

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

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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}[2022/08/09]
3 \mode<presentation>
```

Contents

1	Requirements	2
1.1	Required \TeX Engine	2
1.2	Required Packages	2
2	Basic Usage	2
3	Package Options	2
3.1	Defining the Options	2
3.2	Processing the Options	5
4	Filenames and Pathnames	6
4.1	Logos and Labels	7
4.2	Patch Files	9
5	Layout and Design	9
5.1	Lengths	9
5.1.1	Spacing	9
5.1.2	Label and Logo Size	9
5.2	Colors	9
5.2.1	Basic Palette	9
5.2.2	Faculty Colors	10

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

5.2.3	Label Background Color	10
5.3	Beamer Settings	10
5.3.1	Themes	10
5.3.2	Dimensions	10
5.3.3	Templates	10
5.3.4	Fonts and Colors	12
6	Applying Patch Files	13

List of Tables

1	The work places recognized at the Masaryk University in Brno	4
2	The impact of optical scaling on the readability of small text	6

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

`\mubeamer@option@locale` The `locale=⟨language name⟩` specifies the language that will determine which logos and labels are displayed. *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.*

```
5 \DeclareOptionBeamer{locale}{\def\mubeamer@option@locale{#1}}
6 \ExecuteOptionsBeamer{locale={%
7   \@ifundefined{language}{english}{\language}}}
```

`\mubeamer@option@workplace` The `workplace=⟨work place⟩` specifies the work place whose logos and labels that will be displayed. The `⟨work place⟩`s recognized at the Masaryk University in Brno are outlined in table 1. When the `workplace` option is unspecified, `workplace=mu` is used.

```
8 \DeclareOptionBeamer{workplace}{\def\mubeamer@option@workplace{#1}}
9 \ExecuteOptionsBeamer{workplace=mu}
```

`\ifmubeamer@option@fonts` The `fonts=⟨regime⟩` option specifies how mubeamer sets up the default font families. The following `⟨regime⟩`s are recognized:

- `fonts=none` will make no changes to the currently set up font families.
- `fonts=basic` will make the PT Sans and PT Mono font families [2] the default sans-serif and monospace font families.
- `fonts=scaled` is the default option when the `fonts` option is unspecified. Like `fonts=basic`, the scaled `⟨regime⟩` 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.

```
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
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}
```

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

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

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@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{%

```

	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

```

76 \ifmubeamer@scaling@enabled
77 \expandafter\ifx\csname mubeamer@scaling@family@#2\endcsname
78 \sfbasic\expandafter\let\expandafter\sfdefault
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.

`\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 displayed 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}
```

amer@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}

```

mer@subroutine@includegraphics \mubeamer@subroutine@includegraphics[*\includegraphics options*]{*<primary file name>*}{*<secondary file name>*}{*<tertiary file name>*} attempts to display the graphics 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 \setbeamerfont{frame}
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{author in head/foot}%
220   \usebeamerfont{author in head/foot}\insertshortauthor
221   \usebeamerfont{structure}%
222   \usebeamerfont{structure}\ \lower2pt\hbox{\Large$\cdot$}\
223   \usebeamerfont{title in head/foot}%
224   \usebeamerfont{title in head/foot}\insertshorttitle
225   \usebeamerfont{structure}%
226   \usebeamerfont{structure}\ \lower2pt\hbox{\Large$\cdot$}\
227   \usebeamerfont{date in head/foot}%
228   \usebeamerfont{date in head/foot}\insertshortdate\hfill
229   \usebeamerfont{page number in head/foot}%
230   \usebeamerfont{author in head/foot}\insertframenum\ /
231   \inserttotalframenum
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{title}\inserttitle\par}%
244   \vskip0pt plus 1filll
245
246   {\usebeamerfont{subtitle}\usebeamerfont{subtitle}\insertsubtitle}%
247   \vskip0pt plus 4filll
248
249   {\usebeamerfont{author} \insertauthor}%
250   \vskip0pt plus 1filll
251
252   {\usebeamerfont{institute}\usebeamerfont{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   \begingroup
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 \endgroup}
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>

```

References

1. TANTAU, Till; WRIGHT, Joseph; MILETIĆ, Vedran. *The beamer class: User Guide for version 3.42* [online]. 2017. [visited on 2017-08-25]. Available from: <http://mirrors.ctan.org/macros/latex/contrib/beamer/doc/beameruserguide.pdf>.
2. FARÁŘ, Pavel. *Support package for free fonts by ParaType* [online]. 2014. [visited on 2017-08-25]. Available from: <http://mirrors.ctan.org/fonts/paratype/doc/paratype.pdf>.
3. JÍLEK, Pavel. *Manuál01: Designmanuál jednotného vizuálního stylu* [online]. 2005. [visited on 2018-12-17]. Available from: https://sablony.muni.cz/media/24132/design_manual_2005_platne_kapitoly.pdf.

4. KUDELA, Tomáš. *MUNI Designmanuál: Jednotný vizuální styl MUNI* [online]. 2018. [visited on 2018-12-17]. Available from: <https://muni.brandcloud.pro>.

Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

Symbols	
<code>\@empty</code>	212
<code>\@ifpackageloaded</code>	44, 54
<code>\@ifundefined</code>	7
<code>\@latex@error</code>	141
<code>\@</code>	212
<code>_</code>	222, 226, 230
A	
<code>\advance</code>	143
<code>\AtEndDocument</code>	274
B	
<code>\begin</code>	263
<code>\begingroup</code>	45, 55, 59, 138, 261
<code>\bfseries</code>	278, 281, 283, 289, 301, 304, 307
C	
<code>\cdot</code>	222, 226
<code>\centering</code>	265
<code>\colorlet</code>	203
<code>\csname</code>	72, 73, 75, 77, 79, 81, 83, 86
D	
<code>\DeclareOptionBeamer</code> ...	5, 8, 15, 38, 39
<code>\def</code>	5, 8, 12, 13, 14, 16, 67, 68, 70, 75, 98, 99, 100, 101, 102, 103, 109, 114, 119, 125, 130, 170, 171, 260
<code>\definecolor</code> .	181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 201
E	
<code>\else</code>	20, 24, 28, 106, 111, 116, 122, 127, 133, 146, 153, 157, 202, 212
<code>\empty</code>	147
<code>\end</code>	272
<code>\endcsname</code> ...	72, 73, 75, 77, 79, 81, 83, 86
<code>\endgroup</code>	48, 58, 62, 169, 273
<code>\ExecuteOptionsBeamer</code>	6, 9, 36, 40
<code>\expandafter</code> ...	71, 73, 75, 77, 78, 81, 82
F	
<code>\f@family</code>	82
<code>\fi</code>	32, 33, 34, 50, 64, 80, 84, 85, 97, 108, 113, 118, 124, 129, 135, 155, 156, 163, 204, 214
<code>\fontfamily</code>	82
<code>\footnotesize</code>	293, 297, 318
G	
<code>\Gin@esetsize</code>	140, 164
<code>\Gin@ii</code>	140
H	
<code>\hbox</code>	222, 226
<code>\hfill</code>	228
<code>\hskip</code>	218, 232
<code>\huge</code>	281
I	
<code>\if</code>	147
<code>\IfFileExists</code>	341
<code>\ifmubeamer@option@fonts</code>	10, 51
<code>\ifmubeamer@option@gray</code>	37, 106, 111, 116, 122, 127, 133, 200
<code>\ifmubeamer@option@scaling</code> .	10, 42, 66
<code>\ifmubeamer@scaling@enabled</code>	42
<code>\ifnum</code>	142, 144
<code>\ifx</code>	17, 21, 25, 77, 81, 212
<code>\includegraphics</code>	145, 154, 168
<code>\insertauthor</code>	249
<code>\insertdate</code>	255
<code>\insertframenumber</code>	230
<code>\insertframesubtitle</code>	212, 213
<code>\insertframetitle</code>	211
<code>\insertinstitute</code>	252
<code>\insertshortauthor</code>	220
<code>\insertshortdate</code>	228
<code>\insertshorttitle</code>	224
<code>\insertsubtitle</code>	246
<code>\inserttitle</code>	243
<code>\inserttotalframenumber</code>	231
L	
<code>\language</code>	7
<code>\Large</code>	222, 226, 301

\large	286, 304	\mubeamer@temp@option@arg	16, 17, 21, 25
\let	71, 73, 78	\mubeamer@temp@option@fonts@basic	
\lower	222, 226	13, 21
M			
\mdseries	275, 286, 290, 294, 298	\mubeamer@temp@option@fonts@none	12, 17
\MessageBreak	151, 161	14, 25
\mode	3, 343	\mubeamer@temp@option@fonts@scaled	
\mubeamer@filename@label	119, 268	136, 139, 142, 143, 144
\mubeamer@filename@label@fallback	125, 269	N	
\mubeamer@filename@label@lastresort	130, 270	\NeedsTeXFormat	1
\mubeamer@filename@logo	103, 239	\newcommand	137
\mubeamer@filename@logo@fallback	109, 240	\newcount	136
\mubeamer@filename@logo@lastresort	114, 241	\newfontfamily	46, 56, 60
\mubeamer@filename@patch	171, 341, 342	\newif	10, 11, 37, 65
\mubeamer@lastpage	260	\newlength	173, 175, 177, 179
\mubeamer@length@footlinebottompadding	175, 234	P	
\mubeamer@length@footlineheight	177, 233	\PackageError	29, 148, 158, 165
\mubeamer@length@logoheight	179, 238	\par	243
\mubeamer@length@margin	173, 207, 208, 218, 232, 236, 256	\patchcmd	140
\mubeamer@option@fontsfalse	18	\ProcessOptionsBeamer	41
\mubeamer@option@fontstrue	22, 26	\ProvidesPackage	2
\mubeamer@option@grayfalse	39	R	
\mubeamer@option@graytrue	38	\renewcommand	141
\mubeamer@option@locale	5, 98, 99	\RequirePackage	4, 43, 52, 53, 342
\mubeamer@option@locale@label	98, 121, 132	S	
\mubeamer@option@locale@logo	98, 105	\selectfont	83
\mubeamer@option@scalingfalse	19, 23	\setbeamercolor	262, 276, 279, 282, 284, 287, 291, 295, 299, 302, 305, 309, 311, 313, 315, 319, 322, 325, 327, 328, 330, 333, 336, 338
\mubeamer@option@scalingtrue	27	\setbeamerfont	275, 278, 281, 283, 286, 289, 290, 293, 294, 297, 298, 301, 304, 307, 318, 321, 324
\mubeamer@option@workplace	8, 104, 110, 120, 126, 172	\setbeamerfont	206
\mubeamer@pathname@base	100, 101, 102, 170	\setbeamerfont	209, 216, 217, 235, 257, 258, 259
\mubeamer@pathname@label	101, 120, 126, 131	\sfbasic	78
\mubeamer@pathname@logo	101, 104, 110, 115	\sfdefault	78
\mubeamer@pathname@patch	170, 172	\small	289
\mubeamer@scaling@apply	42	T	
\mubeamer@scaling@enabledtrue	69	\textwidth	267
\mubeamer@scaling@family@basic	42	\tiny	283, 290, 294, 298
\mubeamer@scaling@family@caption	42	U	
\mubeamer@subroutine@includegraphics	136, 237, 266	\usebeamerfont	219, 221, 223, 225, 227, 229, 243, 246, 252
\mubeamer@temp@fontname	46, 56, 60	\usebeamerfont	211, 213, 220, 222, 224, 226, 228, 230, 243, 246, 249, 252, 255
\mubeamer@temp@fontsize	71, 74	\useoutertheme	205

	V		\vskip . . . 236, 242, 244, 247, 250, 253, 256
\vfill	215, 264, 271		
\vrule	233	\vtop	210

Change History

2021/09/07	Add Faculty of Pharmacy.	4
\mubeamer@option@workplace:		