

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

Vít Novotný

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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 beamer 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  $\text{\LaTeX}$  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<sub>E</sub>X engines, such as pdfT<sub>E</sub>X, LuaT<sub>E</sub>X, and (with only partial support) Xe<sub>L</sub>A<sub>T</sub>E<sub>X</sub>. 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<sub>E</sub>X engine, such as T<sub>E</sub>X or  $\epsilon$ -T<sub>E</sub>X, 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`.

```

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

```

## `\fibeamer@fallbackLogo` 2.13 The `fallbackLogo` option

The `\fibeamer@fallbackLogo` macro contains the filename of the logo file to be used, if `\fibeamer@logo` does not 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`.

```
80 \DeclareOptionBeamer{fallbackLogo}{\def\fibeamer@fallbackLogo{#1}}
81 \def\fibeamer@fallbackLogo{%
82   \fibeamer@logoPath fibeamer-\fibeamer@university-%
83   \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.

```
84 \def\fibeamer@require#1{\IfFileExists{#1.sty}{%
85   \@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`.

```
86 \def\fibeamer@requireTheme#1{%
87   \fibeamer@require{\fibeamer@themePath beamer#1themefibeamer}
88   \fibeamer@require{\fibeamer@themePath\fibeamer@university%
89     /beamer#1themefibeamer-\fibeamer@university}
90   \fibeamer@require{\fibeamer@themePath\fibeamer@university%
91     /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.

```
92 \fibeamer@require{etoolbox}
93 \newcommand\fibeamer@includeLogo[1][{}]{
94   % See <http://tex.stackexchange.com/a/39987/70941>.
```

```

95 \patchcmd{\Gin@ii}% Make ‘\includegraphics’ use ‘@fallbackLogo’.
96 {\begingroup}% <search>
97 {\begingroup\renewcommand{\@latex@error}[2]{%
98   \includegraphics[#1]\fibeamer@fallbackLogo}}% <replace>
99   {}}% <success>
100   {}}% <failure>
101 \includegraphics[#1]\fibeamer@logo}}

```

## 3.2 Main routine

First, the theme processes the options.

```
102 \ProcessOptionsBeamer
```

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

```

103 % Set up the microtypographic extensions
104 \iffibeamer@microtype
105   \RequirePackage{microtype}
106 \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  $\XeTeX$  and  $\LuaTeX$  engines.
- `fontspec` – This package is used to load fonts. This package is only used with the  $\XeTeX$  and  $\LuaTeX$  engines.

```

107 \mode<presentation>
108 % Set up the fonts
109 \iffibeamer@fonts
110   \RequirePackage{ifthen}

```



```

111 \RequirePackage{ifxetex}
112 \RequirePackage{ifluatex}
113 \RequirePackage{lmodern}
114 \RequirePackage[sfdefault,lf]{carlito}
115 \renewcommand*{\oldstylenums[1]}{\carlitoOsF #1}}
116
117 %% Load arev with scaling factor of .85
118 %% See <http://tex.stackexchange.com/a/181240/70941>
119 \DeclareFontFamily{OML}{zavm}{\skewchar\font=127 }
120 \DeclareFontShape{OML}{zavm}{m}{it}{<-> s* [.85] zavmri7m}{}
121 \DeclareFontShape{OML}{zavm}{b}{it}{<-> s* [.85] zavmbi7m}{}
122 \DeclareFontShape{OML}{zavm}{m}{sl}{<->ssub * zavm/m/it}{}
123 \DeclareFontShape{OML}{zavm}{bx}{it}{<->ssub * zavm/b/it}{}
124 \DeclareFontShape{OML}{zavm}{b}{sl}{<->ssub * zavm/b/it}{}
125 \DeclareFontShape{OML}{zavm}{bx}{sl}{<->ssub * zavm/b/sl}{}
126
127 \AtBeginDocument{
128   \SetSymbolFont{operators} {normal}{OT1}{zavm}{m}{n}
129   \SetSymbolFont{letters} {normal}{OML}{zavm}{m}{it}
130   \SetSymbolFont{symbols} {normal}{OMS}{zavm}{m}{n}
131   \SetSymbolFont{largesymbols}{normal}{OMX}{iwona}{m}{n}}
132 \RequirePackage[sans]{dsfont}
133
134 \ifthenelse{\boolean{xetex}\OR\boolean{luatex}}{
135   \RequirePackage{fontspec}
136   \setmonofont[Scale=0.85,Ligatures=TeX]{DejaVu Sans Mono}
137 }{
138   \usepackage[scaled=0.85]{DejaVuSansMono}
139   \RequirePackage[resetfonts]{cmap}
140   \RequirePackage[T1]{fontenc}
141 }
142 \RequirePackage{setspace}
143 \setstretch{1.15}
144 \fi
145 \mode
146 <all>

```

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

```

147 \fibeamer@requireTheme{color}
148 \fibeamer@requireTheme{font}
149 \fibeamer@requireTheme{inner}
150 \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` 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.

## 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.

```
151 \NeedsTeXFormat{LaTeX2e}
152 \ProvidesPackage{fibeamer/theme/mu/%
153   beamercolorthemefibeamer-mu}[2016/01/14]
```

`\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.

```
154 \newenvironment{darkframes}{}{}
```

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

```
155 \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.

```
156 \RequirePackage{listings}
157 \RequirePackage{ifthen}
158 \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.

```
159 \newif\iffibeamer@dark\iffibeamer@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.

```
160 \defbeamer*template*{background canvas}{fibeamer}{%
161   \ifthenelse{%
162     \boolean{fibeamer@dark} \OR \c@framenummer=0
```

```

163 }{%
164   \begin{tikzpicture}
165     \clip (0,\fibeamer@lengths@clipbottom) rectangle
166       (\paperwidth,\fibeamer@lengths@cliptop);
167     \path [inner color = fibeamer@backgroundInner,
168           outer color = fibeamer@backgroundOuter]
169       (0,0) rectangle (\paperwidth,\paperwidth);
170   \end{tikzpicture}
171 }{}}

```

The `\qed` symbol inserted at the end of proofs will have the same color as the rest of the proof.

```

172 \setbeamercolor{qed symbol}{%
173   use=block body,
174   fg=block body.fg,
175   bg=block body.bg}
176 \mode
177 <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.

```

178 \NeedsTeXFormat{LaTeX2e}
179 \ProvidesPackage{fibeamer/theme/mu/%
180   beamerfontthemefibeamer-mu}[2016/01/12]
181 \mode<presentation>
182 \setbeamerfont{normal text}{size=\normalsize}
183 \setbeamerfont{title}{size=\LARGE, series=\bfseries}
184 \setbeamerfont{subtitle}{parent=normal text, size=\Large}
185 \setbeamerfont{frametitle}{size=\Large}
186 \setbeamerfont{framesubtitle}{size=\large, shape=\itshape}
187 \setbeamerfont{description item}{series=\bfseries}
188 \setbeamerfont{author}{size=\large}
189 \mode
190 <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.

```

191 \NeedsTeXFormat{LaTeX2e}
192 \ProvidesPackage{fibeamer/theme/mu/%
193   beamerinnerthemefibeamer-mu}[2016/01/14]
194 \mode<presentation>

```

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

```

195 \defbeamertemplate*{itemize item}{fibeamer}{\bullet$}
196 \defbeamertemplate*{itemize subitem}{fibeamer}{\---}
197 \defbeamertemplate*{itemize subsubitem}{fibeamer}{\guillemotright}

```

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

```

198 \defbeamertemplate*{bibliography item}{fibeamer}{\insertbiblabel}
199 \AtBeginDocument{%
200   \let\fibeamer@oldcite\cite
201   \def\cite#1{%
202     \usebeamercolor[fg]{item}%
203     \fibeamer@oldcite{#1}}}
```

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

```

204 \defbeamertemplate*{section in toc}{fibeamer}{%
205   \usebeamercolor[fg]{item}%
206   \inserttocsectionnumber.%
207   \usebeamercolor[fg]{structure}%
208   \kern1.25ex\inserttocsection\par}
209 \defbeamertemplate*{subsection in toc}{fibeamer}{%
210   \hspace\leftmargini
211   \usebeamercolor[fg]{item}%
212   \inserttocsectionnumber.\inserttocsubsectionnumber%
213   \usebeamercolor[fg]{structure}%
214   \kern1.25ex\inserttocsubsection\par}
215 \defbeamertemplate*{subsubsection in toc}{fibeamer}{%
216   \hspace\leftmargini
217   \hspace\leftmarginii
218   \usebeamercolor[fg]{item}%
219   \inserttocsectionnumber.\inserttocsubsectionnumber.%
220   \inserttocsubsubsectionnumber%
221   \usebeamercolor[fg]{structure}%
222   \kern1.25ex\inserttocsubsubsection\par}
223 \mode
224 <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.

```

225 \NeedsTeXFormat{LaTeX2e}
226 \ProvidesPackage{fibeamer/theme/mu/%
227   beamerouterthemefibeamer-mu}[2016/01/12]
228 \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.

```

229 \RequirePackage{ifthen}
230 \RequirePackage{ifpdf}
231 \ifpdf\else
232   \@ifundefined{pdfpagewidth}{\newdimen\pdfpagewidth}{}
233   \@ifundefined{pdfpageheight}{\newdimen\pdfpageheight}{}
234   \pdfpagewidth=\paperwidth
235   \pdfpageheight=\paperheight
236 \fi
237 \RequirePackage{tikz}
238 \RequirePackage{pgfcore}

```

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

```

239 \newlength\fibeamers@lengths@baseunit
240 \fibeamers@lengths@baseunit=3.75mm
241 % The footer padding
242 \newlength\fibeamers@lengths@footerpad
243 \setlength\fibeamers@lengths@footerpad{%
244   \fibeamers@lengths@baseunit}
245 % The side margins
246 \newlength\fibeamers@lengths@margin
247 \setlength\fibeamers@lengths@margin{%
248   3\fibeamers@lengths@baseunit}
249 \setbeamersize{
250   text margin left=\fibeamers@lengths@margin,
251   text margin right=\fibeamers@lengths@margin}
252 % The upper margin
253 \newlength\fibeamers@lengths@titleline
254 \setlength\fibeamers@lengths@titleline{%
255   3\fibeamers@lengths@baseunit}
256 % The background clipping
257 \newlength\fibeamers@lengths@clipbottom
258 \setlength\fibeamers@lengths@clipbottom\paperwidth
259 \addtolength\fibeamers@lengths@clipbottom{-\paperheight}
260 \setlength\fibeamers@lengths@clipbottom{%
261   0.5\fibeamers@lengths@clipbottom}
262 \newlength\fibeamers@lengths@cliptop
263 \setlength\fibeamers@lengths@cliptop\paperwidth
264 \addtolength\fibeamers@lengths@cliptop{%
265   -\fibeamers@lengths@clipbottom}

266 % The logo size
267 \newlength\fibeamers@lengths@logowidth
268 \setlength\fibeamers@lengths@logowidth{%
269   14\fibeamers@lengths@baseunit}
270 \newlength\fibeamers@lengths@logoheight
271 \setlength\fibeamers@lengths@logoheight{%
272   0.4\fibeamers@lengths@logowidth}

```

The outer theme completely culls the bottom navigation.

```
273 \defbeamertemplate*{navigation symbols}{fibeamer}{}{}
```

The outer theme also culls the headline.

```
274 \defbeamertemplate*{headline}{fibeamer}{}{}
```

The frame title.

```
275 \defbeamertemplate*{frametitle}{fibeamer}{%
276   \vskip-1em % Align the text with the top border
277   \vskip\fibeamer@lengths@titleline
278   \usebeamercolor[fg]{frametitle}%
279   \usebeamerfont{frametitle}%
280   \insertframetitle\par%
281   \usebeamercolor[fg]{framesubtitle}%
282   \usebeamerfont{framesubtitle}%
283   \insertframesubtitle}
```

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

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

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

```
296 \defbeamertemplate*{title page}{fibeamer}{%
297   % This is slide 0
298   \setcounter{framenum}{0}
299
300   % Input the university logo
301   \begin{tikzpicture}[
302     remember picture,
303     overlay,
304     xshift=0.5\fibeamer@lengths@logowidth,
305     yshift=0.5\fibeamer@lengths@logoheight
306   ]
307     \node at (0,0) {
308       \fibeamer@includeLogo[
309         width=\fibeamer@lengths@logowidth,
310         height=\fibeamer@lengths@logoheight
311       ]};
312   \end{tikzpicture}
313
314   % Input the title
```

```

315 \usebeamerfont{title}%
316 \usebeamercolor[fg]{title}%
317 \begin{minipage}[b][2\baselineskip][b]{\textwidth}%
318   \raggedright%
319   \inserttitle%
320 \end{minipage}
321 \vskip-.5\baselineskip
322
323 % Input the dashed line
324 \begin{pgfpicture}
325   \pgfsetlinewidth{2pt}
326   \pgfsetroundcap
327   \pgfsetdash{{0pt}{4pt}}{{0cm}}
328
329   \pgfpathmoveto{\pgfpoint{0mm}{0mm}}
330   \pgfpathlineto{\pgfpoint{\textwidth}{0mm}}
331
332   \pgfusepath{stroke}
333 \end{pgfpicture}
334 \vfill
335
336 % Input the subtitle
337 \usebeamerfont{subtitle}%
338 \begin{minipage}{\textwidth}
339   \raggedright%
340   \insertsubtitle%
341 \end{minipage}\vskip.25\baselineskip
342
343 % Input the author's name
344 \usebeamerfont{author}%
345 \begin{minipage}{\textwidth}
346   \raggedright%
347   \insertauthor%
348 \end{minipage}}
349
350 \mode
351 <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.

```

352 \NeedsTeXFormat{LaTeX2e}
353 \ProvidesPackage{fibeamer/theme/mu/%
354   beamercolorthemefibeamer-mu-fi}[2016/01/14]
355 \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.

```

356 \definecolor{fibeamer@gold}{HTML}{a47312}
357 \definecolor{fibeamer@yellow}{HTML}{FFEB9C}
358 \definecolor{fibeamer@darkYellow}{HTML}{FFB600}
359 \definecolor{fibeamer@orange}{HTML}{FF5500}
360 \definecolor{fibeamer@gray}{HTML}{999999}
361 \colorlet{fibeamer@blue}{blue!60!fibeamer@gray}
362 \colorlet{fibeamer@backgroundInner}{fibeamer@gold}
363 \colorlet{fibeamer@backgroundOuter}{fibeamer@gold!60!black}

```

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

```

364 \renewenvironment{darkframes}{%
365   \begingroup
366     \fibeamer@darktrue
367     %% Structures
368     \setbeamercolor*{frametitle}{fg=fibeamer@gold!30!white}
369     \setbeamercolor*{framesubtitle}{fg=white}
370     %% Text
371     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@gold}
372     \setbeamercolor*{structure}{fg=white, bg=fibeamer@gold}

373     \setbeamercolor*{alerted text}{%
374       fg=fibeamer@gold!70!white!20!fibeamer@darkYellow}
375     %% Items
376     \setbeamercolor*{item}{fg=fibeamer@gold!30!white}
377     \setbeamercolor*{footnote mark}{fg=fibeamer@gold!30!white}
378     %% Blocks
379     \setbeamercolor*{block title}{%
380       fg=white, bg=fibeamer@gold!60!white}
381     \setbeamercolor*{block title example}{%
382       fg=white, bg=fibeamer@gold!60!white}
383     \setbeamercolor*{block title alerted}{%
384       fg=white, bg=fibeamer@gold!90!white}
385     \setbeamercolor*{block body}{%
386       fg=fibeamer@gold,
387       bg=fibeamer@gray!15!white}
388     \usebeamercolor*{normal text}
389     % Code listings
390     \lstset{%
391       commentstyle=\color{green!30!white},
392       keywordstyle=\color{blue!30!white},
393       stringstyle=\color{fibeamer@gold!30!white}}
394   }{%
395   \endgroup}

```



Outside the darkframes environment, the light theme is used.

```
396 %% Structures
397 \setbeamercolor{frametitle}{fg=black!75!white}
398 \setbeamercolor{framesubtitle}{fg=black!50!white}
399 %% Text
400 \setbeamercolor{normal text}{fg=black!75!white, bg=white}
401 \setbeamercolor{structure}{fg=black!75!white, bg=white}

402 \setbeamercolor{alerted text}{fg=fibeamer@orange}
403 \addtobeamertemplate{block begin}{%
404   \iffibeamer@dark % alerted text in plain block at dark slides
405     \setbeamercolor{alerted text}{%
406       fg=fibeamer@gold!30!fibeamer@darkYellow}%
407   \fi}{%
408 %% Items
409 \setbeamercolor{item}{fg=fibeamer@darkYellow}
410 \setbeamercolor{footnote mark}{fg=fibeamer@darkYellow}
411 %% Blocks
412 \setbeamercolor{block title}{%
413   fg=black!75!white, bg=fibeamer@yellow}
414 \setbeamercolor{block title example}{%
415   fg=black!75!white, bg=fibeamer@yellow}
416 \setbeamercolor{block title alerted}{%
417   fg=white, bg=black!75!white}
418 \setbeamercolor{block body}{%
419   fg=fibeamer@yellow, bg=black!75!white}
420 %% Title
421 \setbeamercolor{title}{fg=white, bg=fibeamer@gold}
422 % Code listings
423 \lstset{%
424   basicstyle=\footnotesize\ttfamily,
425   breakatwhitespace=false,
426   breaklines=true,
427   commentstyle=\color{green!60!black},
428   extendedchars=true,
429   keywordstyle=\color{fibeamer@blue},
430   showspaces=false,
431   showstringspaces=false,
432   showtabs=false,
433   stringstyle=\color{violet}}
434 \mode
435 <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.

```

436 \NeedsTeXFormat{LaTeX2e}
437 \ProvidesPackage{fibeamer/theme/mu/%
438   beamercolorthemefibeamer-mu-sci}[2016/01/14]
439 \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.

```

440 \definecolor{fibeamer@green}{HTML}{139632}
441 \definecolor{fibeamer@gray}{HTML}{999999}
442 \definecolor{fibeamer@brightGreen}{HTML}{2ECE0F}
443 \colorlet{fibeamer@backgroundInner}{fibeamer@green!90!black}
444 \colorlet{fibeamer@backgroundOuter}{fibeamer@green!60!black}

```

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

```

445 \renewenvironment{darkframes}{%
446   \begingroup
447     \fibeamer@darktrue
448     %% Structures
449     \setbeamercolor*{frametitle}{fg=fibeamer@green!30!white}
450     \setbeamercolor*{framesubtitle}{fg=white}
451     %% Text
452     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@green}
453     \setbeamercolor*{structure}{fg=white, bg=fibeamer@green}

454     \setbeamercolor*{alerted text}{%
455       fg=fibeamer@brightGreen!75!white}
456     %% Items
457     \setbeamercolor*{item}{fg=fibeamer@green!30!white}
458     \setbeamercolor*{footnote mark}{fg=fibeamer@green!30!white}
459     %% Blocks
460     \setbeamercolor*{block title}{%
461       fg=white, bg=fibeamer@green!60!white}
462     \setbeamercolor*{block title example}{%
463       fg=white, bg=fibeamer@green!60!white}
464     \setbeamercolor*{block title alerted}{%
465       fg=white, bg=fibeamer@green}
466     \setbeamercolor*{block body}{%
467       fg=fibeamer@green,
468       bg=fibeamer@gray!15!white}
469     \usebeamercolor*{normal text}
470     % Code listings
471     \lstset{%
472       commentstyle=\color{green!30!white},
473       keywordstyle=\color{blue!30!white},
474       stringstyle=\color{red!30!white}}
475   }{%
476   \endgroup}

```

Outside the darkframes environment, the light theme is used.

```
477 %% Structures
478 \setbeamercolor{frametitle}{fg=fibeamer@green}
479 \setbeamercolor{framesubtitle}{fg=black!75!white}
480 %% Text
481 \setbeamercolor{normal text}{fg=black, bg=white}
482 \setbeamercolor{structure}{fg=black, bg=white}

483 \setbeamercolor{alerted text}{fg=fibeamer@brightGreen}
484 \addtobeamertemplate{block begin}{%
485   \iffibeamer@dark % alerted text in plain block at dark slides
486     \setbeamercolor{alerted text}{fg=fibeamer@brightGreen!90!white}%
487   \else % alerted text in plain block at light slides
488     \setbeamercolor{alerted text}{fg=fibeamer@brightGreen!80!white}%
489   \fi}{}
490 %% Items
491 \setbeamercolor{item}{fg=fibeamer@green}
492 \setbeamercolor{footnote mark}{fg=fibeamer@green}
493 %% Blocks
494 \setbeamercolor{block title}{%
495   fg=white, bg=fibeamer@green!50!white}
496 \setbeamercolor{block title example}{%
497   fg=white, bg=fibeamer@green!50!white}
498 \setbeamercolor{block title alerted}{%
499   fg=white, bg=fibeamer@green}
500 \setbeamercolor{block body}{%
501   fg=fibeamer@green, bg=fibeamer@gray!20!white}
502 %% Title
503 \setbeamercolor{title}{fg=white, bg=fibeamer@green}
504 % Code listings
505 \lstset{%
506   basicstyle=\footnotesize\ttfamily,
507   breakatwhitespace=false,
508   breaklines=true,
509   commentstyle=\color{green!60!black},
510   extendedchars=true,
511   keywordstyle=\color{blue},
512   showspaces=false,
513   showstringspaces=false,
514   showtabs=false,
515   stringstyle=\color{violet}}
516 \mode
517 <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.

```
518 \NeedsTeXFormat{LaTeX2e}
519 \ProvidesPackage{fibeamer/theme/mu/%
520   beamercolorthemefibeamer-mu-phil}[2016/01/14]
521 \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.

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

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

```
527 \renewenvironment{darkframes}{%
528   \begin{group}
529     \fibeamer@darktrue
530     %% Structures
531     \setbeamercolor*{frametitle}{fg=fibeamer@blue!30!white}
532     \setbeamercolor*{framesubtitle}{fg=white}
533     %% Text
534     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@blue}
535     \setbeamercolor*{structure}{fg=white, bg=fibeamer@blue}

536     \setbeamercolor*{alerted text}{fg=fibeamer@brightBlue!75!white}
537     %% Items
538     \setbeamercolor*{item}{fg=fibeamer@blue!30!white}
539     \setbeamercolor*{footnote mark}{fg=fibeamer@blue!30!white}
540     %% Blocks
541     \setbeamercolor*{block title}{%
542       fg=white, bg=fibeamer@blue!60!white}
543     \setbeamercolor*{block title example}{%
544       fg=white, bg=fibeamer@blue!60!white}
545     \setbeamercolor*{block title alerted}{%
546       fg=white, bg=fibeamer@blue}
547     \setbeamercolor*{block body}{%
548       fg=fibeamer@blue,
549       bg=fibeamer@gray!15!white}
550     \usebeamercolor*{normal text}
551     % Code listings
552     \lstset{%
553       commentstyle=\color{green!30!white},
554       keywordstyle=\color{fibeamer@blue!30!white},
555       stringstyle=\color{red!30!white}}
556   }{%
557     \end{group}}
```

Outside the darkframes environment, the light theme is used.

```
558 %% Structures
559 \setbeamercolor{frametitle}{fg=fibeamer@blue}
560 \setbeamercolor{framesubtitle}{fg=black!75!white}
561 %% Text
562 \setbeamercolor{normal text}{fg=black, bg=white}
563 \setbeamercolor{structure}{fg=black, bg=white}

564 \setbeamercolor{alerted text}{fg=fibeamer@brightBlue}
565 \addtobeamertemplate{block begin}{%
566   \iffibeamer@dark % alerted text in plain block at dark slides
567     \setbeamercolor{alerted text}{fg=fibeamer@brightBlue}%
568   \else % alerted text in plain block at light slides
569     \setbeamercolor{alerted text}{fg=fibeamer@brightBlue!80!white}%
570   \fi}{}
571 %% Items
572 \setbeamercolor{item}{fg=fibeamer@blue}
573 \setbeamercolor{footnote mark}{fg=fibeamer@blue}
574 %% Blocks
575 \setbeamercolor{block title}{%
576   fg=white, bg=fibeamer@blue!50!white}
577 \setbeamercolor{block title example}{%
578   fg=white, bg=fibeamer@blue!50!white}
579 \setbeamercolor{block title alerted}{%
580   fg=white, bg=fibeamer@blue}
581 \setbeamercolor{block body}{%
582   fg=fibeamer@blue, bg=fibeamer@gray!20!white}
583 %% Title
584 \setbeamercolor{title}{fg=white, bg=fibeamer@blue}
585 % Code listings
586 \lstset{%
587   basicstyle=\footnotesize\ttfamily,
588   breakatwhitespace=false,
589   breaklines=true,
590   commentstyle=\color{green!60!black},
591   extendedchars=true,
592   keywordstyle=\color{fibeamer@blue},
593   showspaces=false,
594   showstringspaces=false,
595   showtabs=false,
596   stringstyle=\color{violet}}
597 \mode
598 <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.

```
599 \NeedsTeXFormat{LaTeX2e}
600 \ProvidesPackage{fibeamer/theme/mu/%
601   beamercolorthemefibeamer-mu-ped}[2016/01/14]
602 \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@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.

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

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

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

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

```

638     keywordstyle=\color{blue!30!white},
639     stringstyle=\color{fibeamer@gold!30!white}}
640   }{%
641   \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

642 %% Structures
643 \setbeamercolor{frametitle}{fg=fibeamer@darkOrange}
644 \setbeamercolor{framesubtitle}{fg=black!60!white}
645 %% Text
646 \setbeamercolor{normal text}{fg=black!75!white, bg=white}
647 \setbeamercolor{structure}{fg=black!75!white, bg=white}

648 \setbeamercolor{alerted text}{fg=fibeamer@brightOrange}
649 \addtobeamertemplate{block begin}{%
650   \iffibeamer@dark % alerted text in plain block at dark slides
651     \setbeamercolor{alerted text}{%
652       fg=white!20!fibeamer@brightOrange}%
653   \else % alerted text in plain block at light slides
654     \setbeamercolor{alerted text}{%
655       fg=white!20!fibeamer@brightOrange}%
656   \fi}{%}
657 %% Items
658 \setbeamercolor{item}{fg=fibeamer@darkOrange}
659 \setbeamercolor{footnote mark}{fg=fibeamer@darkOrange}
660 %% Blocks
661 \setbeamercolor{block title}{%
662   fg=black!75!white, bg=fibeamer@orange}
663 \setbeamercolor{block title example}{%
664   fg=black!75!white, bg=fibeamer@orange}
665 \setbeamercolor{block title alerted}{%
666   fg=white, bg=black!75!white}
667 \setbeamercolor{block body}{%
668   fg=fibeamer@orange, bg=black!75!white}
669 %% Title
670 \setbeamercolor{title}{fg=white, bg=fibeamer@gold}
671 % Code listings
672 \lstset{%
673   basicstyle=\footnotesize\ttfamily,
674   breakatwhitespace=false,
675   breaklines=true,
676   commentstyle=\color{green!60!black},
677   extendedchars=true,
678   keywordstyle=\color{blue},
679   showspaces=false,
680   showstringspaces=false,
681   showtabs=false,
682   stringstyle=\color{violet}}
683 \mode
684 <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.

```
685 \NeedsTeXFormat{LaTeX2e}
686 \ProvidesPackage{fibeamer/theme/mu/%
687   beamercolorthemefibeamer-mu-fss}[2016/01/14]
688 \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.

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

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

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



```

720     commentstyle=\color{green!30!white},
721     keywordstyle=\color{blue!30!white},
722     stringstyle=\color{red!30!white}}
723   }{%
724   \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

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

731 \setbeamercolor{alerted text}{fg=fibeamer@brightCyan}
732 \addtobeamertemplate{block begin}{%
733   \iffibeamer@dark % alerted text in plain block at dark slides
734     \setbeamercolor{alerted text}{fg=fibeamer@brightCyan}%
735   \else % alerted text in plain block at light slides
736     \setbeamercolor{alerted text}{fg=fibeamer@brightCyan!80!white}%
737   \fi}{%}
738 %% Items
739 \setbeamercolor{item}{fg=fibeamer@cyan}
740 \setbeamercolor{footnote mark}{fg=fibeamer@cyan}
741 %% Blocks
742 \setbeamercolor{block title}{%
743   fg=white, bg=fibeamer@cyan!50!white}
744 \setbeamercolor{block title example}{%
745   fg=white, bg=fibeamer@cyan!50!white}
746 \setbeamercolor{block title alerted}{%
747   fg=white, bg=fibeamer@cyan}
748 \setbeamercolor{block body}{%
749   fg=fibeamer@cyan, bg=fibeamer@gray!20!white}
750 %% Title
751 \setbeamercolor{title}{fg=white, bg=fibeamer@cyan}
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}[2016/01/14]
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       fg=white, bg=fibeamer@violet!60!white}
792     \setbeamercolor*{block title example}{%
793       fg=white, bg=fibeamer@violet!60!white}
794     \setbeamercolor*{block title alerted}{%
795       fg=white, bg=fibeamer@violet!90!white}
796     \setbeamercolor*{block body}{%
797       fg=fibeamer@violet,
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   fg=white, bg=fibeamer@violet!50!white}
826 \setbeamercolor{block title example}{%
827   fg=white, bg=fibeamer@violet!50!white}
828 \setbeamercolor{block title alerted}{%
829   fg=white, bg=fibeamer@violet}
830 \setbeamercolor{block body}{%
831   fg=fibeamer@violet, bg=fibeamer@gray!20!white}
832 %% Title
833 \setbeamercolor{title}{fg=white, bg=fibeamer@violet}
834 % Code listings
835 \lstset{%
836   basicstyle=\footnotesize\ttfamily,
837   breakatwhitespace=false,
838   breaklines=true,
839   commentstyle=\color{green!60!black},
840   extendedchars=true,
841   keywordstyle=\color{blue},
842   showspaces=false,
843   showstringspaces=false,
844   showtabs=false,
845   stringstyle=\color{violet}}
846 \mode
847 <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.

```
848 \NeedsTeXFormat{LaTeX2e}
849 \ProvidesPackage{fibeamer/theme/mu/%
850   beamercolorthemefibeamer-mu-econ}[2016/01/14]
851 \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.

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

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

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

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

```

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

```

Outside the darkframes environment, the light theme is used.

```

887 %% Structures
888 \setbeamercolor{frametitle}{fg=fibeamer@brown}
889 \setbeamercolor{framesubtitle}{fg=black!75!white}
890 %% Text
891 \setbeamercolor{normal text}{fg=black, bg=white}
892 \setbeamercolor{structure}{fg=black, bg=white}

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

```
926 \NeedsTeXFormat{LaTeX2e}
927 \ProvidesPackage{fibeamer/theme/mu/%
928   beamercolorthemefibeamer-mu-med}[2016/01/14]
929 \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.

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

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

```
935 \renewenvironment{darkframes}{%
936   \begingroup
937     \fibeamer@darktrue
938     %% Structures
939     \setbeamercolor*{frametitle}{fg=fibeamer@red!30!white}
940     \setbeamercolor*{framesubtitle}{fg=white}
941     %% Text
942     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@red}
943     \setbeamercolor*{structure}{fg=white, bg=fibeamer@red}
944     \setbeamercolor*{alerted text}{%
945       fg=fibeamer@brightRed!60!white!80!yellow}
946     %% Items
947     \setbeamercolor*{item}{fg=fibeamer@red!30!white}
948     \setbeamercolor*{footnote mark}{fg=fibeamer@red!30!white}
949     %% Blocks
950     \setbeamercolor*{block title}{%
951       fg=white, bg=fibeamer@red!60!white}
952     \setbeamercolor*{block title example}{%
953       fg=white, bg=fibeamer@red!60!white}
954     \setbeamercolor*{block title alerted}{%
955       fg=white, bg=fibeamer@red!90!white}
956     \setbeamercolor*{block body}{%
957       fg=fibeamer@red,
958       bg=fibeamer@gray!15!white}
959     \usebeamercolor*{normal text}
960     % Code listings
```

```

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

```

Outside the darkframes environment, the light theme is used.

```

967 %% Structures
968 \setbeamercolor{frametitle}{fg=fibeamer@red}
969 \setbeamercolor{framesubtitle}{fg=black!75!white}
970 %% Text
971 \setbeamercolor{normal text}{fg=black, bg=white}
972 \setbeamercolor{structure}{fg=black, bg=white}

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

```

```

1008     stringstyle=\color{violet}}
1009 \mode
1010 <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.

```

1011 \NeedsTeXFormat{LaTeX2e}
1012 \ProvidesPackage{fibeamer/theme/mu/%
1013   beamercolorthemefibeamer-mu-fsps}[2016/01/14]
1014 \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.

```

1015 \definecolor{fibeamer@blue}{HTML}{2053ac}
1016 \definecolor{fibeamer@brightBlue}{HTML}{3998F9}
1017 \definecolor{fibeamer@gray}{HTML}{999999}
1018 \colorlet{fibeamer@backgroundInner}{fibeamer@blue}
1019 \colorlet{fibeamer@backgroundOuter}{fibeamer@blue!60!black}

```

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

```

1020 \renewenvironment{darkframes}{%
1021   \begingroup
1022     \fibeamer@darktrue
1023     %% Structures
1024     \setbeamercolor*{frametitle}{fg=fibeamer@blue!30!white}
1025     \setbeamercolor*{framesubtitle}{fg=white}
1026     %% Text
1027     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@blue}
1028     \setbeamercolor*{structure}{fg=white, bg=fibeamer@blue}

1029     \setbeamercolor*{alerted text}{fg=fibeamer@brightBlue!60!white}
1030     %% Items
1031     \setbeamercolor*{item}{fg=fibeamer@blue!30!white}
1032     \setbeamercolor*{footnote mark}{fg=fibeamer@blue!30!white}
1033     %% Blocks
1034     \setbeamercolor*{block title}{%
1035       fg=white, bg=fibeamer@blue!60!white}
1036     \setbeamercolor*{block title example}{%
1037       fg=white, bg=fibeamer@blue!60!white}
1038     \setbeamercolor*{block title alerted}{%
1039       fg=white, bg=fibeamer@blue!95!white}
1040     \setbeamercolor*{block body}{%

```



```

1041         fg=fibeamer@blue,
1042         bg=fibeamer@gray!15!white}
1043     \usebeamercolor*{normal text}
1044     % Code listings
1045     \lstset{%
1046         commentstyle=\color{green!30!white},
1047         keywordstyle=\color{blue!40!fibeamer@brightBlue!25!white},
1048         stringstyle=\color{red!30!white}}
1049     }{%
1050     \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

1051 %% Structures
1052 \setbeamercolor{frametitle}{fg=fibeamer@blue}
1053 \setbeamercolor{framesubtitle}{fg=black!75!white}
1054 %% Text
1055 \setbeamercolor{normal text}{fg=black, bg=white}
1056 \setbeamercolor{structure}{fg=black, bg=white}

1057 \setbeamercolor{alerted text}{fg=fibeamer@brightBlue}
1058 \addtobeamertemplate{block begin}{%
1059     \iffibeamer@dark % alerted text in plain block at dark slides
1060         \setbeamercolor{alerted text}{fg=fibeamer@brightBlue}%
1061     \else % alerted text in plain block at light slides
1062         \setbeamercolor{alerted text}{fg=fibeamer@brightBlue!80!white}%
1063     \fi}{}
1064 %% Items
1065 \setbeamercolor{item}{fg=fibeamer@blue}
1066 \setbeamercolor{footnote mark}{fg=fibeamer@blue}
1067 %% Blocks
1068 \setbeamercolor{block title}{%
1069     fg=white, bg=fibeamer@blue!50!white}
1070 \setbeamercolor{block title example}{%
1071     fg=white, bg=fibeamer@blue!50!white}
1072 \setbeamercolor{block title alerted}{%
1073     fg=white, bg=fibeamer@blue}
1074 \setbeamercolor{block body}{%
1075     fg=fibeamer@blue, bg=fibeamer@gray!20!white}
1076 %% Title
1077 \setbeamercolor{title}{fg=white, bg=fibeamer@blue}
1078 % Code listings
1079 \lstset{%
1080     basicstyle=\footnotesize\ttfamily,
1081     breakatwhitespace=false,
1082     breaklines=true,
1083     commentstyle=\color{green!60!black},
1084     extendedchars=true,
1085     keywordstyle=\color{fibeamer@brightBlue!50!fibeamer@blue},
1086     showspaces=false,
1087     showstringspaces=false,

```

```

1088     showtabs=false,
1089     stringstyle=\color{violet}}
1090 \mode
1091 <all>

```

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## Change History

v1.0.1	General: Added DVI output support. [VN] . . . . . 12	macro. [VN] . . . . . 7
v1.0.2	General: Added the opt-out microtype option. [VN] . . . . . 3	v1.1.0:4
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	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
v1.0.4	General: Updated the user guide of the Masaryk University in Brno. [VN] . . . . . 1	v1.1.0:5
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	<code>\fibeamer@includeLogo</code> : Added the <code>\fibeamer@includeLogo</code> macro. [VN] . . . . . 7
	The faculty logos are no longer displayed on regular slides, as per the new unified design of the Masaryk University in Brno. [VN] . . . . . 14	v1.1.0:6
	<code>\fibeamer@locale</code> : Added the locale option and the <code>\fibeamer@locale</code> macro. [VN] . . . . . 4	General: Added support for the <code>\tableofcontents</code> to the themes of the Masaryk University in Brno. [VN] . . . . . 12
	<code>\fibeamer@logo</code> : Changed the implicit value of the <code>\fibeamer@logo</code> macro. [VN] . . . . . 6	Added the logo dimension definitions to the themes of the Masaryk University in Brno. [VN] . . . . . 13
v1.1.0:2	<code>\fibeamer@logoLocale</code> : Added the <code>logoLocale</code> option and the <code>\fibeamer@logoLocale</code> macro. [VN] . . . . . 4	Updated the example documents of the Masaryk University in Brno to showcase the use of the <code>\tableofcontents</code> . [VN] . . . . . 1
v1.1.0:3	<code>\fibeamer@fallbackLogo</code> : Added the <code>\fibeamer@fallbackLogo</code>	v1.1.0:7
		General: Added support for <code>\alert</code> to the themes of the Masaryk University in Brno. [VN] . . 16–33
		Updated the example documents of the Masaryk University in Brno to showcase the use of <code>\alert</code> . [VN] . . . . . 1
		v1.1.0:8
		General: Added support for colored citations to the themes of the Masaryk University in Brno. [VN] . . . . . 12
		v1.1.1:1
		<code>\fibeamer@fallbackLogo</code> : Added

the fallbackLogo option. [VN]	. 7	
v1.1.1:2		
General: Added proper coloring		
of \qed to the themes of the		
Masaryk University in Brno.		
[VN]	11	
v1.1.1:3		
General: Refactored the themes		
		of the Masaryk University in
		Brno. Removed the useless uses
		of use in the color themes. Re-
		placed \setbeamertemplate in
		the inner theme with the more
		appropriate \defbeamertemplate*.
		Added missing %s. [VN]
		1