
lookatme

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Contents

1	Tour	3
2	TL;DR Getting Started	5
2.1	Getting Started	6
2.2	Slides	8
2.3	Dark Theme	9
2.4	Light Theme	10
2.5	Style Precedence	11
2.6	Contrib Extensions	13
2.7	Smart Slide Splitting	16
2.8	lookatme	16
3	Indices and tables	31
	Python Module Index	33
	Index	35

lookatme is an interactive, terminal-based markdown presentation tool that supports:

- Themes
- Syntax highlighting
- Styling and settings embedded within the Markdown YAML header
- Embedded terminals as part of a presentation
- Live and manual source reloading
- Contrib extensions
- Smart Slide Splitting

CHAPTER 1

Tour

CHAPTER 2

TL;DR Getting Started

Install lookatme with:

```
pip install lookatme
```

Run lookatme on slides written in Markdown:

```
lookatme slides.md
```

Slides are separated with `---` hrules:

```
# Slide 1

Some text

---

# Slide 2

More text
```

A basic, optional YAML header may be included at the top of the slides:

```
---
title: Slides Presentation
author: Me Not You
date: 2019-12-02
---

# Slide 1

Some text
```

2.1 Getting Started

2.1.1 Installation

lookatme can be installed with pip using the command:

```
pip install lookatme
```

2.1.2 Usage

The lookatme CLI has a few options to control it's behavior:

```
Usage: lookatme [OPTIONS] [INPUT_FILE]

lookatme - An interactive, terminal-based markdown presentation tool.

Options:
  --debug
  -l, --log PATH
  -t, --theme [dark|light]
  -s, --style_
  ↪ [default|emacs|friendly|colorful|autumn|murphy|manni|monokai|perldoc|pastie|borland|trac|native|fr
  ↪ light|paraiso-dark|lovelace|algol|algol_nu|arduino|rainbow_dash|abap|solarized-
  ↪ dark|solarized-light|sas|stata|stata-light|stata-dark]
  --dump-styles           Dump the resolved styles that will be used
                          with the presentation to stdout
  --live, --live-reload   Watch the input filename for modifications
                          and automatically reload
  --help                  Show this message and exit.
```

--live / --live-reload

This flag turns on live reloading within lookatme. If the input markdown is a filepath (and not stdin), the filepath with be watched for changes to its modification time. If a change to the file's modification time is observed, the slide deck is re-read and rendered, keeping the current slide in focus.

If your editor supports saving with every keystroke, instant slide updates are possible:

--debug and --log

Turns on debug logging for lookatme. The debug log will be created in your platform's temporary directory by default and will be named lookatme.log:

```
$> lookatme slides.md --debug

# in another terminal
$> tail -f /tmp/lookatme.log
DEBUG:lookatme.RENDER: Rendering token {'type': 'heading', 'level': 2, 'text': 'TOC'}
DEBUG:lookatme.RENDER: Rendering token {'type': 'list_start', 'ordered': False}
DEBUG:lookatme.RENDER: Rendering token {'type': 'list_item_start'}
DEBUG:lookatme.RENDER: Rendering token {'type': 'text', 'text': '[Features]('
↪ #features)')}
```

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```
DEBUG:lookatme.RENDER:      Rendering token {'type': 'list_start', 'ordered': False}
DEBUG:lookatme.RENDER:      Rendering token {'type': 'list_item_start'}
```

You may set a custom log location with the `--log` flag

`--theme`

Themes in lookatme are pre-defined stylings. Lookatme comes with two built-in themes: `dark` and `light`. These themes are intended to look good on dark terminals and light terminals.

See the [Dark Theme](#) and [Light Theme](#) pages for more details. See the [Style Precedence](#) page for details on the order style overrides and settings are applied.

`--style`

This option overrides the [Pygments](#) syntax highlighting style to use. See the [Style Precedence](#) for details about style overriding order.

At the time of this writing, available Pygments style options include:

- `default`
- `emacs`
- `friendly`
- `colorful`
- `autumn`
- `murphy`
- `manni`
- `monokai`
- `perldoc`
- `pastie`
- `borland`
- `trac`
- `native`
- `fruity`
- `bw`
- `vim`
- `vs`
- `tango`
- `rrt`
- `xcode`
- `igor`
- `paraiso-light`

- paraiso-dark
- lovelace
- algol
- algol_nu
- arduino
- rainbow_dash
- abap
- solarized-dark
- solarized-light
- sas
- stata
- stata-light
- stata-dark

--dump-styles

Print the final, resolved style definition that will be used to render the markdown as currently specified on the command-line. See the *Style Precedence* section for details on how this works.

E.g.:

```
lookatme examples/tour.md -theme --style solarized-dark --dump-styles
```

2.2 Slides

Slides in lookatme are:

- Separated by hrule elements: --- in Markdown
- Resized to fit the current window

2.2.1 Metadata

Slide metadata is contained within an optional YAML header:

```
---
title: TITLE
author: AUTHOR
date: 2019-12-02
extensions: []
styles: {}
---
```

Extensions

Extensions are lookatme contrib modules that redefine lookatme behavior. E.g., the `lookatmecontrib.calendar` example in the [examples folder](#) redefines the `render_code` function found in `lookatme/render/markdown_block.py`.

The original `render_code` function gives contrib extensions first-chance at handling any function calls. Contrib extensions are able to ignore function calls, and thus allow the default lookatme behavior, by raising the *`IgnoredByContrib`* exception:

```
import datetime
import calendar
import urwid

from lookatme.exceptions import IgnoredByContrib

def render_code(token, body, stack, loop):
    lang = token["lang"] or ""
    if lang != "calendar":
        raise IgnoredByContrib()

    today = datetime.datetime.utcnow()
    return urwid.Text(calendar.month(today.year, today.month))
```

Styles

In addition to the `--style` and `--theme` CLI options for lookatme, the slide metadata may explicitly override styling behaviors within lookatme:

```
---
title: TITLE
author: AUTHOR
date: 2019-12-02
styles:
  style: monokai
  table:
    column_spacing: 3
    header_divider: "-"
---

# Slide 1

text
```

The final, resolved styling settings that will be used when displaying a markdown source is viewable by adding the `--dump-styles` flag as a command-line argument.

See the [Default Style Settings](#) for a full list of available, overrideable styles.

2.3 Dark Theme

The dark theme is intended to appear well on terminals with dark backgrounds

■ Markdown Support: Inline

Markdown	Result
<code>*italic*</code>	<i>italic</i>
<code>_italic_</code>	<i>italic</i>
<code>**bold**</code>	bold
<code>__bold__</code>	bold
<code>***bold underline***</code>	<u>bold underline</u>
<code>__bold underline__</code>	<u>bold underline</u>
<code>~~strikethrough~~</code>	strikethrough
<code>[link](https://google.com)</code>	link
<code>`code`</code>	<code>code</code>

■ Markdown Support: Headers

■ Heading 2

■ Heading 3

■ Heading 4

More text

■ Markdown Support: Code Blocks & Quotes

Code blocks with language syntax highlighting

```
def a_function(arg1, arg2):  
    """This is a function  
    """  
    print(arg1)
```

A quote is below:

```
[ This is a quote  
]
```

2.4 Light Theme

The light theme is intended to appear well on terminals with light backgrounds

■ Markdown Support: Inline

Markdown	Result
<code>*italic*</code>	<i>italic</i>
<code>_italic_</code>	<i>italic</i>
<code>**bold**</code>	bold
<code>_bold_</code>	bold
<code>***bold underline***</code>	<u>bold underline</u>
<code>__bold underline__</code>	<u>bold underline</u>
<code>~~strikethrough~~</code>	strikethrough
<code>[link](https://google.com)</code>	link
<code>`code`</code>	code

■ Markdown Support: Headers

■ Heading 2

■ Heading 3

■ Heading 4

More text

■ Markdown Support: Code Blocks & Quotes

Code blocks with language syntax highlighting

```
def a_function(arg1, arg2):
    """This is a function
    """
    print(arg1)
```

A quote is below:

```
[ This is a quote
]
```

2.5 Style Precedence

Styling may be set in three locations in lookatme:

1. In a theme
2. In a slide's YAML header
3. On the command-line

When constructing the final, resolved style set that will be used to render markdown, lookatme starts with the default style settings defined in `lookatme.schemas`, and then applies overrides in the order specified above.

Overrides are applied by performing a deep merge of nested dictionaries. For example, if the default styles defined in `schemas.py` were:

```
headings:
  "1":
    fg: "#33c,bold"
    bg: "default"
  "2":
    fg: "#222,bold"
    bg: "default"
```

... and if the style overrides defined by a theme were:

```
headings:
  "1":
    bg: "#f00"
```

... and if the style overrides defined in the slide YAML header were:

```
headings:
  "2":
    fg: "#f00,bold,underline"
```

The final, resolved style settings for rendering the markdown would be:

```
headings:
  "1":
    fg: "#33c,bold"
    bg: "#f00" # from the theme
  "2":
    fg: "#f00,bold,underline" # from the slide YAML header
    bg: "default"
```

2.5.1 Default Style Settings

The default styles and formats are defined in the marshmallow schemas in `lookatme.schemas`. The dark theme is an empty theme with no overrides (the defaults *are* the dark theme):

```
title:
  bg: default
  fg: '#f30,bold,italics'
author:
  bg: default
  fg: '#f30'
date:
  bg: default
  fg: '#777'
slides:
  bg: default
  fg: '#f30'
bullets:
  '1': .
  '2':
  '3': o
  default: .
headings:
```

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```

'1':
  bg: default
  fg: '#9fc,bold'
  prefix: ' '
  suffix: ''
'2':
  bg: default
  fg: '#1cc,bold'
  prefix: ' '
  suffix: ''
'3':
  bg: default
  fg: '#29c,bold'
  prefix: ' '
  suffix: ''
'4':
  bg: default
  fg: '#559,bold'
  prefix: ' '
  suffix: ''
default:
  bg: default
  fg: '#346,bold'
  prefix: ' '
  suffix: ''
link:
  bg: default
  fg: '#33c,underline'
quote:
  bottom_corner: L
  side:
  style:
    bg: default
    fg: italics,#aaa
  top_corner:
style: monokai
table:
  column_spacing: 3
  header_divider: -

```

2.6 Contrib Extensions

lookatme allows an extension to override and redefine how markdown is rendered. Extensions have first-chance opportunities to handle rendering function calls. Extensions also have the ability to ignore specific rendering function calls and allow original lookatme behavior (or other extensions) to handle the call to that rendering function.

For example, an extension may provide its own implementation of the render function `render_table` to provide custom table rendering, such as sortable rows, alternating row background colors, etc.

2.6.1 Using Extensions

Extensions are namespace packages within `lookatme.contrib`. They are used by

1. Installing the extension with `pip install lookatme.contrib.XXX`

2. Adding the extension to the list of extensions required by your slides:

```
---
title: TITLE
author: AUTHOR
date: 2019-11-01
extensions:
  - XXX
---

# Slide 1

...
```

2.6.2 Extension Layout

It is highly recommended that you use the [lookatme.contrib-template](#) to create new extensions.

Extensions *must* be a namespaced module within the `lookatme.contrib` submodule. The basic tree layout for such an extension is below:

```
examples/calendar_contrib/
├── lookatme
│   └── contrib
│       └── calendar.py
└── setup.py
```

Notice that there is not an `__init__.py` file in the `contrib` path. This is using the [implicit namespace package](#) format for creating namespace packages, where an `__init__.py` is not needed.

2.6.3 Extension setup.py

Below is the `setup.py` from the `examples/calendar_contrib` extension:

```
"""
Setup for lookatme.contrib.calender example
"""

from setuptools import setup, find_namespace_packages
import os

setup(
    name="lookatme.contrib.calendar",
    version="0.0.0",
    description="Adds a calendar code block type",
    author="James Johnson",
    author_email="d0c.s4vage@gmail.com",
    python_requires=">=3.5",
    packages=find_namespace_packages(include=["lookatme.*"]),
)
```

2.6.4 Overriding Behavior

Any function within lookatme that is decorated with `@contrib_first` may be overridden by an extension by defining a function of the same name within the extension module.

For example, to override the `render_code` function that is declared in lookatme in `lookatme/render/markdown_block.py`, the example calendar extension must declare its own function named `render_code` that accepts the same arguments and provides the same return values as the original function:

```
"""
Defines a calendar extension that overrides code block rendering if the
language type is calendar
"""

import datetime
import calendar
import urwid

from lookatme.exceptions import IgnoredByContrib

def render_code(token, body, stack, loop):
    lang = token["lang"] or ""
    if lang != "calendar":
        raise IgnoredByContrib()

    today = datetime.datetime.utcnow()
    return urwid.Text(calendar.month(today.year, today.month))
```

Notice how the extension code above raises the `IgnoredByContrib` exception to allow the default lookatme behavior to occur.

2.6.5 Overrideable Functions

Below is an automatically generated list of all overrideable functions that are present in this release of lookatme. See the `lookatme.tui.SlideRenderer.do_render` function for details on `markdown_block` render function arguments and return values.

- `render_newline`
- `render_heading`
- `render_table`
- `render_list_start`
- `render_list_end`
- `render_list_item_start`
- `render_loose_item_start`
- `render_list_item_end`
- `render_text`
- `render_paragraph`
- `render_block_quote_start`

- `render_block_quote_end`
- `render_code`
- `inline_html`
- `text`
- `escape`
- `autolink`
- `footnote_ref`
- `image`
- `link`
- `double_emphasis`
- `emphasis`
- `codespan`
- `linebreak`
- `strikethrough`

2.7 Smart Slide Splitting

lookatme will automatically split input markdown into separate slides if no `hrules` are present in the input markdown.

Slides are split automatically in two ways

1. If the lowest (e.g. `h1 < h2`) heading occurs only once, that heading is used as the title for the presentation. The next lowest heading will be used as the slide separator marker.
3. If the lowest (e.g. `h1 < h2`) heading occurs multiple times, that heading will be used as the slide separator marker and the heading will not be set.

E.g., below is the README.md of lookatme:

2.8 lookatme

2.8.1 lookatme package

Subpackages

lookatme.contrib package

Submodules

lookatme.contrib.terminal module

This module defines a built-in contrib module that enables terminal embedding within a slide.

`lookatme.contrib.terminal.render_code` (*token, body, stack, loop*)

```
lookatme.contrib.terminal.shutdown()
```

Module contents

This module handles loading and using lookatme_contrib modules

Contrib modules are directly used

```
lookatme.contrib.contrib_first(fn)
```

A decorator that allows contrib modules to override default behavior of lookatme. E.g., a contrib module may override how a table is displayed to enable sorting, or enable displaying images rendered with ANSI color codes and box drawing characters, etc.

Contrib modules may ignore chances to override default behavior by raising the `lookatme.contrib.IgnoredByContrib` exception.

```
lookatme.contrib.load_contribs(contrib_names)
```

Load all contrib modules specified by `contrib_names`. These should all be namespaced packages under the `lookatmecontrib` namespace. E.g. `lookatmecontrib.calendar` would be an extension provided by a contrib module, and would be added to an extensions list in a slide's YAML header as `calendar`.

```
lookatme.contrib.shutdown_contribs()
```

Call the shutdown function on all contrib modules

lookatme.render package

Submodules

lookatme.render.asciinema module

lookatme.render.markdown_block module

Defines render functions that render lexed markdown block tokens into urwid representations

```
lookatme.render.markdown_block.render_block_quote_end(token, body, stack, loop)
```

Pops the block quote start `urwid.Pile()` from the stack, taking future renderings out of the block quote styling.

See `lookatme.tui.SlideRenderer.do_render` for additional argument and return value descriptions.

```
lookatme.render.markdown_block.render_block_quote_start(token, body, stack, loop)
```

Begins rendering of a block quote. Pushes a new `urwid.Pile()` to the stack that is indented, has styling applied, and has the quote markers on the left.

This function makes use of the styles:

```
quote:
  top_corner: ""
  bottom_corner: "L"
  side: ""
  style:
    bg: default
    fg: italics, #aaa
```

See `lookatme.tui.SlideRendererer.do_render` for additional argument and return value descriptions.

`lookatme.render.markdown_block.render_code(token, body, stack, loop)`

Renders a code block using the Pygments library.

See `lookatme.tui.SlideRendererer.do_render` for additional argument and return value descriptions.

`lookatme.render.markdown_block.render_heading(token, body, stack, loop)`

Render markdown headings, using the defined styles for the styling and prefix/suffix.

See `lookatme.tui.SlideRendererer.do_render` for argument and return value descriptions.

Below are the default stylings for headings:

```
headings:
'1':
  bg: default
  fg: '#9fc,bold'
  prefix: " "
  suffix: ""
'2':
  bg: default
  fg: '#1cc,bold'
  prefix: " "
  suffix: ""
'3':
  bg: default
  fg: '#29c,bold'
  prefix: " "
  suffix: ""
'4':
  bg: default
  fg: '#66a,bold'
  prefix: " "
  suffix: ""
default:
  bg: default
  fg: '#579,bold'
  prefix: " "
  suffix: ""
```

Returns A list of urwid Widgets or a single urwid Widget

`lookatme.render.markdown_block.render_list_end(token, body, stack, loop)`

Pops the pushed `urwid.Pile()` from the stack (decreases indentation)

See `lookatme.tui.SlideRendererer.do_render` for argument and return value descriptions.

`lookatme.render.markdown_block.render_list_item_end(token, body, stack, loop)`

Pops the pushed `urwid.Pile()` from the stack (decreases indentation)

See `lookatme.tui.SlideRendererer.do_render` for argument and return value descriptions.

`lookatme.render.markdown_block.render_list_item_start(token, body, stack, loop)`

Render the start of a list item. This function makes use of the styles:

```
bullets:
'1': ". "
```

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(continued from previous page)

```
'2': ""
'3': "o"
default: "."
```

See `lookatme.tui.SlideRendererer.do_render` for argument and return value descriptions.

`lookatme.render.markdown_block.render_list_start` (*token, body, stack, loop*)

Handles the indentation when starting rendering a new list. List items themselves (with the bullets) are rendered by the `render_list_item_start` function.

See `lookatme.tui.SlideRendererer.do_render` for argument and return value descriptions.

`lookatme.render.markdown_block.render_loose_item_start` (*token, body, stack, loop*)

Render the start of a list item. This function makes use of the styles:

```
bullets:
'1': "."
'2': ""
'3': "o"
default: "."
```

See `lookatme.tui.SlideRendererer.do_render` for argument and return value descriptions.

`lookatme.render.markdown_block.render_newline` (*token, body, stack, loop*)

Render a newline

See `lookatme.tui.SlideRendererer.do_render` for argument and return value descriptions.

`lookatme.render.markdown_block.render_paragraph` (*token, body, stack, loop*)

Renders the provided text with additional pre and post paddings.

See `lookatme.tui.SlideRendererer.do_render` for additional argument and return value descriptions.

`lookatme.render.markdown_block.render_table` (*token, body, stack, loop*)

Renders a table using the `Table` widget.

See `lookatme.tui.SlideRendererer.do_render` for argument and return value descriptions.

The table widget makes use of the styles below:

```
table:
column_spacing: 3
header_divider: "-"
```

Returns A list of urwid Widgets or a single urwid Widget

`lookatme.render.markdown_block.render_text` (*token=None, body=None, stack=None, loop=None, text=None*)

Renders raw text. This function uses the inline markdown lexer from mistune with the `lookatme.render.markdown_inline` render module to render the lexed inline markup to `urwid Text` markup. The created Text markup is then used to create and return a `ClickableText` instance.

Many other functions call this function directly, passing in the extra `text` argument and leaving all other arguments blank.

See `lookatme.tui.SlideRendererer.do_render` for additional argument and return value descriptions.

lookatme.render.markdown_inline module

Defines render functions that work with mistune's markdown inline lexer render interface

`lookatme.render.markdown_inline.autolink(link_uri, is_email=False)`

Renders a URI as a link

Returns list of `urwid Text` markup tuples.

`lookatme.render.markdown_inline.codespan(text, old_styles)`

Renders inline code using the pygments renderer. This function also makes use of the coding style:

`style: monokai`

Returns

list of `urwid Text` markup tuples.

`lookatme.render.markdown_inline.double_emphasis(text, old_styles)`

Renders double emphasis. Handles both `**word**` and `__word__`

Returns

list of `urwid Text` markup tuples.

`lookatme.render.markdown_inline.emphasis(text, old_styles)`

Renders double emphasis. Handles both `*word*` and `_word_`

Returns

list of `urwid Text` markup tuples.

`lookatme.render.markdown_inline.escape(text)`

Renders escapes

Returns

list of `urwid Text` markup tuples.

`lookatme.render.markdown_inline.expanded_styles(fn)`

`lookatme.render.markdown_inline.footnote_ref(key, index)`

Renders a footnote

Returns

list of `urwid Text` markup tuples.

`lookatme.render.markdown_inline.image(link_uri, title, text)`

Renders an image as a link. This would be a cool extension to render referenced images as scaled-down ansi pixel blocks.

Returns

list of `urwid Text` markup tuples.

`lookatme.render.markdown_inline.inline_html(text)`

Renders inline html as plaintext

Returns

list of `urwid Text` markup tuples.

`lookatme.render.markdown_inline.linebreak()`

Renders a line break

Returns

list of `urwid Text` markup tuples.

```
lookatme.render.markdown_inline.link (link_uri, title, link_text)
```

Renders a link. This function does a few special things to make the clickable links happen. All text in lookatme is rendered using the `ClickableText` class. The `ClickableText` class looks for `urwid.AttrSpec` instances that are actually `LinkIndicatorSpec` instances within the `Text` markup. If an `AttrSpec` is an instance of `LinkIndicator` spec in the `Text` markup, `ClickableText` knows to handle clicks on that section of the text as a link.

Returns

list of `urwid Text` markup tuples.

```
lookatme.render.markdown_inline.placeholder ()
```

The starting point of the rendering. The final result will be this returned list with all inline markdown tokens translated into urwid objects

```
lookatme.render.markdown_inline.render_no_change (text)
```

Render inline markdown text with no changes

```
lookatme.render.markdown_inline.strikethrough (text, old_styles)
```

Renders strikethrough text (`~~text~~`)

Returns

list of `urwid Text` markup tuples.

```
lookatme.render.markdown_inline.text (text)
```

Renders plain text (does nothing)

Returns

list of `urwid Text` markup tuples.

lookatme.render.pygments module

Pygments related rendering

```
class lookatme.render.pygments.UrwidFormatter (**options)
```

Bases: `pygments.formatter.Formatter`

Formatter that returns [(text,attrspec), ...], where text is a piece of text, and attrspec is an `urwid.AttrSpec`

```
classmethod findclosest (colstr, colors=256)
```

Takes a hex string and finds the nearest color to it.

Returns a string urwid will recognize.

```
findclosestattr (fgcolstr=None, bgcolstr=None, othersettings="", colors=256)
```

Takes two hex colstring (e.g. 'ff00dd') and returns the nearest urwid style.

```
format (tokensource, outfile)
```

Format tokensource, an iterable of (tokentype, tokenstring) tuples and write it into outfile.

```
formatgenerator (tokensource)
```

Takes a token source, and generates (tokenstring, `urwid.AttrSpec`) pairs

```
style
```

```
lookatme.render.pygments.get_formatter (style_name)
```

```
lookatme.render.pygments.get_lexer(lang, default='text')
lookatme.render.pygments.get_style(style_name)
lookatme.render.pygments.render_text(text, lang='text', style_name=None, plain=False)
    Render the provided text with the pygments renderer
```

Module contents

lookatme.themes package

Submodules

lookatme.themes.dark module

Defines styles that should look good on dark backgrounds

lookatme.themes.light module

Module contents

Defines the built-in styles for lookatme

```
lookatme.themes.ensure_defaults(mod)
    Ensure that all required attributes exist within the provided module
```

lookatme.widgets package

Submodules

lookatme.widgets.clickable_text module

This module contains code for ClickableText

```
class lookatme.widgets.clickable_text.ClickableText(markup, align='left', wrap='space', layout=None)
    Bases: urwid.widget.Text
    Allows clickable/changing text to be part of the Text() contents

    mouse_event (size, event, button, x, y, focus)
        Handle mouse events!

    signals = ['click', 'change']

class lookatme.widgets.clickable_text.LinkIndicatorSpec(link_label, link_target, orig_spec)
    Bases: urwid.display_common.AttrSpec
    Used to track a link within an urwid.Text instance
```

lookatme.widgets.table module

Defines a basic Table widget for urwid

class lookatme.widgets.table.**Table** (*rows, headers=None, aligns=None*)

Bases: urwid.container.Pile

Create a table from a list of headers, alignment values, and rows.

calc_column_maxes ()

create_cells (*body_rows, modifier=None*)

Create the rows for the body, optionally calling a modifier function on each created cell Text. The modifier must accept an urwid.Text object and must return an urwid.Text object.

render (*size, focus=False*)

Do whatever needs to be done to render the table

set_column_maxes ()

Calculate and set the column maxes for this table

signals = ['change']

watch (*w*)

Watch the provided widget w for changes

Module contents

Submodules

lookatme.config module

Config module for lookatme

lookatme.exceptions module

Exceptions used within lookatme

exception lookatme.exceptions.**IgnoredByContrib**

Bases: Exception

Raised when a contrib module's function chooses to ignore the function call.

lookatme.log module

Logging module

lookatme.log.**create_log** (*log_path*)

Create a new log that writes to log_path

lookatme.log.**create_null_log** ()

Create a logging object that does nothing

lookatme.parser module

This module defines the parser for the markdown presentation file

class lookatme.parser.Parser

Bases: object

A parser for markdown presentation files

parse (input_data)

Parse the provided input data into a Presentation object

Parameters **input_data** (*str*) – The input markdown presentation to parse

Returns Presentation

parse_meta (input_data)

Parse the PresentationMeta out of the input data

Parameters **input_data** (*str*) – The input data string

Returns tuple of (remaining_data, meta)

parse_slides (meta, input_data)

Parse the Slide out of the input data

Parameters

- **meta** (*dict*) – The parsed meta values
- **input_data** (*str*) – The input data string

Returns tuple of (remaining_data, slide)

lookatme.pres module

Defines Presentation specific objects

class lookatme.pres.Presentation (input_stream, theme, style_override=None, live_reload=False)

Bases: object

Defines a presentation

reload (data=None)

Reload this presentation

Parameters **data** (*str*) – The data to render for this slide deck (optional)

reload_watcher ()

Watch for changes to the input filename, automatically reloading when the modified time has changed.

run (start_slide=0)

Run the presentation!

lookatme.schemas module

Defines all schemas used in lookatme

```

class lookatme.schemas.BlockQuoteSchema(*, only: Union[Sequence[str], Set[str]] = None,
                                          exclude: Union[Sequence[str], Set[str]] = (),
                                          many: bool = False, context: Dict[KT, VT] =
                                          None, load_only: Union[Sequence[str], Set[str]]
                                          = (), dump_only: Union[Sequence[str], Set[str]]
                                          = (), partial: Union[bool, Sequence[str], Set[str]]
                                          = False, unknown: str = None)

Bases: marshmallow.schema.Schema

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.BulletsSchema(*, only: Union[Sequence[str], Set[str]] = None,
                                       exclude: Union[Sequence[str], Set[str]] = (),
                                       many: bool = False, context: Dict[KT, VT] = None,
                                       load_only: Union[Sequence[str], Set[str]] = (),
                                       dump_only: Union[Sequence[str], Set[str]] = (),
                                       partial: Union[bool, Sequence[str], Set[str]] = False,
                                       unknown: str = None)

Bases: marshmallow.schema.Schema

class Meta
    Bases: object

    include = {'1': <fields.String(default='•', attribute=None, validate=None, require...

    opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.HeadingStyleSchema(*, only: Union[Sequence[str], Set[str]]
                                           = None, exclude: Union[Sequence[str],
                                           Set[str]] = (), many: bool = False, con-
                                           text: Dict[KT, VT] = None, load_only:
                                           Union[Sequence[str], Set[str]] = (),
                                           dump_only: Union[Sequence[str], Set[str]]
                                           = (), partial: Union[bool, Sequence[str], Set[str]]
                                           = False, unknown: str = None)

Bases: marshmallow.schema.Schema

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.HeadingsSchema(*, only: Union[Sequence[str], Set[str]] = None,
                                       exclude: Union[Sequence[str], Set[str]] = (),
                                       many: bool = False, context: Dict[KT, VT] = None,
                                       load_only: Union[Sequence[str], Set[str]] = (),
                                       dump_only: Union[Sequence[str], Set[str]] = (),
                                       partial: Union[bool, Sequence[str], Set[str]] = False,
                                       unknown: str = None)

Bases: marshmallow.schema.Schema

class Meta
    Bases: object

    include = {'1': <fields.Nested(default={'fg': '#9fc,bold', 'bg': 'default', 'pre...

    opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.MetaSchema(*, only: Union[Sequence[str], Set[str]] = None,
                                    exclude: Union[Sequence[str], Set[str]] = (),
                                    many: bool = False, context: Dict[KT, VT] = None,
                                    load_only: Union[Sequence[str], Set[str]] = (),
                                    dump_only: Union[Sequence[str], Set[str]] = (),
                                    partial: Union[bool, Sequence[str], Set[str]] = False,
                                    unknown: str = None)

```

Bases: `marshmallow.schema.Schema`

The schema for presentation metadata

class Meta

Bases: `object`

render_module

alias of `YamlRender`

opts = <marshmallow.schema.SchemaOpts object>

class `lookatme.schemas.NoDatesSafeLoader` (*stream*)

Bases: `yaml.loader.SafeLoader`

classmethod `remove_implicit_resolver` (*tag_to_remove*)

Remove implicit resolvers for a particular tag

Takes care not to modify resolvers in super classes.

We want to load datetimes as strings, not dates, because we go on to serialise as json which doesn't have the advanced types of yaml, and leads to incompatibilities down the track.

yaml_implicit_resolvers = {'': [('tag:yaml.org,2002:null', re.compile('^(?: ~\n |nul

class `lookatme.schemas.StyleFieldSchema` (*, *only: Union[Sequence[str], Set[str]] = None, exclude: Union[Sequence[str], Set[str]] = (), many: bool = False, context: Dict[KT, VT] = None, load_only: Union[Sequence[str], Set[str]] = (), dump_only: Union[Sequence[str], Set[str]] = (), partial: Union[bool, Sequence[str], Set[str]] = False, unknown: str = None*)

Bases: `marshmallow.schema.Schema`

opts = <marshmallow.schema.SchemaOpts object>

class `lookatme.schemas.StyleSchema` (*, *only: Union[Sequence[str], Set[str]] = None, exclude: Union[Sequence[str], Set[str]] = (), many: bool = False, context: Dict[KT, VT] = None, load_only: Union[Sequence[str], Set[str]] = (), dump_only: Union[Sequence[str], Set[str]] = (), partial: Union[bool, Sequence[str], Set[str]] = False, unknown: str = None*)

Bases: `marshmallow.schema.Schema`

Styles schema for themes and style overrides within presentations

class Meta

Bases: `object`

render_module

alias of `YamlRender`

opts = <marshmallow.schema.SchemaOpts object>

class `lookatme.schemas.TableSchema` (*, *only: Union[Sequence[str], Set[str]] = None, exclude: Union[Sequence[str], Set[str]] = (), many: bool = False, context: Dict[KT, VT] = None, load_only: Union[Sequence[str], Set[str]] = (), dump_only: Union[Sequence[str], Set[str]] = (), partial: Union[bool, Sequence[str], Set[str]] = False, unknown: str = None*)

Bases: `marshmallow.schema.Schema`

opts = <marshmallow.schema.SchemaOpts object>

```

class lookatme.schemas.YamlRender
    Bases: object

    dumps ()

    loads ()

```

lookatme.slide module

Slide info holder

```

class lookatme.slide.Slide (tokens, md=None, number=0)
    Bases: object

    This class defines a single slide. It operates on mistune's lexed tokens from the input markdown

```

lookatme.tui module

This module defines the text user interface (TUI) for lookatme

```

class lookatme.tui.MarkdownTui (pres, start_idx=0)
    Bases: urwid.container.Frame

    keypress (size, key)
        Handle keypress events

    prep_pres (pres, start_idx=0)
        Prepare the presentation for displaying/use

    reload ()
        Reload the input, keeping the current slide in focus

    run ()

    update ()

    update_body ()
        Render the provided slide body

    update_creation ()
        Update the author and date

    update_slide_num ()
        Update the slide number

    update_title ()
        Update the title

class lookatme.tui.SlideRenderer (loop)
    Bases: threading.Thread

    daemon = True

    do_render (to_render, slide_num)
        Perform the actual rendering of a slide. This is done by:
        

- parsing the slide into tokens (should have occurred already)
- iterating through each parsed markdown token
- calling the appropriately-named render function for the token["type"] in lookatme.render.markdown_block

```

Each render function must have the signature:

```
def render_XXX(token, body, stack, loop):  
    pass
```

The arguments to the render function are described below:

- `token` - the lexed markdown token - a dictionary
- `body` - the current `urwid.Pile()` that return values will be added to (same as `stack[-1]`)
- `stack` - The stack of `urwid.Pile()` used during rendering. E.g., when rendering nested lists, each nested list will push a new `urwid.Pile()` to the stack, each wrapped with its own additional indentation.
- `loop` - the `urwid.MainLoop` instance being used by lookatme. This won't usually be used, but is available if needed.

Main render functions (those defined in `markdown_block.py`) may have three types of return values:

- `None` - nothing is added to `stack[-1]`. Perhaps the render function only needed to add additional indentation by pushing a new `urwid.Pile()` to the stack.
- `list(urwid.Widget)` - A list of widgets to render. These will automatically be added to the `Pile` at `stack[-1]`
- `urwid.Widget` - A single widget to render. Will be added to `stack[-1]` automatically.

flush_cache()

Clea everything out of the queue and the cache.

get_slide(slide_number)

Fetch the slide from the cache

queue_render(slide)

Queue up a slide to be rendered.

render_slide(slide, force=False)

Render a slide, blocking until the slide completes. If `force` is `True`, rerender the slide even if it is in the cache.

run()

Run the main render thread

stop()

`lookatme.tui.create_tui(pres, start_slide=0)`

Run the provided presentation

Parameters `start_slide(int)` – 0-based slide index

`lookatme.tui.text(style, data, align='left')`

lookatme.utils module

`lookatme.utils.dict_deep_update(to_update, new_vals)`

Deeply update the `to_update` dict with the `new_vals`

`lookatme.utils.flatten_text(text, new_spec=None)`

Return a flattend list of tuples that can be used as the first argument to a new `urwid.Text()`.

Parameters

- **text** (*urwid.Text*) – The text to flatten
- **new_spec** (*urwid.AttrSpec*) – A new spec to merge with existing styles

Returns list of tuples

`lookatme.utils.get_fg_bg_styles(style)`

`lookatme.utils.override_spec(orig_spec, new_spec)`

`lookatme.utils.pile_add(pile, widgets)`

`lookatme.utils.resolve_bag_of_text_markup_or_widgets(items)`

Resolve the list of items into either contiguous `urwid.Text()` instances, or pre-existing `urwid.Widget` objects

`lookatme.utils.row_text(rendered_row)`

Return all text joined together from the rendered row

`lookatme.utils.spec_from_style(styles)`

Create an `urwid.AttrSpec` from a {fg:"", bg:""} style dict. If styles is a string, it will be used as the foreground

`lookatme.utils.styled_text(text, new_styles, old_styles=None, supplement_style=False)`

Return a styled text tuple that can be used within `urwid.Text`.

Note: If an `urwid.Text` instance is passed in as the `text` parameter, alignment values will be lost and must be explicitly re-added by the caller.

`lookatme.utils.translate_color(raw_text)`

Module contents

CHAPTER 3

Indices and tables

- `genindex`
- `modindex`
- `search`

I

- `lookatme`, [29](#)
- `lookatme.config`, [23](#)
- `lookatme.contrib`, [17](#)
- `lookatme.contrib.terminal`, [16](#)
- `lookatme.exceptions`, [23](#)
- `lookatme.log`, [23](#)
- `lookatme.parser`, [24](#)
- `lookatme.pres`, [24](#)
- `lookatme.render`, [22](#)
- `lookatme.render.asciinema`, [17](#)
- `lookatme.render.markdown_block`, [17](#)
- `lookatme.render.markdown_inline`, [20](#)
- `lookatme.render.pygments`, [21](#)
- `lookatme.schemas`, [24](#)
- `lookatme.slide`, [27](#)
- `lookatme.themes`, [22](#)
- `lookatme.themes.dark`, [22](#)
- `lookatme.themes.light`, [22](#)
- `lookatme.tui`, [27](#)
- `lookatme.utils`, [28](#)
- `lookatme.widgets`, [23](#)
- `lookatme.widgets.clickable_text`, [22](#)
- `lookatme.widgets.table`, [23](#)

A

`autolink()` (in module `lookatme.render.markdown_inline`), 20

B

`BlockQuoteSchema` (class in `lookatme.schemas`), 24
`BulletsSchema` (class in `lookatme.schemas`), 25
`BulletsSchema.Meta` (class in `lookatme.schemas`), 25

C

`calc_column_maxes()` (`lookatme.widgets.table.Table` method), 23
`ClickableText` (class in `lookatme.widgets.clickable_text`), 22
`codespan()` (in module `lookatme.render.markdown_inline`), 20
`contrib_first()` (in module `lookatme.contrib`), 17
`create_cells()` (`lookatme.widgets.table.Table` method), 23
`create_log()` (in module `lookatme.log`), 23
`create_null_log()` (in module `lookatme.log`), 23
`create_tui()` (in module `lookatme.tui`), 28

D

`daemon` (`lookatme.tui.SlideRenderer` attribute), 27
`dict_deep_update()` (in module `lookatme.utils`), 28
`do_render()` (`lookatme.tui.SlideRenderer` method), 27
`double_emphasis()` (in module `lookatme.render.markdown_inline`), 20
`dumps()` (`lookatme.schemas.YamlRender` method), 27

E

`emphasis()` (in module `lookatme.render.markdown_inline`), 20
`ensure_defaults()` (in module `lookatme.themes`), 22
`escape()` (in module `lookatme.render.markdown_inline`), 20

`expanded_styles()` (in module `lookatme.render.markdown_inline`), 20

F

`findclosest()` (`lookatme.render.pygments.UrwidFormatter` class method), 21
`findclosestattr()` (`lookatme.render.pygments.UrwidFormatter` method), 21
`flatten_text()` (in module `lookatme.utils`), 28
`flush_cache()` (`lookatme.tui.SlideRenderer` method), 28
`footnote_ref()` (in module `lookatme.render.markdown_inline`), 20
`format()` (`lookatme.render.pygments.UrwidFormatter` method), 21
`formatgenerator()` (`lookatme.render.pygments.UrwidFormatter` method), 21

G

`get_fg_bg_styles()` (in module `lookatme.utils`), 29
`get_formatter()` (in module `lookatme.render.pygments`), 21
`get_lexer()` (in module `lookatme.render.pygments`), 21
`get_slide()` (`lookatme.tui.SlideRenderer` method), 28
`get_style()` (in module `lookatme.render.pygments`), 22

H

`HeadingsSchema` (class in `lookatme.schemas`), 25
`HeadingsSchema.Meta` (class in `lookatme.schemas`), 25
`HeadingStyleSchema` (class in `lookatme.schemas`), 25

I

`IgnoredByContrib`, 23

`image()` (in module `lookatme.render.markdown_inline`), 20

`include` (`lookatme.schemas.BulletsSchema.Meta` attribute), 25

`include` (`lookatme.schemas.HeadingsSchema.Meta` attribute), 25

`inline_html()` (in module `lookatme.render.markdown_inline`), 20

K

`keypress()` (`lookatme.tui.MarkdownTui` method), 27

L

`linebreak()` (in module `lookatme.render.markdown_inline`), 20

`link()` (in module `lookatme.render.markdown_inline`), 21

`LinkIndicatorSpec` (class in `lookatme.widgets.clickable_text`), 22

`load_contribs()` (in module `lookatme.contrib`), 17

`loads()` (`lookatme.schemas.YamlRender` method), 27

`lookatme` (module), 29

`lookatme.config` (module), 23

`lookatme.contrib` (module), 17

`lookatme.contrib.terminal` (module), 16

`lookatme.exceptions` (module), 23

`lookatme.log` (module), 23

`lookatme.parser` (module), 24

`lookatme.pres` (module), 24

`lookatme.render` (module), 22

`lookatme.render.asciinema` (module), 17

`lookatme.render.markdown_block` (module), 17

`lookatme.render.markdown_inline` (module), 20

`lookatme.render.pygments` (module), 21

`lookatme.schemas` (module), 24

`lookatme.slide` (module), 27

`lookatme.themes` (module), 22

`lookatme.themes.dark` (module), 22

`lookatme.themes.light` (module), 22

`lookatme.tui` (module), 27

`lookatme.utils` (module), 28

`lookatme.widgets` (module), 23

`lookatme.widgets.clickable_text` (module), 22

`lookatme.widgets.table` (module), 23

M

`MarkdownTui` (class in `lookatme.tui`), 27

`MetaSchema` (class in `lookatme.schemas`), 25

`MetaSchema.Meta` (class in `lookatme.schemas`), 26

`mouse_event()` (`lookatme.widgets.clickable_text.ClickableText` method), 22

N

`NoDatesSafeLoader` (class in `lookatme.schemas`), 26

O

`opts` (`lookatme.schemas.BlockQuoteSchema` attribute), 25

`opts` (`lookatme.schemas.BulletsSchema` attribute), 25

`opts` (`lookatme.schemas.HeadingsSchema` attribute), 25

`opts` (`lookatme.schemas.HeadingStyleSchema` attribute), 25

`opts` (`lookatme.schemas.MetaSchema` attribute), 26

`opts` (`lookatme.schemas.StyleFieldSchema` attribute), 26

`opts` (`lookatme.schemas.StyleSchema` attribute), 26

`opts` (`lookatme.schemas.TableSchema` attribute), 26

`overwrite_spec()` (in module `lookatme.utils`), 29

P

`parse()` (`lookatme.parser.Parser` method), 24

`parse_meta()` (`lookatme.parser.Parser` method), 24

`parse_slides()` (`lookatme.parser.Parser` method), 24

`Parser` (class in `lookatme.parser`), 24

`pile_add()` (in module `lookatme.utils`), 29

`placeholder()` (in module `lookatme.render.markdown_inline`), 21

`prep_pres()` (`lookatme.tui.MarkdownTui` method), 27

`Presentation` (class in `lookatme.pres`), 24

Q

`queue_render()` (`lookatme.tui.SlideRenderer` method), 28

R

`reload()` (`lookatme.pres.Presentation` method), 24

`reload()` (`lookatme.tui.MarkdownTui` method), 27

`reload_watcher()` (`lookatme.pres.Presentation` method), 24

`remove_implicit_resolver()` (`lookatme.schemas.NoDatesSafeLoader` class method), 26

`render()` (`lookatme.widgets.table.Table` method), 23

`render_block_quote_end()` (in module `lookatme.render.markdown_block`), 17

`render_block_quote_start()` (in module `lookatme.render.markdown_block`), 17

`render_code()` (in module `lookatme.contrib.terminal`), 16

`render_code()` (in module `lookatme.render.markdown_block`), 18

`render_heading()` (in module `lookatme.render.markdown_block`), 18

`render_list_end()` (in module `lookatme.render.markdown_block`), 18

[render_list_item_end\(\)](#) (in module [lookatme.render.markdown_block](#)), 18
[render_list_item_start\(\)](#) (in module [lookatme.render.markdown_block](#)), 18
[render_list_start\(\)](#) (in module [lookatme.render.markdown_block](#)), 19
[render_loose_item_start\(\)](#) (in module [lookatme.render.markdown_block](#)), 19
[render_module\(\)](#) ([lookatme.schemas.MetaSchema.Meta](#) attribute), 26
[render_module\(\)](#) ([lookatme.schemas.StyleSchema.Meta](#) attribute), 26
[render_newline\(\)](#) (in module [lookatme.render.markdown_block](#)), 19
[render_no_change\(\)](#) (in module [lookatme.render.markdown_inline](#)), 21
[render_paragraph\(\)](#) (in module [lookatme.render.markdown_block](#)), 19
[render_slide\(\)](#) ([lookatme.tui.SlideRenderer](#) method), 28
[render_table\(\)](#) (in module [lookatme.render.markdown_block](#)), 19
[render_text\(\)](#) (in module [lookatme.render.markdown_block](#)), 19
[render_text\(\)](#) (in module [lookatme.render.pygments](#)), 22
[resolve_bag_of_text_markup_or_widgets\(\)](#) (in module [lookatme.utils](#)), 29
[row_text\(\)](#) (in module [lookatme.utils](#)), 29
[run\(\)](#) ([lookatme.pres.Presentation](#) method), 24
[run\(\)](#) ([lookatme.tui.MarkdownTui](#) method), 27
[run\(\)](#) ([lookatme.tui.SlideRenderer](#) method), 28

S

[set_column_maxes\(\)](#) ([lookatme.widgets.table.Table](#) method), 23
[shutdown\(\)](#) (in module [lookatme.contrib.terminal](#)), 17
[shutdown_contribs\(\)](#) (in module [lookatme.contrib](#)), 17
[signals](#) ([lookatme.widgets.clickable_text.ClickableText](#) attribute), 22
[signals](#) ([lookatme.widgets.table.Table](#) attribute), 23
[Slide](#) (class in [lookatme.slide](#)), 27
[SlideRenderer](#) (class in [lookatme.tui](#)), 27
[spec_from_style\(\)](#) (in module [lookatme.utils](#)), 29
[stop\(\)](#) ([lookatme.tui.SlideRenderer](#) method), 28
[strikethrough\(\)](#) (in module [lookatme.render.markdown_inline](#)), 21
[style](#) ([lookatme.render.pygments.UrwidFormatter](#) attribute), 21
[styled_text\(\)](#) (in module [lookatme.utils](#)), 29
[StyleFieldSchema](#) (class in [lookatme.schemas](#)), 26
[StyleSchema](#) (class in [lookatme.schemas](#)), 26
[StyleSchema.Meta](#) (class in [lookatme.schemas](#)), 26

T

[Table](#) (class in [lookatme.widgets.table](#)), 23
[TableSchema](#) (class in [lookatme.schemas](#)), 26
[text\(\)](#) (in module [lookatme.render.markdown_inline](#)), 21
[text\(\)](#) (in module [lookatme.tui](#)), 28
[translate_color\(\)](#) (in module [lookatme.utils](#)), 29

U

[update\(\)](#) ([lookatme.tui.MarkdownTui](#) method), 27
[update_body\(\)](#) ([lookatme.tui.MarkdownTui](#) method), 27
[update_creation\(\)](#) ([lookatme.tui.MarkdownTui](#) method), 27
[update_slide_num\(\)](#) ([lookatme.tui.MarkdownTui](#) method), 27
[update_title\(\)](#) ([lookatme.tui.MarkdownTui](#) method), 27
[UrwidFormatter](#) (class in [lookatme.render.pygments](#)), 21

W

[watch\(\)](#) ([lookatme.widgets.table.Table](#) method), 23

Y

[yaml_implicit_resolvers](#) ([lookatme.schemas.NoDatesSafeLoader](#) attribute), 26
[YamlRender](#) (class in [lookatme.schemas](#)), 26