics%
267       [width=\textwidth]%
268       {\mubeamer@filename@label}%
269       {\mubeamer@filename@label@fallback}%
270       {\mubeamer@filename@label@lastresort}%
271     \vfill
272   \end{frame}
273   \end{group}
274 \AtEndDocument{\mubeamer@lastpage}
```

5.3.4 Fonts and Colors

```
275 \setbeamerfont{structure}{series=\mdseries}
276 \setbeamercolor{structure}{fg=mubeamer@base}
277
278 \setbeamerfont{alerted text}{series=\bfseries}
279 \setbeamercolor{alerted text}{fg=mubeamer@orange2}
280
281 \setbeamerfont{title}{size=\huge,series=\bfseries}
282 \setbeamercolor{title}{fg=mubeamer@base}
283 \setbeamerfont{title in head/foot}{size=\tiny,series=\bfseries}
284 \setbeamercolor{title in head/foot}{parent=structure}
285
286 \setbeamerfont{subtitle}{size=\large,series=\mdseries}
287 \setbeamercolor{subtitle}{fg=black}
288
289 \setbeamerfont{author}{series=\bfseries,size=\small}
290 \setbeamerfont{author in head/foot}{size=\tiny,series=\mdseries}
291 \setbeamercolor{author in head/foot}{parent=structure}
292
293 \setbeamerfont{page number}{series=\footnotesize}
294 \setbeamerfont{page number in head/foot}{size=\tiny,series=\mdseries}
295 \setbeamercolor{page number in head/foot}{parent=structure}
296
297 \setbeamerfont{date}{size=\footnotesize}
298 \setbeamerfont{date in head/foot}{size=\tiny,series=\mdseries}
299 \setbeamercolor{date in head/foot}{parent=structure}
300
301 \setbeamerfont{frametitle}{series=\bfseries,size=\Large}
302 \setbeamercolor{frametitle}{parent=title}
303
304 \setbeamerfont{framesubtitle}{series=\bfseries,size=\large}
```

```

305 \setbeamercolor{framesubtitle}{parent=subtitle}
306
307 \setbeamerfont{section in head/foot}{series=\bfseries}
308
309 \setbeamercolor{bibliography entry author}{%
310   use=normal text,fg=normal text.fg}
311 \setbeamercolor{bibliography entry title}{%
312   use=normal text,fg=normal text.fg}
313 \setbeamercolor{bibliography entry location}{%
314   use=normal text,fg=normal text.fg}
315 \setbeamercolor{bibliography entry note}{%
316   use=normal text,fg=normal text.fg}
317
318 \setbeamerfont{footnote}{size=\footnotesize}
319 \setbeamercolor{footnote mark}{parent=structure}
320
321 \setbeamerfont{section in head/foot}{parent=structure}
322 \setbeamercolor{section in head/foot}{parent=structure}
323
324 \setbeamerfont{subsection in head/foot}{parent=normal text}
325 \setbeamercolor{subsection in head/foot}{parent=structure}
326
327 \setbeamercolor{block title}{fg=white,bg=mubeamer@base}
328 \setbeamercolor{block title example}{%
329   use=alerted text,fg=white,bg=mubeamer@gray7}
330 \setbeamercolor{block title alerted}{%
331   use=alerted text,fg=white,bg=mubeamer@orange1}
332
333 \setbeamercolor{block body}{%
334   parent=normal text,use=block title,
335   bg=block title.bg!10!bg}
336 \setbeamercolor{block body example}{%
337   parent=normal text,bg=mubeamer@gray1}
338 \setbeamercolor{block body alerted}{%
339   parent=normal text,use=block title alerted,
340   bg=block title alerted.bg!10!bg}

```

6 Applying Patch Files

A work place-specific patch file is applied if it exists.

```

341 \IfFileExists{\mubeamer@filename@patch.sty}{%
342   \RequirePackage{\mubeamer@filename@patch}}{}
343 \mode
344 <all>

```

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