

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 beamer themes as well as information for ordinary users.

Contents

1	Basic usage	2
2	Package options	2
2.1	The fonts option	2
2.2	The nofonts option	3
2.3	The microtype option	3
2.4	The nomicrotype option	3
2.5	The university option	3
2.6	The faculty option	3
2.7	The locale option	4
2.8	The logoLocale option	4
2.9	The basePath option	4
2.10	The themePath option	6
2.11	The logoPath option	6
2.12	The logo option	6
2.13	The fallbackLogo option	7
3	Logic	7
3.1	Macros	7
3.2	Main routine	8

4	Themes	10
4.1	Base files	10
4.1.1	The theme/mu/beamercolorthemefibeamer-mu.sty file	10
4.1.2	The theme/mu/beamerfontthemefibeamer-mu.sty file	12
4.1.3	The theme/mu/beamerinnerthemefibeamer-mu.sty file	12
4.1.4	The theme/mu/beamerouterthemefibeamer-mu.sty file	13
4.2	The Faculty of Informatics	16
4.2.1	The theme/mu/beamercolorthemefibeamer-fi.sty file	16
4.3	The Faculty of Science	18
4.3.1	The theme/mu/beamercolorthemefibeamer-sci.sty file	18
4.4	The Faculty of Arts	21
4.4.1	The theme/mu/beamercolorthemefibeamer-phil.sty file	21
4.5	The Faculty of Education	23
4.5.1	The theme/mu/beamercolorthemefibeamer-ped.sty file	23
4.6	The Faculty of Social Studies	25
4.6.1	The theme/mu/beamercolorthemefibeamer-fss.sty file	25
4.7	The Faculty of Law	27
4.7.1	The theme/mu/beamercolorthemefibeamer-law.sty file	27
4.8	The Faculty of Economics and Administration	30
4.8.1	The theme/mu/beamercolorthemefibeamer-econ.sty file	30
4.9	The Faculty of Medicine	32
4.9.1	The theme/mu/beamercolorthemefibeamer-med.sty file	32
4.10	The Faculty of Sports Studies	34
4.10.1	The theme/mu/beamercolorthemefibeamer-fsps.sty file	34

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`.

```

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   \ifpackagealready{#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}}

```

`\fibeamer@patch` The `\fibeamer@patch[<versions>][<patch>]` macro expands *patch*, if `\fibeamer@version@number` (defined at the top of the file `beamerthemefibeamer.sty`) matches any of the comma-delimited *versions*. This macro enables the simple deployment of version-targeted patches.

```

102 \def\fibeamer@patch#1#2{%
103   \def\fibeamer@patch@versions{#1}%
104   \def\fibeamer@patch@action{#2}%
105   \def\fibeamer@patch@next##1,{%
106     \def\fibeamer@patch@arg{##1}%
107     \def\fibeamer@patch@relax{\relax}%
108     \ifx\fibeamer@patch@arg\fibeamer@version@number
109       \def\fibeamer@patch@next###1\relax,{}%
110       \expandafter\fibeamer@patch@action
111       \expandafter\fibeamer@patch@next
112     \else\ifx\fibeamer@patch@arg\fibeamer@patch@relax\else
113       \expandafter\expandafter\expandafter\fibeamer@patch@next
114     \fi\fi}%
115   \expandafter\expandafter\expandafter\fibeamer@patch@next
116   \expandafter\fibeamer@patch@versions\expandafter,\relax,}

```

3.2 Main routine

First, the theme processes the options.

```
117 \ProcessOptionsBeamer
```

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

```

118 % Set up the microtypographic extensions
119 \iffibeamer@microtype
120   \RequirePackage{microtype}
121 \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 \LaTeX and \LuaTeX engines.
- fontspec – This package is used to load fonts. This package is only used with the \LaTeX and \LuaTeX engines.

```

122 \mode<presentation>
123 % Set up the fonts
124 \iffbeamers@fonts
125   \RequirePackage{ifthen}
126   \RequirePackage{ifxetex}
127   \RequirePackage{ifluatex}
128   \RequirePackage{lmodern}
129   \RequirePackage[sfdefault,lf]{carlito}
130   \renewcommand*{\oldstylenums}[1]{\{\carlitoOsF #1\}}
131
132   %% Load arev with scaling factor of .85
133   %% See <http://tex.stackexchange.com/a/181240/70941>
134   \DeclareFontFamily{OML}{zavm}{\skewchar\font=127 }
135   \DeclareFontShape{OML}{zavm}{m}{it}{<-> s* [.85] zavmri7m}{}
136   \DeclareFontShape{OML}{zavm}{b}{it}{<-> s* [.85] zavmbi7m}{}
137   \DeclareFontShape{OML}{zavm}{m}{sl}{<->ssub * zavm/m/it}{}
138   \DeclareFontShape{OML}{zavm}{bx}{it}{<->ssub * zavm/b/it}{}
139   \DeclareFontShape{OML}{zavm}{b}{sl}{<->ssub * zavm/b/it}{}
140   \DeclareFontShape{OML}{zavm}{bx}{sl}{<->ssub * zavm/b/sl}{}
141
142   \AtBeginDocument{
143     \SetSymbolFont{operators}{normal}{OT1}{zavm}{m}{n}
144     \SetSymbolFont{letters}{normal}{OML}{zavm}{m}{it}
145     \SetSymbolFont{symbols}{normal}{OMS}{zavm}{m}{n}
146     \SetSymbolFont{largesymbols}{normal}{OMX}{iwona}{m}{n}
147     \RequirePackage[sans]{dsfont}
148
149     \ifthenelse{\boolean{xetex}\OR\boolean{luatex}}{
150       \RequirePackage{fontspec}
151       \setmonofont[Scale=0.85,Ligatures=TeX]{DejaVu Sans Mono}
152     }{
153       \usepackage[scaled=0.85]{DejaVuSansMono}
154       \RequirePackage[resetfonts]{cmap}
155       \RequirePackage[T1]{fontenc}
156     }

```

```

157 \RequirePackage{setspace}
158 \setstretch{1.15}
159 \fi
160 \mode
161 <all>

```

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

```

162 \fibeamer@requireTheme{color}
163 \fibeamer@requireTheme{font}
164 \fibeamer@requireTheme{inner}
165 \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.

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.

```

166 \NeedsTeXFormat{LaTeX2e}
167 \ProvidesPackage{fibeamer/theme/mu/%
168 beamercolorthemefibeamer-mu}[2016/05/06]

```

`\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.

```

169 \newenvironment{darkframes}{}{}

```

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

```

170 \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.

```

171 \RequirePackage{listings}
172 \RequirePackage{ifthen}
173 \RequirePackage{tikz}

```

`\iffbeamer@dark` The `\iffbeamer@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.

```

174 \newif\iffbeamer@dark\fi beamer@darkfalse

```

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

A frame that is neither title nor dark, as specified by the value of the `\iffbeamer@dark` conditional, will have a gradient background as specified by the `fi beamer@light@backgroundInner` and `fi beamer@light@backgroundOuter` colors that shall be defined by the subsequently loaded color theme.

```

175 \defbeamer*template*{background canvas}{fi beamer}{%
176   \ifthenelse{%
177     \boolean{fi beamer@dark} \OR \c@framenum=0
178   }{%
179     \begin{tikzpicture}
180       \clip (0,\fi beamer@lengths@clipbottom) rectangle
181         (\paperwidth,\fi beamer@lengths@cliptop);
182       \path [inner color = fi beamer@dark@backgroundInner,
183         outer color = fi beamer@dark@backgroundOuter]
184         (0,0) rectangle (\paperwidth,\paperwidth);
185     \end{tikzpicture}
186   }{%
187     \begin{tikzpicture}
188       \clip (0,\fi beamer@lengths@clipbottom) rectangle
189         (\paperwidth,\fi beamer@lengths@cliptop);
190       \path [inner color = fi beamer@light@backgroundInner,
191         outer color = fi beamer@light@backgroundOuter]
192         (0,0) rectangle (\paperwidth,\paperwidth);
193     \end{tikzpicture}
194   }}

```

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

```

195 \setbeamer*color{qed symbol}{%
196   use=block body,
197   fg=block body.fg,
198   bg=block body.bg}

```

The links can be colored by the subsequently loaded color themes.

```

199 \hypersetup{colorlinks,linkcolor=}
200 \mode
201 <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.

```
202 \NeedsTeXFormat{LaTeX2e}
203 \ProvidesPackage{fibeamer/theme/mu/%
204   beamerfontthemefibeamer-mu}[2016/01/12]
205 \mode<presentation>
206 \setbeamerfont{normal text}{size=\normalsize}
207 \setbeamerfont{title}{size=\LARGE, series=\bfseries}
208 \setbeamerfont{subtitle}{parent=normal text, size=\Large}
209 \setbeamerfont{frametitle}{size=\Large}
210 \setbeamerfont{framesubtitle}{size=\large, shape=\itshape}
211 \setbeamerfont{description item}{series=\bfseries}
212 \setbeamerfont{author}{size=\large}
213 \mode
214 <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.

```
215 \NeedsTeXFormat{LaTeX2e}
216 \ProvidesPackage{fibeamer/theme/mu/%
217   beamerinnerthemefibeamer-mu}[2016/01/14]
218 \mode<presentation>
```

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

```
219 \defbeamertemplate*{itemize item}{fibeamer}{\bullet$}
220 \defbeamertemplate*{itemize subitem}{fibeamer}{\---}
221 \defbeamertemplate*{itemize subsubitem}{fibeamer}{\guillemotright}
```

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

```
222 \defbeamertemplate*{bibliography item}{fibeamer}{\insertbiblabel}
223 \AtBeginDocument{%
224   \let\fibeamer@oldcite\cite
225   \def\cite#1{%
226     \usebeamercolor[fg]{item}%
227     \fibeamer@oldcite{#1}}}
```

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

```
228 \defbeamertemplate*{section in toc}{fibeamer}{%
229   \usebeamercolor[fg]{item}%
230   \inserttocsectionnumber.%
231   \usebeamercolor[fg]{structure}%
232   \kern1.25ex\inserttocsection\par}
233 \defbeamertemplate*{subsection in toc}{fibeamer}{%
234   \hspace\leftmargini
235   \usebeamercolor[fg]{item}%
236   \inserttocsectionnumber.\inserttocsubsectionnumber%
```

```

237 \usebeamercolor[fg]{structure}%
238 \kern1.25ex\inserttocsubsection\par}
239 \defbeamertemplate*{subsubsection in toc}{fibeamer}{%
240 \hspace\leftmarginii
241 \hspace\leftmarginii
242 \usebeamercolor[fg]{item}%
243 \inserttocsectionnumber.\inserttocsubsectionnumber.%
244 \inserttocsubsubsectionnumber%
245 \usebeamercolor[fg]{structure}%
246 \kern1.25ex\inserttocsubsubsection\par}
247 \mode
248 <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.

```

249 \NeedsTeXFormat{LaTeX2e}
250 \ProvidesPackage{fibeamer/theme/mu/%
251 beamrouterthemefibeamer-mu}[2016/01/12]
252 \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.

```

253 \RequirePackage{ifthen}
254 \RequirePackage{ifpdf}
255 \ifpdf\else
256 \@ifundefined{pdfpagewidth}{\newdimen\pdfpagewidth}{}
257 \@ifundefined{pdfpageheight}{\newdimen\pdfpageheight}{}
258 \pdfpagewidth=\paperwidth
259 \pdfpageheight=\paperheight
260 \fi
261 \RequirePackage{tikz}
262 \RequirePackage{pgfcore}

```

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

```

263 \newlength\fibeamer@lengths@baseunit
264 \fibeamer@lengths@baseunit=3.75mm
265 % The footer padding

```

```

266 \newlength\fibeamer@lengths@footerpad
267 \setlength\fibeamer@lengths@footerpad{%
268   \fibeamer@lengths@baseunit}
269 % The side margins
270 \newlength\fibeamer@lengths@margin
271 \setlength\fibeamer@lengths@margin{%
272   3\fibeamer@lengths@baseunit}
273 \setbeamersize{
274   text margin left=\fibeamer@lengths@margin,
275   text margin right=\fibeamer@lengths@margin}
276 % The upper margin
277 \newlength\fibeamer@lengths@titleline
278 \setlength\fibeamer@lengths@titleline{%
279   3\fibeamer@lengths@baseunit}
280 % The background clipping
281 \newlength\fibeamer@lengths@clipbottom
282 \setlength\fibeamer@lengths@clipbottom\paperwidth
283 \addtolength\fibeamer@lengths@clipbottom{-\paperheight}
284 \setlength\fibeamer@lengths@clipbottom{%
285   0.5\fibeamer@lengths@clipbottom}
286 \newlength\fibeamer@lengths@cliptop
287 \setlength\fibeamer@lengths@cliptop\paperwidth
288 \addtolength\fibeamer@lengths@cliptop{%
289   -\fibeamer@lengths@clipbottom}

290 % The logo size
291 \newlength\fibeamer@lengths@logowidth
292 \setlength\fibeamer@lengths@logowidth{%
293   14\fibeamer@lengths@baseunit}
294 \newlength\fibeamer@lengths@logoheight
295 \setlength\fibeamer@lengths@logoheight{%
296   0.4\fibeamer@lengths@logowidth}

```

The outer theme completely culls the bottom navigation.

```

297 \defbeamertemplate*{navigation symbols}{fibeamer}{}

```

The outer theme also culls the headline.

```

298 \defbeamertemplate*{headline}{fibeamer}{}

```

The frame title.

```

299 \defbeamertemplate*{frametitle}{fibeamer}{%
300   \vskip-1em % Align the text with the top border
301   \vskip\fibeamer@lengths@titleline
302   \usebeamercolor[fg]{frametitle}%
303   \usebeamerfont{frametitle}%
304   \insertframetitle\par%
305   \usebeamercolor[fg]{framesubtitle}%
306   \usebeamerfont{framesubtitle}%
307   \insertframesubtitle}

```

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

```

308 \defbeamertemplate*{footline}{fibeamer}{%
309   \ifnum\c@framenumbers=0\else%
310     \begin{tikzpicture}[overlay]
311       \node[anchor=south east,
312         yshift=\fibeamer@lengths@footerpad,
313         xshift=-\fibeamer@lengths@footerpad] at
314         (current page.south east) {
315           \usebeamercolor[fg]{framenumbers}%
316           \usebeamerfont{framenumbers}%
317           \insertframenumbers/\inserttotalframenumbers};
318     \end{tikzpicture}
319   \fi}

```

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

```

320 \defbeamertemplate*{title page}{fibeamer}{%
321   % This is slide 0
322   \setcounter{framenumbers}{0}
323
324   % Input the university logo
325   \begin{tikzpicture}[
326     remember picture,
327     overlay,
328     xshift=0.5\fibeamer@lengths@logowidth,
329     yshift=0.5\fibeamer@lengths@logoheight
330   ]
331     \node at (0,0) {
332       \fibeamer@includeLogo[
333         width=\fibeamer@lengths@logowidth,
334         height=\fibeamer@lengths@logoheight
335       ]};
336   \end{tikzpicture}
337
338   % Input the title
339   \usebeamerfont{title}%
340   \usebeamercolor[fg]{title}%
341   \begin{minipage}[b][2\baselineskip][b]{\textwidth}%
342     \raggedright\inserttitle
343   \end{minipage}
344   \vskip-.5\baselineskip
345
346   % Input the dashed line
347   \begin{pgfpicture}
348     \pgfsetlinewidth{2pt}
349     \pgfsetroundcap
350     \pgfsetdash{{0pt}{4pt}}{0cm}
351
352     \pgfpathmoveto{\pgfpoint{0mm}{0mm}}
353     \pgfpathlineto{\pgfpoint{\textwidth}{0mm}}
354
355     \pgfusepath{stroke}

```

```

356 \end{pgfpicture}
357 \vfill

358 % Input the subtitle
359 \usebeamerfont{subtitle}%
360 \usebeamercolor[fg]{subtitle}%
361 \begin{minipage}{\textwidth}
362   \raggedright%
363   \insertsubtitle%
364 \end{minipage}\vskip.25\baselineskip
365
366 % Input the author's name
367 \usebeamerfont{author}%
368 \usebeamercolor[fg]{author}%
369 \begin{minipage}{\textwidth}
370   \raggedright%
371   \insertauthor%
372 \end{minipage}}
373
374 \mode
375 <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.

```

376 \NeedsTeXFormat{LaTeX2e}
377 \ProvidesPackage{fibeamer/theme/mu/%
378   beamercolorthemefibeamer-mu-fi}[2016/06/16]
379 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The fibeamer@{dark,light}@background{Inner,Outer} colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

380 \definecolor{fibeamer@black}{HTML}{2B2E34}
381 \definecolor{fibeamer@white}{HTML}{F3EEE1}
382 \definecolor{fibeamer@yellow}{HTML}{FFD564}
383 \definecolor{fibeamer@orange}{HTML}{FF5500}
384 \colorlet{fibeamer@lightGray}{white!80!fibeamer@black}
385 \colorlet{fibeamer@gray}{white!35!fibeamer@black}
386 \colorlet{fibeamer@darkGray}{white!20!fibeamer@black}
387 \definecolor{fibeamer@blue}{HTML}{3333B3}
388 \definecolor{fibeamer@lightRed}{HTML}{FF8E6B}
389 \colorlet{fibeamer@darkRed}{red!80!fibeamer@white}

390 %% Background gradients

```



```

391 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@black}
392 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@black}
393 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
394 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}

```

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

```

395 \renewenvironment{darkframes}{%
396   \begin{group}
397     \fibeamer@darktrue
398     %% Structures
399     \setbeamercolor*{frametitle}{fg=fibeamer@yellow}
400     \setbeamercolor*{framesubtitle}{fg=fibeamer@lightGray}
401     %% Text
402     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@black}
403     \setbeamercolor*{structure}{fg=white, bg=fibeamer@black}
404     \setbeamercolor*{alerted text}{fg=fibeamer@lightRed}
405     %% Items, footnotes and links
406     \setbeamercolor*{item}{fg=fibeamer@yellow}
407     \setbeamercolor*{footnote mark}{fg=fibeamer@yellow}
408     \hypersetup{urlcolor=fibeamer@yellow}
409     %% Blocks
410     \setbeamercolor*{block title}{%
411       fg=fibeamer@black, bg=fibeamer@yellow}
412     \setbeamercolor*{block title example}{%
413       fg=fibeamer@yellow, bg=fibeamer@darkGray}
414     \setbeamercolor*{block title alerted}{%
415       fg=fibeamer@black, bg=fibeamer@lightRed}
416     \setbeamercolor*{block body}{%
417       fg=fibeamer@white,
418       bg=fibeamer@darkGray}
419     \usebeamercolor*{normal text}
420     % Code listings
421     \lstset{%
422       commentstyle=\color{green!30!white},
423       keywordstyle=\color{blue!30!white},
424       stringstyle=\color{fibeamer@orange!30!white}}
425   }{%
426     \end{group}

```

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

```

427 %% Structures
428 \setbeamercolor{frametitle}{fg=fibeamer@blue}
429 \setbeamercolor{framesubtitle}{fg=fibeamer@gray}
430 %% Text
431 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
432 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}
433 \setbeamercolor{alerted text}{fg=red}

```

```

434 \addtobeamertemplate{block begin}{%
435   \iffibeamer@dark\else % alerted text in plain blocks at light slides
436     \setbeamercolor{alerted text}{fg=fibeamer@darkRed}
437   \fi{}}

438 %% Items and links
439 \setbeamercolor{item}{fg=fibeamer@blue}
440 \setbeamercolor{footnote mark}{fg=fibeamer@blue}
441 \hypersetup{urlcolor=fibeamer@blue}
442 %% Blocks
443 \setbeamercolor{block title}{%
444   fg=fibeamer@black, bg=fibeamer@yellow}
445 \setbeamercolor{block title example}{%
446   fg=fibeamer@yellow, bg=fibeamer@black}
447 \setbeamercolor{block title alerted}{%
448   fg=fibeamer@white, bg=red}
449 \setbeamercolor{block body}{%
450   fg=fibeamer@white, bg=fibeamer@black}
451 %% Title
452 \setbeamercolor{title}{fg=fibeamer@yellow, bg=fibeamer@black}

453 \setbeamercolor{subtitle}{fg=fibeamer@white, bg=fibeamer@black}
454 \setbeamercolor{author}{fg=fibeamer@lightGray, bg=fibeamer@black}
455 % Code listings
456 \lstset{%
457   basicstyle=\footnotesize\ttfamily,
458   breakatwhitespace=false,
459   breaklines=true,
460   commentstyle=\color{green!60!black},
461   extendedchars=true,
462   keywordstyle=\color{fibeamer@blue},
463   showspaces=false,
464   showstringspaces=false,
465   showtabs=false,
466   stringstyle=\color{violet}}
467 \mode
468 <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.

```

469 \NeedsTeXFormat{LaTeX2e}
470 \ProvidesPackage{fibeamer/theme/mu/%
471   beamercolorthemefibeamer-mu-sci}[2016/05/06]
472 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

473 \definecolor{fibeamer@black}{HTML}{000000}
474 \definecolor{fibeamer@white}{HTML}{FFFFFF}
475 \definecolor{fibeamer@green}{HTML}{139632}
476 \definecolor{fibeamer@gray}{HTML}{999999}
477 \colorlet{fibeamer@lightGreen}{fibeamer@green!30!fibeamer@white}
478 \colorlet{fibeamer@darkGreen}{fibeamer@green!60!fibeamer@black}
479 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
480 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkGreen}

481 %% Background gradients
482 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkGreen}
483 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkGreen}
484 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
485 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}

```

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

```

486 \renewenvironment{darkframes}{%
487   \begin{group}
488     \iffibeamer@darktrue
489     %% Structures
490     \setbeamercolor*{frametitle}{fg=fibeamer@lightGreen}
491     \setbeamercolor*{framesubtitle}{fg=fibeamer@white}
492     %% Text
493     \setbeamercolor*{normal text}{fg=fibeamer@white, bg=fibeamer@green}
494     \setbeamercolor*{structure}{fg=fibeamer@white, bg=fibeamer@green}

495     \setbeamercolor*{alerted text}{%
496       fg=fibeamer@lightOrange}

497     %% Items, footnotes and links
498     \setbeamercolor*{item}{fg=fibeamer@lightGreen}
499     \setbeamercolor*{footnote mark}{fg=fibeamer@lightGreen}
500     \hypersetup{urlcolor=fibeamer@lightGreen}
501     %% Blocks
502     \setbeamercolor*{block title}{%
503       fg=fibeamer@white, bg=fibeamer@green!60!fibeamer@white}
504     \setbeamercolor*{block title example}{%
505       fg=fibeamer@white, bg=fibeamer@green!60!fibeamer@white}
506     \setbeamercolor*{block title alerted}{%
507       fg=fibeamer@darkGreen, bg=fibeamer@lightOrange}
508     \setbeamercolor*{block body}{%
509       fg=fibeamer@green,
510       bg=fibeamer@gray!15!fibeamer@white}
511     \usebeamercolor*{normal text}
512     % Code listings

```

```

513 \lstset{%
514     commentstyle=\color{green!30!fibeamer@white},
515     keywordstyle=\color{blue!30!fibeamer@white},
516     stringstyle=\color{red!30!fibeamer@white}}
517 }{%
518 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

519 %% Structures
520 \setbeamercolor{frametitle}{fg=fibeamer@green}
521 \setbeamercolor{framesubtitle}{fg=fibeamer@black!75!fibeamer@white}
522 %% Text
523 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
524 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}

525 \setbeamercolor{alerted text}{fg=red}
526 \addtobeamertemplate{block begin}{%
527     \iffibeamer@dark % alerted text in plain block at dark slides
528         \setbeamercolor{alerted text}{fg=fibeamer@orange}%
529     \fi}{%

530 %% Items, footnotes and links
531 \setbeamercolor*{item}{fg=fibeamer@green}
532 \setbeamercolor*{footnote mark}{fg=fibeamer@green}
533 \hypersetup{urlcolor=fibeamer@green}
534 %% Blocks
535 \setbeamercolor{block title}{%
536     fg=fibeamer@white, bg=fibeamer@green}
537 \setbeamercolor{block title example}{%
538     fg=fibeamer@white, bg=fibeamer@green}
539 \setbeamercolor{block title alerted}{%
540     fg=fibeamer@white, bg=red}
541 \setbeamercolor{block body}{%
542     fg=fibeamer@green, bg=fibeamer@gray!20!fibeamer@white}
543 %% Title
544 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@green}
545 % Code listings
546 \lstset{%
547     basicstyle=\footnotesize\ttfamily,
548     breakatwhitespace=false,
549     breaklines=true,
550     commentstyle=\color{green!60!fibeamer@black},
551     extendedchars=true,
552     keywordstyle=\color{blue},
553     showspaces=false,
554     showstringspaces=false,
555     showtabs=false,
556     stringstyle=\color{violet}}
557 \mode
558 <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.

```
559 \NeedsTeXFormat{LaTeX2e}
560 \ProvidesPackage{fibeamer/theme/mu/%
561   beamercolorthemefibeamer-mu-phil}[2016/05/06]
562 \mode<presentation>
```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```
563 \definecolor{fibeamer@black}{HTML}{000000}
564 \definecolor{fibeamer@white}{HTML}{FFFFFF}
565 \definecolor{fibeamer@blue}{HTML}{0071B2}
566 \colorlet{fibeamer@lightBlue}{fibeamer@blue!30!fibeamer@white}
567 \colorlet{fibeamer@darkBlue}{fibeamer@blue!60!fibeamer@black}
568 \definecolor{fibeamer@gray}{HTML}{999999}
569 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
570 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkBlue}

571 %% Background gradients
572 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkBlue}
573 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkBlue}
574 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
575 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}
```

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

```
576 \renewenvironment{darkframes}{%
577   \begingroup
578     \fibeamer@darktrue
579     %% Structures
580     \setbeamercolor*{frametitle}{fg=fibeamer@lightBlue}
581     \setbeamercolor*{framesubtitle}{fg=fibeamer@white}
582     %% Text
583     \setbeamercolor*{normal text}{fg=fibeamer@white, bg=fibeamer@blue}
584     \setbeamercolor*{structure}{fg=fibeamer@white, bg=fibeamer@blue}

585     \setbeamercolor*{alerted text}{fg=fibeamer@lightOrange}

586     %% Items, footnotes and links
587     \setbeamercolor*{item}{fg=fibeamer@lightBlue}
588     \setbeamercolor*{footnote mark}{fg=fibeamer@lightBlue}
589     \hypersetup{urlcolor=fibeamer@lightBlue}
590     %% Blocks
591     \setbeamercolor*{block title}{%
```

```

592     fg=fibeamer@white, bg=fibeamer@blue!60!fibeamer@white}
593 \setbeamercolor*{block title example}{%
594     fg=fibeamer@white, bg=fibeamer@blue!60!fibeamer@white}
595 \setbeamercolor*{block title alerted}{%
596     fg=fibeamer@darkBlue, bg=fibeamer@lightOrange}
597 \setbeamercolor*{block body}{%
598     fg=fibeamer@blue,
599     bg=fibeamer@gray!15!fibeamer@white}
600 \usebeamercolor*{normal text}
601 % Code listings
602 \lstset{%
603     commentstyle=\color{green!30!fibeamer@white},
604     keywordstyle=\color{fibeamer@lightBlue},
605     stringstyle=\color{red!30!fibeamer@white}}
606 }{%
607 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

608 %% Structures
609 \setbeamercolor{frametitle}{fg=fibeamer@blue}
610 \setbeamercolor{framesubtitle}{fg=fibeamer@black!75!fibeamer@white}
611 %% Text
612 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
613 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}
614 \setbeamercolor{alerted text}{fg=red}
615 \addtobeamertemplate{block begin}{%
616     \iffibeamer@dark % alerted text in plain block at dark slides
617     \setbeamercolor{alerted text}{fg=fibeamer@orange}%
618     \fi}{}
619 %% Items, footnotes and links
620 \setbeamercolor*{item}{fg=fibeamer@blue}
621 \setbeamercolor*{footnote mark}{fg=fibeamer@blue}
622 \hypersetup{urlcolor=fibeamer@blue}
623 %% Blocks
624 \setbeamercolor{block title}{%
625     fg=fibeamer@white, bg=fibeamer@blue}
626 \setbeamercolor{block title example}{%
627     fg=fibeamer@white, bg=fibeamer@blue}
628 \setbeamercolor{block title alerted}{%
629     fg=fibeamer@white, bg=red}
630 \setbeamercolor{block body}{%
631     fg=fibeamer@blue, bg=fibeamer@gray!20!fibeamer@white}
632 %% Title
633 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@blue}
634 % Code listings
635 \lstset{%
636     basicstyle=\footnotesize\ttfamily,
637     breakatwhitespace=false,
638     breaklines=true,

```

```

639   commentstyle=\color{green!60!fibeamer@black},
640   extendedchars=true,
641   keywordstyle=\color{fibeamer@blue},
642   showspaces=false,
643   showstringspaces=false,
644   showtabs=false,
645   stringstyle=\color{violet}}
646 \mode
647 <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.

```

648 \NeedsTeXFormat{LaTeX2e}
649 \ProvidesPackage{fibeamer/theme/mu/%
650   beamercolorthemefibeamer-mu-ped}[2016/05/06]
651 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

652 \definecolor{fibeamer@black}{HTML}{2B2E34}
653 \definecolor{fibeamer@white}{HTML}{FFFFFF}
654 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
655 \definecolor{fibeamer@orange}{HTML}{FF5500}
656 \colorlet{fibeamer@lightGray}{white!80!fibeamer@black}
657 \colorlet{fibeamer@gray}{white!35!fibeamer@black}
658 \colorlet{fibeamer@darkGray}{white!20!fibeamer@black}
659 \colorlet{fibeamer@blue}{blue!60!fibeamer@lightGray}
660 \colorlet{fibeamer@darkRed}{red!80!fibeamer@white}
661 \definecolor{fibeamer@lightRed}{HTML}{FF8B8B}

662 %% Background gradients
663 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@black}
664 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@black}
665 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
666 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}

```

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

```

667 \renewenvironment{darkframes}{%
668   \begingroup
669     \fibeamer@darktrue
670     %% Structures
671     \setbeamercolor*{frametitle}{fg=fibeamer@lightOrange}

```

```

672 \setbeamercolor*{framesubtitle}{fg=fibeamer@lightGray}
673 %% Text
674 \setbeamercolor*{normal text}{fg=white, bg=fibeamer@black}
675 \setbeamercolor*{structure}{fg=white, bg=fibeamer@black}

676 \setbeamercolor*{alerted text}{fg=fibeamer@lightRed}

677 %% Items, footnotes and links
678 \setbeamercolor*{item}{fg=fibeamer@lightOrange}
679 \setbeamercolor*{footnote mark}{fg=fibeamer@lightOrange}
680 \hypersetup{urlcolor=fibeamer@lightOrange}
681 %% Blocks
682 \setbeamercolor*{block title}{%
683   fg=fibeamer@black, bg=fibeamer@lightOrange}
684 \setbeamercolor*{block title example}{%
685   fg=fibeamer@lightOrange, bg=fibeamer@darkGray}
686 \setbeamercolor*{block title alerted}{%
687   fg=fibeamer@black, bg=fibeamer@lightRed}
688 \setbeamercolor*{block body}{%
689   fg=fibeamer@white,
690   bg=fibeamer@darkGray}
691 \usebeamercolor*{normal text}
692 % Code listings
693 \lstset{%
694   commentstyle=\color{green!30!white},
695   keywordstyle=\color{blue!30!white},
696   stringstyle=\color{fibeamer@orange!30!white}}
697 }{%
698 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

699 %% Structures
700 \setbeamercolor{frametitle}{fg=fibeamer@black}
701 \setbeamercolor{framesubtitle}{fg=fibeamer@gray}
702 %% Text
703 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
704 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}

705 \setbeamercolor{alerted text}{fg=red}
706 \addtobeamertemplate{block begin}{%
707   \iffibeamer@dark\else % alerted text in plain blocks at light slides
708     \setbeamercolor{alerted text}{fg=fibeamer@darkRed}
709   \fi}{}

710 %% Items, footnotes and links
711 \setbeamercolor*{item}{fg=fibeamer@orange}
712 \setbeamercolor*{footnote mark}{fg=fibeamer@orange}
713 \hypersetup{urlcolor=fibeamer@blue}
714 %% Blocks
715 \setbeamercolor{block title}{%
716   fg=fibeamer@black, bg=fibeamer@lightOrange}

```



```

717 \setbeamercolor{block title example}{%
718   fg=fibeamer@lightOrange, bg=fibeamer@black}
719 \setbeamercolor{block title alerted}{%
720   fg=fibeamer@white, bg=red}
721 \setbeamercolor{block body}{%
722   fg=white, bg=fibeamer@black}
723 %% Title
724 \setbeamercolor{title}{fg=fibeamer@lightOrange, bg=fibeamer@black}

725 \setbeamercolor{subtitle}{fg=fibeamer@white, bg=fibeamer@black}
726 \setbeamercolor{author}{fg=fibeamer@lightGray, bg=fibeamer@black}
727 % Code listings
728 \lstset{%
729   basicstyle=\footnotesize\ttfamily,
730   breakatwhitespace=false,
731   breaklines=true,
732   commentstyle=\color{green!60!black},
733   extendedchars=true,
734   keywordstyle=\color{fibeamer@blue},
735   showspaces=false,
736   showstringspaces=false,
737   showtabs=false,
738   stringstyle=\color{violet}}
739 \mode
740 <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.

```

741 \NeedsTeXFormat{LaTeX2e}
742 \ProvidesPackage{fibeamer/theme/mu/%
743   beamercolorthemefibeamer-mu-fss}[2016/05/06]
744 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

745 \definecolor{fibeamer@black}{HTML}{000000}
746 \definecolor{fibeamer@white}{HTML}{FFFFFF}
747 \definecolor{fibeamer@cyan}{HTML}{00796E}
748 \colorlet{fibeamer@darkCyan}{fibeamer@cyan!70!fibeamer@black}
749 \colorlet{fibeamer@lightCyan}{fibeamer@cyan!30!fibeamer@white}
750 \definecolor{fibeamer@gray}{HTML}{999999}
751 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
752 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkCyan}

```

```

753 %% Background gradients
754 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkCyan}
755 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkCyan}
756 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
757 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}

```

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

```

758 \renewenvironment{darkframes}{%
759   \begin{group}
760     \fibeamer@darktrue
761     %% Structures
762     \setbeamercolor*{frametitle}{fg=fibeamer@lightCyan}
763     \setbeamercolor*{framesubtitle}{fg=fibeamer@white}
764     %% Text
765     \setbeamercolor*{normal text}{fg=fibeamer@white, bg=fibeamer@cyan}
766     \setbeamercolor*{structure}{fg=fibeamer@white, bg=fibeamer@cyan}
767
768     \setbeamercolor*{alerted text}{fg=fibeamer@lightOrange}
769
770     %% Items, footnotes and links
771     \setbeamercolor{item}{fg=fibeamer@lightCyan}
772     \setbeamercolor{footnote mark}{fg=fibeamer@lightCyan}
773     \hypersetup{urlcolor=fibeamer@lightCyan}
774     %% Blocks
775     \setbeamercolor*{block title}{%
776       fg=fibeamer@white, bg=fibeamer@cyan!60!fibeamer@white}
777     \setbeamercolor*{block title example}{%
778       fg=fibeamer@white, bg=fibeamer@cyan!60!fibeamer@white}
779     \setbeamercolor*{block title alerted}{%
780       fg=fibeamer@darkCyan, bg=fibeamer@lightOrange}
781     \setbeamercolor*{block body}{%
782       fg=fibeamer@cyan,
783       bg=fibeamer@gray!15!fibeamer@white}
784     \usebeamercolor*{normal text}
785     % Code listings
786     \lstset{%
787       commentstyle=\color{green!30!fibeamer@white},
788       keywordstyle=\color{blue!30!fibeamer@white},
789       stringstyle=\color{red!30!fibeamer@white}}
790   }{%
791     \end{group}
792   }

```

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

```

790 %% Structures
791 \setbeamercolor{frametitle}{fg=fibeamer@cyan}
792 \setbeamercolor{framesubtitle}{fg=fibeamer@black!75!fibeamer@white}
793 %% Text
794 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
795 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}

```

```

796 \setbeamercolor{alerted text}{fg=red}
797 \addtobeamertemplate{block begin}{%
798   \iffibeamer@dark % alerted text in plain block at dark slides
799     \setbeamercolor{alerted text}{fg=fibeamer@orange}%
800   \fi}{%

801 %% Items, footnotes and links
802 \setbeamercolor{item}{fg=fibeamer@cyan}
803 \setbeamercolor{footnote mark}{fg=fibeamer@cyan}
804 \hypersetup{urlcolor=fibeamer@cyan}
805 %% Blocks
806 \setbeamercolor{block title}{%
807   fg=fibeamer@white, bg=fibeamer@cyan}
808 \setbeamercolor{block title example}{%
809   fg=fibeamer@white, bg=fibeamer@cyan}
810 \setbeamercolor{block title alerted}{%
811   fg=fibeamer@white, bg=red}
812 \setbeamercolor{block body}{%
813   fg=fibeamer@cyan, bg=fibeamer@gray!20!fibeamer@white}
814 %% Title
815 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@cyan}
816 % Code listings
817 \lstset{%
818   basicstyle=\footnotesize\ttfamily,
819   breakatwhitespace=false,
820   breaklines=true,
821   commentstyle=\color{green!60!fibeamer@black},
822   extendedchars=true,
823   keywordstyle=\color{blue},
824   showspaces=false,
825   showstringspaces=false,
826   showtabs=false,
827   stringstyle=\color{violet}}
828 \mode
829 <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.

```

830 \NeedsTeXFormat{LaTeX2e}
831 \ProvidesPackage{fibeamer/theme/mu/%
832   beamercolorthemefibeamer-mu-law}[2016/05/06]
833 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the

background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

834 \definecolor{fibeamer@black}{HTML}{000000}
835 \definecolor{fibeamer@white}{HTML}{FFFFFF}
836 \definecolor{fibeamer@violet}{HTML}{732889}
837 \colorlet{fibeamer@darkViolet}{fibeamer@violet!70!fibeamer@black}
838 \colorlet{fibeamer@lightViolet}{fibeamer@violet!30!fibeamer@white}
839 \definecolor{fibeamer@gray}{HTML}{999999}
840 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
841 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkViolet}

842 %% Background gradients
843 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkViolet}
844 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkViolet}
845 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
846 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}

```

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

```

847 \renewenvironment{darkframes}{%
848   \begin{group}
849     \iffibeamer@darktrue
850     %% Structures
851     \setbeamercolor*{frametitle}{fg=fibeamer@lightViolet}
852     \setbeamercolor*{framesubtitle}{fg=fibeamer@white}
853     %% Text
854     \setbeamercolor*{normal text}{fg=fibeamer@white, bg=fibeamer@violet}
855     \setbeamercolor*{structure}{fg=fibeamer@white, bg=fibeamer@violet}

856     \setbeamercolor*{alerted text}{fg=fibeamer@lightOrange}

857     %% Items, footnotes and links
858     \setbeamercolor*{item}{fg=fibeamer@lightViolet}
859     \setbeamercolor*{footnote mark}{fg=fibeamer@lightViolet}
860     \hypersetup{urlcolor=fibeamer@lightViolet}
861     %% Blocks
862     \setbeamercolor*{block title}{%
863       fg=fibeamer@white, bg=fibeamer@violet!60!fibeamer@white}
864     \setbeamercolor*{block title example}{%
865       fg=fibeamer@white, bg=fibeamer@violet!60!fibeamer@white}
866     \setbeamercolor*{block title alerted}{%
867       fg=fibeamer@darkViolet, bg=fibeamer@lightOrange}
868     \setbeamercolor*{block body}{%
869       fg=fibeamer@violet,
870       bg=fibeamer@gray!15!fibeamer@white}
871     \usebeamercolor*{normal text}
872     % Code listings
873     \lstset{%
874       commentstyle=\color{green!30!fibeamer@white},
875       keywordstyle=\color{blue!30!fibeamer@white},

```

```

876         stringstyle=\color{fibeamer@lightViolet}}
877     }{%
878 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

879 %% Structures
880 \setbeamercolor{frametitle}{fg=fibeamer@violet}
881 \setbeamercolor{framesubtitle}{fg=fibeamer@black!75!fibeamer@white}
882 %% Text
883 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
884 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}

885 \setbeamercolor{alerted text}{fg=red}
886 \addtobeamertemplate{block begin}{%
887 \iffibeamer@dark % alerted text in plain block at dark slides
888 \setbeamercolor{alerted text}{fg=fibeamer@orange}%
889 \fi}{}}

890 %% Items, footnotes and links
891 \setbeamercolor{item}{fg=fibeamer@violet}
892 \setbeamercolor{footnote mark}{fg=fibeamer@violet}
893 \hypersetup{urlcolor=fibeamer@violet}
894 %% Blocks
895 \setbeamercolor{block title}{%
896 fg=fibeamer@white, bg=fibeamer@violet}
897 \setbeamercolor{block title example}{%
898 fg=fibeamer@white, bg=fibeamer@violet}
899 \setbeamercolor{block title alerted}{%
900 fg=fibeamer@white, bg=red}
901 \setbeamercolor{block body}{%
902 fg=fibeamer@violet, bg=fibeamer@gray!20!fibeamer@white}
903 %% Title
904 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@violet}
905 % Code listings
906 \lstset{%
907 basicstyle=\footnotesize\ttfamily,
908 breakatwhitespace=false,
909 breaklines=true,
910 commentstyle=\color{green!60!fibeamer@black},
911 extendedchars=true,
912 keywordstyle=\color{blue},
913 showspaces=false,
914 showstringspaces=false,
915 showtabs=false,
916 stringstyle=\color{violet}}
917 \mode
918 <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.

```
919 \NeedsTeXFormat{LaTeX2e}
920 \ProvidesPackage{fibeamer/theme/mu/%
921   beamercolorthemefibeamer-mu-econ}[2016/05/06]
922 \mode<presentation>
```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```
923 \definecolor{fibeamer@black}{HTML}{2B2E34}
924 \definecolor{fibeamer@white}{HTML}{FFFFFF}
925 \definecolor{fibeamer@brown}{HTML}{892840}
926 \colorlet{fibeamer@lightBrown}{fibeamer@brown!30!fibeamer@white}
927 \colorlet{fibeamer@darkBrown}{fibeamer@brown!60!fibeamer@black}
928 \definecolor{fibeamer@gray}{HTML}{999999}
929 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
930 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkBrown}

931 %% Background gradients
932 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkBrown}
933 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkBrown}
934 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
935 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}
```

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

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

945     \setbeamercolor*{alerted text}{fg=fibeamer@lightOrange}

946     %% Items, footnotes and links
947     \setbeamercolor*{item}{fg=fibeamer@lightBrown}
948     \setbeamercolor*{footnote mark}{fg=fibeamer@lightBrown}
949     \hypersetup{urlcolor=fibeamer@lightBrown}
950     %% Blocks
951     \setbeamercolor*{block title}{%
```

```

952         fg=fibeamer@white, bg=fibeamer@brown!60!fibeamer@white}
953     \setbeamercolor*{block title example}{%
954         fg=fibeamer@white, bg=fibeamer@brown!60!fibeamer@white}
955     \setbeamercolor*{block title alerted}{%
956         fg=fibeamer@darkBrown, bg=fibeamer@lightOrange}
957     \setbeamercolor*{block body}{%
958         fg=fibeamer@brown,
959         bg=fibeamer@gray!15!fibeamer@white}
960     \usebeamercolor*{normal text}
961     % Code listings
962     \lstset{%
963         commentstyle=\color{green!30!fibeamer@white},
964         keywordstyle=\color{blue!30!fibeamer@white},
965         stringstyle=\color{fibeamer@brown!30!fibeamer@white}}
966     }{%
967     \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

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

974 \setbeamercolor{alerted text}{fg=red}
975 \addtobeamertemplate{block begin}{%
976     \iffibeamer@dark % alerted text in plain block at dark slides
977     \setbeamercolor{alerted text}{fg=fibeamer@orange}%
978     \fi}{}

979 %% Items, footnotes and links
980 \setbeamercolor{item}{fg=fibeamer@brown}
981 \setbeamercolor{footnote mark}{fg=fibeamer@brown}
982 \hypersetup{urlcolor=fibeamer@brown}
983 %% Blocks
984 \setbeamercolor{block title}{%
985     fg=fibeamer@white, bg=fibeamer@brown}
986 \setbeamercolor{block title example}{%
987     fg=fibeamer@white, bg=fibeamer@brown}
988 \setbeamercolor{block title alerted}{%
989     fg=fibeamer@white, bg=red}
990 \setbeamercolor{block body}{%
991     fg=fibeamer@brown, bg=fibeamer@gray!20!fibeamer@white}
992 %% Title
993 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@brown}
994 % Code listings
995 \lstset{%
996     basicstyle=\footnotesize\ttfamily,
997     breakatwhitespace=false,
998     breaklines=true,

```

```

999    commentstyle=\color{green!60!fibeamer@black},
1000   extendedchars=true,
1001   keywordstyle=\color{blue},
1002   showspaces=false,
1003   showstringspaces=false,
1004   showtabs=false,
1005   stringstyle=\color{violet}}
1006 \mode
1007 <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.

```

1008 \NeedsTeXFormat{LaTeX2e}
1009 \ProvidesPackage{fibeamer/theme/mu/%
1010   beamercolorthemefibeamer-mu-med}[2016/05/06]
1011 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

1012 \definecolor{fibeamer@black}{HTML}{000000}
1013 \definecolor{fibeamer@white}{HTML}{FFFFFF}
1014 \definecolor{fibeamer@red}{HTML}{c82600}
1015 \colorlet{fibeamer@lightRed}{fibeamer@red!30!fibeamer@white}
1016 \colorlet{fibeamer@darkRed}{fibeamer@red!60!fibeamer@black}
1017 \definecolor{fibeamer@gray}{HTML}{999999}
1018 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
1019 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkRed}

1020 %% Background gradients
1021 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkRed}
1022 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkRed}
1023 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
1024 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}

```

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

```

1025 \renewenvironment{darkframes}{%
1026   \begingroup
1027   \fibeamer@darktrue
1028   %% Structures
1029   \setbeamercolor*{frametitle}{fg=fibeamer@lightRed}
1030   \setbeamercolor*{framesubtitle}{fg=fibeamer@white}
1031   %% Text

```



```

1032 \setbeamercolor*{normal text}{fg=fibeamer@white, bg=fibeamer@red}
1033 \setbeamercolor*{structure}{fg=fibeamer@white, bg=fibeamer@red}

1034 \setbeamercolor*{alerted text}{fg=fibeamer@lightOrange}

1035 %% Items, footnotes and links
1036 \setbeamercolor*{item}{fg=fibeamer@lightRed}
1037 \setbeamercolor*{footnote mark}{fg=fibeamer@lightRed}
1038 \hypersetup{urlcolor=fibeamer@lightRed}
1039 %% Blocks
1040 \setbeamercolor*{block title}{%
1041   fg=fibeamer@white, bg=fibeamer@red!60!fibeamer@white}
1042 \setbeamercolor*{block title example}{%
1043   fg=fibeamer@white, bg=fibeamer@red!60!fibeamer@white}
1044 \setbeamercolor*{block title alerted}{%
1045   fg=fibeamer@darkRed, bg=fibeamer@lightOrange}
1046 \setbeamercolor*{block body}{%
1047   fg=fibeamer@red,
1048   bg=fibeamer@gray!15!fibeamer@white}
1049 \usebeamercolor*{normal text}
1050 % Code listings
1051 \lstset{%
1052   commentstyle=\color{green!30!fibeamer@white},
1053   keywordstyle=\color{blue!30!fibeamer@white},
1054   stringstyle=\color{fibeamer@lightRed}}
1055 }{%
1056 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

1057 %% Structures
1058 \setbeamercolor{frametitle}{fg=fibeamer@red}
1059 \setbeamercolor{framesubtitle}{fg=fibeamer@black!75!fibeamer@white}
1060 %% Text
1061 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
1062 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}

1063 \setbeamercolor{alerted text}{fg=orange}
1064 \addtobeamertemplate{block begin}{%
1065   \iffibeamer@dark % alerted text in plain block at dark slides
1066     \setbeamercolor{alerted text}{fg=fibeamer@orange}%
1067   \fi}{}

1068 %% Items, footnotes and links
1069 \setbeamercolor*{item}{fg=fibeamer@red}
1070 \setbeamercolor*{footnote mark}{fg=fibeamer@red}
1071 \hypersetup{urlcolor=fibeamer@red}
1072 %% Blocks
1073 \setbeamercolor{block title}{%
1074   fg=fibeamer@white, bg=fibeamer@red}
1075 \setbeamercolor{block title example}{%
1076   fg=fibeamer@white, bg=fibeamer@red}

```

```

1077 \setbeamercolor{block title alerted}{%
1078   fg=fibeamer@white, bg=orange}
1079 \setbeamercolor{block body}{%
1080   fg=fibeamer@red!90!fibeamer@black,
1081   bg=fibeamer@gray!20!fibeamer@white}
1082 %% Title
1083 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@red}
1084 % Code listings
1085 \lstset{%
1086   basicstyle=\footnotesize\ttfamily,
1087   breakatwhitespace=false,
1088   breaklines=true,
1089   commentstyle=\color{green!60!fibeamer@black},
1090   extendedchars=true,
1091   keywordstyle=\color{blue},
1092   showspaces=false,
1093   showstringspaces=false,
1094   showtabs=false,
1095   stringstyle=\color{violet}}
1096 \mode
1097 <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.

```

1098 \NeedsTeXFormat{LaTeX2e}
1099 \ProvidesPackage{fibeamer/theme/mu/%
1100   beamercolorthemefibeamer-mu-fsps}[2016/05/06]
1101 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

1102 \definecolor{fibeamer@black}{HTML}{000000}
1103 \definecolor{fibeamer@white}{HTML}{FFFFFF}
1104 \definecolor{fibeamer@blue}{HTML}{283889}
1105 \colorlet{fibeamer@darkBlue}{fibeamer@blue!60!fibeamer@black}
1106 \definecolor{fibeamer@brightBlue}{HTML}{3998F9}
1107 \colorlet{fibeamer@lightBlue}{fibeamer@blue!30!fibeamer@white}
1108 \definecolor{fibeamer@gray}{HTML}{999999}
1109 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
1110 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkBlue}

1111 %% Background gradients
1112 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkBlue}

```

```

1113 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkBlue}
1114 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
1115 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}

```

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

```

1116 \renewenvironment{darkframes}{%
1117   \begin{group}
1118     \fibeamer@darktrue
1119     %% Structures
1120     \setbeamercolor*{frametitle}{fg=fibeamer@blue!30!fibeamer@white}
1121     \setbeamercolor*{framesubtitle}{fg=fibeamer@white}
1122     %% Text
1123     \setbeamercolor*{normal text}{fg=fibeamer@white, bg=fibeamer@blue}
1124     \setbeamercolor*{structure}{fg=fibeamer@white, bg=fibeamer@blue}
1125     \setbeamercolor*{alerted text}{fg=fibeamer@lightOrange}
1126     %% Items, footnotes and links
1127     \setbeamercolor*{item}{fg=fibeamer@lightBlue}
1128     \setbeamercolor*{footnote mark}{fg=fibeamer@lightBlue}
1129     \hypersetup{urlcolor=fibeamer@lightBlue}
1130     %% Blocks
1131     \setbeamercolor*{block title}{%
1132       fg=fibeamer@white, bg=fibeamer@blue!60!fibeamer@white}
1133     \setbeamercolor*{block title example}{%
1134       fg=fibeamer@white, bg=fibeamer@blue!60!fibeamer@white}
1135     \setbeamercolor*{block title alerted}{%
1136       fg=fibeamer@darkBlue, bg=fibeamer@lightOrange}
1137     \setbeamercolor*{block body}{%
1138       fg=fibeamer@blue,
1139       bg=fibeamer@gray!15!fibeamer@white}
1140     \usebeamercolor*{normal text}
1141     % Code listings
1142     \lstset{%
1143       commentstyle=\color{green!30!fibeamer@white},
1144       keywordstyle=\color{blue!40!fibeamer@brightBlue!25!fibeamer@white},
1145       stringstyle=\color{red!30!fibeamer@white}}
1146   }{%
1147     \end{group}

```

Outside the darkframes environment, the light theme is used.

```

1148 %% Structures
1149 \setbeamercolor{frametitle}{fg=fibeamer@blue}
1150 \setbeamercolor{framesubtitle}{fg=fibeamer@black!75!fibeamer@white}
1151 %% Text
1152 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
1153 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}
1154 \setbeamercolor{alerted text}{fg=red}
1155 \addtobeamertemplate{block begin}{%

```

```

1156 \iffibeamer@dark % alerted text in plain block at dark slides
1157 \setbeamercolor{alerted text}{fg=fibeamer@orange}%
1158 \fi}{}

1159 %% Items, footnotes and links
1160 \setbeamercolor{item}{fg=fibeamer@blue}
1161 \setbeamercolor{footnote mark}{fg=fibeamer@blue}
1162 \hypersetup{urlcolor=fibeamer@blue}
1163 %% Blocks
1164 \setbeamercolor{block title}{%
1165 fg=fibeamer@white, bg=fibeamer@blue}
1166 \setbeamercolor{block title example}{%
1167 fg=fibeamer@white, bg=fibeamer@blue}
1168 \setbeamercolor{block title alerted}{%
1169 fg=fibeamer@white, bg=red}
1170 \setbeamercolor{block body}{%
1171 fg=fibeamer@blue, bg=fibeamer@gray!20!fibeamer@white}
1172 %% Title
1173 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@blue}
1174 % Code listings
1175 \lstset{%
1176 basicstyle=\footnotesize\ttfamily,
1177 breakatwhitespace=false,
1178 breaklines=true,
1179 commentstyle=\color{green!60!fibeamer@black},
1180 extendedchars=true,
1181 keywordstyle=\color{fibeamer@brightBlue!50!fibeamer@blue},
1182 showspaces=false,
1183 showstringspaces=false,
1184 showtabs=false,
1185 stringstyle=\color{violet}}
1186 \mode
1187 <all>

```

Index

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

Symbols		526, 615, 706, 797, 886, 975, 1064, 1155
\-	220	\addtolength 283, 288
\ifpackageloaded	85	\AtBeginDocument 142, 223
\ifundefined	256, 257	
\@latex@error	97	
A		B
\addtobeamer template	434,	\baselineskip 341, 344, 364
		\begin 179, 187, 310, 325, 341, 347, 361, 369
		\begin group 96, 97, 396,

	487, 577, 668, 759, 848, 937, 1026, 1117		
\bfseries	207, 211		
\boolean	149, 177		
\bullet	219		
C			
\c@framenum	177, 309		
\carlitoOsF	130		
\cite	224, 225		
\clip	180, 188		
\color	422, 423, 424, 460, 462, 466, 514, 515, 516, 550, 552, 556, 603, 604, 605, 639, 641, 645, 694, 695, 696, 732, 734, 738, 785, 786, 787, 821, 823, 827, 874, 875, 876, 910, 912, 916, 963, 964, 965, 999, 1001, 1005, 1052, 1053, 1054, 1089, 1091, 1095, 1143, 1144, 1145, 1179, 1181, 1185		
\colorlet	384, 385, 386, 389, 391, 392, 393, 394, 477, 478, 480, 482, 483, 484, 485, 566, 567, 570, 572, 573, 574, 575, 656, 657, 658, 659, 660, 663, 664, 665, 666, 748, 749, 752, 754, 755, 756, 757, 837, 838, 841, 843, 844, 845, 846, 926, 927, 930, 932, 933, 934, 935, 1015, 1016, 1019, 1021, 1022, 1023, 1024, 1105, 1107, 1110, 1112, 1113, 1114, 1115		
D			
\darkframes	169		
\DeclareFontFamily	134		
\DeclareFontShape	135, 136, 137, 138, 139, 140		
\DeclareOptionBeamer	3, 5, 7, 9, 10, 12, 18, 21, 23, 68, 72, 76, 80		
\def	10, 12, 14, 19, 20, 22, 25, 27, 30, 69, 73, 76, 80, 81, 84, 86, 102, 103, 104, 105, 106, 107, 109, 225		
\defbeamertemplate	175, 219, 220, 221, 222, 228, 233, 239, 297, 298, 299, 308, 320		
\definecolor	380, 381, 382, 383, 387, 388, 473, 474, 475, 476, 479, 563, 564, 565, 568, 569, 652, 653, 654, 655, 661, 745, 746, 747, 750, 751, 834, 835, 836, 839, 840, 923, 924, 925, 928, 929, 1012, 1013, 1014, 1017, 1018, 1102, 1103, 1104, 1106, 1108, 1109		
E			
\else	17, 26, 33, 37, 40, 44, 48, 51, 55, 58, 63, 112, 255, 309, 435, 707		
\empty	30, 31, 35, 42, 46, 70, 74		
\end	185, 193, 318, 336, 343, 356, 364, 372		
\endgroup	426, 518, 607, 698, 789, 878, 967, 1056, 1147		
\ExecuteOptionsBeamer	4, 8, 11, 13, 29, 71, 75, 77		
\expandafter	110, 111, 113, 115, 116		
F			
\fi	17, 28, 39, 53, 54, 60, 61, 62, 65, 66, 67, 114, 121, 159, 260, 319, 437, 529, 618, 709, 800, 889, 978, 1067, 1158		
\fibeamer@basePath	23, 32, 52, 59, 64		
\fibeamer@darkfalse	174		
\fibeamer@darktrue	397, 488, 578, 669, 760, 849, 938, 1027, 1118		
\fibeamer@empty	24		
\fibeamer@faculty	12, 79, 83, 91		
\fibeamer@fallbackLogo	80, 98		
\fibeamer@fontsfalse	5		
\fibeamer@fontstrue	3		
\fibeamer@includeLogo	92, 332		
\fibeamer@lengths@baseunit	263, 264, 268, 272, 279, 293		
\fibeamer@lengths@clipbottom	180, 188, 281, 282, 283, 284, 285, 289		
\fibeamer@lengths@cliptop	181, 189, 286, 287, 288		
\fibeamer@lengths@footerpad	266, 267, 312, 313		
\fibeamer@lengths@logoheight	294, 295, 329, 334		
\fibeamer@lengths@logowidth	291, 292, 296, 328, 333		
\fibeamer@lengths@margin	270, 271, 274, 275		
\fibeamer@lengths@titleline	277, 278, 301		
\fibeamer@locale	14, 20		
\fibeamer@logo	76, 101		
\fibeamer@logoLocale	20, 79		
\fibeamer@logoPath	72, 78, 82		
\fibeamer@microtypefalse	9		
\fibeamer@microtypetrue	7		
\fibeamer@oldcite	224, 227		
\fibeamer@patch	102		
\fibeamer@patch@action	104, 110		

\fibeamer@patch@arg	106, 108, 112	\inserttocsubsection	238
\fibeamer@patch@next	105, 109, 111, 113, 115	\inserttocsubsectionnumber	236, 243
\fibeamer@patch@relax	107, 112	\inserttocsubsubsection	246
\fibeamer@patch@versions	103, 116	\inserttocsubsubsectionnumber	244
\fibeamer@require	84, 87, 88, 90, 92	\inserttotalframenumber	317
\fibeamer@requireTheme	86, 162, 163, 164, 165	\itshape	210
\fibeamer@subdir	30, 69, 73	K	
\fibeamer@themePath	68, 87, 88, 90	\kern	232, 238, 246
\fibeamer@university	10, 75, 78, 82, 88, 89, 90, 91	L	
\fibeamer@version	1	\language	16, 17
\fibeamer@version@number	108	\LARGE	207
\file	10	\Large	208, 209
\font	134	\large	210, 212
\footnotesize	457, 547, 636, 729, 818, 907, 996, 1086, 1176	\leftmargini	234, 240
G		\leftmarginii	241
\Gin@ii	95	\let	224
\guillemotright	221	\lstset	421, 456, 513, 546, 602, 635, 693, 728, 784, 817, 873, 906, 962, 995, 1051, 1085, 1142, 1175
H		M	
\hspace	234, 240, 241	\mode	122, 160, 170, 200, 205, 213, 218, 247, 252, 374, 379, 467, 472, 557, 562, 646, 651, 739, 744, 828, 833, 917, 922, 1006, 1011, 1096, 1101, 1186
\hypersetup	199, 408, 441, 500, 533, 589, 622, 680, 713, 771, 804, 860, 893, 949, 982, 1038, 1071, 1129, 1162	N	
I		\NeedsTeXFormat	166, 202, 215, 249, 376, 469, 559, 648, 741, 830, 919, 1008, 1098
\if	34, 41, 45, 49, 56	\newcommand	93
\iffibeamer@dark	174, 435, 527, 616, 707, 798, 887, 976, 1065, 1156	\newdimen	256, 257
\iffibeamer@fonts	1, 124	\newenvironment	169
\iffibeamer@microtype	6, 119	\newif	2, 6, 174
\IfFileExists	84	\newlength	263, 266, 270, 277, 281, 286, 291, 294
\ifnum	309	\node	311, 331
\ifpdf	255	\normalsize	206
\ifthenelse	149, 176	O	
\ifx	16, 24, 31, 35, 42, 46, 108, 112	\oldstylenums	130
\includegraphics	95, 98, 101	\OR	149, 177
\insertauthor	371	P	
\insertbiblabel	222	\paperheight	259, 283
\insertframenumber	317	\paperwidth	181, 184, 189, 192, 258, 282, 287
\insertframesubtitle	307	\par	232, 238, 246, 304
\insertframetitle	304	\patchcmd	95
\insertsubtitle	363	\path	182, 190
\inserttitle	342		
\inserttocsection	232		
\inserttocsectionnumber	230, 236, 243		

v1.0.2	General: Added the opt-out microtype option. [VN]	3	macro. [VN]	7
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	v1.1.0:6	General: Added support for the \tableofcontents to the themes of the Masaryk University in Brno. [VN]
v1.0.4	General: Updated the user guide of the Masaryk University in Brno. [VN]	1		Added the logo dimension definitions to the themes of the Masaryk University in Brno. [VN]
v1.1.0:1	\fibeamer@locale: Added the locale option and the \fibeamer@locale macro. [VN]	4		Updated the example documents of the Masaryk University in Brno to showcase the use of the \tableofcontents. [VN]
	\fibeamer@logo: Changed the implicit value of the \fibeamer@logo macro. [VN]	6	v1.1.0:7	General: Added support for \alert to the themes of the Masaryk University in Brno. [VN]
	General: Added the new logo files for the faculties of the Masaryk University in Brno and removed the old logo files. [VN]	1		Updated the example documents of the Masaryk University in Brno to showcase the use of \alert. [VN]
	The faculty logos are no longer displayed on regular slides, as per the new unified design of the Masaryk University in Brno. [VN]	14	v1.1.0:8	General: Added support for colored citations to the themes of the Masaryk University in Brno. [VN]
v1.1.0:2	\fibeamer@logoLocale: Added the logoLocale option and the \fibeamer@logoLocale macro. [VN]	4	v1.1.1:1	\fibeamer@fallbackLogo: Added the fallbackLogo option. [VN]
v1.1.0:3	\fibeamer@fallbackLogo: Added the \fibeamer@fallbackLogo macro. [VN]	7	v1.1.1:2	General: Added proper coloring of \qed to the themes of the Masaryk University in Brno. [VN]
v1.1.0:4	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	v1.1.1:3	General: Refactored the themes of the Masaryk University in Brno. Removed the useless uses of use in the color themes. Replaced \setbeamertheme in the inner theme with the more appropriate \defbeamertheme*. Added missing %s. [VN]
v1.1.0:5	\fibeamer@includeLogo: Added the \fibeamer@includeLogo		v1.1.2	\fibeamer@patch: Added \fibeamer@patch.
				8

v1.1.3	General: Added visual tests of output PDFs.	11, 17–22, 24, 26–31, 33, 35, 36
v1.1.4:1	General: Completely revamped the color theme of the Faculty of Education at the Masaryk University in Brno. [VN]	23
v1.1.4:2	General: Removed gradient backgrounds from the color themes of the Masaryk University in Brno. [VN]	16, 19, 21, 23, 26, 28, 30, 32, 34
v1.1.4:3	General: Added proper link coloring for the color themes of the Masaryk University in Brno. [VN]	
v1.1.4:4	General: Added support for subtitle and author name coloring within the color themes of the Masaryk University in Brno. [VN]	16, 18, 25
v1.1.4:5	General: Unified the alert colors in the color themes of the Masaryk University in Brno. [VN]	17, 19–22, 24, 26–31, 33, 35
v1.1.5:1	General: Added pdfencoding to the hyperref package setup. This fixes the problem with garbled characters in PDF metadata with LuaTeX.	1
v1.1.5:2	General: Updated the light color theme of the Faculty of Informatics at the Masaryk University in Brno. [VN]	17