

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 \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@fontfalse}
```

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 `\{<university=identifier>\}` 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 `\{<faculty=identifier>\}` 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\languagename\undefined%
17 english\else\languagename\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 X_YTeX and LuaTeX engines.
- fontspec – This package is used to load fonts. This package is only used with the X_YTeX and LuaTeX engines.

```

122 \mode<presentation>
123 % Set up the fonts
124 \iffibeamer@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}[2016/01/14]

```

`\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.

```

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\fibeamer@darkfalse

```

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

```

175 \defbeamer*template*{background canvas}{fibeamer}{%
176 \ifthenelse{%
177 \boolean{fibeamer@dark} \OR \c@framenummer=0
178 }{%
179 \begin{tikzpicture}
180 \clip (0,\fibeamer@lengths@clipbottom) rectangle
181 (\paperwidth,\fibeamer@lengths@cliptop);
182 \path [inner color = fibeamer@backgroundInner,
183 outer color = fibeamer@backgroundOuter]
184 (0,0) rectangle (\paperwidth,\paperwidth);
185 \end{tikzpicture}
186 }{}}

```

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

```

187 \setbeamer*color{qed symbol}{%
188 use=block body,
189 fg=block body.fg,
190 bg=block body.bg}
191 \mode
192 <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.

```

193 \NeedsTeXFormat{LaTeX2e}
194 \ProvidesPackage{fibeamer/theme/mu/%
195 beamerfontthemefibeamer-mu}[2016/01/12]
196 \mode<presentation>
197 \setbeamerfont{normal text}{size=\normalsize}
198 \setbeamerfont{title}{size=\LARGE, series=\bfseries}
199 \setbeamerfont{subtitle}{parent=normal text, size=\Large}
200 \setbeamerfont{frametitle}{size=\Large}
201 \setbeamerfont{framesubtitle}{size=\large, shape=\itshape}

```

```

202 \setbeamerfont{description item}{series=\bfseries}
203 \setbeamerfont{author}{size=\large}
204 \mode
205 <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.

```

206 \NeedsTeXFormat{LaTeX2e}
207 \ProvidesPackage{fibeamer/theme/mu/%
208   beamerinnerthemefibeamer-mu}[2016/01/14]
209 \mode<presentation>

```

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

```

210 \defbeamertemplate*{itemize item}{fibeamer}{\bullet$}
211 \defbeamertemplate*{itemize subitem}{fibeamer}{\---}
212 \defbeamertemplate*{itemize subsubitem}{fibeamer}{\guillemotright}

```

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

```

213 \defbeamertemplate*{bibliography item}{fibeamer}{\insertbiblabel}
214 \AtBeginDocument{%
215   \let\fibeamer@oldcite\cite
216   \def\cite#1{%
217     \usebeamercolor[fg]{item}%
218     \fibeamer@oldcite{#1}}}

```

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

```

219 \defbeamertemplate*{section in toc}{fibeamer}{%
220   \usebeamercolor[fg]{item}%
221   \inserttocsectionnumber.%
222   \usebeamercolor[fg]{structure}%
223   \kern1.25ex\inserttocsection\par}
224 \defbeamertemplate*{subsection in toc}{fibeamer}{%
225   \hspace\leftmargini
226   \usebeamercolor[fg]{item}%
227   \inserttocsectionnumber.\inserttocsubsectionnumber%
228   \usebeamercolor[fg]{structure}%
229   \kern1.25ex\inserttocsubsection\par}
230 \defbeamertemplate*{subsubsection in toc}{fibeamer}{%
231   \hspace\leftmargini
232   \hspace\leftmarginii
233   \usebeamercolor[fg]{item}%
234   \inserttocsectionnumber.\inserttocsubsectionnumber.%
235   \inserttocsubsubsectionnumber%
236   \usebeamercolor[fg]{structure}%
237   \kern1.25ex\inserttocsubsubsection\par}
238 \mode
239 <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.

```
240 \NeedsTeXFormat{LaTeX2e}
241 \ProvidesPackage{fibeamer/theme/mu/%
242   beamerouterthemefibeamer-mu}[2016/01/12]
243 \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.

```
244 \RequirePackage{ifthen}
245 \RequirePackage{ifpdf}
246 \ifpdf\else
247   \@ifundefined{pdfpagewidth}{\newdimen\pdfpagewidth}{}
248   \@ifundefined{pdfpageheight}{\newdimen\pdfpageheight}{}
249   \pdfpagewidth=\paperwidth
250   \pdfpageheight=\paperheight
251 \fi
252 \RequirePackage{tikz}
253 \RequirePackage{pgfcore}
```

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

```
254 \newlength\fibeamer@lengths@baseunit
255 \fibeamer@lengths@baseunit=3.75mm
256 % The footer padding
257 \newlength\fibeamer@lengths@footerpad
258 \setlength\fibeamer@lengths@footerpad{%
259   \fibeamer@lengths@baseunit}
260 % The side margins
261 \newlength\fibeamer@lengths@margin
262 \setlength\fibeamer@lengths@margin{%
263   3\fibeamer@lengths@baseunit}
264 \setbeamersize{
265   text margin left=\fibeamer@lengths@margin,
266   text margin right=\fibeamer@lengths@margin}
267 % The upper margin
268 \newlength\fibeamer@lengths@titleline
269 \setlength\fibeamer@lengths@titleline{%
```

```

270   3\fi beamer@lengths@baseunit}
271 % The background clipping
272 \newlength\fi beamer@lengths@clipbottom
273 \setlength\fi beamer@lengths@clipbottom\paperwidth
274 \addtolength\fi beamer@lengths@clipbottom{-\paperheight}
275 \setlength\fi beamer@lengths@clipbottom{%
276   0.5\fi beamer@lengths@clipbottom}
277 \newlength\fi beamer@lengths@cliptop
278 \setlength\fi beamer@lengths@cliptop\paperwidth
279 \addtolength\fi beamer@lengths@cliptop{%
280   -\fi beamer@lengths@clipbottom}

281 % The logo size
282 \newlength\fi beamer@lengths@logowidth
283 \setlength\fi beamer@lengths@logowidth{%
284   14\fi beamer@lengths@baseunit}
285 \newlength\fi beamer@lengths@logoheight
286 \setlength\fi beamer@lengths@logoheight{%
287   0.4\fi beamer@lengths@logowidth}

```

The outer theme completely culls the bottom navigation.

```
288 \defbeamer*template*{navigation symbols}{fi beamer}{}

```

The outer theme also culls the headline.

```
289 \defbeamer*template*{headline}{fi beamer}{}

```

The frame title.

```

290 \defbeamer*template*{frametitle}{fi beamer}{%
291   \vskip-1em % Align the text with the top border
292   \vskip\fi beamer@lengths@titleline
293   \usebeamer*color[fg]{frametitle}%
294   \usebeamer*font{frametitle}%
295   \insertframetitle\par%
296   \usebeamer*color[fg]{framesubtitle}%
297   \usebeamer*font{framesubtitle}%
298   \insertframesubtitle}

```

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

```

299 \defbeamer*template*{footline}{fi beamer}{%
300   \ifnum\c@framenum ber=0\else%
301     \begin{tikzpicture}[overlay]
302       \node[anchor=south east,
303         yshift=\fi beamer@lengths@footerpad,
304         xshift=-\fi beamer@lengths@footerpad] at
305         (current page.south east) {
306           \usebeamer*color[fg]{framenum ber}%
307           \usebeamer*font{framenum ber}%
308           \insertframenum ber/\inserttotalframenum ber};
309     \end{tikzpicture}
310   \fi}

```

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

```
311 \defbeamertemplate*{title page}{fibeamer}{%
312 % This is slide 0
313 \setcounter{framenumbers}{0}
314
315 % Input the university logo
316 \begin{tikzpicture}[
317   remember picture,
318   overlay,
319   xshift=0.5\fibeamer@lengths@logowidth,
320   yshift=0.5\fibeamer@lengths@logoheight
321 ]
322   \node at (0,0) {
323     \fibeamer@includeLogo[
324       width=\fibeamer@lengths@logowidth,
325       height=\fibeamer@lengths@logoheight
326     ]};
327 \end{tikzpicture}
328
329 % Input the title
330 \usebeamerfont{title}%
331 \usebeamercolor[fg]{title}%
332 \begin{minipage}[b][2\baselineskip][b]{\textwidth}%
333   \raggedright%
334   \inserttitle%
335 \end{minipage}
336 \vskip-.5\baselineskip
337
338 % Input the dashed line
339 \begin{pgfpicture}
340   \pgfsetlinewidth{2pt}
341   \pgfsetroundcap
342   \pgfsetdash{{0pt}{4pt}}{0cm}
343
344   \pgfpathmoveto{\pgfpoint{0mm}{0mm}}
345   \pgfpathlineto{\pgfpoint{\textwidth}{0mm}}
346
347   \pgfusepath{stroke}
348 \end{pgfpicture}
349 \vfill
350
351 % Input the subtitle
352 \usebeamerfont{subtitle}%
353 \begin{minipage}{\textwidth}
354   \raggedright%
355   \insertsubtitle%
356 \end{minipage}\vskip.25\baselineskip
357
358 % Input the author's name
```

```

359 \usebeamerfont{author}%
360 \begin{minipage}{\textwidth}
361   \raggedright%
362   \insertauthor%
363 \end{minipage}}
364
365 \mode
366 <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.

```

367 \NeedsTeXFormat{LaTeX2e}
368 \ProvidesPackage{fibeamer/theme/mu/%
369   beamercolorthemefibeamer-mu-fi}[2016/01/14]
370 \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.

```

371 \definecolor{fibeamer@gold}{HTML}{a47312}
372 \definecolor{fibeamer@yellow}{HTML}{FFEB9C}
373 \definecolor{fibeamer@darkYellow}{HTML}{FFB600}
374 \definecolor{fibeamer@orange}{HTML}{FF5500}
375 \definecolor{fibeamer@gray}{HTML}{999999}
376 \colorlet{fibeamer@blue}{blue!60!fibeamer@gray}
377 \colorlet{fibeamer@backgroundInner}{fibeamer@gold}
378 \colorlet{fibeamer@backgroundOuter}{fibeamer@gold!60!black}

```

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

```

379 \renewenvironment{darkframes}{%
380   \begingroup
381     \fibeamer@darktrue
382     %% Structures
383     \setbeamercolor*{frametitle}{fg=fibeamer@gold!30!white}
384     \setbeamercolor*{framesubtitle}{fg=white}
385     %% Text
386     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@gold}
387     \setbeamercolor*{structure}{fg=white, bg=fibeamer@gold}
388     \setbeamercolor*{alerted text}{%
389       fg=fibeamer@gold!70!white!20!fibeamer@darkYellow}
390     %% Items

```



```

391 \setbeamercolor*{item}{fg=fibeamer@gold!30!white}
392 \setbeamercolor*{footnote mark}{fg=fibeamer@gold!30!white}
393 %% Blocks
394 \setbeamercolor*{block title}{%
395   fg=white, bg=fibeamer@gold!60!white}
396 \setbeamercolor*{block title example}{%
397   fg=white, bg=fibeamer@gold!60!white}
398 \setbeamercolor*{block title alerted}{%
399   fg=white, bg=fibeamer@gold!90!white}
400 \setbeamercolor*{block body}{%
401   fg=fibeamer@gold,
402   bg=fibeamer@gray!15!white}
403 \usebeamercolor*{normal text}
404 % Code listings
405 \lstset{%
406   commentstyle=\color{green!30!white},
407   keywordstyle=\color{blue!30!white},
408   stringstyle=\color{fibeamer@gold!30!white}}
409 }{%
410 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

411 %% Structures
412 \setbeamercolor{frametitle}{fg=black!75!white}
413 \setbeamercolor{framesubtitle}{fg=black!50!white}
414 %% Text
415 \setbeamercolor{normal text}{fg=black!75!white, bg=white}
416 \setbeamercolor{structure}{fg=black!75!white, bg=white}
417 \setbeamercolor{alerted text}{fg=fibeamer@orange}
418 \addtobeamertemplate{block begin}{%
419   \iffibeamer@dark % alerted text in plain block at dark slides
420     \setbeamercolor{alerted text}{%
421       fg=fibeamer@gold!30!fibeamer@darkYellow}%
422   \fi}{}
423 %% Items
424 \setbeamercolor{item}{fg=fibeamer@darkYellow}
425 \setbeamercolor{footnote mark}{fg=fibeamer@darkYellow}
426 %% Blocks
427 \setbeamercolor{block title}{%
428   fg=black!75!white, bg=fibeamer@yellow}
429 \setbeamercolor{block title example}{%
430   fg=black!75!white, bg=fibeamer@yellow}
431 \setbeamercolor{block title alerted}{%
432   fg=white, bg=black!75!white}
433 \setbeamercolor{block body}{%
434   fg=fibeamer@yellow, bg=black!75!white}
435 %% Title
436 \setbeamercolor{title}{fg=white, bg=fibeamer@gold}
437 % Code listings

```

```

438 \lstset{%
439   basicstyle=\footnotesize\ttfamily,
440   breakatwhitespace=false,
441   breaklines=true,
442   commentstyle=\color{green!60!black},
443   extendedchars=true,
444   keywordstyle=\color{fibeamer@blue},
445   showspaces=false,
446   showstringspaces=false,
447   showtabs=false,
448   stringstyle=\color{violet}}
449 \mode
450 <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.

```

451 \NeedsTeXFormat{LaTeX2e}
452 \ProvidesPackage{fibeamer/theme/mu/%
453   beamercolorthemefibeamer-mu-sci}[2016/01/14]
454 \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.

```

455 \definecolor{fibeamer@green}{HTML}{139632}
456 \definecolor{fibeamer@gray}{HTML}{999999}
457 \definecolor{fibeamer@brightGreen}{HTML}{2ECE0F}
458 \colorlet{fibeamer@backgroundInner}{fibeamer@green!90!black}
459 \colorlet{fibeamer@backgroundOuter}{fibeamer@green!60!black}

```

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

```

460 \renewenvironment{darkframes}{%
461   \begingroup
462     \fibeamer@darktrue
463     %% Structures
464     \setbeamercolor*{frametitle}{fg=fibeamer@green!30!white}
465     \setbeamercolor*{framesubtitle}{fg=white}
466     %% Text
467     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@green}
468     \setbeamercolor*{structure}{fg=white, bg=fibeamer@green}

469     \setbeamercolor*{alerted text}{%
470       fg=fibeamer@brightGreen!75!white}

```

```

471 %% Items
472 \setbeamercolor*{item}{fg=fibeamer@green!30!white}
473 \setbeamercolor*{footnote mark}{fg=fibeamer@green!30!white}
474 %% Blocks
475 \setbeamercolor*{block title}{%
476   fg=white, bg=fibeamer@green!60!white}
477 \setbeamercolor*{block title example}{%
478   fg=white, bg=fibeamer@green!60!white}
479 \setbeamercolor*{block title alerted}{%
480   fg=white, bg=fibeamer@green}
481 \setbeamercolor*{block body}{%
482   fg=fibeamer@green,
483   bg=fibeamer@gray!15!white}
484 \usebeamercolor*{normal text}
485 % Code listings
486 \lstset{%
487   commentstyle=\color{green!30!white},
488   keywordstyle=\color{blue!30!white},
489   stringstyle=\color{red!30!white}}
490 }{%
491 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

492 %% Structures
493 \setbeamercolor{frametitle}{fg=fibeamer@green}
494 \setbeamercolor{framesubtitle}{fg=black!75!white}
495 %% Text
496 \setbeamercolor{normal text}{fg=black, bg=white}
497 \setbeamercolor{structure}{fg=black, bg=white}

498 \setbeamercolor{alerted text}{fg=fibeamer@brightGreen}
499 \addtobeamertemplate{block begin}{%
500   \iffibeamer@dark % alerted text in plain block at dark slides
501     \setbeamercolor{alerted text}{fg=fibeamer@brightGreen!90!white}%
502   \else % alerted text in plain block at light slides
503     \setbeamercolor{alerted text}{fg=fibeamer@brightGreen!80!white}%
504   \fi}{}
505 %% Items
506 \setbeamercolor{item}{fg=fibeamer@green}
507 \setbeamercolor{footnote mark}{fg=fibeamer@green}
508 %% Blocks
509 \setbeamercolor{block title}{%
510   fg=white, bg=fibeamer@green!50!white}
511 \setbeamercolor{block title example}{%
512   fg=white, bg=fibeamer@green!50!white}
513 \setbeamercolor{block title alerted}{%
514   fg=white, bg=fibeamer@green}
515 \setbeamercolor{block body}{%
516   fg=fibeamer@green, bg=fibeamer@gray!20!white}
517 %% Title

```

```

518 \setbeamercolor{title}{fg=white, bg=fibeamer@green}
519 % Code listings
520 \lstset{%
521   basicstyle=\footnotesize\ttfamily,
522   breakatwhitespace=false,
523   breaklines=true,
524   commentstyle=\color{green!60!black},
525   extendedchars=true,
526   keywordstyle=\color{blue},
527   showspaces=false,
528   showstringspaces=false,
529   showtabs=false,
530   stringstyle=\color{violet}}
531 \mode
532 <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.

```

533 \NeedsTeXFormat{LaTeX2e}
534 \ProvidesPackage{fibeamer/theme/mu/%
535   beamercolorthemefibeamer-mu-phil}[2016/01/14]
536 \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.

```

537 \definecolor{fibeamer@blue}{HTML}{0071B2}
538 \definecolor{fibeamer@brightBlue}{HTML}{38B3FA}
539 \definecolor{fibeamer@gray}{HTML}{999999}
540 \colorlet{fibeamer@backgroundInner}{fibeamer@blue!80!black}
541 \colorlet{fibeamer@backgroundOuter}{fibeamer@blue!60!black}

```

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

```

542 \renewenvironment{darkframes}{%
543   \begingroup
544     \fibeamer@darktrue
545     %% Structures
546     \setbeamercolor*{frametitle}{fg=fibeamer@blue!30!white}
547     \setbeamercolor*{framesubtitle}{fg=white}
548     %% Text
549     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@blue}
550     \setbeamercolor*{structure}{fg=white, bg=fibeamer@blue}

```

```

551 \setbeamercolor*{alerted text}{fg=fibeamer@brightBlue!75!white}
552 %% Items
553 \setbeamercolor*{item}{fg=fibeamer@blue!30!white}
554 \setbeamercolor*{footnote mark}{fg=fibeamer@blue!30!white}
555 %% Blocks
556 \setbeamercolor*{block title}{%
557   fg=white, bg=fibeamer@blue!60!white}
558 \setbeamercolor*{block title example}{%
559   fg=white, bg=fibeamer@blue!60!white}
560 \setbeamercolor*{block title alerted}{%
561   fg=white, bg=fibeamer@blue}
562 \setbeamercolor*{block body}{%
563   fg=fibeamer@blue,
564   bg=fibeamer@gray!15!white}
565 \usebeamercolor*{normal text}
566 % Code listings
567 \lstset{%
568   commentstyle=\color{green!30!white},
569   keywordstyle=\color{fibeamer@blue!30!white},
570   stringstyle=\color{red!30!white}}
571 }{%
572 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

573 %% Structures
574 \setbeamercolor{frametitle}{fg=fibeamer@blue}
575 \setbeamercolor{framesubtitle}{fg=black!75!white}
576 %% Text
577 \setbeamercolor{normal text}{fg=black, bg=white}
578 \setbeamercolor{structure}{fg=black, bg=white}

579 \setbeamercolor{alerted text}{fg=fibeamer@brightBlue}
580 \addtobeamertemplate{block begin}{%
581   \iffibeamer@dark % alerted text in plain block at dark slides
582     \setbeamercolor{alerted text}{fg=fibeamer@brightBlue}%
583   \else % alerted text in plain block at light slides
584     \setbeamercolor{alerted text}{fg=fibeamer@brightBlue!80!white}%
585   \fi}{}
586 %% Items
587 \setbeamercolor{item}{fg=fibeamer@blue}
588 \setbeamercolor{footnote mark}{fg=fibeamer@blue}
589 %% Blocks
590 \setbeamercolor{block title}{%
591   fg=white, bg=fibeamer@blue!50!white}
592 \setbeamercolor{block title example}{%
593   fg=white, bg=fibeamer@blue!50!white}
594 \setbeamercolor{block title alerted}{%
595   fg=white, bg=fibeamer@blue}
596 \setbeamercolor{block body}{%
597   fg=fibeamer@blue, bg=fibeamer@gray!20!white}

```

```

598 %% Title
599 \setbeamercolor{title}{fg=white, bg=fibeamer@blue}
600 % Code listings
601 \lstset{%
602   basicstyle=\footnotesize\ttfamily,
603   breakatwhitespace=false,
604   breaklines=true,
605   commentstyle=\color{green!60!black},
606   extendedchars=true,
607   keywordstyle=\color{fibeamer@blue},
608   showspaces=false,
609   showstringspaces=false,
610   showtabs=false,
611   stringstyle=\color{violet}}
612 \mode
613 <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.

```

614 \NeedsTeXFormat{LaTeX2e}
615 \ProvidesPackage{fibeamer/theme/mu/%
616   beamercolorthemefibeamer-mu-ped}[2016/01/14]
617 \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.

```

618 \definecolor{fibeamer@gold}{HTML}{CF7000}
619 \definecolor{fibeamer@orange}{HTML}{FABE6E}
620 \definecolor{fibeamer@darkOrange}{HTML}{F89C22}
621 \definecolor{fibeamer@brightOrange}{HTML}{FF4000}
622 \definecolor{fibeamer@gray}{HTML}{999999}
623 \colorlet{fibeamer@backgroundInner}{fibeamer@gold}
624 \colorlet{fibeamer@backgroundOuter}{fibeamer@gold!60!black}

```

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

```

625 \renewenvironment{darkframes}{%
626   \begingroup
627     \fibeamer@darktrue
628     %% Structures
629     \setbeamercolor*{frametitle}{fg=fibeamer@gold!30!white}
630     \setbeamercolor*{framesubtitle}{fg=white}

```

```

631 %% Text
632 \setbeamercolor*{normal text}{fg=white, bg=fibeamer@gold}
633 \setbeamercolor*{structure}{fg=white, bg=fibeamer@gold}

634 \setbeamercolor*{alerted text}{%
635   fg=white!40!fibeamer@brightOrange}
636 %% Items
637 \setbeamercolor*{item}{fg=fibeamer@gold!30!white}
638 \setbeamercolor*{footnote mark}{fg=fibeamer@gold!30!white}
639 %% Blocks
640 \setbeamercolor*{block title}{%
641   fg=white, bg=fibeamer@gold!60!white}
642 \setbeamercolor*{block title example}{%
643   fg=white, bg=fibeamer@gold!60!white}
644 \setbeamercolor*{block title alerted}{%
645   fg=white, bg=fibeamer@gold!90!white}
646 \setbeamercolor*{block body}{%
647   fg=fibeamer@gold,
648   bg=fibeamer@gray!15!white}
649 \usebeamercolor*{normal text}
650 % Code listings
651 \lstset{%
652   commentstyle=\color{green!30!white},
653   keywordstyle=\color{blue!30!white},
654   stringstyle=\color{fibeamer@gold!30!white}}
655 }{%
656 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

657 %% Structures
658 \setbeamercolor{frametitle}{fg=fibeamer@darkOrange}
659 \setbeamercolor{framesubtitle}{fg=black!60!white}
660 %% Text
661 \setbeamercolor{normal text}{fg=black!75!white, bg=white}
662 \setbeamercolor{structure}{fg=black!75!white, bg=white}

663 \setbeamercolor{alerted text}{fg=fibeamer@brightOrange}
664 \addtobeamertemplate{block begin}{%
665   \iffibeamer@dark % alerted text in plain block at dark slides
666     \setbeamercolor{alerted text}{%
667       fg=white!20!fibeamer@brightOrange}%
668   \else % alerted text in plain block at light slides
669     \setbeamercolor{alerted text}{%
670       fg=white!20!fibeamer@brightOrange}%
671   \fi}{}
672 %% Items
673 \setbeamercolor{item}{fg=fibeamer@darkOrange}
674 \setbeamercolor{footnote mark}{fg=fibeamer@darkOrange}
675 %% Blocks
676 \setbeamercolor{block title}{%
677   fg=black!75!white, bg=fibeamer@orange}

```

```

678 \setbeamercolor{block title example}{%
679   fg=black!75!white, bg=fibeamer@orange}
680 \setbeamercolor{block title alerted}{%
681   fg=white, bg=black!75!white}
682 \setbeamercolor{block body}{%
683   fg=fibeamer@orange, bg=black!75!white}
684 %% Title
685 \setbeamercolor{title}{fg=white, bg=fibeamer@gold}
686 % Code listings
687 \lstset{%
688   basicstyle=\footnotesize\ttfamily,
689   breakatwhitespace=false,
690   breaklines=true,
691   commentstyle=\color{green!60!black},
692   extendedchars=true,
693   keywordstyle=\color{blue},
694   showspaces=false,
695   showstringspaces=false,
696   showtabs=false,
697   stringstyle=\color{violet}}
698 \mode
699 <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.

```

700 \NeedsTeXFormat{LaTeX2e}
701 \ProvidesPackage{fibeamer/theme/mu/%
702   beamercolorthemefibeamer-mu-fss}[2016/01/14]
703 \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.

```

704 \definecolor{fibeamer@cyan}{HTML}{00796E}
705 \definecolor{fibeamer@brightCyan}{HTML}{06c696}
706 \definecolor{fibeamer@gray}{HTML}{999999}
707 \colorlet{fibeamer@backgroundInner}{fibeamer@cyan!80!black}
708 \colorlet{fibeamer@backgroundOuter}{fibeamer@cyan!60!black}

```

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

```

709 \renewenvironment{darkframes}{%
710   \begingroup
711     \fibeamer@darktrue

```



```

712 %% Structures
713 \setbeamercolor*{frametitle}{fg=fibeamer@cyan!30!white}
714 \setbeamercolor*{framesubtitle}{fg=white}
715 %% Text
716 \setbeamercolor*{normal text}{fg=white, bg=fibeamer@cyan}
717 \setbeamercolor*{structure}{fg=white, bg=fibeamer@cyan}

718 \setbeamercolor*{alerted text}{fg=fibeamer@brightCyan!90!white}
719 %% Items
720 \setbeamercolor*{item}{fg=fibeamer@cyan!30!white}
721 \setbeamercolor*{footnote mark}{fg=fibeamer@cyan!30!white}
722 %% Blocks
723 \setbeamercolor*{block title}{%
724   fg=white, bg=fibeamer@cyan!60!white}
725 \setbeamercolor*{block title example}{%
726   fg=white, bg=fibeamer@cyan!60!white}
727 \setbeamercolor*{block title alerted}{%
728   fg=white, bg=fibeamer@cyan}
729 \setbeamercolor*{block body}{%
730   fg=fibeamer@cyan,
731   bg=fibeamer@gray!15!white}
732 \usebeamercolor*{normal text}
733 % Code listings
734 \lstset{%
735   commentstyle=\color{green!30!white},
736   keywordstyle=\color{blue!30!white},
737   stringstyle=\color{red!30!white}}
738 }{%
739 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

740 %% Structures
741 \setbeamercolor{frametitle}{fg=fibeamer@cyan}
742 \setbeamercolor{framesubtitle}{fg=black!75!white}
743 %% Text
744 \setbeamercolor{normal text}{fg=black, bg=white}
745 \setbeamercolor{structure}{fg=black, bg=white}

746 \setbeamercolor{alerted text}{fg=fibeamer@brightCyan}
747 \addtobeamertemplate{block begin}{%
748   \iffibeamer@dark % alerted text in plain block at dark slides
749     \setbeamercolor{alerted text}{fg=fibeamer@brightCyan}%
750   \else % alerted text in plain block at light slides
751     \setbeamercolor{alerted text}{fg=fibeamer@brightCyan!80!white}%
752   \fi}{}
753 %% Items
754 \setbeamercolor{item}{fg=fibeamer@cyan}
755 \setbeamercolor{footnote mark}{fg=fibeamer@cyan}
756 %% Blocks
757 \setbeamercolor{block title}{%
758   fg=white, bg=fibeamer@cyan!50!white}

```

```

759 \setbeamercolor{block title example}{%
760   fg=white, bg=fibeamer@cyan!50!white}
761 \setbeamercolor{block title alerted}{%
762   fg=white, bg=fibeamer@cyan}
763 \setbeamercolor{block body}{%
764   fg=fibeamer@cyan, bg=fibeamer@gray!20!white}
765 %% Title
766 \setbeamercolor{title}{fg=white, bg=fibeamer@cyan}
767 % Code listings
768 \lstset{%
769   basicstyle=\footnotesize\ttfamily,
770   breakatwhitespace=false,
771   breaklines=true,
772   commentstyle=\color{green!60!black},
773   extendedchars=true,
774   keywordstyle=\color{blue},
775   showspaces=false,
776   showstringspaces=false,
777   showtabs=false,
778   stringstyle=\color{violet}}
779 \mode
780 <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.

```

781 \NeedsTeXFormat{LaTeX2e}
782 \ProvidesPackage{fibeamer/theme/mu/%
783   beamercolorthemefibeamer-mu-law}[2016/01/14]
784 \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.

```

785 \definecolor{fibeamer@violet}{HTML}{660099}
786 \definecolor{fibeamer@brightViolet}{HTML}{B21AFF}
787 \definecolor{fibeamer@gray}{HTML}{999999}
788 \colorlet{fibeamer@backgroundInner}{fibeamer@violet}
789 \colorlet{fibeamer@backgroundOuter}{fibeamer@violet!60!black}

```

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

```

790 \renewenvironment{darkframes}{%
791   \begingroup
792     \fibeamer@darktrue

```

```

793 %% Structures
794 \setbeamercolor*{frametitle}{fg=fibeamer@violet!30!white}
795 \setbeamercolor*{framesubtitle}{fg=white}
796 %% Text
797 \setbeamercolor*{normal text}{fg=white, bg=fibeamer@violet}
798 \setbeamercolor*{structure}{fg=white, bg=fibeamer@violet}
799 \setbeamercolor*{alerted text}{%
800 fg=fibeamer@brightViolet!60!white!90!red}
801 %% Items
802 \setbeamercolor*{item}{fg=fibeamer@violet!30!white}
803 \setbeamercolor*{footnote mark}{fg=fibeamer@violet!30!white}
804 %% Blocks
805 \setbeamercolor*{block title}{%
806 fg=white, bg=fibeamer@violet!60!white}
807 \setbeamercolor*{block title example}{%
808 fg=white, bg=fibeamer@violet!60!white}
809 \setbeamercolor*{block title alerted}{%
810 fg=white, bg=fibeamer@violet!90!white}
811 \setbeamercolor*{block body}{%
812 fg=fibeamer@violet,
813 bg=fibeamer@gray!15!white}
814 \usebeamercolor*{normal text}
815 % Code listings
816 \lstset{%
817 commentstyle=\color{green!30!white},
818 keywordstyle=\color{blue!30!white},
819 stringstyle=\color{fibeamer@violet!30!white}}
820 }{%
821 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

822 %% Structures
823 \setbeamercolor{frametitle}{fg=fibeamer@violet}
824 \setbeamercolor{framesubtitle}{fg=black!75!white}
825 %% Text
826 \setbeamercolor{normal text}{fg=black, bg=white}
827 \setbeamercolor{structure}{fg=black, bg=white}
828 \setbeamercolor{alerted text}{fg=fibeamer@brightViolet}
829 \addtobeamertemplate{block begin}{%
830 \iffibeamer@dark % alerted text in plain block at dark slides
831 \setbeamercolor{alerted text}{fg=fibeamer@brightViolet!90!white}%
832 \else % alerted text in plain block at light slides
833 \setbeamercolor{alerted text}{fg=fibeamer@brightViolet!80!white}%
834 \fi}{}
835 %% Items
836 \setbeamercolor{item}{fg=fibeamer@violet}
837 \setbeamercolor{footnote mark}{fg=fibeamer@violet}
838 %% Blocks
839 \setbeamercolor{block title}{%

```

```

840 fg=white, bg=fibeamer@violet!50!white}
841 \setbeamercolor{block title example}{%
842 fg=white, bg=fibeamer@violet!50!white}
843 \setbeamercolor{block title alerted}{%
844 fg=white, bg=fibeamer@violet}
845 \setbeamercolor{block body}{%
846 fg=fibeamer@violet, bg=fibeamer@gray!20!white}
847 %% Title
848 \setbeamercolor{title}{fg=white, bg=fibeamer@violet}
849 % Code listings
850 \lstset{%
851 basicstyle=\footnotesize\ttfamily,
852 breakatwhitespace=false,
853 breaklines=true,
854 commentstyle=\color{green!60!black},
855 extendedchars=true,
856 keywordstyle=\color{blue},
857 showspaces=false,
858 showstringspaces=false,
859 showtabs=false,
860 stringstyle=\color{violet}}
861 \mode
862 <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.

```

863 \NeedsTeXFormat{LaTeX2e}
864 \ProvidesPackage{fibeamer/theme/mu/%
865 beamercolorthemefibeamer-mu-econ}[2016/01/14]
866 \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.

```

867 \definecolor{fibeamer@brown}{HTML}{892840}
868 \definecolor{fibeamer@gray}{HTML}{999999}
869 \colorlet{fibeamer@backgroundInner}{fibeamer@brown}
870 \colorlet{fibeamer@backgroundOuter}{fibeamer@brown!60!black}

```

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

```

871 \renewenvironment{darkframes}{%
872 \begingroup
873 \fibeamer@darktrue

```

```

874 %% Structures
875 \setbeamercolor*{frametitle}{fg=fibeamer@brown!30!white}
876 \setbeamercolor*{framesubtitle}{fg=white}
877 %% Text
878 \setbeamercolor*{normal text}{fg=white, bg=fibeamer@brown}
879 \setbeamercolor*{structure}{fg=white, bg=fibeamer@brown}

880 \setbeamercolor*{alerted text}{fg=red!60!white}
881 %% Items
882 \setbeamercolor*{item}{fg=fibeamer@brown!30!white}
883 \setbeamercolor*{footnote mark}{fg=fibeamer@brown!30!white}
884 %% Blocks
885 \setbeamercolor*{block title}{%
886   fg=white, bg=fibeamer@brown!60!white}
887 \setbeamercolor*{block title example}{%
888   fg=white, bg=fibeamer@brown!60!white}
889 \setbeamercolor*{block title alerted}{%
890   fg=white, bg=fibeamer@brown!90!white}
891 \setbeamercolor*{block body}{%
892   fg=fibeamer@brown,
893   bg=fibeamer@gray!15!white}
894 \usebeamercolor*{normal text}
895 % Code listings
896 \lstset{%
897   commentstyle=\color{green!30!white},
898   keywordstyle=\color{blue!30!white},
899   stringstyle=\color{fibeamer@brown!30!white}}
900 }{%
901 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

902 %% Structures
903 \setbeamercolor{frametitle}{fg=fibeamer@brown}
904 \setbeamercolor{framesubtitle}{fg=black!75!white}
905 %% Text
906 \setbeamercolor{normal text}{fg=black, bg=white}
907 \setbeamercolor{structure}{fg=black, bg=white}

908 \setbeamercolor{alerted text}{fg=red}
909 \addtobeamertemplate{block begin}{%
910   \iffibeamer@dark % alerted text in plain block at dark slides
911     \setbeamercolor{alerted text}{fg=red}%
912   \fi{}}
913 %% Items
914 \setbeamercolor{item}{fg=fibeamer@brown}
915 \setbeamercolor{footnote mark}{fg=fibeamer@brown}
916 %% Blocks
917 \setbeamercolor{block title}{%
918   fg=white, bg=fibeamer@brown!50!white}
919 \setbeamercolor{block title example}{%
920   fg=white, bg=fibeamer@brown!50!white}

```

```

921 \setbeamercolor{block title alerted}{%
922   fg=white, bg=fibeamer@brown}
923 \setbeamercolor{block body}{%
924   fg=fibeamer@brown, bg=fibeamer@gray!20!white}
925 %% Title
926 \setbeamercolor{title}{fg=white, bg=fibeamer@brown}
927 % Code listings
928 \lstset{%
929   basicstyle=\footnotesize\ttfamily,
930   breakatwhitespace=false,
931   breaklines=true,
932   commentstyle=\color{green!60!black},
933   extendedchars=true,
934   keywordstyle=\color{blue},
935   showspace=false,
936   showstringspaces=false,
937   showtabs=false,
938   stringstyle=\color{violet}}
939 \mode
940 <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.

```

941 \NeedsTeXFormat{LaTeX2e}
942 \ProvidesPackage{fibeamer/theme/mu/%
943   beamercolorthemefibeamer-mu-med}[2016/01/14]
944 \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.

```

945 \definecolor{fibeamer@red}{HTML}{c82600}
946 \definecolor{fibeamer@brightRed}{HTML}{FF350A}
947 \definecolor{fibeamer@gray}{HTML}{999999}
948 \colorlet{fibeamer@backgroundInner}{fibeamer@red}
949 \colorlet{fibeamer@backgroundOuter}{fibeamer@red!60!black}

```

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

```

950 \renewenvironment{darkframes}{%
951   \begingroup
952     \fibeamer@darktrue
953     %% Structures
954     \setbeamercolor*{frametitle}{fg=fibeamer@red!30!white}

```

```

955 \setbeamercolor*{framesubtitle}{fg=white}
956 %% Text
957 \setbeamercolor*{normal text}{fg=white, bg=fibeamer@red}
958 \setbeamercolor*{structure}{fg=white, bg=fibeamer@red}

959 \setbeamercolor*{alerted text}{%
960 fg=fibeamer@brightRed!60!white!80!yellow}
961 %% Items
962 \setbeamercolor*{item}{fg=fibeamer@red!30!white}
963 \setbeamercolor*{footnote mark}{fg=fibeamer@red!30!white}
964 %% Blocks
965 \setbeamercolor*{block title}{%
966 fg=white, bg=fibeamer@red!60!white}
967 \setbeamercolor*{block title example}{%
968 fg=white, bg=fibeamer@red!60!white}
969 \setbeamercolor*{block title alerted}{%
970 fg=white, bg=fibeamer@red!90!white}
971 \setbeamercolor*{block body}{%
972 fg=fibeamer@red,
973 bg=fibeamer@gray!15!white}
974 \usebeamercolor*{normal text}
975 % Code listings
976 \lstset{%
977 commentstyle=\color{green!30!white},
978 keywordstyle=\color{blue!30!white},
979 stringstyle=\color{fibeamer@red!30!white}}
980 }{%
981 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

982 %% Structures
983 \setbeamercolor{frametitle}{fg=fibeamer@red}
984 \setbeamercolor{framesubtitle}{fg=black!75!white}
985 %% Text
986 \setbeamercolor{normal text}{fg=black, bg=white}
987 \setbeamercolor{structure}{fg=black, bg=white}

988 \setbeamercolor{alerted text}{fg=fibeamer@brightRed}
989 \addtobeamertemplate{block begin}{%
990 \iffibeamer@dark % alerted text in plain block at dark slides
991 \setbeamercolor{alerted text}{%
992 fg=fibeamer@brightRed!80!white!80!yellow}%
993 \else % alerted text in plain block at light slides
994 \setbeamercolor{alerted text}{%
995 fg=fibeamer@brightRed!80!white}%
996 \fi}{%}
997 %% Items
998 \setbeamercolor{item}{fg=fibeamer@red}
999 \setbeamercolor{footnote mark}{fg=fibeamer@red}
1000 %% Blocks
1001 \setbeamercolor{block title}{%

```

```

1002 fg=white, bg=fibeamer@red!50!white}
1003 \setbeamercolor{block title example}{%
1004 fg=white, bg=fibeamer@red!50!white}
1005 \setbeamercolor{block title alerted}{%
1006 fg=white, bg=fibeamer@red}
1007 \setbeamercolor{block body}{%
1008 fg=fibeamer@red!90!black,
1009 bg=fibeamer@gray!20!white}
1010 %% Title
1011 \setbeamercolor{title}{fg=white, bg=fibeamer@red}
1012 % Code listings
1013 \lstset{%
1014 basicstyle=\footnotesize\ttfamily,
1015 breakatwhitespace=false,
1016 breaklines=true,
1017 commentstyle=\color{green!60!black},
1018 extendedchars=true,
1019 keywordstyle=\color{blue},
1020 showspaces=false,
1021 showstringspaces=false,
1022 showtabs=false,
1023 stringstyle=\color{violet}}
1024 \mode
1025 <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.

```

1026 \NeedsTeXFormat{LaTeX2e}
1027 \ProvidesPackage{fibeamer/theme/mu/%
1028 beamercolorthemefibeamer-mu-fsps}[2016/01/14]
1029 \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.

```

1030 \definecolor{fibeamer@blue}{HTML}{2053ac}
1031 \definecolor{fibeamer@brightBlue}{HTML}{3998F9}
1032 \definecolor{fibeamer@gray}{HTML}{999999}
1033 \colorlet{fibeamer@backgroundInner}{fibeamer@blue}
1034 \colorlet{fibeamer@backgroundOuter}{fibeamer@blue!60!black}

```

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

```

1035 \renewenvironment{darkframes}{%

```



```

1036 \begingroup
1037   \fibeamer@darktrue
1038   %% Structures
1039   \setbeamercolor*{frametitle}{fg=fibeamer@blue!30!white}
1040   \setbeamercolor*{framesubtitle}{fg=white}
1041   %% Text
1042   \setbeamercolor*{normal text}{fg=white, bg=fibeamer@blue}
1043   \setbeamercolor*{structure}{fg=white, bg=fibeamer@blue}
1044   \setbeamercolor*{alerted text}{fg=fibeamer@brightBlue!60!white}
1045   %% Items
1046   \setbeamercolor*{item}{fg=fibeamer@blue!30!white}
1047   \setbeamercolor*{footnote mark}{fg=fibeamer@blue!30!white}
1048   %% Blocks
1049   \setbeamercolor*{block title}{%
1050     fg=white, bg=fibeamer@blue!60!white}
1051   \setbeamercolor*{block title example}{%
1052     fg=white, bg=fibeamer@blue!60!white}
1053   \setbeamercolor*{block title alerted}{%
1054     fg=white, bg=fibeamer@blue!95!white}
1055   \setbeamercolor*{block body}{%
1056     fg=fibeamer@blue,
1057     bg=fibeamer@gray!15!white}
1058   \usebeamercolor*{normal text}
1059   % Code listings
1060   \lstset{%
1061     commentstyle=\color{green!30!white},
1062     keywordstyle=\color{blue!40!fibeamer@brightBlue!25!white},
1063     stringstyle=\color{red!30!white}}
1064   }{%
1065   \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

1066 %% Structures
1067 \setbeamercolor{frametitle}{fg=fibeamer@blue}
1068 \setbeamercolor{framesubtitle}{fg=black!75!white}
1069 %% Text
1070 \setbeamercolor{normal text}{fg=black, bg=white}
1071 \setbeamercolor{structure}{fg=black, bg=white}
1072 \setbeamercolor{alerted text}{fg=fibeamer@brightBlue}
1073 \addtobeamertemplate{block begin}{%
1074   \iffibeamer@dark % alerted text in plain block at dark slides
1075     \setbeamercolor{alerted text}{fg=fibeamer@brightBlue}%
1076   \else % alerted text in plain block at light slides
1077     \setbeamercolor{alerted text}{fg=fibeamer@brightBlue!80!white}%
1078   \fi}{%}
1079 %% Items
1080 \setbeamercolor{item}{fg=fibeamer@blue}
1081 \setbeamercolor{footnote mark}{fg=fibeamer@blue}
1082 %% Blocks

```

```

1083 \setbeamercolor{block title}{%
1084   fg=white, bg=fibeamer@blue!50!white}
1085 \setbeamercolor{block title example}{%
1086   fg=white, bg=fibeamer@blue!50!white}
1087 \setbeamercolor{block title alerted}{%
1088   fg=white, bg=fibeamer@blue}
1089 \setbeamercolor{block body}{%
1090   fg=fibeamer@blue, bg=fibeamer@gray!20!white}
1091 %% Title
1092 \setbeamercolor{title}{fg=white, bg=fibeamer@blue}
1093 % Code listings
1094 \lstset{%
1095   basicstyle=\footnotesize\ttfamily,
1096   breakatwhitespace=false,
1097   breaklines=true,
1098   commentstyle=\color{green!60!black},
1099   extendedchars=true,
1100   keywordstyle=\color{fibeamer@brightBlue!50!fibeamer@blue},
1101   showspaces=false,
1102   showstringspaces=false,
1103   showtabs=false,
1104   stringstyle=\color{violet}}
1105 \mode
1106 <all>

```

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Change History

| | |
|--|---|
| v1.0.1 | [VN] 1 |
| General: Added DVI output support. [VN] 13 | |
| v1.0.2 | |
| General: Added the opt-out microtype option. [VN] 3 | |
| v1.0.3 | |
| General: The example documents from the example directory and the user guide from the guide directory are now a part of the CTAN archive. [VN] 1 | |
| v1.0.4 | |
| General: Updated the user guide of the Masaryk University in Brno. | |
| | <code>\fibeamer@locale</code> : Added the locale option and the <code>\fibeamer@locale</code> macro. [VN] 4 |
| | <code>\fibeamer@logo</code> : Changed the im- |

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|----------|--|----|----------|--|-----------------------------------|
| | explicit value of the <code>\fibeamer@logo</code> macro. [VN] | 6 | | to the themes of the Masaryk University in Brno. [VN] | 16–19, 21, 23, 25, 27, 29, 31, 33 |
| 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 <code>\alert</code> . [VN] | 1 |
| v1.1.0:3 | <code>\fibeamer@fallbackLogo</code> : Added the <code>\fibeamer@fallbackLogo</code> macro. [VN] | 7 | v1.1.0:8 | General: Added support for colored citations to the themes of the Masaryk University in Brno. [VN] | 12 |
| 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 | v1.1.1:1 | <code>\fibeamer@fallbackLogo</code> : Added the <code>fallbackLogo</code> option. [VN] | 7 |
| v1.1.0:5 | <code>\fibeamer@includeLogo</code> : Added the <code>\fibeamer@includeLogo</code> macro. [VN] | 7 | v1.1.1:2 | General: Added proper coloring of <code>\qed</code> to the themes of the Masaryk University in Brno. [VN] | 11 |
| v1.1.0:6 | General: Added support for the <code>\tableofcontents</code> to the themes of the Masaryk University in Brno. [VN] | 12 | 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 <code>\setbeamertemplate</code> in the inner theme with the more appropriate <code>\defbeamertemplate*</code> . Added missing <code>%s</code> . [VN] | 1 |
| | Added the logo dimension definitions to the themes of the Masaryk University in Brno. [VN] | 14 | v1.1.2 | <code>\fibeamer@patch</code> : Added <code>\fibeamer@patch</code> | 8 |
| | Updated the example documents of the Masaryk University in Brno to showcase the use of the <code>\tableofcontents</code> . [VN] | 1 | v1.1.3 | General: Added visual tests of output PDFs. | 1 |
| v1.1.0:7 | General: Added support for <code>\alert</code> | | | | |