The \texttt{moloch} package (v0.1.0)

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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](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 TeX 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 TeX Live (or MacTeX 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
```

MacTeX on OS X also provides a graphical interface for `tlmgr` called TeX 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 TeX distribution which includes `l3build`. Then simply follow the steps below.

Download the source with a `git clone` of [https://github.com/jolars/moloch](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`.

```latex
\documentclass{beamer}
\usetheme{moloch}
\title{A minimal example}
\date{\today}
\author{Johan Larsson}
\institute{Centre for Modern Beamer Themes}
\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`
- `pgfplots`
- `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 \texttt{moloch} in the preamble:

\begin{verbatim}
\usetheme[option1=value1, option2=value2, ...]{moloch}
\end{verbatim}

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

\begin{verbatim}
\molochset{option1=newvalue1, option2=newvalue2, ...}
\end{verbatim}

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

<table>
<thead>
<tr>
<th>option key</th>
<th>list of possible values</th>
<th>default</th>
<th>description of the option</th>
</tr>
</thead>
<tbody>
<tr>
<td>sectionpage</td>
<td>none, simple, progressbar</td>
<td>progressbar</td>
<td>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.</td>
</tr>
<tr>
<td>subsectionpage</td>
<td>none, simple, progressbar</td>
<td>none</td>
<td>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.</td>
</tr>
<tr>
<td>progressbar</td>
<td>none, head, frametitle, foot</td>
<td>none</td>
<td>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).</td>
</tr>
</tbody>
</table>
### 3.1.3 Color theme

Preamble: dark, light

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

### 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}{...}

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}

### 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]
4 Known Issues

4.1 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.

4.2 Notes on second screen

If you use the [show notes on second screen] option built in to Beamer and compile with XeLaTeX, 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
XeLaTeX itself. You can work around it either by compiling with LuaTeX 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

4.3 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:

4.4 Standout frames with Pandoc

With Pandoc versions prior 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

\begin{verbatim}
\RequirePackage{pgfkeys}
\end{verbatim}

6.1.2 Options

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

\begin{verbatim}
\pgfkeys{/moloch/.cd,
  .search also={
    /moloch/inner,
    /moloch/outer,
    /moloch/color,
    /moloch/font,
  }
}
\end{verbatim}

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.

\begin{verbatim}
\providecommand{\tikzexternalenable}{}
\providecommand{\tikzexternaldisable}{}
\end{verbatim}
6.1.3 Component sub-packages

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

```
12 \useinnertheme{moloch}
13 \useoutertheme{moloch}
14 \usecolortheme{moloch}
15 \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.

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

\mreducelistspacing

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

6.1.5 Process package options

```
18 \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

```
19 \RequirePackage{keyval}
20 \RequirePackage{calc}
21 \RequirePackage{pgfplots}
22 \RequirePackage{tikz}
```
6.2.2 Options

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

```latex
\pgfkeys{
    /moloch/inner/sectionpage/.cd,
    .is choice,
    none/.code=\moloch@disablesectionpage,
    simple/.code=\
      \moloch@enablesectionpage%
      \setbeamertemplate{section page}{simple}%,
    progressbar/.code=\
      \moloch@enablesectionpage%
      \setbeamertemplate{section page}{progressbar}%,
  }%}
```

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

```latex
\pgfkeys{
    /moloch/inner/subsectionpage/.cd,
    .is choice,
    none/.code=\moloch@disablesubsectionpage,
    simple/.code=\
      \moloch@enablesubsectionpage%
      \setbeamertemplate{section page}{simple}%,
    progressbar/.code=\
      \moloch@enablesubsectionpage%
      \setbeamertemplate{section page}{progressbar}%,
  }%}
```

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

```latex
\newcommand{\moloch@inner@setdefaults}{
  \pgfkeys{\moloch/inner/.cd,
    sectionpage=progressbar,
    subsectionpage=none
  }
}
```
6.2.3 Title page

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

\setbeamertemplate{title page}{
\begin{minipage}[b]{\paperheight}{\textwidth}
\ifx\inserttitlegraphic\@empty\else\usebeamertemplate*{title graphic}\fi
\vfill
\ifx\inserttitle\@empty\else\usebeamertemplate*{title}\fi
\ifx\insertsubtitle\@empty\else\usebeamertemplate*{subtitle}\fi
\usebeamertemplate*{title separator}
\end{minipage}
}

Beamer’s definition of \insertauthor is always nonempty, so we have to test another macro initialized by \author{...} to see if the user has defined an author. This solution was suggested by Enrico Gregorio in an answer to this Stack Exchange question.

\ifx\beamer@shortauthor\@empty\else\usebeamertemplate*{author}\fi
\ifx\insertinstitute\@empty\else\usebeamertemplate*{institute}\fi
\ifx\insertdate\@empty\else\usebeamertemplate*{date}\fi
\vfill
\null
\end{minipage}

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, remove \@thanks, 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
\def\maketitle{%
  \ifbeamer@inframe
    \titlepage
  \else
    \frame[plain,noframenumbering]{\titlepage}
  \fi
}
\def\titlepage{%
  \usebeamertemplate{title page}
}
title graphic  Set the title graphic in a zero-height box, so it doesn’t change the position of other elements.

\setbeamertemplate{title graphic}{
  \vbox to 0pt {
    \vspace{2em}
    \inserttitlegraphic
  }
}

\setbeamertemplate{title}{
  \raggedright
  \linespread{1.0}
  \inserttitle
  \par
  \vspace{0.5em}
}

subtitle  Set the subtitle on the title page.

\setbeamertemplate{subtitle}{
  \raggedright
  \insertsubtitle
  \par
  \vspace{0.5em}
}

title separator  Template to set the title graphic in a zero-height box. (It won’t change the position of other elements.)

\newlength{\moloch@titleseparator@linewidth}
\setlength{\moloch@titleseparator@linewidth}{0.4pt}
\setbeamertemplate{title separator}{
  \tikzexternaldisable
  \begin{tikzpicture}
    \fill[fg] (0,0) rectangle (\textwidth, \moloch@titleseparator@linewidth);
  \end{tikzpicture}
  \tikzexternalenable
  \par
}

13
author Set the author on the title page.

\setbeamertemplate{author}{
  \vspace*{2em}
  \insertauthor
  \par}

institute Set the institute on the title page.

\setbeamertemplate{institute}{
  \vspace*{0.5em}
  \insertinstitute
  \par}

date Set the date on the title page.

\setbeamertemplate{date}{
  \vspace*{1.5em}
  \insertdate
  \par}

6.2.4 Section page

section page Template for the section title slide at the beginning of each section.

\defbeamertemplate{section page}{simple}{
  \begin{center}
  \usebeamercolor[fg]{section title}
  \usebeamerfont{section title}
  \insertsectionhead\par
  \ifx\insertsubsectionhead\empty\else
    \usebeamercolor[fg]{subsection title}
    \usebeamerfont{subsection title}
    \insertsubsectionhead
  \fi
  \end{center}}

\defbeamertemplate{section page}{progressbar}{
  \centering
  \begin{minipage}{0.7875\linewidth}
    \raggedright
    \usebeamercolor[fg]{section title}
  \end{minipage}
  \begin{minipage}{0.2125\linewidth}
    \raggedleft
    \usebeamercolor[fg]{section title}
  \end{minipage}}
subsection page Template for the subsection title slide that can optionally be added to at the beginning of each subsection.

```latex
\setbeamertemplate{subsection page}{%
  \usebeamertemplate{section page}
%
}\newcommand{\moloch@disablesubsectionpage}{\AtBeginSubsection{% 
  % intentionally empty
  }%
}\newcommand{\moloch@enablesubsectionpage}{\AtBeginSubsection{% 
  \ifbeamer@inframe 
  \subsectionpage 
  \else 
  \frame[plain,c,noframenumbering]{\subsectionpage} 
  \fi 
}}
```

---

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

\newlength{\moloch@progressonsectionpage}
\newlength{\moloch@progressonsectionpage@linewidth}
\setlength{\moloch@progressonsectionpage@linewidth}{0.4pt}
\setbeamertemplate{progress bar in section page}{
\pgfmathsetlength{\moloch@progressonsectionpage}{\textwidth * \min(1,\insertframenumber/\inserttotalframenumber)}
\tikzexternaldisable
\begin{tikzpicture}
\fill[bg]
(0,0)
rectangle
(\textwidth, \moloch@progressonsectionpage@linewidth);
\fill[fg]
(0,0)
rectangle
(\moloch@progressonsectionpage, \moloch@progressonsectionpage@linewidth);
\end{tikzpicture}
\tikzexternalenable
\}

The above code 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.

\def\inserttotalframenumber{100}

6.2.5 Lists and floats

\setbeamertemplate{itemize item}{\textbullet}
\setbeamertemplate{itemize subitem}{\textcircled{}}
6.2.6 Footnotes

6.2.7 Text and spacing settings

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

6.2.8 Standout frames

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

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

\texttt{standout} Optional arguments to Beamer's frames are implemented using \texttt{\define@key} from the \texttt{keyval} package, which will execute code when the defined option is called. For the \texttt{standout} option, we begin a group, change the colors and set frame options.
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@resetecodes, which is run exactly once at the end of each slide.

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.
6.2.9 Process package options

\moloch@inner@setdefaults
\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

\RequirePackage{calc}
\RequirePackage{pgfopt}

6.3.2 Options

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

\pgfkeys{
/moloch/outer/progressbar/.cd,
.is choice,
one/.code=\%
\setbeamertemplate{headline}[plain]
\setbeamertemplate{frametitle}[plain]
\setbeamertemplate{footline}[plain]
},
head/.code=\pgfkeys{/moloch/outer/progressbar=none}
\addtobeamertemplate{headline}{}{%
\usebeamertemplate*{progress bar in head/foot}
},
frametitle/.code=\pgfkeys{/moloch/outer/progressbar=none}
\addtobeamertemplate{frametitle}{}{%
\usebeamertemplate*{progress bar in head/foot}
},
foot/.code=\pgfkeys{/moloch/outer/progressbar=none}
\addtobeamertemplate{footline}{}{%
\usebeamertemplate*{progress bar in head/foot}%
},
}

\moloch@outer@setdefaults Sets default values for outer theme options.
6.3.3 Head and footline

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

\setbeamertemplate{navigation symbols}{}

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

\defbeamertemplate{headline}{plain}{%}
\defbeamertemplate{footline}{plain}{%}
\defbeamertemplate{frametitle}{plain}{%}

6.3.4 Frametitle

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

\newlength{\moloch@progressinheadfoot}
\newlength{\moloch@progressinheadfoot@linewidth}
\setlength{\moloch@progressinheadfoot@linewidth}{0.4pt}
\setbeamertemplate{progress bar in head/foot}{
\nointerlineskip
\pgfmathsetlength{\moloch@progressinheadfoot}{\paperwidth * min(1,\insertframenumber/\inserttotalframenumber)}
\begin{beamercolorbox}[wd=\paperwidth,progress bar in head/foot]
\fillbg
(0,0)
rectangle (\paperwidth, \moloch@progressinheadfoot@linewidth);
\fillfg
(0,0)
rectangle (\moloch@progressinheadfoot, \moloch@progressinheadfoot@linewidth);
\end{beamercolorbox}
\tikzexternaldisable
\begin{tikzpicture}
\tikzexternalenable
\end{tikzpicture}
\end{beamercolorbox}
6.3.5 Process package options
\moloch@outer@setdefaults
\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
\RequirePackage{pgfopts}

6.4.2 General font definitions
\setbeamerfont{title}{size=\Large, series=\bfseries}
\setbeamerfont{author}{size=\small}
\setbeamerfont{date}{size=\small}
\setbeamerfont{section title}{size=\Large, series=\bfseries}
\setbeamerfont{block title}{size=\normalsize, series=\bfseries}
\setbeamerfont{block title alerted}{size=\normalsize, series=\bfseries}
\setbeamerfont{frametitle}{size=\large, series=\bfseries}
\setbeamerfont{caption}{size=\small}
\setbeamerfont{caption name}{series=\bfseries}
\setbeamerfont{description item}{series=\bfseries}
\setbeamerfont{bibliography entry author}{size=\normalsize, series=\normalfont}
\setbeamerfont{bibliography entry title}{size=\normalsize, series=\bfseries}
\setbeamerfont{bibliography entry location}{size=\normalsize, series=\normalfont}
\setbeamerfont{bibliography entry note}{size=\small, series=\normalfont}
\setbeamerfont{standout}{size=\Large, series=\bfseries}

6.5 moloch color theme
6.5.1 Package dependencies
\RequirePackage{pgfopts}

6.5.2 Options
colors Provides the option to have a dark background and light foreground instead of the reverse.
\pgfkeys{
/moloch/color/background/.cd,
.is choice,
dark/.code=\moloch@colors@dark,
light/.code=\moloch@colors@light,
\texttt{moloch@color@setdefaults} \texttt{\textbackslash newcommand{moloch@color@setdefaults}{\pgfkeys{/moloch/color/.cd,\background=light,\}}} \\

6.5.3 \textbf{Base colors} \\
\texttt{\textbackslash definecolor{mDarkBrown}{HTML}{604c38}} \\
\texttt{\textbackslash definecolor{mDarkTeal}{HTML}{23373b}} \\
\texttt{\textbackslash definecolor{mLightBrown}{HTML}{EB811B}} \\
\texttt{\textbackslash definecolor{mLightGreen}{RGB}{0,128,128}} \\

6.5.4 \textbf{Base styles} \\
All colors in \texttt{moloch} are derived from the definitions of \texttt{normal text}, \texttt{alerted text}, and \texttt{example text}. \\
\texttt{\textbackslash newcommand{moloch@colors@dark}{\setbeamercolor{normal text}{\%
fg=black!2,\bg=mDarkTeal\} \\
\usebeamercolor[fg]{normal text}} \\
\texttt{\textbackslash newcommand{moloch@colors@light}{\setbeamercolor{normal text}{\%
fg=mDarkTeal,\bg=black!2 \\
\setbeamercolor{alerted text}{\%
fg=mLightBrown \\
\setbeamercolor{example text}{\%
fg=mLightGreen \\

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

\begin{verbatim}
\setbeamercolor{titlelike}{use=normal text, parent=normal text}
\setbeamercolor{author}{use=normal text, parent=normal text}
\setbeamercolor{date}{use=normal text, parent=normal text}
\setbeamercolor{institute}{use=normal text, fg=normal text.fg!80!normal text.bg}
\setbeamercolor{structure}{use=normal text, fg=normal text.fg}
\end{verbatim}

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

\begin{verbatim}
\setbeamercolor{palette primary}{%
    use=normal text,
    fg=normal text.bg,
    bg=normal text.fg
}
\setbeamercolor{frametitle}{%
    use=palette primary,
    parent=palette primary
}
\end{verbatim}

The \texttt{moloch} inner or outer themes optionally display progress bars in various locations. Their color is set by \texttt{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 \texttt{title separator}.

\begin{verbatim}
\setbeamercolor{progress bar}{%
    use=alerted text,
    fg=alerted text.fg,
    bg=alerted text.fg!50!black!30
}
\setbeamercolor{title separator}{%
    use=progress bar,
    parent=progress bar
}
\setbeamercolor{progress bar in head/foot}{%
    use=progress bar,
    parent=progress bar
}
\setbeamercolor{progress bar in section page}{%
    use=progress bar,
    parent=progress bar
}
\end{verbatim}
Block environments use alerted tex and example text for the title

\setbeamercolor{block title alerted}{%
    use={block title, alerted text},
    fg=alerted text.fg
}
\setbeamercolor{block title example}{%
    use={block title, example text},
    fg=example text.fg
}

Footnotes

\setbeamercolor{footnote}{fg=normal text.fg!90}
\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.

\setbeamercolor{bibliography entry author}{fg=, bg=}
\setbeamercolor{bibliography entry title}{fg=, bg=}
\setbeamercolor{bibliography entry location}{fg=, bg=}
\setbeamercolor{bibliography entry note}{fg=, bg=}

6.5.6 Process package options

\moloch@color@setdefaults
\ProcessPgfPackageOptions{/moloch/color}
\mode<all>