
lookatme

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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
- User-contrib behavior overrides and extensions

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):

```
bullets:
  '1': "."
  '2': ""
  '3': "o"
  default: "."
headings:
  '1':
    bg: default
    fg: '#9fc,bold'
    prefix: " "
    suffix: ""
  '2':
    bg: default
    fg: '#1cc,bold'
    prefix: " "
    suffix: ""
  '3':
    bg: default
```

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```

    fg: '#29c,bold'
    prefix: " "
    suffix: ""
  '4':
    bg: default
    fg: '#66a,bold'
    prefix: " "
    suffix: ""
  default:
    bg: default
    fg: '#579,bold'
    prefix: " "
    suffix: ""
link:
  bg: default
  fg: '#228,underline'
quote:
  top_corner: ""
  bottom_corner: "L"
  side: ""
  style:
    bg: default
    fg: italics,#aaa
style: solarized-dark
table:
  column_spacing: 3
  header_divider: "-"

```

2.6 lookatme

2.6.1 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*)

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

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

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

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

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

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

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

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

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

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

Render a table token

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

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*)

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

```

lookatme.render.markdown_inline.double_emphasis (text, old_styles)
lookatme.render.markdown_inline.emphasis (text, old_styles)
lookatme.render.markdown_inline.escape (text)
    Render inline markdown text with no changes
lookatme.render.markdown_inline.expanded_styles (fn)
lookatme.render.markdown_inline.footnote_ref (key, index)
lookatme.render.markdown_inline.image (link_uri, title, text)
lookatme.render.markdown_inline.inline_html (html)
lookatme.render.markdown_inline.linebreak ()
lookatme.render.markdown_inline.link (link_uri, title, link_text)
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.striketrough (text, old_styles)
lookatme.render.markdown_inline.text (text)
    Render inline markdown text with no changes
lookatme.render.markdown_inline.underline (text, old_styles)

```

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 (input_data)
        Parse the Slide out of the input data

        Parameters 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, 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.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, palette, 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
```

```
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 flattened 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*)

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