

# The moloch Package (v1.0.1)

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\*Matthias wrote the original version of this manual for the Metropolis theme, which has since been modified by Johan Larsson.

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## 1 Introduction

Beamer is a great way to make presentations with LaTeX, but its theme selection is surprisingly sparse. The stock themes share an aesthetic that can be a little cluttered, while the few distinctive custom themes available are often specialized for a particular corporate or institutional brand.

The goal of **moloch** is to provide a simple, modern Beamer theme suitable for anyone to use. It tries to minimize noise and maximize space for content; the only visual flourish it offers is an (optional) progress bar added to each slide or to the section slides.

**moloch**'s codebase is maintained at <https://github.com/jolars/moloch>. If you have any issues, find mistakes in the manual or want to help make the theme even better, please get in touch there.

`moloch` is a fork of the popular Metropolis theme by Matthias Vogelgesang. The motivation for the fork was to fix some longstanding bugs in Metropolis and also simplify the codebase to make it easier to maintain and less fragile to changes in the underlying Beamer code.

## 2 Getting Started

### 2.1 Installing from CTAN

For most users, we recommend installing `moloch` from [CTAN](#). If you keep your  $\text{T}_{\text{E}}\text{X}$  distribution up-to-date, chances are good that `moloch` is already installed. If it is not, you need to update your packages. If your distribution is  $\text{T}_{\text{E}}\text{X}$  Live (or  $\text{MacT}_{\text{E}}\text{X}$  on OS X), the following command updates all packages.

```
tlmgr update --all
```

If this results in an error, you may need to run it with administrative privileges:

```
sudo tlmgr update --all
```

$\text{MacT}_{\text{E}}\text{X}$  on OS X also provides a graphical interface for `tlmgr` called  $\text{T}_{\text{E}}\text{X}$  Live Utility.

For any other distribution please refer to its documentation on how to update your packages.

### 2.2 Installing from Source

If you want to use the development version of `moloch`, you can install it manually. You only need a recent  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$  distribution which includes `l3build`. Then simply follow the steps below.

**Download the source** with a `git clone` of <https://github.com/jolars/moloch>

**Install the package** by running `l3build install` inside the downloaded directory.

### 2.3 A Minimal Example

The following code shows a minimal example of a Beamer presentation using `moloch`.

```
\documentclass{beamer}
\usetheme{moloch}
\title{A Minimal Example}
\date{\today}
\author{Johan Larsson}
\institute{Some University}
\begin{document}
  \maketitle
```

```

\section{First Section}
\begin{frame}{First Frame}
  Hello, world!
\end{frame}
\end{document}

```

## 2.4 Dependencies

moloch depends on the `beamer` class and the following standard packages:

- `tikz`
- `etoolbox`
- `pgfopts`
- `calc`

## 2.5 Pandoc

To use this theme with [Pandoc](#)-based presentations, you can run the following command

```
$ pandoc -t beamer -V theme:moloch -o output.pdf input.md
```

# 3 Customization

## 3.1 Package Options

The theme provides a number of options, which can be set using a key=value interface. The primary way to set options is to provide a comma-separated list of option-value pairs when loading `moloch` in the preamble:

```
\usetheme[option1=value1, option2=value2, ...]{moloch}
```

Options can be changed at any time—even mid-presentation—with the `\molochset` macro.

```
\molochset{option1=newvalue1, option2=newvalue2, ...}
```

The list of options is structured as shown in the following example.

option key *list of possible values* ..... default  
 A short description of the option.

### 3.1.1 Main Theme

titleformat *regular, smallcaps, allsmallcaps, allcaps* ..... regular  
 Changes the format of titles, subtitles, section titles, frame titles, and the text on “standout” frames. The available options produce Regular, SMALLCAPS, ALLSMALLCAPS, or ALLCAPS titles. Note that these commands do not affect math and numbers, so may not work as you expect if your titles contain these.

`titleformat plain` *regular, smallcaps, allsmallcaps, allcaps* ..... regular  
 Changes the format of “standout” frames (see `titleformat`, above).

### 3.1.2 Inner Theme

`sectionpage` *none, simple, progressbar* ..... progressbar  
 Adds a slide at the start of each section (`simple`) with an optional thin progress bar below the section title (`progressbar`). The `none` option disables the section page.

`subsectionpage` *none, simple, progressbar* ..... none  
 Optionally adds a slide at the start of each subsection. If enabled with the `simple` or `progressbar` options, the style of the `section page` will be updated to match the style of the `subsection page`. Note that section slides and subsection slides can appear consecutively if both are enabled; you may want to use this option together with `sectionpage=none` depending on the section structure of your presentation.

`standoutnumbering` *none, hide, show* ..... none  
 This option decides whether or not to count standout pages as frames if frame counting. Option `none` (the default) means that the standout frames are not counted. `hide` means that they are counted but that there won’t be any footer showing a frame number. `show` means that they are counted and that the frame number count is shown in the same fashion as for regular frames.

### 3.1.3 Outer Theme

`numbering` *none, counter, fraction* .....  
*This option is deprecated and will be removed in a future version. Please use Beamer’s page number in head/foot template instead.* Controls whether the frame number at the bottom right of each slide is omitted (`none`), shown (`counter`) or displayed as a fraction of the total number of frames (`fraction`).

`progressbar` *none, head, frametitle, foot* ..... none  
 Optionally adds a progress bar to the top of each frame (`head`), the bottom of each frame (`foot`), or directly below each frame title (`frametitle`).

### 3.1.4 Color Theme

`block` *transparent, fill* ..... transparent  
 Optionally adds a light grey background to block environments like `theorem` and `example`.

`background` *dark, light* ..... light  
 Provides the option to have a dark background and light foreground instead of the reverse.

### 3.1.5 Font Theme

`titleformat title` *regular, smallcaps, allsmallcaps, allcaps* ..... regular  
`titleformat subtitle` Individually controls the format of titles, subtitles, section titles, and frame titles  
`titleformat section` (see `titleformat`, above).  
`titleformat frame`

## 3.2 Color Customization

The included `moloch` color theme is used by default, but its colors can be easily changed to suit your tastes. All of the theme's styles are defined in terms of three beamer colors:

- `normal text` (dark fg, light bg)
- `alerted text` (colored fg, should be visible against dark or light)
- `example text` (colored fg, should be visible against dark or light)

An easy way to customize the theme is to redefine these colors using

```
\setbeamercolor{ ... }{ fg= ... , bg= ... }
```

in your preamble. For greater customization, you can redefine any of the other stock beamer colors. In addition to the stock colors the theme defines a number of `moloch` specific colors, which can also be redefined to your liking.

```
\setbeamercolor{progress bar}{ ... }  
\setbeamercolor{title separator}{ ... }  
\setbeamercolor{progress bar in head/foot}{ ... }  
\setbeamercolor{progress bar in section page}{ ... }
```

### 3.2.1 Themes

For low-light situations `moloch` it might be helpful to use the `moloch-highcontrast` color theme. It is enabled like any other color theme:

```
\usecolortheme{moloch-highcontrast}
```

There is also a theme based on the <https://github.com/chriskempson/tomorrow-theme>, which you can enable like this:

```
\usecolortheme{moloch-tomorrow}
```

## 3.3 Commands

### 3.3.1 Standout Frames

The `moloch` inner theme offers a custom frame format with large, centered text and an inverted background—perfect for focusing attention on single sentence or image. To use it, add the key `standout` to the frame:

```
\begin{frame}[standout]
```

```
    Thank you!  
\end{frame}
```

## 4 Known Issues

### 4.1 Title Formats

Be aware that not every font supports small caps, so the `smallcaps` or `allsmallcaps` options may not work for all fonts. In particular, the Computer Modern sans-serif typeface, which is used by default when `moloch` is compiled with pdfL<sup>A</sup>T<sub>E</sub>X, does not have a small-caps variant.

Note that title format options `allsmallcaps` and `allcaps` do not affect the sizes of numerals, punctuation, and math symbol, and are probably best avoided if your titles contain these characters.

### 4.2 Interactions with Other Color Themes

`moloch` can be used along with any other Beamer color theme, such as `crane` or `seahorse`. If you wish to do this, it is usually best to include the `moloch` subpackages individually so the `moloch` color theme is never loaded. This will prevent conflicts between the `moloch` color theme and your preferred theme.

For example, overriding the color theme as follows may not work as expected because `\usetheme{moloch}` loads the `moloch` color theme, which defines a relationship between the frametitle background and the primary palette of the theme. Since `seahorse` assumes a different relationship between its palettes, the result is a grey, rather than periwinkle, frametitle background.

```
\usetheme{moloch}  
\usecolortheme{seahorse}
```

The correct colors are chosen if the `moloch` outer, inner, and font themes are loaded separately:

```
\useoutertheme{moloch}  
\useinnertheme{moloch}  
\usefonttheme{moloch}  
\usecolortheme{seahorse}    % or your preferred color  
    theme
```

Please note that `moloch` may not use all the colors defined in your favourite Beamer color theme. In particular, `moloch` does not set a background color for the title; this will cause issues when using color themes like `whale` which set a white foreground for the title.

### 4.3 Notes on Second Screen

If you use the `[show notes on second screen]` option built in to Beamer and compile with  $\text{X}\_{\text{L}}\text{A}\_{\text{T}}\text{E}\_{\text{X}}$ , text on slides following the first section slide may be rendered in white instead of the regular colour. This is due to a [bug](#) in Beamer or  $\text{X}\_{\text{L}}\text{A}\_{\text{T}}\text{E}\_{\text{X}}$  itself. You can work around it either by compiling with  $\text{L}\_{\text{u}}\text{A}\_{\text{T}}\text{E}\_{\text{X}}$  or by adding the following code to your preamble to reset the text color on each slide.

```
\makeatletter
\def\beamer@framenotesbegin{% at beginning of slide
  \usebeamercolor[fg]{normal text}
  \gdef\beamer@noteitems{}%
  \gdef\beamer@notes{}%
}
\makeatother
```

### 4.4 Standout Frames with Labels

Because the `standout` frame option creates a group to restrict the colour change to a single slide, labels defined after calling `standout` will stay local to the group. In other words, the following may result in a “label undefined” error.

```
\begin{frame}[standout, label=conclusion]{Conclusion}
  Awesome slide
\end{frame}
```

To fix this problem, change the order of the keys in the frame.

```
\begin{frame}[label=conclusion, standout]{Conclusion}
  Awesome slide
\end{frame}
```

This error can be unwittingly triggered if you export your slides from Emacs Org mode, which automatically adds labels after frame options. Alex Branham [offers](#) the following solution for Org mode users, using `org-set-property`.

```
* Start of a frame
:PROPERTIES:
:BEAMER_opt: label=conclusion,standout
:END:
```

### 4.5 Standout Frames with Pandoc

With Pandoc versions prior to 1.17.2 it was not possible to create standout frames because Pandoc only supported a specific list of frame attributes thus ignoring additional attributes such as `{.standout}`.



## 5 License

moloch is licensed under a [Creative Commons Attribution-ShareAlike 4.0 International License](#). This means that if you change the theme and re-distribute it, you must retain the copyright notice header and license it under the same CC-BY-SA license. This does not affect any presentations that you create with the theme.

## 6 Implementation

### 6.1 moloch Parent Theme

The primary job of this package is to load the component sub-packages of the moloch theme and route the theme options accordingly. It also provides some custom commands and environments for the user.

#### 6.1.1 Package Dependencies

```
1 \RequirePackage{pgfopts}
```

#### 6.1.2 Options

Most options are passed off to the component sub-packages.

```
2 \pgfkeys{/moloch/.cd,  
3   .search also={  
4     /moloch/inner,  
5     /moloch/outer,  
6     /moloch/color,  
7     /moloch/font,  
8   }  
9 }
```

`titleformat plain` Controls the formatting of the text on standout “plain” frames.

```
10 \pgfkeys{  
11   /moloch/titleformat plain/.cd,  
12   .is choice,  
13   regular/.code={%  
14     \let\moloch@plaintitleformat\@empty%  
15     \setbeamerfont{standout}{shape=\normalfont}%  
16   },  
17   smallcaps/.code={%  
18     \let\moloch@plaintitleformat\@empty%  
19     \setbeamerfont{standout}{shape=\scshape}%  
20   },  
21   allsmallcaps/.code={%  
22     \let\moloch@plaintitleformat\MakeLowercase%  
23     \setbeamerfont{standout}{shape=\scshape}%  
24   },  
25   allcaps/.code={%  
26     \let\moloch@plaintitleformat\MakeUppercase%  
27     \setbeamerfont{standout}{shape=\normalfont}%  
28   },  
29 }
```

`titleformat` Sets a standard format for titles, subtitles, section titles, frame titles, and the text on standout “plain” frames.

```
30 \pgfkeys{
31   /moloch/titleformat/.code=\pgfkeysalso{
32     font/titleformat title=#1,
33     font/titleformat subtitle=#1,
34     font/titleformat section=#1,
35     font/titleformat frame=#1,
36     titleformat plain=#1,
37   }
38 }
```

Set default values for options.

```
39 \newcommand{\moloch@setdefaults}{
40   \pgfkeys{/moloch/.cd,
41     titleformat plain=regular,
42   }
43 }
```

To avoid generating externalized figures of the progressbar we have to disable them with “tikzexternalenable” and “tikzexternaldisable”. However, if the “external” library is not loaded we would get undefined control sequence problems, hence we define them as no-ops if they are not defined yet. We do the same for the “mmzUnmemoizable” command from the memoize package, in order to avoid memoization of the progress bars.

```
44 \providecommand{\tikzexternalenable}{}
45 \providecommand{\tikzexternaldisable}{}
46 \providecommand{\mmzUnmemoizable}{}

```

### 6.1.3 Component Sub-Packages

Having processed the options, we can now load the component sub-packages of the theme.

```
47 \useinnertheme{moloch}
48 \useoutertheme{moloch}
49 \usecolortheme{moloch}
50 \usefonttheme{moloch}

```

### 6.1.4 Custom Commands

The parent theme defines custom commands as their proper usage may depend on multiple sub-packages.

`\molochset` Allows the user to change options midway through a presentation.

```
51 \newcommand{\molochset}[1]{\pgfkeys{/moloch/.cd,#1}}
```

`\mreducelistspacing`

```
52 \newcommand{\mreducelistspacing}{\vspace{-\topsep}}
```

### 6.1.5 Process Package Options

```
53 \moloch@setdefaults
54 \ProcessPgfOptions{/moloch}
```

## 6.2 moloch Inner Theme

A `beamer` inner theme dictates the style of the frame elements traditionally set in the “body” of each slide. These include:

- title, part, and section pages;
- `itemize`, `enumerate`, and `description` environments;
- block environments including `theorems` and `proofs`;
- figures and tables; and
- footnotes and plain text.

### 6.2.1 Package Dependencies

```
55 \RequirePackage{keyval}
56 \RequirePackage{calc}
57 \RequirePackage{pgfopts}
58 \RequirePackage{tikz}
```

### 6.2.2 Options

`sectionpage` Optionally add a slide marking the beginning of each section.

```
59 \pgfkeys{
60   /moloch/inner/sectionpage/.cd,
61   .is choice,
62   none/.code=\moloch@disablesectionpage,
63   simple/.code={%
64     \moloch@enablesectionpage%
65     \setbeamertemplate{section page}[simple]%
66   },
67   progressbar/.code={%
68     \moloch@enablesectionpage%
69     \setbeamertemplate{section page}[progressbar]%
70   },
71 }
```

`subsectionpage` Optionally add a slide marking the beginning of each subsection.

```
72 \pgfkeys{
73   /moloch/inner/subsectionpage/.cd,
74   .is choice,
75   none/.code=\moloch@disablesubsectionpage,
76   simple/.code={%
77     \moloch@enablesubsectionpage%
78     \setbeamertemplate{section page}[simple]%
79   },
80   progressbar/.code={%
81     \moloch@enablesubsectionpage%
82     \setbeamertemplate{section page}[progressbar]%
83   },
84 }
```

`standoutnumbering` Whether or not to number standout pages. Option `none` means that standout pages are not numbered (do not count as frames). `hide` means that they do count as frames, but that the footer with the number is not shown. Option `show` means that they both count as frames and that the footer with a frame count is shown.

```

85 \providebool{moloch@enableStandoutFooter}
86 \providebool{moloch@enableStandoutNumbering}
87 \pgfkeys{
88   /moloch/inner/standoutnumbering/.cd,
89   .is choice,
90   none/.code={
91     \boolfalse{moloch@enableStandoutNumbering}
92     \boolfalse{moloch@enableStandoutFooter}
93   },
94   show/.code={
95     \booltrue{moloch@enableStandoutNumbering}
96     \booltrue{moloch@enableStandoutFooter}
97   },
98   hide/.code={
99     \booltrue{moloch@enableStandoutNumbering}
100    \boolfalse{moloch@enableStandoutFooter}
101  }
102 }

```

`titleseparator linewidth` Set the width of the line separating the title from the author.

```

103 \newlength{moloch@titleseparator@linewidth}
104 \pgfkeys{
105   /moloch/inner/.cd,
106   titleseparatorlinewidth/.code={\setlength{moloch@titleseparator@linewidth}{#1}},
107   titleseparatorlinewidth/.default=0.4pt,
108 }

```

`titleseparator aliases` Allows `titleseparator linewidth` to be used in `\usetheme`.

```

109 \pgfkeys{
110   /moloch/inner/.cd,
111   titleseparator linewidth/.code=\pgfkeysalso{titleseparatorlinewidth=#1},
112 }

```

`\moloch@inner@setdefaults` Set default values for inner theme options.

```

113 \newcommand{moloch@inner@setdefaults}{
114   \pgfkeys{/moloch/inner/.cd,
115     sectionpage=progressbar,
116     subsectionpage=none,
117     standoutnumbering=none,
118     titleseparator linewidth=0.4pt,
119   }
120 }

```

### 6.2.3 Title Page

`title page` Template for the title page. Each element is only typeset if it is defined by the user. If `\subtitle` is empty, for example, it won't leave a blank space on the title slide.

```
121 \setbeamertemplate{title page}{
122   \null%
123   \vspace{0pt plus 1.618fil}%
124   \vfil%
125   \ifx\inserttitlegraphic\@empty\else\usebeamertemplate*{title graphic}\fi
126   \ifx\inserttitle\@empty\else\usebeamertemplate*{title}\fi
127   \ifx\insertsubtitle\@empty\else\usebeamertemplate*{subtitle}\fi
128   \usebeamertemplate*{title separator}
129   \expandafter\ifblank\expandafter{\beamer@andstripped}{}{%
130     \usebeamertemplate*{author}%
131   }
132   \ifx\insertinstitute\@empty\else\usebeamertemplate*{institute}\fi
133   \ifx\insertdate\@empty\else\usebeamertemplate*{date}\fi
134   \vspace{0pt plus 1fil}%
135   \null
136 }
```

Normal people should use `\maketitle` or `\titlepage` instead of using the `title page` beamer template directly. Beamer already defines these macros, but we patch them here to make the title page [plain] by default and ensure the title frame number doesn't count.

`\maketitle` Inserts the title frame, or causes the current frame to use the `title page` template.  
`\titlepage`

```
137 \def\maketitle{%
138   \ifbeamer@inframe
139     \titlepage
140   \else
141     \begingroup
142     \renewcommand\footnoterule{}%
143     \frame[plain,noframenumbering]{\titlepage}
144     \endgroup
145   \fi
146 }
147 \def\titlepage{%
148   % Apply title-page specific footnote settings
149   \renewcommand{\@makefnmark}[1]{%
150     {\par\usebeamerfont{fg}{thanks}\usebeamerfont{thanks}$^{\@thefnmark}$##1\medskip}%
151   }
152
153   % Process the title page
154   \usebeamertemplate{title page}\@thanks
155 }
```

`title graphic` Set the title graphic in a zero-height box, so it doesn't change the position of other elements.

```
156 \setbeamertemplate{title graphic}{
157   \inserttitlegraphic%
```

```

158 \par%
159 \vspace*{1em}
160 }

```

**title** Set the title on the title page.

```

161 \setbeamertemplate{title}{
162 \raggedright%
163 \moloche@titleformat{\inserttitle}%
164 \par%
165 }

```

**subtitle** Set the subtitle on the title page.

```

166 \setbeamertemplate{subtitle}{
167 \vspace*{0.3em}
168 \raggedright%
169 \moloche@subtitleformat{\insertsubtitle}%
170 \par%
171 }

```

**title separator** Template to set the title separator.

```

172 \setbeamertemplate{title separator}{
173 \tikzexternaldisable%
174 \begin{tikzpicture}[baseline=(current bounding box.north)]
175 \mmzUnmemoizable%
176 \fill[fg] (0,0) rectangle (\textwidth, \moloche@titleseparator@linewidth);
177 \useasboundingbox (0,0) rectangle (\textwidth,-\moloche@titleseparator@linewidth);
178 \end{tikzpicture}%
179 \tikzexternalenable%
180 \par%
181 \vspace*{0.8em}
182 }

```

**author** Set the author on the title page.

```

183 \setbeamertemplate{author}{
184 \raggedright%
185 \insertauthor%
186 \par%
187 \vspace*{0.5em}
188 }

```

**institute** Set the institute on the title page.

```

189 \setbeamertemplate{institute}{
190 \insertinstitute%
191 \par%
192 \vspace*{1em}
193 }

```

**date** Set the date on the title page.

```

194 \setbeamertemplate{date}{
195   \insertdate%
196   \par%
197 }

```

## 6.2.4 Section Page

`section Page` Template for the section title slide at the beginning of each section.

```

198 \defbeamertemplate{section page}{simple}{
199   \begin{center}
200     \usebeamercolor[fg]{section title}
201     \usebeamerfont{section title}
202     \moloche@sectiontitleformat{\insertsectionhead}\par
203     \usebeamercolor[fg]{subsection title}%
204     \usebeamerfont{subsection title}%
205     \strut%
206     \ifx\insertsubsectionhead\@empty\else%
207       \insertsubsectionhead%
208     \fi
209   \end{center}
210   \vspace{\baselineskip - 1ex + \moloche@titleseparator@linewidth}
211 }
212 \defbeamertemplate{section page}{progressbar}{
213   \centering
214   \begin{minipage}{0.7875\linewidth}
215     \raggedright
216     \usebeamercolor[fg]{section title}
217     \usebeamerfont{section title}
218     \moloche@sectiontitleformat{\insertsectionhead}\[-0.5\baselineskip]
219     \usebeamertemplate*{progress bar in section page}
220     \par
221     \usebeamercolor[fg]{subsection title}%
222     \usebeamerfont{subsection title}%
223     \strut%
224     \ifx\insertsubsectionhead\@empty\else%
225       \insertsubsectionhead%
226     \fi
227   \end{minipage}
228   \par
229 }
230 \newcommand{\moloche@disablesectionpage}{
231   \AtBeginSection{
232     % intentionally empty
233   }
234 }
235 \newcommand{\moloche@enablesectionpage}{
236   \AtBeginSection{
237     \ifbeamer@inframe
238       \sectionpage
239     \else
240       \frame[plain,c,noframenumbering]{\sectionpage}
241     \fi
242   }

```

243 }

**subsection page** Template for the subsection title slide that can optionally be added to at the beginning of each subsection.

```
244 \setbeamertemplate{subsection page}{%
245   \usebeamertemplate*{section page}
246 }
247 \newcommand{\moloch@disablesubsectionpage}{
248   \AtBeginSubsection{
249     % intentionally empty
250   }
251 }
252 \newcommand{\moloch@enablesubsectionpage}{
253   \AtBeginSubsection{
254     \ifbeamer@inframe
255       \subsectionpage
256     \else
257       \frame[plain,c,noframenumbering]{\subsectionpage}
258     \fi
259   }
260 }
```

**progress bar in section page** Template for the progress bar displayed by default on the section page. This code is duplicated in large part in the outer theme's template `progress bar in head/foot`.

```
261 \setbeamertemplate{progress bar in section page}{
262   \pgfmathsetlength{\moloch@progressonsectionpage}{
263     \textwidth * min(1,\insertframenumber/\inserttotalframenumber)
264   }%
265   \tikzexternaldisable%
266   \begin{tikzpicture}[baseline=(current bounding box.north)]
267     \mmzUnmemoizable%
268     \fill[bg]
269       (0,0)
270       rectangle
271         (\textwidth, \moloch@progressonsectionpage@linewidth);
272     \fill[fg]
273       (0,0)
274       rectangle
275         (\moloch@progressonsectionpage,
276         \moloch@progressonsectionpage@linewidth);
277     \useasboundingbox (0,0) rectangle (\textwidth,-\moloch@progressonsectionpage@linewidth);
278   \end{tikzpicture}%
279   \tikzexternalenable%
280 }
```

The code above assumes that `\insertframenumber` is less than or equal to `\inserttotalframenumber`. However, this is not true on the first compile; in the absence of an `.aux` file, `\inserttotalframenumber` defaults to 1. This behaviour could cause fatal errors for long presentations, as `\moloch@progressonsectionpage` would exceed TeX's maximum length (16383.99999pt, roughly 5.75 metres or 18.9 feet). To avoid this, we increase the default value for `\inserttotalframenumber`;



presentations with over 4000 slides will still break on first compile, but users in that situation likely have deeper problems to solve.

```
281 \def\inserttotalframenumbers{100}
```

### 6.2.5 Lists and Floats

```
282 \setbeamertemplate{itemize item}{\(\bullet\)}
283 \setbeamertemplate{itemize subitem}{\(\circ\)}
284 \setbeamertemplate{itemize subsubitem}{\textbullet}
285 \setbeamertemplate{caption label separator}{: }
286 \setbeamertemplate{caption}[numbered]
```

### 6.2.6 Footnotes

```
287 \setbeamertemplate{footnote}{%
288   \parindent 0em\noindent\raggedright \usebeamercolor{footnote}\hbox to
289   0.8em{\hfil\insertfootnotemark}\insertfootnotetext%%
290   \par%
291 }
```

### 6.2.7 Text and Spacing Settings

By default, Beamer frames offer the `c` option to *almost* vertically center the text, but the placement is a little too high. To fix this, we redefine the `c` option to equalize `\beamer@frametopskip` and `\beamer@framebottomskip`. This solution was suggested by Enrico Gregorio in an answer to [this Stack Exchange question](#).

```
292 \define@key{beamerframe}{c}[true]{% centered
293   \beamer@frametopskip=0pt plus 1fil\relax%
294   \beamer@framebottomskip=0pt plus 1fil\relax%
295   \beamer@frametopskipautobreak=0pt plus .4\paperheight\relax%
296   \beamer@framebottomskipautobreak=0pt plus .6\paperheight\relax%
297   \def\beamer@initfirstlineunskip{}%
298 }
```

### 6.2.8 Standout Frames

`moloch` offers a custom frame format with large, centered text and an inverted background. To use it, add the key `standout` to the frame:

```
\begin{frame}[standout] ... \end{frame}.
```

`standout` Optional arguments to Beamer's frames are implemented using `\define@key` from the `keyval` package, which will execute code when the defined option is called. For the `standout` option, we begin a group, change the colors and set frame options.

```
299 \providebool{moloch@standout}
300 \define@key{beamerframe}{standout}[true]{%
301   \booltrue{moloch@standout}
302   \begingroup
303   \setkeys{beamerframe}{c}
304   \ifbool{moloch@enableStandoutNumbering}{}{%
305     \setkeys{beamerframe}{noframenumbering}}
306   \ifbeamercolorempty[bg]{palette primary}{
```

```

307   \setbeamercolor{background canvas}{
308     use=palette primary,
309     bg=-palette primary.fg
310   }
311 }{
312   \setbeamercolor{background canvas}{
313     use=palette primary,
314     bg=palette primary.bg
315   }
316 }
317 \setbeamercolor{local structure}{
318   fg=palette primary.fg
319 }
320 \usebeamercolor[fg]{palette primary}
321 \setbeamercolor{page number in head/foot}{
322   use=palette primary,
323   fg=palette primary.fg
324 }
325 \ifbool{moloch@enableStandoutFooter}{\setbeamertemplate{footline}{}}
326 }

```

Then we just have to close the group after the standout slide is finished in order to restore the colours and fonts for the rest of the presentation. Unfortunately, we cannot use or this (see <http://tex.stackexchange.com/questions/226319/>). Instead, we prepend the `\endgroup` to `\beamer@reseteecodes`, which is run exactly once at the end of each slide.

```

327 \pretocmd{\beamer@reseteecodes}{%
328   \ifbool{moloch@standout}{
329     \endgroup
330     \boolfalse{moloch@standout}
331   }{}
332 }{}{}

```

We set the fonts and the alignment on the inner content, in such a way that the speaker's note layout isn't affected by the custom formatting.

```

333 \AtBeginEnvironment{beamer@frameslide}{
334   \ifbool{moloch@standout}{
335     \centering
336     \usebeamerfont{standout}
337   }{}
338 }

```

### 6.2.9 Process Package Options

```

339 \moloch@inner@setdefaults
340 \ProcessPgfPackageOptions{/moloch/inner}

```

## 6.3 moloch outer theme

A `beamer` outer theme dictates the style of the frame elements traditionally set outside the body of each slide: the head, footline, and frame title.

### 6.3.1 Package dependencies

```
341 \RequirePackage{calc}
342 \RequirePackage{pgfopts}
```

### 6.3.2 Options

`progressbar` Adds a progress bar to the top, bottom, or frametitle of each slide.

```
343 \pgfkeys{
344   /moloch/outer/progressbar/.cd,
345   .is choice,
346   none/.code={%
347     \setbeamertemplate{headline}[plain]
348     \setbeamertemplate{frametitle}[plain]
349     \setbeamertemplate{footline}[plain]
350   },
351   head/.code={\pgfkeys{/moloch/outer/progressbar=none}
352     \addtoamertemplate{headline}{}{%
353       \usebeamertemplate*{progress bar in head/foot}
354     }
355   },
356   frametitle/.code={\pgfkeys{/moloch/outer/progressbar=none}
357     \addtoamertemplate{frametitle}{}{%
358       \usebeamertemplate*{progress bar in head/foot}
359     }
360   },
361   foot/.code={\pgfkeys{/moloch/outer/progressbar=none}
362     \addtoamertemplate{footline}{}{%
363       \usebeamertemplate*{progress bar in head/foot}%
364     }
365   },
366 }
```

`progressbar linewidth` Sets the linewidth of the progress bar for sectionpages and frames.

```
367 \newlength{\moloch@progressonsectionpage}
368 \newlength{\moloch@progressonsectionpage@linewidth}
369 \newlength{\moloch@progressinheadfoot}
370 \newlength{\moloch@progressinheadfoot@linewidth}
371 \pgfkeys{
372   /moloch/outer/.cd,
373   progressbarlinewidth/.code={
374     \setlength{\moloch@progressonsectionpage@linewidth}{#1}
375     \setlength{\moloch@progressinheadfoot@linewidth}{#1}
376   },
377   progressbarlinewidth/.default=0.4pt,
378 }
```

`progressbar aliases` Allows `progressbar linewidth` to be used in `\molochset`.

```
379 \pgfkeys{
380   /moloch/outer/.cd,
381   progressbar linewidth/.code=\pgfkeysalso{progressbarlinewidth=#1},
382 }
```

`\moloch@outer@setdefaults` Sets default values for outer theme options.

```
383 \newcommand{\moloch@outer@setdefaults}{
384   \pgfkeys{/moloch/outer/.cd,
385     progressbar=none,
386     progressbar linewidth=0.4pt,
387   }
388 }
```

### 6.3.3 Deprecated Options

These options are deprecated and will be removed in a future version.

`numbering` Adds slide numbers to the bottom right of each slide.

```
389 \pgfkeys{
390   /moloch/outer/numbering/.cd,
391   .is choice,
392   none/.code={%
393     \PackageWarning{moloch}{The ‘‘numbering’’ option is deprecated.
394       Use beamer’s ‘‘page number in head/foot’’ template instead}%
395     \setbeamertemplate{page number in head/foot}[default]
396   },
397   counter/.code={%
398     \PackageWarning{moloch}{The ‘‘numbering’’ option is deprecated.
399       Use beamer’s ‘‘page number in head/foot’’ template instead}%
400     \setbeamertemplate{page number in head/foot}[framenumber]
401   },
402   fraction/.code={%
403     \PackageWarning{moloch}{The ‘‘numbering’’ option is deprecated.
404       Use beamer’s ‘‘page number in head/foot’’ template instead}%
405     \setbeamertemplate{page number in head/foot}[totalframenumber]
406   },
407 }
```

### 6.3.4 Slide Numbering

Moloch defaults to numbering frames. To modify this, simply copy this line to your preamble and replace `framenumber`.

```
408 \setbeamertemplate{page number in head/foot}[framenumber]
```

### 6.3.5 Head and footline

All good `beamer` presentations should already remove the navigation symbols, but `moloch` removes them automatically (just in case).

```
409 \setbeamertemplate{navigation symbols}{}
```

`headline` Templates for the head- and footline at the top and bottom of each frame.

`footline`

```
410 \defbeamertemplate{headline}{plain}{}
411 \defbeamertemplate{footline}{plain}{%
412   \begin{beamercolorbox}[
```

```

413     leftskip=4pt,%
414     rightskip=5pt,%
415     wd=\textwidth,%
416   ]{footline}%
417   \usebeamercolor[fg]{page number in head/foot}%
418   \usebeamerfont{page number in head/foot}%
419   \usebeamertemplate*{frame footer}%
420   \hfill%
421   \usebeamertemplate*{page number in head/foot}\vskip4pt%
422 \end{beamercolorbox}%
423 }

```

### 6.3.6 Frametitle

**frametitle** Templates for the frame title, which is optionally underlined with a progress bar.

```

424 \newlength{\moloch@frametitle@padding}
425 \setlength{\moloch@frametitle@padding}{2.2ex}
426 \newcommand{\moloch@frametitlestrut@start}{%
427   \rule{0pt}{\moloch@frametitle@padding +%
428     \totalheightof{%
429       \ifcsdef{moloch@frametitleformat}{\moloch@frametitleformat X}{X}%
430     }%
431   }%
432 }
433
434 \newcommand{\moloch@frametitlestrut@end}{%
435   \vphantom{%
436     \rule[-\moloch@frametitle@padding]{0pt}{\moloch@frametitle@padding}%
437   }
438 }
439 \defbeamertemplate{frametitle}{plain}{%
440   \nointerlineskip%
441   \begin{beamercolorbox}[%
442     wd=\paperwidth,%
443     leftskip=1.6ex,%
444     rightskip=\the\glueexpr 1.6ex plus 1fil\relax,%
445   ]{frametitle}%
446   \usebeamerfont{frametitle}%
447   \moloch@frametitlestrut@start%
448   \moloch@frametitleformat{\insertframetitle}%
449   {%
450     \ifx\insertframesubtitle\@empty%
451       \else%
452         {%
453           \par%
454           \usebeamerfont{framesubtitle}%
455           \vspace{-0.8ex}%
456           \usebeamercolor[fg]{framesubtitle}%
457           \insertframesubtitle%
458         }%
459     \fi
460   }%
461   \moloch@frametitlestrut@end%

```

```

462 \end{beamercolorbox}%
463 }
464 \setbeamertemplate{frametitle continuation}{%
465 \romannumeral\insertcontinuationcount}

```

`progress bar in head/foot` Template for the progress bar optionally displayed below the frame title on each page. Much of this code is duplicated in the inner theme's template `progress bar in section page`.

```

466 \setbeamertemplate{progress bar in head/foot}{
467 \nointerlineskip%
468 \pgfmathsetlength{\moloch@progressinheadfoot}{%
469 \paperwidth * min(1,\insertframenummer/\inserttotalframenummer)%
470 }%
471 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
472 \tikzexternaldisable%
473 \begin{tikzpicture}
474 \mmzUnmemoizable%
475 \fill[bg]
476 (0,0)
477 rectangle
478 (\paperwidth, \moloch@progressinheadfoot@linewidth);
479 \fill[fg]
480 (0,0)
481 rectangle
482 (\moloch@progressinheadfoot, \moloch@progressinheadfoot@linewidth);
483 \end{tikzpicture}
484 \tikzexternalenable%
485 \end{beamercolorbox}
486 }

```

### 6.3.7 Process package options

```

487 \moloch@outer@setdefaults
488 \ProcessPgfPackageOptions{/moloch/outer}

```

## 6.4 moloch font theme

A beamer font theme sets the style of the font used in the document.

### 6.4.1 Package dependencies

```

489 \RequirePackage{etoolbox}
490 \RequirePackage{pgfopts}

```

### 6.4.2 General font definitions

```

491 \setbeamerfont{title}{size=\Large, series=\bfseries}
492 \setbeamerfont{author}{size=\small}
493 \setbeamerfont{date}{size=\small}
494 \setbeamerfont{section title}{size=\Large, series=\bfseries}
495 \setbeamerfont{block title}{size=\normalsize, series=\bfseries}
496 \setbeamerfont{block title alerted}{size=\normalsize, series=\bfseries}
497 \setbeamerfont*{subtitle}{size=\large}
498 \setbeamerfont{frametitle}{size=\large, series=\bfseries}

```

```

499 \setbeamerfont{framesubtitle}{size=\small}
500 \setbeamerfont{caption}{size=\small}
501 \setbeamerfont{caption name}{series=\bfseries}
502 \setbeamerfont{description item}{series=\bfseries}
503 \setbeamerfont{standout}{size=\Large, series=\bfseries}

```

### 6.4.3 Title format options

`titleformat title` Controls the format of the title.

```

504 \pgfkeys{
505   /moloch/font/titleformat title/.cd,
506   .is choice,
507   regular/.code={%
508     \let\moloch@titleformat\@empty%
509     \setbeamerfont{title}{shape=\normalfont}%
510   },
511   smallcaps/.code={%
512     \let\moloch@titleformat\@empty%
513     \setbeamerfont{title}{shape=\scshape}%
514   },
515   allsmallcaps/.code={%
516     \let\moloch@titleformat\lowercase%
517     \setbeamerfont{title}{shape=\scshape}%
518     \PackageNote{beamerthememoloch}{%
519       Be aware that titleformat title=allsmallcaps can
520       lead to problems}
521   },
522   allcaps/.code={%
523     \let\moloch@titleformat\uppercase%
524     \setbeamerfont{title}{shape=\normalfont}
525     \PackageNote{beamerthememoloch}{%
526       Be aware that titleformat title=allcaps can lead to problems%
527     }
528   },
529 }

```

`titleformat subtitle` Control the format of the subtitle.

```

530 \pgfkeys{
531   /moloch/font/titleformat subtitle/.cd,
532   .is choice,
533   regular/.code={%
534     \let\moloch@subtitleformat\@empty%
535     \setbeamerfont{subtitle}{shape=\normalfont}%
536   },
537   smallcaps/.code={%
538     \let\moloch@subtitleformat\@empty%
539     \setbeamerfont{subtitle}{shape=\scshape}%
540   },
541   allsmallcaps/.code={%
542     \let\moloch@subtitleformat\MakeLowercase%
543     \setbeamerfont{subtitle}{shape=\scshape}%
544     \PackageNote{beamerthememoloch}{%
545       Be aware that titleformat subtitle=allsmallcaps

```

```

546         can lead to problems}
547     },
548     allcaps/.code={%
549         \let\moloch@subtitleformat\MakeUppercase%
550         \setbeamerfont{subtitle}{shape=\normalfont}%
551         \PackageNote{beamerthememoloch}{%
552             Be aware that titleformat subtitle=allcaps can
553             lead to problems}
554     },
555 }

```

`titleformat section` Controls the format of the section title.

```

556 \pgfkeys{
557   /moloch/font/titleformat section/.cd,
558   .is choice,
559   regular/.code={%
560       \let\moloch@sectiontitleformat\@empty%
561       \setbeamerfont{section title}{shape=\normalfont}%
562   },
563   smallcaps/.code={%
564       \let\moloch@sectiontitleformat\@empty%
565       \setbeamerfont{section title}{shape=\scshape}%
566   },
567   allsmallcaps/.code={%
568       \let\moloch@sectiontitleformat\MakeLowercase%
569       \setbeamerfont{section title}{shape=\scshape}%
570       \PackageNote{beamerthememoloch}{%
571           Be aware that titleformat section=allsmallcaps
572           can lead to problems}
573   },
574   allcaps/.code={%
575       \let\moloch@sectiontitleformat\MakeUppercase%
576       \setbeamerfont{section title}{shape=\normalfont}%
577       \PackageNote{beamerthememoloch}{%
578           Be aware that titleformat section=allcaps
579           can lead to problems}
580   },
581 }

```

`frametitleformat` Control the format of the frame title.

```

582 \pgfkeys{
583   /moloch/font/titleformat frame/.cd,
584   .is choice,
585   regular/.code={%
586       \let\moloch@frametitleformat\@empty%
587       \setbeamerfont{frametitle}{shape=\normalfont}%
588   },
589   smallcaps/.code={%
590       \let\moloch@frametitleformat\@empty%
591       \setbeamerfont{frametitle}{shape=\scshape}%
592   },
593   allsmallcaps/.code={%

```



```

594     \let\moloch@frametitleformat\MakeLowercase%
595     \setbeamerfont{frametitle}{shape=\scshape}%
596     \PackageNote{beamerthememoloch}{%
597       Be aware that titleformat frame=allsmallcaps
598       can lead to problems}
599   },
600   allcaps/.code={%
601     \let\moloch@frametitleformat\MakeUppercase%
602     \setbeamerfont{frametitle}{shape=\normalfont}
603     \PackageNote{beamerthememoloch}{%
604       Be aware that titleformat frame=allcaps can lead to problems%
605     }
606   },
607 }

```

`titleformat aliases` Allows `titleformat title` et al. to be used in the `\usetheme` declaration, where  $\LaTeX$  automatically removes all spaces.

```

608 \pgfkeys{
609   /moloch/font/.cd,
610   titleformattitle/.code=\pgfkeysalso{titleformat title=#1},
611   titleformatsubtitle/.code=\pgfkeysalso{titleformat subtitle=#1},
612   titleformatsection/.code=\pgfkeysalso{titleformat section=#1},
613   titleformatframe/.code=\pgfkeysalso{titleformat frame=#1},
614 }

```

`\moloch@font@setdefaults` Sets default values for font theme options.

```

615 \newcommand{\moloch@font@setdefaults}{
616   \pgfkeys{/moloch/font/.cd,
617     titleformat title=regular,
618     titleformat subtitle=regular,
619     titleformat section=regular,
620     titleformat frame=regular,
621   }
622 }

```

We first define hooks to change the case format of the titles.

```

623 \def\moloch@titleformat#1{#1}
624 \def\moloch@subtitleformat#1{#1}
625 \def\moloch@sectiontitleformat#1{#1}
626 \def\moloch@frametitleformat#1{#1}

```

To make the uppercase and lowercase macros work in the title, subtitle, etc., we have to patch the appropriate `beamer` commands that set their values. This solution was suggested by Enrico Gregorio in an answer to [this StackExchange question](#).

#### 6.4.4 Process package options

```

627 \moloch@font@setdefaults
628 \ProcessPgfPackageOptions{/moloch/font}

```

## 6.5 moloch Color Theme

### 6.5.1 Package Dependencies

```
629 \RequirePackage{pgfopts}
```

### 6.5.2 Options

**block** Optionally adds a light grey background to block environments like **theorem** and **example**.

```
630 \pgfkeys{
631   /moloch/color/block/.cd,
632   .is choice,
633   transparent/.code=\moloch@block@transparent,
634   fill/.code=\moloch@block@fill,
635 }
```

**colors** Provides the option to have a dark background and light foreground instead of the reverse.

```
636 \pgfkeys{
637   /moloch/color/background/.cd,
638   .is choice,
639   dark/.code=\moloch@colors@dark,
640   light/.code=\moloch@colors@light,
641 }
```

**\moloch@color@setdefaults** Sets default values for color theme options.

```
642 \newcommand{\moloch@color@setdefaults}{
643   \pgfkeys{/moloch/color/.cd,
644     background=light,
645   }
646 }
```

### 6.5.3 Base Colors

```
647 \definecolor{mDarkBrown}{HTML}{604c38}
648 \definecolor{mDarkTeal}{HTML}{23373b}
649 \definecolor{mLightBrown}{HTML}{EB811B}
650 \definecolor{mLightGreen}{RGB}{0,128,128}
```

### 6.5.4 Base Styles

All colors in **moloch** are derived from the definitions of **normal text**, **alerted text**, and **example text**.

```
651 \newcommand{\moloch@colors@dark}{
652   \setbeamercolor{normal text}{%
653     fg=black!2,
654     bg=mDarkTeal
655   }
656   \usebeamercolor[fg]{normal text}
657 }
658 \newcommand{\moloch@colors@light}{
```

```

659 \setbeamercolor{normal text}{%
660     fg=mDarkTeal,
661     bg=black!2
662 }
663 }
664 \setbeamercolor{alerted text}{%
665     fg=mLightBrown
666 }
667 \setbeamercolor{example text}{%
668     fg=mLightGreen
669 }

```

### 6.5.5 Derived Colors

The titles and structural elements (e.g. `itemize` bullets) are set in the same color as `normal text`. This would ideally be done by setting `normal text` as a parent style, which we do to set `titlelike`, but this doesn't work for `structure` as its foreground is set explicitly in `beamercolorthemedefault.sty`.

```

670 \setbeamercolor{titlelike}{use=normal text, parent=normal text}
671 \setbeamercolor{author}{use=normal text, parent=normal text}
672 \setbeamercolor{date}{use=normal text, parent=normal text}
673 \setbeamercolor{institute}{%
674     use=normal text, fg=normal text.fg!80!normal text.bg}
675 \setbeamercolor{structure}{use=normal text, fg=normal text.fg}
676 \setbeamercolor{thanks}{%
677     use=normal text, fg=normal text.fg!80!normal text.bg}

```

The “primary” palette should be used for the most important navigational elements, and possibly of other elements. `moloch` uses it for frame titles and slides.

```

678 \setbeamercolor{palette primary}{%
679     use=normal text,
680     fg=normal text.bg,
681     bg=normal text.fg
682 }
683 \setbeamercolor{frametitle}{%
684     use=palette primary,
685     parent=palette primary
686 }

```

The `moloch` inner or outer themes optionally display progress bars in various locations. Their color is set by `progress bar` but the two different kinds can be customized separately. The horizontal rule on the title page is also set based on the progress bar color and can be customized with `title separator`.

```

687 \setbeamercolor{progress bar}{%
688     use=alerted text,
689     fg=alerted text.fg,
690     bg=alerted text.fg!50!black!30
691 }
692 \setbeamercolor{title separator}{
693     use=progress bar,
694     parent=progress bar

```

```

695 }
696 \setbeamercolor{progress bar in head/foot}{%
697   use=progress bar,
698   parent=progress bar
699 }
700 \setbeamercolor{progress bar in section page}{
701   use=progress bar,
702   parent=progress bar
703 }

```

Block environments such as `theorem` and `example` have no background color by default. The option `block=fill` sets a background color based on the background and foreground of `normal text`. The option `block=transparent` reverts the block environments to an empty background, which can be useful if changing colors mid-presentation.

```

704 \newcommand{\moloch@block@transparent}{
705   \setbeamercolor{block title}{bg=}
706   \setbeamercolor{block body}{bg=}
707   \setbeamercolor{block title alerted}{bg=}
708   \setbeamercolor{block title example}{bg=}
709 }
710 \newcommand{\moloch@block@fill}{
711   \setbeamercolor{block title}{%
712     bg=normal text.bg!80!fg
713   }
714   \setbeamercolor{block body}{%
715     use=block title,
716     bg=block title.bg!50!normal text.bg
717   }
718   \setbeamercolor{block title alerted}{%
719     bg=block title.bg,
720   }
721   \setbeamercolor{block title example}{%
722     bg=block title.bg,
723   }
724 }
725 \setbeamercolor{block title}{%
726   use=normal text,
727   fg=normal text.fg
728 }
729 \setbeamercolor{block title alerted}{%
730   use={block title, alerted text},
731   fg=alerted text.fg
732 }
733 \setbeamercolor{block title example}{%
734   use={block title, example text},
735   fg=example text.fg
736 }
737 \setbeamercolor{block body alerted}{use=block body, parent=block body}
738 \setbeamercolor{block body example}{use=block body, parent=block body}

```

Footnotes

```
739 \setbeamercolor{footnote}{fg=normal text.fg!90}  
740 \setbeamercolor{footnote mark}{fg=.
```

We also reset the bibliography colors in order to pick up the surrounding colors at the time of use. This prevents us having to set the correct color in normal and standout mode.

```
741 \setbeamercolor{bibliography entry author}{fg=, bg=}  
742 \setbeamercolor{bibliography entry title}{fg=, bg=}  
743 \setbeamercolor{bibliography entry location}{fg=, bg=}  
744 \setbeamercolor{bibliography entry note}{fg=, bg=}
```

### 6.5.6 Process Package Options

```
745 \moloch@color@setdefaults  
746 \ProcessPgfPackageOptions{/moloch/color}  
747 \mode<all>
```