

The beamer theme for the typesetting of thesis defense presentations at the Masaryk University in Brno

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Abstract

This document details the design and the implementation of the fibeamer theme for the beamer document class. Included are technical information for anyone who wishes to extend the theme with their own color themes as well as information for ordinary users.

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1 Basic usage

In order to use the fibeamer theme, insert `\usetheme[options]{fibeamer}` into the preamble of a \LaTeX document that uses the beamer document class. Refer to Section 2 for the list of available *options*.

2 Package options

2.1 The fonts option

`\iffibeamer@fonts` The fonts option instructs the package to set up the combination of the font families of Carlito, Arev, Iwona, Dsfont, and DejaVu for the typesetting of text and mathematics. This option is enabled by default.

```

1 \ProvidesPackage{fibeamer/beamerthemefibeamer}[\fibeamer@version]
2 \newif\iffibeamer@fonts
3 \DeclareOptionBeamer{fonts}{\fibeamer@fontstrue}
4 \ExecuteOptionsBeamer{fonts}

```

2.2 The nofonts option

The nofonts option instructs the package not to alter the currently set text and mathematics font families.

```
5 \DeclareOptionBeamer{nofonts}{\fibeamer@fontsfalse}
```

2.3 The microtype option

`\fibeamer@microtype` The microtype option instructs the package to use the microtypographic extensions of modern T_EX engines, such as pdfT_EX, LuaT_EX, and (with only partial support) Xe_LA_TE_X. This option is enabled by default.

```
6 \newif\fibeamer@microtype
7 \DeclareOptionBeamer{microtype}{\fibeamer@microtypetrue}
8 \ExecuteOptionsBeamer{microtype}
```

2.4 The nomicrotype option

The nomicrotype option disables the microtypographic extensions. This may be necessary, if an older T_EX engine, such as T_EX or ϵ -T_EX, is being used.

```
9 \DeclareOptionBeamer{nomicrotype}{\fibeamer@microtypefalse}
```

`\fibeamer@university` 2.5 The university option

The `{\langle university=identifier \rangle}` option pair sets the identifier of the university, at which the presentation is being written, to *identifier*. The *identifier* is stored within the `\fibeamer@university` macro, whose implicit value is `mu`. This value corresponds to the Masaryk University in Brno.

```
10 \DeclareOptionBeamer{university}{\def\fibeamer@university{#1}}
11 \ExecuteOptionsBeamer{university=mu}
```

`\fibeamer@faculty` 2.6 The faculty option

The `{\langle faculty=identifier \rangle}` pair sets the faculty, at which the thesis is being written, to *domain*. The following faculty *identifiers* are recognized at the Masaryk University in Brno:

| The faculty | The <i>domain</i> name |
|---|------------------------|
| The Faculty of Informatics | fi |
| The Faculty of Science | sci |
| The Faculty of Law | law |
| The Faculty of Economics and Administration | econ |
| The Faculty of Social Studies | fss |
| The Faculty of Medicine | med |
| The Faculty of Education | ped |
| The Faculty of Arts | phil |
| The Faculty of Sports Studies | fsps |

The *identifier* is stored within the `\fibeamer@faculty` macro, whose implicit value is `fi`.

```
12 \DeclareOptionBeamer{faculty}{\def\fibeamer@faculty{#1}}
13 \ExecuteOptionsBeamer{faculty=fi}
```

`\fibeamer@locale` 2.7 The locale option

The `{\locale=name}` pair sets the name of the main locale to *name*. The *name* is stored within the `\fibeamer@locale` macro, whose implicit value is the main language of either the `babel` or the `polyglossia` package, or `english`, when undefined.

With regards to the themes of the Masaryk University in Brno, the `\fibeamer@locale` macro is not used; it only provides the default value to the `\fibeamer@logoLocale` macro.

```
14 \def\fibeamer@locale{%
15   % Babel / polyglossia detection
16   \ifx\language\undefined%
17     english\else\language\fi}
18 \DeclareOptionBeamer{locale}{%
19   \def\fibeamer@locale{#1}}
```

`\fibeamer@logoLocale` 2.8 The logoLocale option

The `{\logoLocale=name}` pair sets the logo file locale to *name*. The *name* is stored within the `\fibeamer@logoLocale` macro, whose implicit value is `\fibeamer@locale`.

```
20 \def\fibeamer@logoLocale{\fibeamer@locale}
21 \DeclareOptionBeamer{logoLocale}{%
22   \def\fibeamer@logoLocale{#1}}
```

`\fibeamer@basePath` 2.9 The basePath option

The `{\basePath=path}` pair sets the *path* containing the package files. The *path* is prepended to every other path (`\fibeamer@logopath` and `\fibeamer@themePath`)

used by the package. If non-empty, the *path* gets normalized to *path/*. The normalized *path* is stored within the `\fibeamer@basePath` macro, whose implicit value is `fibeamer/`.

```

23 \DeclareOptionBeamer{basePath}{%
24   \ifx\fibeamer@empty#1\fibeamer@empty%
25     \def\fibeamer@basePath{}%
26   \else%
27     \def\fibeamer@basePath{#1/}%
28   \fi}
29 \ExecuteOptionsBeamer{basePath=fibeamer}

```

`\fibeamer@subdir` The `\fibeamer@subdir` macro returns `/` unchanged, coerces `./`, `../`, `/path`, `./path` and `../path` to `./`, `../`, `/path/`, `./path/` and `../path/`, respectively, and prefixes any other *path* with `\fibeamer@basePath`. This macro is used within the definition of the `themePath` and `logoPath` options.

```

30 \def\fibeamer@subdir#1#2#3#4\empty{%
31   \ifx#1\empty%           <empty> -> <basePath>
32     \fibeamer@basePath
33   \else
34     \if#1/%
35       \ifx#2\empty%       / -> /
36       /%
37     \else%                /<path> -> /<path>/
38       #1#2#3#4/%
39     \fi
40   \else
41     \if#1.%
42       \ifx#2\empty%       . -> ./
43       ./%
44     \else
45       \if#2.%
46         \ifx#3\empty%     .. -> ../
47         ../%
48       \else
49         \if#3/%           ../<path> -> ../<path>/
50         ../#4/%
51       \else
52         \fibeamer@basePath#1#2#3#4/%
53       \fi
54     \fi
55   \else
56     \if#2/%               ./<path> -> ./<path>/
57     ./#3#4/%
58   \else
59     \fibeamer@basePath#1#2#3#4/%
60   \fi
61 \fi
62 \fi
63 \else

```

```

64      \fibeamer@basePath#1#2#3#4/%
65      \fi
66      \fi
67      \fi}

```

\fibeamer@themePath 2.10 The themePath option

The `{\themePath=path}` pair sets the *path* containing the theme files. The *path* is normalized using the `\fibeamer@subdir` macro and stored within the `\fibeamer@stylePath` macro, whose implicit value is `\fibeamer@basePath theme/`. By default, this expands to `fibeamer/theme/`.

```

68 \DeclareOptionBeamer{themePath}{%
69   \def\fibeamer@themePath{\fibeamer@subdir#1%
70     \empty\empty\empty\empty}}
71 \ExecuteOptionsBeamer{themePath=theme}

```

\fibeamer@logoPath 2.11 The logoPath option

The `{\logoPath=path}` pair sets the *path* containing the logo files, which is used by the outer themes to load the main logo. The *path* is normalized using the `\fibeamer@subdir` macro and stored within the `\fibeamer@logoPath` macro, whose implicit value is `\fibeamer@basePath` followed by `logo/\fibeamer@university`. By default, this expands to `fibeamer/logo/mu/`.

```

72 \DeclareOptionBeamer{logoPath}{%
73   \def\fibeamer@logoPath{\fibeamer@subdir#1%
74     \empty\empty\empty\empty}}
75 \ExecuteOptionsBeamer{logoPath=logo/\fibeamer@university}

```

\fibeamer@logo 2.12 The logo option

The `{\logo=filename}` pair sets the prefix of the filename of the main logo to *filename*. The *filename* is stored within the `\fibeamer@logo` macro, whose implicit value is `\fibeamer@logoPath` followed by `fibeamer-\fibeamer@university-\fibeamer@faculty-\fibeamer@logoLocale`. By default, this expands to `fibeamer/logo/fibeamer-mu-fi-english`.

\fibeamer@fallbackLogo The `\fibeamer@fallbackLogo` macro contains the filename of the logo file to be used, if `\fibeamer@logo` doesn't exist. The implicit value of the `\fibeamer@fallbackLogo` macro is `\fibeamer@logoPath` followed by `fibeamer-\fibeamer@university-\fibeamer@faculty-english`. By default, this expands to `fibeamer/logo/fibeamer-mu-fi-english`.

```

76 \DeclareOptionBeamer{logo}{\def\fibeamer@logo{#1}}
77 \ExecuteOptionsBeamer{%
78   logo=\fibeamer@logoPath fibeamer-\fibeamer@university-%
79     \fibeamer@faculty-\fibeamer@logoLocale}

```

```

80 \def\fibeamer@fallbackLogo{%
81   \fibeamer@logoPath fibeamer-\fibeamer@university-%
82   \fibeamer@faculty-english}

```

3 Logic

3.1 Macros

`\fibeamer@require` The `\fibeamer@require{<package>}` macro is used to gracefully load a *package*. Packages that have already been loaded or do not exist are ignored by the macro.

```

83 \def\fibeamer@require#1{\IfFileExists{#1.sty}{%
84   \ifpackageloaded{#1}{\RequirePackage{#1}}{}}

```

`\fibeamer@requireTheme` The `\fibeamer@requireTheme{<class>}` macro is used to load a *class* of beamer themes. The following packages are loaded, provided they exist:

- `beamerclassthemefibeamer` from the `\fibeamer@themePath` directory – The base theme file. By default, this expands to `fibeamer/theme/beamerclassthemefibeamer`.
- `beamerclassthemefibeamer-\fibeamer@university` from the `\fibeamer@themePath \fibeamer@university/` directory – The university theme file. By default, this expands to `fibeamer/theme/mu/beamerclassthemefibeamer-mu`.
- `beamerclassthemefibeamer-\fibeamer@university-\fibeamer@faculty` from the `\fibeamer@themePath \fibeamer@university/` directory – The faculty theme file. By default, this expands to `fibeamer/theme/mu/beamerclassthemefibeamer-mu-fi`.

```

85 \def\fibeamer@requireTheme#1{%
86   \fibeamer@require{\fibeamer@themePath beamer#1themefibeamer}
87   \fibeamer@require{\fibeamer@themePath \fibeamer@university%
88     /beamer#1themefibeamer-\fibeamer@university}
89   \fibeamer@require{\fibeamer@themePath \fibeamer@university%
90     /beamer#1themefibeamer-\fibeamer@university-\fibeamer@faculty}}

```

`\fibeamer@includeLogo` The `\fibeamer@includeLogo[<options>]` macro includes the main logo into the document. If specified, the *options* are passed to the `\includegraphics` macro. The `\fibeamer@includeLogo` macro requires the `etoolbox` package to function.

```

91 \fibeamer@require{etoolbox}
92 \newcommand\fibeamer@includeLogo[1][{}]{
93   % See <http://tex.stackexchange.com/a/39987/70941>.
94   \patchcmd{\Gin@ii}% Make ‘\includegraphics’ use ‘@fallbackLogo’.
95     {\begingroup}% <search>
96     {\begingroup\renewcommand{\@latex@error}[2]{%
97       \includegraphics[#1]\fibeamer@fallbackLogo}}% <replace>
98     {}% <success>
99     {}% <failure>
100   \includegraphics[#1]\fibeamer@logo}}

```

3.2 Main routine

First, the theme processes the options.

```
101 \ProcessOptionsBeamer
```

When the microtype option is specified, the microtype package gets loaded.

```
102 % Set up the microtypographic extensions
103 \iffibeamer@microtype
104   \RequirePackage{microtype}
105 \fi
```

When the fonts option is specified, the following packages will be used by the package to configure the fonts in the presentation mode:

- ifthen – This package is used to construct compound conditionals.
- ifxetex, ifluatex – These packages are used to detect the used \TeX engine.
- lmodern – The Latin Modern font family is used as a fallback for missing glyphs.
- carlito – The Carlito font family is used as the primary text and math font face.
- arevmath – The Arev Sans math font family is used for various symbols and greek alphabet.
- iwona – The Iwona font family is used for large math symbols.
- dejavu – The DejaVu Sans Mono font family is used for the typesetting of monospaced text.
- setspace – This package is used to adjust the leading to 115 %.
- fontenc – This package is used to set the font encoding to Cork. This package is only used outside the $\X\TeX$ and $\Lua\TeX$ engines.
- fontspec – This package is used to load fonts. This package is only used with the $\X\TeX$ and $\Lua\TeX$ engines.

```
106 \mode<presentation>
107 % Set up the fonts
108 \iffibeamer@fonts
109   \RequirePackage{ifthen}
110   \RequirePackage{ifxetex}
111   \RequirePackage{ifluatex}
112   \RequirePackage{lmodern}
113   \RequirePackage[sfdefault,lf]{carlito}
114   \renewcommand*{\oldstylenums[1]}{\carlito0sF #1}
115
116   %% Load arev with scaling factor of .85
117   %% See <http://tex.stackexchange.com/a/181240/70941>
118   \DeclareFontFamily{OML}{zavm}{\skewchar\font=127 }
```



```

119 \DeclareFontShape{OML}{zavm}{m}{it}{<-> s* [.85] zavmri7m}{}
120 \DeclareFontShape{OML}{zavm}{b}{it}{<-> s* [.85] zavmbi7m}{}
121 \DeclareFontShape{OML}{zavm}{m}{sl}{<->ssub * zavm/m/it}{}
122 \DeclareFontShape{OML}{zavm}{bx}{it}{<->ssub * zavm/b/it}{}
123 \DeclareFontShape{OML}{zavm}{b}{sl}{<->ssub * zavm/b/it}{}
124 \DeclareFontShape{OML}{zavm}{bx}{sl}{<->ssub * zavm/b/sl}{}
125
126 \AtBeginDocument{
127   \SetSymbolFont{operators} {normal}{OT1}{zavm}{m}{n}
128   \SetSymbolFont{letters}   {normal}{OML}{zavm}{m}{it}
129   \SetSymbolFont{symbols}   {normal}{OMS}{zavm}{m}{n}
130   \SetSymbolFont{largesymbols}{normal}{OMX}{iwona}{m}{n}
131   \RequirePackage[sans]{dsfont}
132
133   \ifthenelse{\boolean{xetex}\OR\boolean{luatex}}{
134     \RequirePackage{fontspec}
135     \setmonofont[Scale=0.85,Ligatures=TeX]{DejaVu Sans Mono}
136   }{
137     \usepackage[scaled=0.85]{DejaVuSansMono}
138     \RequirePackage[resetfonts]{cmap}
139     \RequirePackage[T1]{fontenc}
140   }
141   \RequirePackage{setspace}
142   \setstretch{1.15}
143 \fi
144 \mode
145 <all>

```

Finally, the color, font, inner and outer themes of the respective university and faculty will be loaded.

```

146 \fibeamer@requireTheme{color}
147 \fibeamer@requireTheme{font}
148 \fibeamer@requireTheme{inner}
149 \fibeamer@requireTheme{outer}

```

4 Themes

This section contains the combined documentation of all available themes. When creating a new theme file, it is advisable to create one self-contained dtx file, which is then partitioned into locale files via the docstrip tool based on the respective ins file. A macro `\file{<filename>}` is available for the sectioning of the documentation of various files within the dtx file. For more information about dtx files and the docstrip tool, consult the dtxut, docstrip, doc and ltxdoc manuals.

\file

4.1 Base files

4.1.1 The `theme/mu/beamercolorthemefibeamer-mu.sty` file

This is the base color theme for presentations written at the Masaryk University in Brno.

```
150 \NeedsTeXFormat{LaTeX2e}
151 \ProvidesPackage{fibeamer/theme/mu/%
152   beamercolorthemefibeamer-mu}[2016/01/12]
```

`\darkframes` The `darkframes` environment switches the color definitions to render the enclosed frames in dark colors. This is a dummy definition, which will be overridden by the subsequently loaded color theme in the presentation mode.

```
153 \newenvironment{darkframes}{}{}
```

The rest of the theme will be ignored outside the presentation mode.

```
154 \mode<presentation>
```

The theme loads the following packages, which will be used by the subsequently loaded color theme specific to a faculty:

- `listings` – This package is used for code listings. The subsequently loaded color theme will specify source code coloring for the package.
- `ifthen` – This package is used to construct compound conditionals.
- `tikz` – This package is used to create gradient background for dark slides.

```
155 \RequirePackage{listings}
156 \RequirePackage{ifthen}
157 \RequirePackage{tikz}
```

`\iffibeamer@dark` The `\iffibeamer@dark` conditional will be switched on and off by the subsequently loaded color theme based on whether or not the given frame is being typeset in light or dark colors. This information will be used by outer themes to insert the correct logo into each frame.

```
158 \newif\iffibeamer@dark\fibeamer@darkfalse
```

A frame that is either title or dark, as specified by the value of the `\iffibeamer@dark` conditional, will have a gradient background. The `fibeamer@backgroundInner` and `fibeamer@backgroundOuter` colors will be defined by the subsequently loaded color theme.

```
159 \defbeamertemplate*{background canvas}{fibeamer}{%
160   \ifthenelse{%
161     \boolean{fibeamer@dark} \OR \c@framenum=0
162   }{%
163     \begin{tikzpicture}
164       \clip (0,\fibeamer@lengths@clipbottom) rectangle
165         (\paperwidth,\fibeamer@lengths@cliptop);
166       \path [inner color = fibeamer@backgroundInner,
```

```

167         outer color = fibeamer@backgroundOuter]
168     (0,0) rectangle (\paperwidth,\paperwidth);
169 \end{tikzpicture}
170 }{}}
171 \mode
172 <all>

```

4.1.2 The theme/mu/beamerfontthemefibeamer-mu.sty file

This is the base font theme for presentations written at the Masaryk University in Brno. The theme has no effect outside the presentation mode.

```

173 \NeedsTeXFormat{LaTeX2e}
174 \ProvidesPackage{fibeamer/theme/mu/%
175   beamerfontthemefibeamer-mu}[2016/01/12]
176 \mode<presentation>
177 \setbeamerfont{normal text}{size=\normalsize}
178 \setbeamerfont{title}{size=\LARGE, series=\bfseries}
179 \setbeamerfont{subtitle}{parent=normal text, size=\Large}
180 \setbeamerfont{frametitle}{size=\Large}
181 \setbeamerfont{framesubtitle}{size=\large, shape=\itshape}
182 \setbeamerfont{description item}{series=\bfseries}
183 \setbeamerfont{author}{size=\large}
184 \mode
185 <all>

```

4.1.3 The theme/mu/beamerinnerthemefibeamer-mu.sty file

This is the base inner theme for presentations written at the Masaryk University in Brno. The theme has no effect outside the presentation mode.

```

186 \NeedsTeXFormat{LaTeX2e}
187 \ProvidesPackage{fibeamer/theme/mu/%
188   beamerinnerthemefibeamer-mu}[2016/01/12]
189 \mode<presentation>

```

This part of the inner theme defines the design of lists.

```

190 \defbeamertemplate*{itemize item}{fibeamer}{\bullet$}
191 \defbeamertemplate*{itemize subitem}{fibeamer}{\---}
192 \defbeamertemplate*{itemize subsubitem}{fibeamer}{\guillemotright}

```

This part of the inner theme defines the design of bibliography items and citations.

```

193 \setbeamertemplate{bibliography item}{\insertbiblabel}
194 \AtBeginDocument{%
195   \let\fibeamer@oldcite\cite
196   \def\cite#1{%
197     \usebeamercolor[fg]{item}%
198     \fibeamer@oldcite{#1}}}}

```

This part of the inner theme defines the design of the table of contents.

```

199 \setbeamertemplate{section in toc}{%
200   \usebeamercolor[fg]{item}%

```

```

201 \inserttocsectionnumber.%
202 \usebeamercolor[fg]{structure}%
203 \kern1.25ex\inserttocsection\par}
204 \setbeamertemplate{subsection in toc}{%
205 \hspace\leftmargini
206 \usebeamercolor[fg]{item}%
207 \inserttocsectionnumber.\inserttocsubsectionnumber%
208 \usebeamercolor[fg]{structure}%
209 \kern1.25ex\inserttocsubsection\par}
210 \setbeamertemplate{subsubsection in toc}{%
211 \hspace\leftmargini
212 \hspace\leftmarginii
213 \usebeamercolor[fg]{item}%
214 \inserttocsectionnumber.\inserttocsubsectionnumber.%
215 \inserttocsubsubsectionnumber%
216 \usebeamercolor[fg]{structure}%
217 \kern1.25ex\inserttocsubsubsection\par}
218 \mode
219 <all>

```

4.1.4 The theme/mu/beamerouterthemefibeamer-mu.sty file

This is the base outer theme for presentations written at the Masaryk University in Brno. The theme has no effect outside the presentation mode.

```

220 \NeedsTeXFormat{LaTeX2e}
221 \ProvidesPackage{fibeamer/theme/mu/%
222 beamerouterthemefibeamer-mu}[2016/01/12]
223 \mode<presentation>

```

The theme uses the following packages:

- `ifthen` – This package is used to construct compound conditionals.
- `ifpdf` – This package is used to check, whether the document is being typeset in DVI mode. If it is, then the `\pdfpagewidth` and `\pdfpageheight` dimensions are defined, so that positioning in TikZ works correctly.
- `tikz` – This package is used to position the logo and the frame number on a frame.
- `pgfcore` – This package is used to draw the dashed line at the title frame.

```

224 \RequirePackage{ifthen}
225 \RequirePackage{ifpdf}
226 \ifpdf\else
227 \@ifundefined{pdfpagewidth}{\newdimen\pdfpagewidth}{}
228 \@ifundefined{pdfpageheight}{\newdimen\pdfpageheight}{}
229 \pdfpagewidth=\paperwidth
230 \pdfpageheight=\paperheight
231 \fi
232 \RequirePackage{tikz}
233 \RequirePackage{pgfcore}

```

This part of the outer theme defines the geometry of the frames along with other dimensions.

```

234 \newlength\fiamear@lengths@baseunit
235 \fiamear@lengths@baseunit=3.75mm
236 % The footer padding
237 \newlength\fiamear@lengths@footerpad
238 \setlength\fiamear@lengths@footerpad{%
239   \fiamear@lengths@baseunit}
240 % The side margins
241 \newlength\fiamear@lengths@margin
242 \setlength\fiamear@lengths@margin{%
243   3\fiamear@lengths@baseunit}
244 \setbeamersize{
245   text margin left=\fiamear@lengths@margin,
246   text margin right=\fiamear@lengths@margin}
247 % The upper margin
248 \newlength\fiamear@lengths@titleline
249 \setlength\fiamear@lengths@titleline{%
250   3\fiamear@lengths@baseunit}
251 % The background clipping
252 \newlength\fiamear@lengths@clipbottom
253 \setlength\fiamear@lengths@clipbottom\paperwidth
254 \addtolength\fiamear@lengths@clipbottom{-\paperheight}
255 \setlength\fiamear@lengths@clipbottom{%
256   0.5\fiamear@lengths@clipbottom}
257 \newlength\fiamear@lengths@cliptop
258 \setlength\fiamear@lengths@cliptop\paperwidth
259 \addtolength\fiamear@lengths@cliptop{%
260   -\fiamear@lengths@clipbottom}

261 % The logo size
262 \newlength\fiamear@lengths@logowidth
263 \setlength\fiamear@lengths@logowidth{%
264   14\fiamear@lengths@baseunit}
265 \newlength\fiamear@lengths@logoheight
266 \setlength\fiamear@lengths@logoheight{%
267   0.4\fiamear@lengths@logowidth}

```

The outer theme completely culls the bottom navigation.

```

268 \defbeamertemplate*{navigation symbols}{fiamear}{}

```

The outer theme also culls the headline.

```

269 \defbeamertemplate*{headline}{fiamear}{}

```

The frame title.

```

270 \defbeamertemplate*{frametitle}{fiamear}{%
271   \vskip-1em % Align the text with the top border
272   \vskip\fiamear@lengths@titleline
273   \usebeamerfont[fg]{frametitle}%
274   \usebeamerfont{frametitle}%
275   \insertframetitle\par%

```

```

276 \usebeamercolor[fg]{framesubtitle}%
277 \usebeamerfont{framesubtitle}%
278 \insertframesubtitle}

```

The footline contains the frame number. It is flushed right.

```

279 \defbeamertemplate*{footline}{fibeamer}{%
280   \ifnum\c@framenum=0\else%
281     \begin{tikzpicture}[overlay]
282       \node[anchor=south east,
283         yshift=\fibeamer@lengths@footerpad,
284         xshift=-\fibeamer@lengths@footerpad] at
285         (current page.south east) {
286           \usebeamercolor[fg]{framenum}%
287           \usebeamerfont{framenum}%
288           \insertframenum/\inserttotalframenum};
289     \end{tikzpicture}
290   \fi}

```

The title frame contains the main logo, the \title, the \subtitle, and the \author.

```

291 \defbeamertemplate*{title page}{fibeamer}{%
292   % This is slide 0
293   \setcounter{framenum}{0}
294
295   % Input the university logo
296   \begin{tikzpicture}[
297     remember picture,
298     overlay,
299     xshift=0.5\fibeamer@lengths@logowidth,
300     yshift=0.5\fibeamer@lengths@logoheight
301   ]
302     \node at (0,0) {
303       \fibeamer@includeLogo[
304         width=\fibeamer@lengths@logowidth,
305         height=\fibeamer@lengths@logoheight
306       ]};
307   \end{tikzpicture}
308
309   % Input the title
310   \usebeamerfont{title}%
311   \usebeamercolor[fg]{title}%
312   \begin{minipage}[b][2\baselineskip][b]{\textwidth}%
313     \raggedright%
314     \inserttitle%
315   \end{minipage}
316   \vskip-.5\baselineskip
317
318   % Input the dashed line
319   \begin{pgfpicture}
320     \pgfsetlinewidth{2pt}
321     \pgfsetroundcap
322     \pgfsetdash{{0pt}{4pt}}{{0cm}}

```

```

323
324     \pgfpathmoveto{\pgfpoint{0mm}{0mm}}
325     \pgfpathlineto{\pgfpoint{\textwidth}{0mm}}
326
327     \pgfusepath{stroke}
328 \end{pgfpicture}
329 \vfill
330
331 % Input the subtitle
332 \usebeamerfont{subtitle}%
333 \begin{minipage}{\textwidth}
334     \raggedright%
335     \insertsubtitle%
336 \end{minipage}\vskip.25\baselineskip
337
338 % Input the author's name
339 \usebeamerfont{author}%
340 \begin{minipage}{\textwidth}
341     \raggedright%
342     \insertauthor%
343 \end{minipage}}
344
345 \mode
346 <all>

```

4.2 The Faculty of Informatics

4.2.1 The theme/mu/beamercolorthemefibeamer-fi.sty file

This is the color theme for presentations written at the Faculty of Informatics at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```

347 \NeedsTeXFormat{LaTeX2e}
348 \ProvidesPackage{fibeamer/theme/mu/%
349   beamercolorthemefibeamer-mu-fi}[2016/01/12]
350 \mode<presentation>

```

This color theme uses the combination of yellow and dark gray in light frames and the combination of gold and white in dark frames. The `fibeamer@backgroundInner` and `fibeamer@backgroundOuter` colors are used within the background canvas template, which is defined within the color theme of the Masaryk University and which draws the gradient background of dark frames.

```

351 \definecolor{fibeamer@gold}{HTML}{a47312}
352 \definecolor{fibeamer@yellow}{HTML}{FFEB9C}
353 \definecolor{fibeamer@darkYellow}{HTML}{FFB600}
354 \definecolor{fibeamer@orange}{HTML}{FF5500}
355 \definecolor{fibeamer@gray}{HTML}{999999}
356 \colorlet{fibeamer@blue}{blue!60!fibeamer@gray}
357 \colorlet{fibeamer@backgroundInner}{fibeamer@gold}

```

```
358 \colorlet{fibeamer@backgroundOuter}{fibeamer@gold!60!black}
```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```
359 \renewenvironment{darkframes}{%
360   \begingroup
361     \fibeamer@darktrue
362     %% Structures
363     \setbeamercolor*{frametitle}{fg=fibeamer@gold!30!white}
364     \setbeamercolor*{framesubtitle}{fg=white}
365     %% Text
366     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@gold}
367     \setbeamercolor*{structure}{fg=white, bg=fibeamer@gold}

368     \setbeamercolor*{alerted text}{%
369       fg=fibeamer@gold!70!white!20!fibeamer@darkYellow}
370     %% Items
371     \setbeamercolor*{item}{fg=fibeamer@gold!30!white}
372     \setbeamercolor*{footnote mark}{fg=fibeamer@gold!30!white}
373     %% Blocks
374     \setbeamercolor*{block title}{
375       use=structure, fg=white, bg=fibeamer@gold!60!white}
376     \setbeamercolor*{block title example}{
377       use=example text, fg=white, bg=fibeamer@gold!60!white}
378     \setbeamercolor*{block title alerted}{
379       use=alerted text, fg=white, bg=fibeamer@gold!90!white}
380     \setbeamercolor*{block body}{
381       fg=fibeamer@gold, use=block title,
382       bg=fibeamer@gray!15!white}
383     \usebeamercolor*{normal text}
384     % Code listings
385     \lstset{
386       commentstyle=\color{green!30!white},
387       keywordstyle=\color{blue!30!white},
388       stringstyle=\color{fibeamer@gold!30!white}}
389   }{%
390   \endgroup}
```

Outside the `darkframes` environment, the light theme is used.

```
391 %% Structures
392 \setbeamercolor{frametitle}{fg=black!75!white}
393 \setbeamercolor{framesubtitle}{fg=black!50!white}
394 %% Text
395 \setbeamercolor{normal text}{fg=black!75!white, bg=white}
396 \setbeamercolor{structure}{fg=black!75!white, bg=white}

397 \setbeamercolor{alerted text}{fg=fibeamer@orange}
398 \addtobeamertemplate{block begin}{%
399   \iffibeamer@dark % alerted text in plain block at dark slides
400     \setbeamercolor{alerted text}{%
401       fg=fibeamer@gold!30!fibeamer@darkYellow}%
402     }
```



```

402 \fi}{}
403 %% Items
404 \setbeamercolor{item}{fg=fibeamer@darkYellow}
405 \setbeamercolor{footnote mark}{fg=fibeamer@darkYellow}
406 %% Blocks
407 \setbeamercolor{block title}{
408   use=structure, fg=black!75!white, bg=fibeamer@yellow}
409 \setbeamercolor{block title example}{
410   use=example text, fg=black!75!white, bg=fibeamer@yellow}
411 \setbeamercolor{block title alerted}{
412   use=alerted text, fg=white, bg=black!75!white}
413 \setbeamercolor{block body}{
414   fg=fibeamer@yellow, use=block title, bg=black!75!white}
415 %% Title
416 \setbeamercolor{title}{fg=white, bg=fibeamer@gold}
417 \setbeamercolor{title}{use=structure}
418 % Code listings
419 \lstset{
420   basicstyle=\footnotesize\ttfamily,
421   breakatwhitespace=false,
422   breaklines=true,
423   commentstyle=\color{green!60!black},
424   extendedchars=true,
425   keywordstyle=\color{fibeamer@blue},
426   showspaces=false,
427   showstringspaces=false,
428   showtabs=false,
429   stringstyle=\color{violet}}
430 \mode
431 <all>

```

4.3 The Faculty of Science

4.3.1 The theme/mu/beamercolorthemefibeamer-sci.sty file

This is the color theme for presentations written at the Faculty of Science at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```

432 \NeedsTeXFormat{LaTeX2e}
433 \ProvidesPackage{fibeamer/theme/mu/%
434   beamercolorthemefibeamer-mu-sci}[2016/01/12]
435 \mode<presentation>

```

This color theme uses the combination of green, gray and white. The fibeamer@backgroundInner and fibeamer@backgroundOuter colors are used within the background canvas template, which is defined within the color theme of the Masaryk University and which draws the gradient background of dark frames.

```

436 \definecolor{fibeamer@green}{HTML}{139632}
437 \definecolor{fibeamer@gray}{HTML}{999999}

```

```

438 \definecolor{fibeamer@brightGreen}{HTML}{2ECE0F}
439 \colorlet{fibeamer@backgroundInner}{fibeamer@green!90!black}
440 \colorlet{fibeamer@backgroundOuter}{fibeamer@green!60!black}

```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```

441 \renewenvironment{darkframes}{%
442   \begin{group}
443     \fibeamer@darktrue
444     %% Structures
445     \setbeamercolor*{frametitle}{fg=fibeamer@green!30!white}
446     \setbeamercolor*{framesubtitle}{fg=white}
447     %% Text
448     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@green}
449     \setbeamercolor*{structure}{fg=white, bg=fibeamer@green}
450
451     \setbeamercolor*{alerted text}{%
452       fg=fibeamer@brightGreen!75!white}
453     %% Items
454     \setbeamercolor*{item}{fg=fibeamer@green!30!white}
455     \setbeamercolor*{footnote mark}{fg=fibeamer@green!30!white}
456     %% Blocks
457     \setbeamercolor*{block title}{
458       use=structure, fg=white, bg=fibeamer@green!60!white}
459     \setbeamercolor*{block title example}{
460       use=example text, fg=white, bg=fibeamer@green!60!white}
461     \setbeamercolor*{block title alerted}{
462       use=alerted text, fg=white, bg=fibeamer@green}
463     \setbeamercolor*{block body}{
464       fg=fibeamer@green, use=block title,
465       bg=fibeamer@gray!15!white}
466     \usebeamercolor*{normal text}
467     % Code listings
468     \lstset{
469       commentstyle=\color{green!30!white},
470       keywordstyle=\color{blue!30!white},
471       stringstyle=\color{red!30!white}}
472   }{%
473     \end{group}

```

Outside the `darkframes` environment, the light theme is used.

```

473 %% Structures
474 \setbeamercolor{frametitle}{fg=fibeamer@green}
475 \setbeamercolor{framesubtitle}{fg=black!75!white}
476 %% Text
477 \setbeamercolor{normal text}{fg=black, bg=white}
478 \setbeamercolor{structure}{fg=black, bg=white}
479
480 \setbeamercolor{alerted text}{fg=fibeamer@brightGreen}
481 \addtobeamertemplate{block begin}{%
482   \iffibeamer@dark % alerted text in plain block at dark slides

```

```

482     \setbeamercolor{alerted text}{fg=fibeamer@brightGreen!90!white}%
483     \else % alerted text in plain block at light slides
484         \setbeamercolor{alerted text}{fg=fibeamer@brightGreen!80!white}%
485     \fi{}}
486 %% Items
487 \setbeamercolor{item}{fg=fibeamer@green}
488 \setbeamercolor{footnote mark}{fg=fibeamer@green}
489 %% Blocks
490 \setbeamercolor{block title}{
491     use=structure, fg=white, bg=fibeamer@green!50!white}
492 \setbeamercolor{block title example}{
493     use=example text, fg=white, bg=fibeamer@green!50!white}
494 \setbeamercolor{block title alerted}{
495     use=alerted text, fg=white, bg=fibeamer@green}
496 \setbeamercolor{block body}{
497     fg=fibeamer@green, use=block title, bg=fibeamer@gray!20!white}
498 %% Title
499 \setbeamercolor{title}{fg=white, bg=fibeamer@green}
500 \setbeamercolor{title}{use=structure}
501 % Code listings
502 \lstset{
503     basicstyle=\footnotesize\ttfamily,
504     breakatwhitespace=false,
505     breaklines=true,
506     commentstyle=\color{green!60!black},
507     extendedchars=true,
508     keywordstyle=\color{blue},
509     showspaces=false,
510     showstringspaces=false,
511     showtabs=false,
512     stringstyle=\color{violet}}
513 \mode
514 <all>

```

4.4 The Faculty of Arts

4.4.1 The theme/mu/beamercolorthemefibeamer-phil.sty file

This is the color theme for presentations written at the Faculty of Arts at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```

515 \NeedsTeXFormat{LaTeX2e}
516 \ProvidesPackage{fibeamer/theme/mu/%
517     beamercolorthemefibeamer-mu-phil}[2016/01/12]
518 \mode<presentation>

```

This color theme uses the combination of aquamarine, gray and white. The `fibeamer@backgroundInner` and `fibeamer@backgroundOuter` colors are used within the background canvas template, which is defined within the color theme of

the Masaryk University and which draws the gradient background of dark frames.

```
519 \definecolor{fibeamer@blue}{HTML}{0071B2}
520 \definecolor{fibeamer@brightBlue}{HTML}{38B3FA}
521 \definecolor{fibeamer@gray}{HTML}{999999}
522 \colorlet{fibeamer@backgroundInner}{fibeamer@blue!80!black}
523 \colorlet{fibeamer@backgroundOuter}{fibeamer@blue!60!black}
```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```
524 \renewenvironment{darkframes}{%
525   \begingroup
526     \fibeamer@darktrue
527     %% Structures
528     \setbeamercolor*{frametitle}{fg=fibeamer@blue!30!white}
529     \setbeamercolor*{framesubtitle}{fg=white}
530     %% Text
531     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@blue}
532     \setbeamercolor*{structure}{fg=white, bg=fibeamer@blue}

533     \setbeamercolor*{alerted text}{fg=fibeamer@brightBlue!75!white}
534     %% Items
535     \setbeamercolor*{item}{fg=fibeamer@blue!30!white}
536     \setbeamercolor*{footnote mark}{fg=fibeamer@blue!30!white}
537     %% Blocks
538     \setbeamercolor*{block title}{
539       use=structure, fg=white, bg=fibeamer@blue!60!white}
540     \setbeamercolor*{block title example}{
541       use=example text, fg=white, bg=fibeamer@blue!60!white}
542     \setbeamercolor*{block title alerted}{
543       use=alerted text, fg=white, bg=fibeamer@blue}
544     \setbeamercolor*{block body}{
545       fg=fibeamer@blue, use=block title,
546       bg=fibeamer@gray!15!white}
547     \usebeamercolor*{normal text}
548     % Code listings
549     \lstset{
550       commentstyle=\color{green!30!white},
551       keywordstyle=\color{fibeamer@blue!30!white},
552       stringstyle=\color{red!30!white}}
553   }{%
554     \endgroup}
```

Outside the `darkframes` environment, the light theme is used.

```
555 %% Structures
556 \setbeamercolor{frametitle}{fg=fibeamer@blue}
557 \setbeamercolor{framesubtitle}{fg=black!75!white}
558 %% Text
559 \setbeamercolor{normal text}{fg=black, bg=white}
560 \setbeamercolor{structure}{fg=black, bg=white}

561 \setbeamercolor{alerted text}{fg=fibeamer@brightBlue}
```

```

562 \addtobeamertemplate{block begin}{%
563   \iffibeamer@dark % alerted text in plain block at dark slides
564     \setbeamercolor{alerted text}{fg=fibeamer@brightBlue}%
565   \else % alerted text in plain block at light slides
566     \setbeamercolor{alerted text}{fg=fibeamer@brightBlue!80!white}%
567   \fi}{}
568 %% Items
569 \setbeamercolor{item}{fg=fibeamer@blue}
570 \setbeamercolor{footnote mark}{fg=fibeamer@blue}
571 %% Blocks
572 \setbeamercolor{block title}{
573   use=structure, fg=white, bg=fibeamer@blue!50!white}
574 \setbeamercolor{block title example}{
575   use=example text, fg=white, bg=fibeamer@blue!50!white}
576 \setbeamercolor{block title alerted}{
577   use=alerted text, fg=white, bg=fibeamer@blue}
578 \setbeamercolor{block body}{
579   fg=fibeamer@blue, use=block title, bg=fibeamer@gray!20!white}
580 %% Title
581 \setbeamercolor{title}{fg=white, bg=fibeamer@blue}
582 \setbeamercolor{title}{use=structure}
583 % Code listings
584 \lstset{
585   basicstyle=\footnotesize\ttfamily,
586   breakatwhitespace=false,
587   breaklines=true,
588   commentstyle=\color{green!60!black},
589   extendedchars=true,
590   keywordstyle=\color{fibeamer@blue},
591   showspaces=false,
592   showstringspaces=false,
593   showtabs=false,
594   stringstyle=\color{violet}}
595 \mode
596 <all>

```

4.5 The Faculty of Education

4.5.1 The theme/mu/beamercolorthemefibeamer-ped.sty file

This is the color theme for presentations written at the Faculty of Education at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```

597 \NeedsTeXFormat{LaTeX2e}
598 \ProvidesPackage{fibeamer/theme/mu/
599   beamercolorthemefibeamer-mu-ped}[2016/01/12]
600 \mode<presentation>

```

This color theme uses the combination of orange and dark gray in light frames and the combination of gold and white in dark frames. The fibeamer@back-

groundInner and fibeamer@backgroundOuter colors are used within the background canvas template, which is defined within the color theme of the Masaryk University and which draws the gradient background of dark frames.

```

601 \definecolor{fibeamer@gold}{HTML}{CF7000}
602 \definecolor{fibeamer@orange}{HTML}{FABE6E}
603 \definecolor{fibeamer@darkOrange}{HTML}{F89C22}
604 \definecolor{fibeamer@brightOrange}{HTML}{FF4000}
605 \definecolor{fibeamer@gray}{HTML}{999999}
606 \colorlet{fibeamer@backgroundInner}{fibeamer@gold}
607 \colorlet{fibeamer@backgroundOuter}{fibeamer@gold!60!black}

```

The darkframes environment switches the \iffibeamer@darktrue conditional on and sets a dark color theme.

```

608 \renewenvironment{darkframes}{%
609   \begingroup
610     \fibeamer@darktrue
611     %% Structures
612     \setbeamercolor*{frametitle}{fg=fibeamer@gold!30!white}
613     \setbeamercolor*{framesubtitle}{fg=white}
614     %% Text
615     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@gold}
616     \setbeamercolor*{structure}{fg=white, bg=fibeamer@gold}

617     \setbeamercolor*{alerted text}{%
618       fg=white!40!fibeamer@brightOrange}
619     %% Items
620     \setbeamercolor*{item}{fg=fibeamer@gold!30!white}
621     \setbeamercolor*{footnote mark}{fg=fibeamer@gold!30!white}
622     %% Blocks
623     \setbeamercolor*{block title}{
624       use=structure, fg=white, bg=fibeamer@gold!60!white}
625     \setbeamercolor*{block title example}{
626       use=example text, fg=white, bg=fibeamer@gold!60!white}
627     \setbeamercolor*{block title alerted}{
628       use=alerted text, fg=white, bg=fibeamer@gold!90!white}
629     \setbeamercolor*{block body}{
630       fg=fibeamer@gold, use=block title,
631       bg=fibeamer@gray!15!white}
632     \usebeamercolor*{normal text}
633     % Code listings
634     \lstset{
635       commentstyle=\color{green!30!white},
636       keywordstyle=\color{blue!30!white},
637       stringstyle=\color{fibeamer@gold!30!white}}
638   }{%
639     \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

640 %% Structures
641 \setbeamercolor{frametitle}{fg=fibeamer@darkOrange}

```

```

642 \setbeamercolor{framesubtitle}{fg=black!60!white}
643 %% Text
644 \setbeamercolor{normal text}{fg=black!75!white, bg=white}
645 \setbeamercolor{structure}{fg=black!75!white, bg=white}

646 \setbeamercolor{alerted text}{fg=fibeamer@brightOrange}
647 \addtobeamertemplate{block begin}{%
648   \iffibeamer@dark % alerted text in plain block at dark slides
649     \setbeamercolor{alerted text}{%
650       fg=white!20!fibeamer@brightOrange}%
651   \else % alerted text in plain block at light slides
652     \setbeamercolor{alerted text}{%
653       fg=white!20!fibeamer@brightOrange}%
654   \fi}{%
655   %% Items
656   \setbeamercolor{item}{fg=fibeamer@darkOrange}
657   \setbeamercolor{footnote mark}{fg=fibeamer@darkOrange}
658   %% Blocks
659   \setbeamercolor{block title}{
660     use=structure, fg=black!75!white, bg=fibeamer@orange}
661   \setbeamercolor{block title example}{
662     use=example text, fg=black!75!white, bg=fibeamer@orange}
663   \setbeamercolor{block title alerted}{
664     use=alerted text, fg=white, bg=black!75!white}
665   \setbeamercolor{block body}{
666     fg=fibeamer@orange, use=block title, bg=black!75!white}
667   %% Title
668   \setbeamercolor{title}{fg=white, bg=fibeamer@gold}
669   \setbeamercolor{title}{use=structure}
670   % Code listings
671   \lstset{
672     basicstyle=\footnotesize\ttfamily,
673     breakatwhitespace=false,
674     breaklines=true,
675     commentstyle=\color{green!60!black},
676     extendedchars=true,
677     keywordstyle=\color{blue},
678     showspaces=false,
679     showstringspaces=false,
680     showtabs=false,
681     stringstyle=\color{violet}}
682 \mode
683 <all>

```

4.6 The Faculty of Social Studies

4.6.1 The theme/mu/beamercolorthemefibeamer-fss.sty file

This is the color theme for presentations written at the Faculty of Social Studies at the Masaryk University in Brno. This theme has no effect outside the presentation

mode.

```
684 \NeedsTeXFormat{LaTeX2e}
685 \ProvidesPackage{fibeamer/theme/mu/%
686   beamercolorthemefibeamer-mu-fss}[2016/01/12]
687 \mode<presentation>
```

This color theme uses the combination of cyan, gray and white. The `fibeamer@backgroundInner` and `fibeamer@backgroundOuter` colors are used within the background canvas template, which is defined within the color theme of the Masaryk University and which draws the gradient background of dark frames.

```
688 \definecolor{fibeamer@cyan}{HTML}{00796E}
689 \definecolor{fibeamer@brightCyan}{HTML}{06c696}
690 \definecolor{fibeamer@gray}{HTML}{999999}
691 \colorlet{fibeamer@backgroundInner}{fibeamer@cyan!80!black}
692 \colorlet{fibeamer@backgroundOuter}{fibeamer@cyan!60!black}
```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```
693 \renewenvironment{darkframes}{%
694   \begin{group}
695     \fibeamer@darktrue
696     %% Structures
697     \setbeamercolor*{frametitle}{fg=fibeamer@cyan!30!white}
698     \setbeamercolor*{framesubtitle}{fg=white}
699     %% Text
700     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@cyan}
701     \setbeamercolor*{structure}{fg=white, bg=fibeamer@cyan}
702     \setbeamercolor*{alerted text}{fg=fibeamer@brightCyan!90!white}
703     %% Items
704     \setbeamercolor*{item}{fg=fibeamer@cyan!30!white}
705     \setbeamercolor*{footnote mark}{fg=fibeamer@cyan!30!white}
706     %% Blocks
707     \setbeamercolor*{block title}{
708       use=structure, fg=white, bg=fibeamer@cyan!60!white}
709     \setbeamercolor*{block title example}{
710       use=example text, fg=white, bg=fibeamer@cyan!60!white}
711     \setbeamercolor*{block title alerted}{
712       use=alerted text, fg=white, bg=fibeamer@cyan}
713     \setbeamercolor*{block body}{
714       fg=fibeamer@cyan, use=block title,
715       bg=fibeamer@gray!15!white}
716     \usebeamercolor*{normal text}
717     % Code listings
718     \lstset{
719       commentstyle=\color{green!30!white},
720       keywordstyle=\color{blue!30!white},
721       stringstyle=\color{red!30!white}}
722   }{%
723   \end{group}}
```


Outside the darkframes environment, the light theme is used.

```
724 %% Structures
725 \setbeamercolor{frametitle}{fg=fibeamer@cyan}
726 \setbeamercolor{framesubtitle}{fg=black!75!white}
727 %% Text
728 \setbeamercolor{normal text}{fg=black, bg=white}
729 \setbeamercolor{structure}{fg=black, bg=white}

730 \setbeamercolor{alerted text}{fg=fibeamer@brightCyan}
731 \addtobeamertemplate{block begin}{%
732   \iffibeamer@dark % alerted text in plain block at dark slides
733     \setbeamercolor{alerted text}{fg=fibeamer@brightCyan}%
734   \else % alerted text in plain block at light slides
735     \setbeamercolor{alerted text}{fg=fibeamer@brightCyan!80!white}%
736   \fi}{}
737 %% Items
738 \setbeamercolor{item}{fg=fibeamer@cyan}
739 \setbeamercolor{footnote mark}{fg=fibeamer@cyan}
740 %% Blocks
741 \setbeamercolor{block title}{
742   use=structure, fg=white, bg=fibeamer@cyan!50!white}
743 \setbeamercolor{block title example}{
744   use=example text, fg=white, bg=fibeamer@cyan!50!white}
745 \setbeamercolor{block title alerted}{
746   use=alerted text, fg=white, bg=fibeamer@cyan}
747 \setbeamercolor{block body}{
748   fg=fibeamer@cyan, use=block title, bg=fibeamer@gray!20!white}
749 %% Title
750 \setbeamercolor{title}{fg=white, bg=fibeamer@cyan}
751 \setbeamercolor{title}{use=structure}
752 % Code listings
753 \lstset{
754   basicstyle=\footnotesize\ttfamily,
755   breakatwhitespace=false,
756   breaklines=true,
757   commentstyle=\color{green!60!black},
758   extendedchars=true,
759   keywordstyle=\color{blue},
760   showspaces=false,
761   showstringspaces=false,
762   showtabs=false,
763   stringstyle=\color{violet}}
764 \mode
765 <all>
```

4.7 The Faculty of Law

4.7.1 The theme/mu/beamercolorthemefibeamer-law.sty file

This is the color theme for presentations written at the Faculty of Law at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```
766 \NeedsTeXFormat{LaTeX2e}
767 \ProvidesPackage{fibeamer/theme/mu/%
768   beamercolorthemefibeamer-mu-law}[2016/01/12]
769 \mode<presentation>
```

This color theme uses the combination of violet, gray and white. The `fibeamer@backgroundInner` and `fibeamer@backgroundOuter` colors are used within the background canvas template, which is defined within the color theme of the Masaryk University and which draws the gradient background of dark frames.

```
770 \definecolor{fibeamer@violet}{HTML}{660099}
771 \definecolor{fibeamer@brightViolet}{HTML}{B21AFF}
772 \definecolor{fibeamer@gray}{HTML}{999999}
773 \colorlet{fibeamer@backgroundInner}{fibeamer@violet}
774 \colorlet{fibeamer@backgroundOuter}{fibeamer@violet!60!black}
```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```
775 \renewenvironment{darkframes}{%
776   \begingroup
777     \fibeamer@darktrue
778     %% Structures
779     \setbeamercolor*{frametitle}{fg=fibeamer@violet!30!white}
780     \setbeamercolor*{framesubtitle}{fg=white}
781     %% Text
782     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@violet}
783     \setbeamercolor*{structure}{fg=white, bg=fibeamer@violet}

784     \setbeamercolor*{alerted text}{%
785       fg=fibeamer@brightViolet!60!white!90!red}
786     %% Items
787     \setbeamercolor*{item}{fg=fibeamer@violet!30!white}
788     \setbeamercolor*{footnote mark}{fg=fibeamer@violet!30!white}
789     %% Blocks
790     \setbeamercolor*{block title}{
791       use=structure, fg=white, bg=fibeamer@violet!60!white}
792     \setbeamercolor*{block title example}{
793       use=example text, fg=white, bg=fibeamer@violet!60!white}
794     \setbeamercolor*{block title alerted}{
795       use=alerted text, fg=white, bg=fibeamer@violet!90!white}
796     \setbeamercolor*{block body}{
797       fg=fibeamer@violet, use=block title,
798       bg=fibeamer@gray!15!white}
799     \usebeamercolor*{normal text}
800     % Code listings
```

```

801 \lstset{
802   commentstyle=\color{green!30!white},
803   keywordstyle=\color{blue!30!white},
804   stringstyle=\color{fibeamer@violet!30!white}}
805 }{%
806 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

807 %% Structures
808 \setbeamercolor{frametitle}{fg=fibeamer@violet}
809 \setbeamercolor{framesubtitle}{fg=black!75!white}
810 %% Text
811 \setbeamercolor{normal text}{fg=black, bg=white}
812 \setbeamercolor{structure}{fg=black, bg=white}
813 \setbeamercolor{alerted text}{fg=fibeamer@brightViolet}
814 \addtobeamertemplate{block begin}{%
815   \iffibeamer@dark % alerted text in plain block at dark slides
816     \setbeamercolor{alerted text}{fg=fibeamer@brightViolet!90!white}%
817   \else % alerted text in plain block at light slides
818     \setbeamercolor{alerted text}{fg=fibeamer@brightViolet!80!white}%
819   \fi}{%
820 %% Items
821 \setbeamercolor{item}{fg=fibeamer@violet}
822 \setbeamercolor{footnote mark}{fg=fibeamer@violet}
823 %% Blocks
824 \setbeamercolor{block title}{
825   use=structure, fg=white, bg=fibeamer@violet!50!white}
826 \setbeamercolor{block title example}{
827   use=example text, fg=white, bg=fibeamer@violet!50!white}
828 \setbeamercolor{block title alerted}{
829   use=alerted text, fg=white, bg=fibeamer@violet}
830 \setbeamercolor{block body}{
831   fg=fibeamer@violet, use=block title, bg=fibeamer@gray!20!white}
832 %% Title
833 \setbeamercolor{title}{fg=white, bg=fibeamer@violet}
834 \setbeamercolor{title}{use=structure}
835 % Code listings
836 \lstset{
837   basicstyle=\footnotesize\ttfamily,
838   breakatwhitespace=false,
839   breaklines=true,
840   commentstyle=\color{green!60!black},
841   extendedchars=true,
842   keywordstyle=\color{blue},
843   showspaces=false,
844   showstringspaces=false,
845   showtabs=false,
846   stringstyle=\color{violet}}
847 \mode
848 <all>

```

4.8 The Faculty of Economics and Administration

4.8.1 The `theme/mu/beamercolorthemefibeamer-econ.sty` file

This is the color theme for presentations written at the Faculty of Economics and Administration at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```
849 \NeedsTeXFormat{LaTeX2e}
850 \ProvidesPackage{fibeamer/theme/mu/%
851   beamercolorthemefibeamer-mu-econ}[2016/01/12]
852 \mode<presentation>
```

This color theme uses the combination of red-brown, gray and white. The `fibeamer@backgroundInner` and `fibeamer@backgroundOuter` colors are used within the background canvas template, which is defined within the color theme of the Masaryk University and which draws the gradient background of dark frames.

```
853 \definecolor{fibeamer@brown}{HTML}{892840}
854 \definecolor{fibeamer@gray}{HTML}{999999}
855 \colorlet{fibeamer@backgroundInner}{fibeamer@brown}
856 \colorlet{fibeamer@backgroundOuter}{fibeamer@brown!60!black}
```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```
857 \renewenvironment{darkframes}{%
858   \begingroup
859     \fibeamer@darktrue
860     %% Structures
861     \setbeamercolor*{frametitle}{fg=fibeamer@brown!30!white}
862     \setbeamercolor*{framesubtitle}{fg=white}
863     %% Text
864     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@brown}
865     \setbeamercolor*{structure}{fg=white, bg=fibeamer@brown}

866     \setbeamercolor*{alerted text}{fg=red!60!white}
867     %% Items
868     \setbeamercolor*{item}{fg=fibeamer@brown!30!white}
869     \setbeamercolor*{footnote mark}{fg=fibeamer@brown!30!white}
870     %% Blocks
871     \setbeamercolor*{block title}{
872       use=structure, fg=white, bg=fibeamer@brown!60!white}
873     \setbeamercolor*{block title example}{
874       use=example text, fg=white, bg=fibeamer@brown!60!white}
875     \setbeamercolor*{block title alerted}{
876       use=alerted text, fg=white, bg=fibeamer@brown!90!white}
877     \setbeamercolor*{block body}{
878       fg=fibeamer@brown, use=block title,
879       bg=fibeamer@gray!15!white}
880     \usebeamercolor*{normal text}
881     % Code listings
882     \lstset{
883       commentstyle=\color{green!30!white},
```

```

884         keywordstyle=\color{blue!30!white},
885         stringstyle=\color{fibeamer@brown!30!white}}
886     }{%
887 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

888 %% Structures
889 \setbeamercolor{frametitle}{fg=fibeamer@brown}
890 \setbeamercolor{framesubtitle}{fg=black!75!white}
891 %% Text
892 \setbeamercolor{normal text}{fg=black, bg=white}
893 \setbeamercolor{structure}{fg=black, bg=white}

894 \setbeamercolor{alerted text}{fg=red}
895 \addtobeamertemplate{block begin}{%
896   \iffibeamer@dark % alerted text in plain block at dark slides
897     \setbeamercolor{alerted text}{fg=red}%
898   \fi}{%
899 %% Items
900 \setbeamercolor{item}{fg=fibeamer@brown}
901 \setbeamercolor{footnote mark}{fg=fibeamer@brown}
902 %% Blocks
903 \setbeamercolor{block title}{
904   use=structure, fg=white, bg=fibeamer@brown!50!white}
905 \setbeamercolor{block title example}{
906   use=example text, fg=white, bg=fibeamer@brown!50!white}
907 \setbeamercolor{block title alerted}{
908   use=alerted text, fg=white, bg=fibeamer@brown}
909 \setbeamercolor{block body}{
910   fg=fibeamer@brown, use=block title, bg=fibeamer@gray!20!white}
911 %% Title
912 \setbeamercolor{title}{fg=white, bg=fibeamer@brown}
913 \setbeamercolor{title}{use=structure}
914 % Code listings
915 \lstset{
916   basicstyle=\footnotesize\ttfamily,
917   breakatwhitespace=false,
918   breaklines=true,
919   commentstyle=\color{green!60!black},
920   extendedchars=true,
921   keywordstyle=\color{blue},
922   showspaces=false,
923   showstringspaces=false,
924   showtabs=false,
925   stringstyle=\color{violet}}
926 \mode
927 <all>

```

4.9 The Faculty of Medicine

4.9.1 The theme/mu/beamercolorthemefibeamer-med.sty file

This is the color theme for presentations written at the Faculty of Medicine at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```
928 \NeedsTeXFormat{LaTeX2e}
929 \ProvidesPackage{fibeamer/theme/mu/%
930 beamercolorthemefibeamer-mu-med}[2016/01/12]
931 \mode<presentation>
```

This color theme uses the combination of red, gray and white. The `fibeamer@backgroundInner` and `fibeamer@backgroundOuter` colors are used within the background canvas template, which is defined within the color theme of the Masaryk University and which draws the gradient background of dark frames.

```
932 \definecolor{fibeamer@red}{HTML}{c82600}
933 \definecolor{fibeamer@brightRed}{HTML}{FF350A}
934 \definecolor{fibeamer@gray}{HTML}{999999}
935 \colorlet{fibeamer@backgroundInner}{fibeamer@red}
936 \colorlet{fibeamer@backgroundOuter}{fibeamer@red!60!black}
```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```
937 \renewenvironment{darkframes}{%
938   \begingroup
939     \fibeamer@darktrue
940     %% Structures
941     \setbeamercolor*{frametitle}{fg=fibeamer@red!30!white}
942     \setbeamercolor*{framesubtitle}{fg=white}
943     %% Text
944     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@red}
945     \setbeamercolor*{structure}{fg=white, bg=fibeamer@red}

946     \setbeamercolor*{alerted text}{%
947       fg=fibeamer@brightRed!60!white!80!yellow}
948     %% Items
949     \setbeamercolor*{item}{fg=fibeamer@red!30!white}
950     \setbeamercolor*{footnote mark}{fg=fibeamer@red!30!white}
951     %% Blocks
952     \setbeamercolor*{block title}{
953       use=structure, fg=white, bg=fibeamer@red!60!white}
954     \setbeamercolor*{block title example}{
955       use=example text, fg=white, bg=fibeamer@red!60!white}
956     \setbeamercolor*{block title alerted}{
957       use=alerted text, fg=white, bg=fibeamer@red!90!white}
958     \setbeamercolor*{block body}{
959       fg=fibeamer@red, use=block title,
960       bg=fibeamer@gray!15!white}
961     \usebeamercolor*{normal text}
962     % Code listings
```

```

963 \lstset{
964     commentstyle=\color{green!30!white},
965     keywordstyle=\color{blue!30!white},
966     stringstyle=\color{fibeamer@red!30!white}}
967 }{%
968 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

969 %% Structures
970 \setbeamercolor{frametitle}{fg=fibeamer@red}
971 \setbeamercolor{framesubtitle}{fg=black!75!white}
972 %% Text
973 \setbeamercolor{normal text}{fg=black, bg=white}
974 \setbeamercolor{structure}{fg=black, bg=white}

975 \setbeamercolor{alerted text}{fg=fibeamer@brightRed}
976 \addtobeamertemplate{block begin}{%
977     \iffibeamer@dark % alerted text in plain block at dark slides
978     \setbeamercolor{alerted text}{%
979         fg=fibeamer@brightRed!80!white!80!yellow}%
980     \else % alerted text in plain block at light slides
981         \setbeamercolor{alerted text}{%
982             fg=fibeamer@brightRed!80!white}%
983     \fi}{%
984 %% Items
985 \setbeamercolor{item}{fg=fibeamer@red}
986 \setbeamercolor{footnote mark}{fg=fibeamer@red}
987 %% Blocks
988 \setbeamercolor{block title}{
989     use=structure, fg=white, bg=fibeamer@red!50!white}
990 \setbeamercolor{block title example}{
991     use=example text, fg=white, bg=fibeamer@red!50!white}
992 \setbeamercolor{block title alerted}{
993     use=alerted text, fg=white, bg=fibeamer@red}
994 \setbeamercolor{block body}{
995     fg=fibeamer@red!90!black, use=block title,
996     bg=fibeamer@gray!20!white}
997 %% Title
998 \setbeamercolor{title}{fg=white, bg=fibeamer@red}
999 \setbeamercolor{title}{use=structure}
1000 % Code listings
1001 \lstset{
1002     basicstyle=\footnotesize\ttfamily,
1003     breakatwhitespace=false,
1004     breaklines=true,
1005     commentstyle=\color{green!60!black},
1006     extendedchars=true,
1007     keywordstyle=\color{blue},
1008     showspaces=false,
1009     showstringspaces=false,

```

```

1010 showtabs=false,
1011 stringstyle=\color{violet}}
1012 \mode
1013 <all>

```

4.10 The Faculty of Sports Studies

4.10.1 The theme/mu/beamercolorthemefibeamer-fsps.sty file

This is the color theme for presentations written at the Faculty of Sports Studies at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```

1014 \NeedsTeXFormat{LaTeX2e}
1015 \ProvidesPackage{fibeamer/theme/mu/%
1016 beamercolorthemefibeamer-mu-fsps}[2016/01/12]
1017 \mode<presentation>

```

This color theme uses the combination of dark blue, gray and white. The `fibeamer@backgroundInner` and `fibeamer@backgroundOuter` colors are used within the background canvas template, which is defined within the color theme of the Masaryk University and which draws the gradient background of dark frames.

```

1018 \definecolor{fibeamer@blue}{HTML}{2053ac}
1019 \definecolor{fibeamer@brightBlue}{HTML}{3998F9}
1020 \definecolor{fibeamer@gray}{HTML}{999999}
1021 \colorlet{fibeamer@backgroundInner}{fibeamer@blue}
1022 \colorlet{fibeamer@backgroundOuter}{fibeamer@blue!60!black}

```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```

1023 \renewenvironment{darkframes}{%
1024 \begingroup
1025 \fibeamer@darktrue
1026 %% Structures
1027 \setbeamercolor*{frametitle}{fg=fibeamer@blue!30!white}
1028 \setbeamercolor*{framesubtitle}{fg=white}
1029 %% Text
1030 \setbeamercolor*{normal text}{fg=white, bg=fibeamer@blue}
1031 \setbeamercolor*{structure}{fg=white, bg=fibeamer@blue}

1032 \setbeamercolor*{alerted text}{fg=fibeamer@brightBlue!60!white}
1033 %% Items
1034 \setbeamercolor*{item}{fg=fibeamer@blue!30!white}
1035 \setbeamercolor*{footnote mark}{fg=fibeamer@blue!30!white}
1036 %% Blocks
1037 \setbeamercolor*{block title}{
1038 use=structure, fg=white, bg=fibeamer@blue!60!white}
1039 \setbeamercolor*{block title example}{
1040 use=example text, fg=white, bg=fibeamer@blue!60!white}
1041 \setbeamercolor*{block title alerted}{
1042 use=alerted text, fg=white, bg=fibeamer@blue!95!white}

```



```

1043 \setbeamercolor*{block body}{
1044     fg=fibeamer@blue, use=block title,
1045     bg=fibeamer@gray!15!white}
1046 \usebeamercolor*{normal text}
1047 % Code listings
1048 \lstset{
1049     commentstyle=\color{green!30!white},
1050     keywordstyle=\color{blue!40!fibeamer@brightBlue!25!white},
1051     stringstyle=\color{red!30!white}}
1052 }{%
1053 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

1054 %% Structures
1055 \setbeamercolor{frametitle}{fg=fibeamer@blue}
1056 \setbeamercolor{framesubtitle}{fg=black!75!white}
1057 %% Text
1058 \setbeamercolor{normal text}{fg=black, bg=white}
1059 \setbeamercolor{structure}{fg=black, bg=white}

1060 \setbeamercolor{alerted text}{fg=fibeamer@brightBlue}
1061 \addtobeamertemplate{block begin}{%
1062     \iffibeamer@dark % alerted text in plain block at dark slides
1063         \setbeamercolor{alerted text}{fg=fibeamer@brightBlue}%
1064     \else % alerted text in plain block at light slides
1065         \setbeamercolor{alerted text}{fg=fibeamer@brightBlue!80!white}%
1066     \fi}{}
1067 %% Items
1068 \setbeamercolor{item}{fg=fibeamer@blue}
1069 \setbeamercolor{footnote mark}{fg=fibeamer@blue}
1070 %% Blocks
1071 \setbeamercolor{block title}{
1072     use=structure, fg=white, bg=fibeamer@blue!50!white}
1073 \setbeamercolor{block title example}{
1074     use=example text, fg=white, bg=fibeamer@blue!50!white}
1075 \setbeamercolor{block title alerted}{
1076     use=alerted text, fg=white, bg=fibeamer@blue}
1077 \setbeamercolor{block body}{
1078     fg=fibeamer@blue, use=block title, bg=fibeamer@gray!20!white}
1079 %% Title
1080 \setbeamercolor{title}{fg=white, bg=fibeamer@blue}
1081 \setbeamercolor{title}{use=structure}
1082 % Code listings
1083 \lstset{
1084     basicstyle=\footnotesize\ttfamily,
1085     breakatwhitespace=false,
1086     breaklines=true,
1087     commentstyle=\color{green!60!black},
1088     extendedchars=true,
1089     keywordstyle=\color{fibeamer@brightBlue!50!fibeamer@blue},

```

```
1090     showspaces=false,  
1091     showstringspaces=false,  
1092     showtabs=false,  
1093     stringstyle=\color{violet}}  
1094 \mode  
1095 <all>
```

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Change History

| | | | | |
|----------|--|----|--|-------------------|
| v1.0.1 | General: Added DVI output support. [VN] | 12 | \fibeamer@logoLocale macro. [VN] | 4 |
| v1.0.2 | General: Added the opt-out microtype option. [VN] | 3 | v1.1.0:3 | |
| v1.0.3 | General: The example documents from the example directory and the user guide from the guide directory are now a part of the CTAN archive. [VN] | 1 | \fibeamer@logo: Added the \fibeamer@fallbackLogo macro. [VN] | 6 |
| v1.0.4 | General: Updated the user guide of the Masaryk University in Brno. [VN] | 1 | v1.1.0:4 | |
| v1.1.0:1 | General: Added the new logo files for the faculties of the Masaryk University in Brno and removed the old logo files. [VN] . . | 1 | General: Length definitions within the themes of the Masaryk University in Brno are no longer based on the dimensions of the (now unused) logo in the upper right corner. [VN] | 13 |
| | The faculty logos are no longer displayed on regular slides, as per the new unified design of the Masaryk University in Brno. [VN] | 13 | v1.1.0:5 | |
| | \fibeamer@locale: Added the locale option and the \fibeamer@locale macro. [VN] | 4 | \fibeamer@includeLogo: Added the \fibeamer@includeLogo macro. [VN] | 7 |
| | \fibeamer@logo: Changed the implicit value of the \fibeamer@logo macro. [VN] | 6 | v1.1.0:6 | |
| v1.1.0:2 | \fibeamer@logoLocale: Added the logoLocale option and the | | General: Added support for the \tableofcontents. [VN] | 11 |
| | | | Added the logo dimension definitions. [VN] | 13 |
| | | | Updated the example documents to showcase the use of the \tableofcontents. [VN] . . . | 1 |
| | | | v1.1.0:7 | |
| | | | General: Added support for \alert. [VN] | 16, 18, 20, 22–33 |
| | | | Updated the example documents to showcase the use of \alert. [VN] | 1 |
| | | | v1.1.0:8 | |
| | | | General: Added support for colored citations. [VN] | 11 |