lookatme

Release v3.0.0-rc5

Mar 14, 2023

Contents

`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
```

Slides can be progressively rendered by adding `<!-- stop -->` comments between block elements (paragraphs, tables, lists, etc.):

```
# Progressive Slide

<!-- stop -->

Paragraph 1

<!-- stop -->

Paragraph 2

<!-- stop -->

Paragraph 3
```

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: python -m lookatme [OPTIONS] [INPUT_FILES]...

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

  See https://lookatme.readthedocs.io/en/v3.0.0-rc5 for documentation

Options:
  --debug
  --threads
  -l, --log PATH
  --tutorial TEXT               As a flag: show all tutorials. With a
                                value/comma-separated values: show the
                                specific tutorials. Use the value 'help' for
                                more help
  -t, --theme [dark|light]
  --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
  -s, --safe                    Do not load any new extensions specified in
                                the source markdown. Extensions specified via
                                env var or -e are still loaded
  --no-ext-warn                 Load new extensions specified in the source
                                markdown without warning
  -i, --ignore-ext-failure      Ignore load failures of extensions
  -e, --exts TEXT               A comma-separated list of extension names to
                                automatically load (LOOKATME_EXTS)
```

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```
  --single, --one               Render the source as a single slide
  -f, --format [html|html_raw]  The output format to convert the markdown to.
                                See also --output and --opt. Install lookatme
                                extras for additional output formats:
                                lookatme[gif]
  -o, --output OUTPUT_PATH      Output the markdown slides in a specific
                                --format to this path
  --opt OPTION                  Provide a specific option for the output
                                format in the form key=value. Use 'help' or
                                'list' to see all output options.
  --version                     Show the version and exit.
  --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:

`-e EXT_NAME1,EXT_NAME2` / `--exts EXT_NAME1,EXT_NAME2`

Allows a comma-separated list of extension names to be pre-loaded into lookatme without requring them to be declared in the Markdown source.

`-s` / `--safe`

Do **NOT** load any new extensions specified in the markdown (ignore them). New extensions are extensions that have not manually been allowed via the `-e` argument or the `LOOKATME_EXTS` environment variable.

`--no-ext-warn`

Do not warn about new extensions that are to-be-loaded that are specified in the source markdown. New extensions are extensions that have not manually been allowed via the `-e` argument or the `LOOKATME_EXTS` environment variable.

`-i`

Ignore failure loading extensions. This does not ignore warnings, but ignores any hard-errors during import, such as `ImportError`.

`--single` / `--one`

Render the markdown source as a single slide, ignoring all hrules. Scroll overflowing slides with the up/down arrow keys and page up/page down.

`--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)'}
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: {}
---
```

Additional, unknown metadata fields are allowed at the top level. However, the `styles` field and subfields are strictly validated.

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: "-"
```

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```
---

# Slide 1

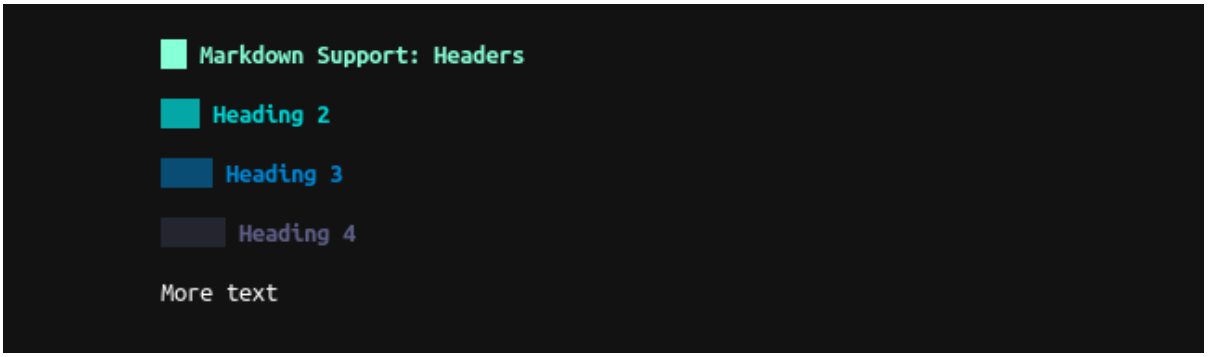
text
```

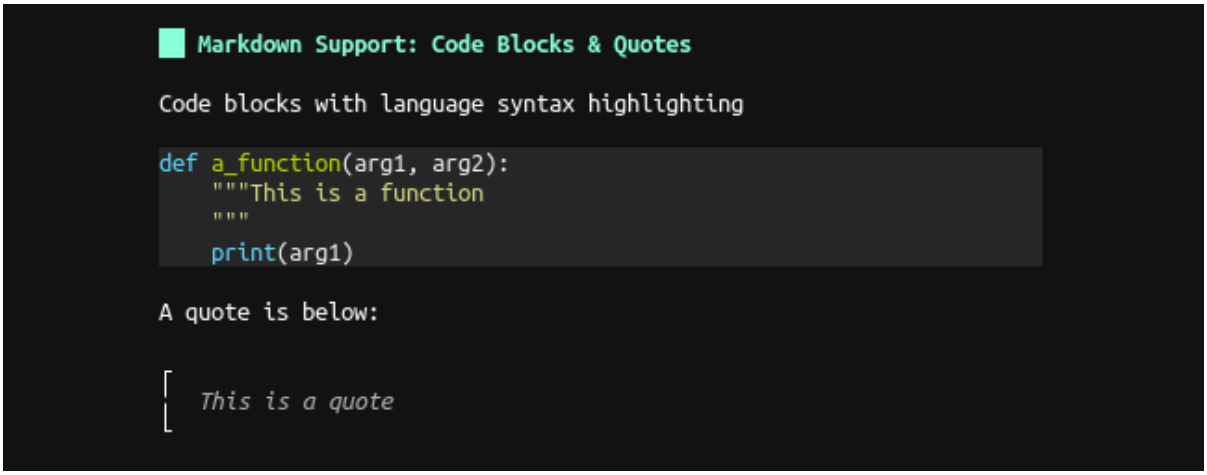
The final, resolved styling settings that will be used when displaying a markdown source is viewable by adding the `--dump-styles` flag as a command-line argument.

See the *Default Style Settings* for a full list of available, overrideable styles.

2.3 Dark Theme

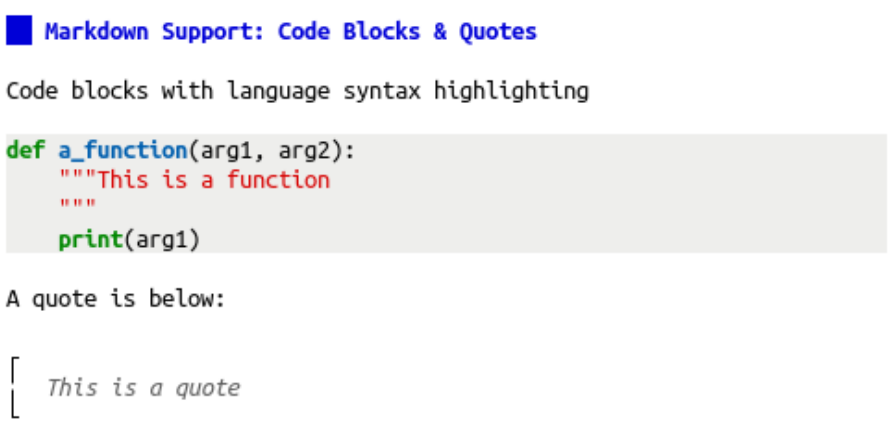
The dark theme is intended to appear well on terminals with dark backgrounds





2.4 Light Theme

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



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":
```

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```
    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):

```
author:
  bg: default
  fg: '#f30'
bullets:
  '1': •
  '2':
  '3': o
  default: •
date:
  bg: default
  fg: '#777'
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: '#559,bold'
    prefix: ' '
    suffix: ''
  default:
    bg: default
    fg: '#346,bold'
    prefix: ' '
    suffix: ''
hrule:
  char: —
  style:
    bg: default
    fg: '#777'
link:
  bg: default
```

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```
  fg: '#33c,underline'
margin:
  bottom: 0
  left: 2
  right: 2
  top: 0
numbering:
  '1': numeric
  '2': alpha
  '3': roman
  default: numeric
padding:
  bottom: 0
  left: 10
  right: 10
  top: 0
quote:
  bottom_corner: └
  side:
  style:
    bg: default
    fg: italics,#aaa
  top_corner:
slides:
  bg: default
  fg: '#f30'
style: monokai
table:
  column_spacing: 3
  header_divider: —
title:
  bg: default
  fg: '#f30,bold,italics'
```

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`. The 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
```

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```
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 calender 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 user_warnings():
    """No warnings exist for this extension. Anything you want to warn the
    user about, such as security risks in processing untrusted markdown, should
    go here.
    """
    return []


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_paragraph_open*
- *render_paragraph_close*
- *render_inline*
- *render_ordered_list_open*
- *render_bullet_list_open*
- *render_list_open*
- *render_ordered_list_close*
- *render_bullet_list_close*
- *render_list_close*

- *render_list_item_open*
- *render_list_item_close*
- *render_heading_open*
- *render_heading_close*
- *render_blockquote_open*
- *render_blockquote_close*
- *render_fence*
- *render_code_block*
- *render_table_open*
- *render_hr*
- *render_text*
- *render_em_open*
- *render_em_close*
- *render_strong_open*
- *render_strong_close*
- *render_s_open*
- *render_s_close*
- *render_link_open*
- *render_link_close*
- *render_image*
- *render_image_close*
- *render_hardbreak*
- *render_softbreak*
- *render_code_inline*
- *render_html_inline*
- *render_html_tag_default_open*
- *render_html_tag_default_close*
- *render_html_tag_u_open*
- *render_html_tag_i_open*
- *render_html_tag_b_open*
- *render_html_tag_em_open*
- *render_html_tag_blink_open*
- *render_html_tag_br_open*
- *render_html_tag_div_open*
- *render_html_tag_div_close*
- *render_html_tag_ol_open*

- *render_html_tag_ol_close*
- *render_html_tag_ul_open*
- *render_html_tag_ul_close*
- *render_html_tag_li_open*
- *render_html_tag_li_close*
- *root_urwid_widget*

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.
2. 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 Builtin Extensions

`lookatme` comes with a few built-in extensions.

2.8.1 Builtin Extension Qualification

Builtin extensions must:

- Not require extra dependencies just for the extension
- Be generally useful in most cases

E.g., the qrcode extension has an extra dependency. This immediately disqualifies it from being a builtin extension.

2.8.2 Usage

Although builtin extensions are defined in the same way as external *Contrib Extensions*, builtin extensions do not need to be explicitly declared in the YAML header.

2.8.3 List of Builtin Extensions

Terminal Extension

The *lookatme.contrib.terminal* builtin extension allows terminals to be embedded within slides.

Basic Format

The terminal extension modifies the code block markdown rendering by intercepting code blocks whose language has the format `terminal\d+`. The number following the `terminal` string indicates how many rows the terminal should use when rendered (the height).

Usage

E.g.

```
```terminal8
bash -il
```
```

The content of the code block is the command to be run in the terminal. Clicking inside of the terminal gives the terminal focus, which will allow you to interact with it, type in it, etc.

To escape from the terminal, press `ctrl+a`.

Extended Format

The terminal extension also has a *terminal-ex* mode that can be used as the language in a code block. When *terminal-ex* is used, the contents of the code block must be YAML that conforms to the *TerminalExSchema* schema.

The default schema is shown below:

```
command: "the command to run"  # required
rows: 10                       # number of rows for the terminal (height)
init_text: null                # initial text to feed to the command. This is
                               #     useful to, e.g., pre-load text on a
                               #     bash prompt so that only "enter" must be
                               #     pressed. Uses the `expect` command.
init_wait: null                # the prompt (string) to wait for with `expect`
                               #     this is required if init_text is set.
init_codeblock: true           # show a codeblock with the init_text as its
                               # content
init_codeblock_lang: text      # the language of the init codeblock
```

Usage

E.g.

```
```terminal-ex
command: bash -il
rows: 20
init_text: echo hello
init_wait: '$> '
init_codeblock_lang: bash
```
```

File Loader Extension

The *lookatme.contrib.file_loader* builtin extension allows external files to be sourced into the code block, optionally being transformed and optionally restricting the range of lines to display.

Format

The file loader extension modifies the code block markdown rendering by intercepting code blocks whose language equals `file`. The contents of the code block must be YAML that conforms to the *FileSchema* schema.

The default schema is shown below:

```
path: path/to/the/file # required
relative: true         # relative to the slide source directory
lang: text             # pygments language to render in the code block
transform: null        # optional shell command to transform the file data
lines:
  start: 0
  end: null
```

Note: The line range is only applied **AFTER** transformations are performed on the file data.

Usage

E.g.

````
```file
path: ../source/main.c
lang: c
```
````

2.9 lookatme

2.9.1 lookatme package

Subpackages

lookatme.contrib package

Submodules

lookatme.contrib.file_loader module

This module defines a built-in contrib module that enables external files to be included within the slide. This is extremely useful when having source code displayed in a code block, and then running/doing something with the source data in a terminal on the same slide.

class lookatme.contrib.file_loader.**FileSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

class Meta

Bases: object

render_module

alias of *YamlRender*

load(**args*, ***kwargs*) → Dict[KT, VT]

Deserialize a data structure to an object defined by this Schema's fields.

Parameters

- **data** – The data to deserialize.
- **many** – Whether to deserialize *data* as a collection. If *None*, the value for *self.many* is used.
- **partial** – Whether to ignore missing fields and not require any fields declared. Propagates down to Nested fields as well. If its value is an iterable, only missing fields listed in that iterable will be ignored. Use dot delimiters to specify nested fields.
- **unknown** – Whether to exclude, include, or raise an error for unknown fields in the data. Use *EXCLUDE*, *INCLUDE* or *RAISE*. If *None*, the value for *self.unknown* is used.

Returns Deserialized data

New in version 1.0.0.

Changed in version 3.0.0b7: This method returns the deserialized data rather than a (data, errors) duple. A ValidationError is raised if invalid data are passed.

loads(**args*, ***kwargs*) → Dict[KT, VT]

Same as *load()*, except it takes a JSON string as input.

Parameters

- **json_data** – A JSON string of the data to deserialize.
- **many** – Whether to deserialize *obj* as a collection. If *None*, the value for *self.many* is used.
- **partial** – Whether to ignore missing fields and not require any fields declared. Propagates down to Nested fields as well. If its value is an iterable, only missing fields listed in that iterable will be ignored. Use dot delimiters to specify nested fields.
- **unknown** – Whether to exclude, include, or raise an error for unknown fields in the data. Use *EXCLUDE*, *INCLUDE* or *RAISE*. If *None*, the value for *self.unknown* is used.

Returns Deserialized data

New in version 1.0.0.

Changed in version 3.0.0b7: This method returns the deserialized data rather than a (data, errors) duple. A ValidationError is raised if invalid data are passed.

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.contrib.file_loader.**LineRange**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.contrib.file_loader.**YamlRender**

Bases: object

static dumps(*data*)

static loads(*data*)

lookatme.contrib.file_loader.**render_fence**(*token: Dict[KT, VT]*, *ctx: lookatme.render.context.Context*)

Render the code, ignoring all code blocks except ones with the language set to file.

lookatme.contrib.file_loader.**transform_data**(*transform_shell_cmd*, *input_data*)

Transform the input_data using the transform_shell_cmd shell command.

lookatme.contrib.file_loader.**user_warnings**()

Provide warnings to the user that loading this extension may cause shell commands specified in the markdown to be run.

lookatme.contrib.terminal module

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

class lookatme.contrib.terminal.**TerminalExSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

The schema used for terminal-ex code blocks.

class Meta

Bases: object

render_module

alias of *YamlRender*

load(**args*, ***kwargs*) → Dict[KT, VT]

Deserialize a data structure to an object defined by this Schema's fields.

Parameters

- **data** – The data to deserialize.

- **many** – Whether to deserialize *data* as a collection. If *None*, the value for *self.many* is used.
- **partial** – Whether to ignore missing fields and not require any fields declared. Propagates down to `Nested` fields as well. If its value is an iterable, only missing fields listed in that iterable will be ignored. Use dot delimiters to specify nested fields.
- **unknown** – Whether to exclude, include, or raise an error for unknown fields in the data. Use *EXCLUDE*, *INCLUDE* or *RAISE*. If *None*, the value for *self.unknown* is used.

Returns Deserialized data

New in version 1.0.0.

Changed in version 3.0.0b7: This method returns the deserialized data rather than a `(data, errors)` duple. A `ValidationError` is raised if invalid data are passed.

loads(**args*, ***kwargs*) → Dict[KT, VT]

Same as *load()*, except it takes a JSON string as input.

Parameters

- **json_data** – A JSON string of the data to deserialize.
- **many** – Whether to deserialize *obj* as a collection. If *None*, the value for *self.many* is used.
- **partial** – Whether to ignore missing fields and not require any fields declared. Propagates down to `Nested` fields as well. If its value is an iterable, only missing fields listed in that iterable will be ignored. Use dot delimiters to specify nested fields.
- **unknown** – Whether to exclude, include, or raise an error for unknown fields in the data. Use *EXCLUDE*, *INCLUDE* or *RAISE*. If *None*, the value for *self.unknown* is used.

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opts = <marshmallow.schema.SchemaOpts object>

class lookatme.contrib.terminal.**YamlRender**

Bases: `object`

static dumps(*data*)

static loads(*data*)

lookatme.contrib.terminal.**render_fence**(*token*, *ctx: lookatme.render.context.Context*)

lookatme.contrib.terminal.**shutdown**()

lookatme.contrib.terminal.**user_warnings**()

Provide warnings to the user that loading this extension may cause shell commands specified in the markdown to be run.

Module contents

This module handles loading and using lookatme_contrib modules

def loads(self, *args, **kwargs) -> Dict: res = super(self.__class__, self).loads(*args, **kwargs) if res is None:

raise ValueError("Could not loads")

return res

def load(self, *args, **kwargs) -> Dict: res = super(self.__class__, self).load(*args, **kwargs) if res is None:

raise ValueError("Could not load")

return res

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 ANSII 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*, *safe_contribs*, *ignore_load_failure=False*)

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`.

`safe_contribs` is a set of contrib names that are manually provided by the user by the `-e` flag or env variable of extensions to auto-load.

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

Call the shutdown function on all contrib modules

`lookatme.contrib.`**`validate_extension_mod`**(*_ext_name*, *ext_mod*)

Validate the extension, returns an array of warnings associated with the module

lookatme.output package

Submodules

lookatme.output.base module

Base module for lookatme output formats

class `lookatme.output.base.`**`BaseOutputFormat`**

Bases: `object`

`DEFAULT_OPTIONS = {}`

`NAME = None`

`REQUIRED_BINARIES = []`

`do_format_pres`(*pres: lookatme.pres.Presentation*, *output_path: str*)

Perform the action of outputting the presentation to this specific output format.

`format_pres`(*pres: lookatme.pres.Presentation, output_path: str, options: Dict[KT, VT]*)

Perform the action of outputting the presentation to this specific output format.

`opt`(*option_name: str*, *category: Optional[str] = None*)

Fetch the oiption named `option_name`. If the category isn't specified, the current formatter's options are used.

This function also ensures the defaults are used if the key doesn't already exist in the provided options dict.

render_template(*template_name: str, context: Dict[str, Any]*) → str

class lookatme.output.base.**BaseOutputFormatMeta**
Bases: type

exception lookatme.output.base.**MissingExtraDependencyError**
Bases: Exception

exception lookatme.output.base.**OutputOptionError**
Bases: ValueError

lookatme.output.gif module

lookatme.output.html module

Output an entire slide deck into an interactive html file

class lookatme.output.html.**HtmlSlideDeckOutputFormat**
Bases: *lookatme.output.base.BaseOutputFormat*

DEFAULT_OPTIONS = {'cols': 100, 'render_images': True, 'rows': 30, 'title_delim':

NAME = 'html'

do_format_pres(*pres: lookatme.pres.Presentation*, *output_path: str*)

lookatme.output.html_raw module

Output formatter for raw "screenshots" of lookatme as it would appear in a terminal

class lookatme.output.html_raw.**HtmlRawScreenshotOutputFormat**
Bases: *lookatme.output.base.BaseOutputFormat*

DEFAULT_OPTIONS = {'cols': 100, 'delay_default': 1000, 'delay_scroll': 100, 'keys':

NAME = 'html_raw'

do_format_pres(*pres: lookatme.pres.Presentation*, *output_path: str*)

draw_screen_callback(*info: Dict[str, Any], canvas: urwid.canvas.Canvas*)

class lookatme.output.html_raw.**KeypressEmulator**(*keys: List[str], pres, default_delay: int = 500*)
Bases: *lookatme.render.html.screenshot_screen.KeypressEmulatorBase*

get_default_delay() → int

get_next() → Optional[Tuple[int, int, List[str]]]

Module contents

lookatme output formats

lookatme.output.**get_all_formats**() → List[str]

lookatme.output.**get_all_options**() → List[str]

lookatme.output.**get_available_to_install_msg**() → str

lookatme.output.**get_format**(*format_name: str*) → Type[lookatme.output.base.BaseOutputFormat]

lookatme.output.**get_output_options_help**() → str

lookatme.output.**output_pres**(*pres: lookatme.pres.Presentation, path: str, format: str, options: Dict[str, Any]*)

lookatme.output.**parse_options**(*option_strings: List[str]*) → Dict[str, Any]

lookatme.render package

Subpackages

lookatme.render.html package

Submodules

lookatme.render.html.screenshot_screen module

Replaces an urwid.BaseScreen with one that renders the terminal into html files.

class lookatme.render.html.screenshot_screen.**HtmlScreenshotScreen**(*draw_screen_callback, keys: Optional[lookatme.render.html.screensl = None, cols: int = 150, rows: int = 100*)

Bases: urwid.display_common.BaseScreen

clear()

draw_screen(*size: Tuple[int, int], canvas: urwid.canvas.Canvas*)

get_cols_rows()

get_input(*raw_keys=False*)

reset_default_terminal_palette(**args*)

set_input_timeouts(**args*)

set_mouse_tracking(*enable=True*)

set_terminal_properties(**args, **kwargs*)

class lookatme.render.html.screenshot_screen.**KeypressEmulatorBase**

Bases: object

get_default_delay() → int

get_next() → Optional[Tuple[int, int, List[str]]]

Module contents

This module renders lookatme slides to HTML

class lookatme.render.html.**HtmlContext**

Bases: object

get_html()

get_html_consumed()

use_spec(*spec: Optional[urwid.display_common.AttrSpec]*, *render_images: bool = True*)

use_tag(*tag_name: str*, *classname: Optional[str] = None*, *id: Optional[str] = None*, *style: Optional[Dict[str, str]] = None*, ***other_attrs*)

write(*content: str*)

lookatme.render.html.**add_styles_to_context**(*context: Dict[KT, VT]*)

lookatme.render.html.**canvas_to_html**(*ctx: lookatme.render.html.HtmlContext*, *canvas: urwid.canvas.Canvas*, *only_keep: Optional[str] = None*, *render_images: bool = True*)

Submodules

lookatme.render.asciinema module

lookatme.render.context module

class lookatme.render.context.**ContainerInfo**(*container: 'urwid.Widget'*, *meta: 'Dict[str, Any]'*, *source_token: 'Optional[Dict]'*)

Bases: object

class lookatme.render.context.**Context**(*loop: Optional[urwid.main_loop.MainLoop]*)

Bases: object

clean_state_snapshot()

clean_state_validate()

Validate that all stacks are empty, that everything unwound correctly

clone() → lookatme.render.context.Context

Create a new limited clone of the current context.

The only data that is actually cloned is the source and spec stacks.

container

Return the current container

container_pop() → lookatme.render.context.ContainerInfo

Pop the last element off the stack. Returns the popped widget

container_push(*new_item: urwid.widget.Widget*, *is_new_block: bool*, *custom_add: Optional[urwid.widget.Widget] = None*)

Push to the stack and propagate metadata

ensure_new_block()

Ensure that we are in a new block

fake_token(*type: str*, ***kwargs*) → Dict[KT, VT]

get_inline_markup()

Return the current inline markup, ignoring any widgets that may have made it in

get_inline_widgets()

Return the results of any inline rendering that has occurred in Widget form. The conversion here is necessary since inline rendering functions often produce urwid Text Markup instead of widgets, which need to be converted to ClickableText.

inline_clear()
Clear the inline rendered results

inline_convert_all_to_widgets()

inline_flush()
Add all inline widgets to the current container

inline_markup_consumed
Return and clear the inline markup

inline_push(*inline_result: Union[urwid.widget.Widget, str, Tuple[Optional[urwid.display_common.AttrSpec], str]]*)
Push a new inline render result onto the stack. Either a widget, or text markup

inline_widgets_consumed
Return and clear the inline widgets

is_literal

level_inc()

log_debug(*msg*)

meta
Return metadata associated with the current container, or None if the current container is None.

source
Return the current markdown source

source_get_token_lines(*token: Dict[KT, VT], extra: int = 5, with_lines: bool = True, with_marker: bool = True*) → List[str]

source_pop() → str
Pop the latest source off of the source stack

source_push(*new_source: str*)
Push new markdown source onto the source stack

spec_general
Return the current fully resolved current AttrSpec

spec_peek() → urwid.display_common.AttrSpec
Return the most recent spec, or None

spec_pop()
Push a new AttrSpec onto the spec_stack

spec_push(*new_spec*, *text_only=False*)
Push a new AttrSpec onto the spec_stack

spec_text

spec_text_with(*other_spec: Union[None, urwid.display_common.AttrSpec]*) → urwid.display_common.AttrSpec

tag

tag_is_ancestor(*ancestor_tag_name: str*) → bool

tag_pop()
Pop the most recent tag off of the tag stack

tag_push(*new_tag: str, token: Dict[KT, VT], spec=None, text_only_spec=False*)
Push a new tag name onto the stack

tag_token

tokens
Return the current token iterator

tokens_pop()

tokens_push(*tokens: List[Dict[KT, VT]], inline: bool = False*)

unwind_bookmark

unwind_tokens
Generate a list of unwind (close) tokens from the token iterators in the stack

unwind_tokens_consumed
Generate a list of unwind (close) tokens from the token iterators in the stack

unwind_tokens_from(*bookmark: int*) → List[Dict[KT, VT]]

use_container(*new_container: urwid.widget.Widget, is_new_block: bool, custom_add: Optional[urwid.widget.Widget] = None*)
Ensure that the container is pushed/popped correctly

use_container_tmp(*new_container: urwid.widget.Widget*)
Swap out the entire container stack for a new one with the new container as the only item, while keeping spec and tag stacks

use_spec(*new_spec*, *text_only=False*)
Ensure that specs are pushed/popped correctly

use_tokens(*tokens*, *inline: bool = False*)
Create a context manager for pushing/popping tokens via a with block

widget_add(*w: Union[List[urwid.widget.Widget], urwid.widget.Widget], wrap: Optional[bool] = False*)
Add the provided widget to the current container.

wrap_widget(*w: urwid.widget.Widget*, *spec: Optional[urwid.display_common.AttrSpec] = None*) → urwid.widget.Widget
Wrap the provided widget with an AttrMap that will apply the current styling to the entire widget (using spec_general)

lookatme.render.markdown_block module

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

class lookatme.render.markdown_block.**FenceInfo**(*lang: str = 'text', line_numbers: bool = False, start_line_number: int = 1, hl_lines: List = <factory>, raw_attrs: Dict[str, str] = <factory>, raw_curly: str = ''*)
Bases: object

lang = 'text'

line_numbers = False

raw_curly = ''

start_line_number = 1

class lookatme.render.markdown_block.**TableTokenExtractor**
Bases: object

curr_parent

curr_siblings

is_table_element_close(*token: Dict[KT, VT]*) → bool

is_table_element_open(*token: Dict[KT, VT]*) → bool

process_token(*token: Dict[KT, VT]*)

process_tokens(*tokens: List[Dict[KT, VT]]*) → Tuple[Optional[Dict[KT, VT]], Optional[Dict[KT, VT]]]

set_token_alignment(*token: Dict[KT, VT]*)

lookatme.render.markdown_block.**parse_fence_info**(*info: str*) → lookatme.render.markdown_block.FenceInfo

lookatme.render.markdown_block.**render**(*token*, *ctx: lookatme.render.context.Context*)

Render a single token

lookatme.render.markdown_block.**render_all**(*ctx: lookatme.render.context.Context*, *and_unwind: bool = False*)

lookatme.render.markdown_block.**render_blockquote_close**(*token: Dict[KT, VT]*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_blockquote_open**(*token: Dict[KT, VT]*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_bullet_list_close**(*token*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_bullet_list_open**(*token*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_code_block**(*token: Dict[KT, VT]*, *ctx: lookatme.render.context.Context*)

Render a code_block - text that is indented four spaces.

lookatme.render.markdown_block.**render_fence**(*token: Dict[KT, VT]*, *ctx: lookatme.render.context.Context*)

Renders a code block using the Pygments library.

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

lookatme.render.markdown_block.**render_heading_close**(*token: Dict[KT, VT]*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_heading_open**(*token: Dict[KT, VT]*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_hr**(*token*, *ctx: lookatme.render.context.Context*)

Render a newline

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

lookatme.render.markdown_block.**render_inline**(*token*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_list_close**(*_*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_list_item_close**(*_*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_list_item_open**(*_*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_list_open**(*token*, *ctx: lookatme.render.context.Context*, *ordered: bool*)

lookatme.render.markdown_block.**render_ordered_list_close**(*token*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_ordered_list_open**(*token*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_paragraph_close**(*token*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_paragraph_open**(*token*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_block.**render_table_open**(*token: Dict[KT, VT]*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_html module

This module attempts to parse basic html

class lookatme.render.markdown_html.**Tag**(*tag_name: str*, *is_open: bool*, *attrs: Optional[Dict[str, str]] = None*, *style: Optional[Dict[str, str]] = None*)

Bases: object

classmethod parse(*text: str*) → List[lookatme.render.markdown_html.Tag]
Return a new Tag instance or None after parsing the text

classmethod parse_style(*style_contents*)
Parse the style contents

lookatme.render.markdown_inline module

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

lookatme.render.markdown_inline.**markdown_block**()

lookatme.render.markdown_inline.**render**(*token*, *ctx: lookatme.render.context.Context*)
Render an inline token[""] These tokens come from "children" tokens of a block token[""]

lookatme.render.markdown_inline.**render_all**(*ctx: lookatme.render.context.Context*, *and_unwind: bool = False*)

lookatme.render.markdown_inline.**render_code_inline**(*token*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_em_close**(*_*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_em_open**(*_*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_hardbreak**(*_*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_html_inline**(*token*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_html_tag_b_open**(*token: Dict[KT, VT], tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_blink_open**(*token: Dict[KT, VT], tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_br_open**(*token: Dict[KT, VT], tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_default_close**(*_, _tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, _style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_default_open**(*token: Dict[KT, VT], tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_div_close**(*_, tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_div_open**(*token: Dict[KT, VT], tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_em_open**(*token: Dict[KT, VT], tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_i_open**(*token: Dict[KT, VT], tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_li_close**(*token: Dict[KT, VT], tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_li_open**(*token: Dict[KT, VT], tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_ol_close**(*_, tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_ol_open**(*token: Dict[KT, VT], tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_u_open**(*token, tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_ul_close**(*_, tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_html_tag_ul_open**(*token: Dict[KT, VT], tag: lookatme.render.markdown_html.Tag, ctx: lookatme.render.context.Context, style_spec: Optional[urwid.display_common.AttrSpec]*)

lookatme.render.markdown_inline.**render_image**(*token, ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_image_close**(*token*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_link_close**(*_*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_link_open**(*token*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_s_close**(*_*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_s_open**(*_*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_softbreak**(*_*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_strong_close**(*_*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_strong_open**(*_*, *ctx: lookatme.render.context.Context*)

lookatme.render.markdown_inline.**render_text**(*token*, *ctx: lookatme.render.context.Context*)

lookatme.render.token_iterator module

This module defines the TokenIterator class.

class lookatme.render.token_iterator.**TokenIterator**(*tokens: List[Dict[KT, VT]]*, *unwind_tokens: List[Tuple[bool, Dict[KT, VT]]]*, *inline: bool = False*)

Bases: object

This clas

at_offset(*idx_offset: int*) → Optional[Dict[KT, VT]]

at_offset_v(*idx_offset: int*) → Dict[KT, VT]

curr

next() → Optional[Dict[KT, VT]]

peek() → Optional[Dict[KT, VT]]

unwind_has_type(*unwind_type: str*) → bool

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*) → Dict[str, Any]
Ensure that all required attributes exist within the provided module

lookatme.utils package

Submodules

lookatme.utils.colors module

Color-related utilities

lookatme.utils.colors.**ensure_contrast**(*spec: urwid.display_common.AttrSpec*)

lookatme.utils.colors.**get_highlight_color**(*bg_color: str*, *percent: float = 0.1*) → str

lookatme.utils.colors.**increase_brightness**(*color: str*, *percent: float*) → str

lookatme.utils.colors.**luminance**(*color: str*) → float

lookatme.utils.fs module

Utilities related to file systems

lookatme.utils.fs.**copy_tree_update**(*src: str*, *dst: str*)
Copy a directory from src to dst. For each directory within src, ensure that the directory exists, and then copy each individual file in. If other files exist in that same directory in dst, leave them alone.

Module contents

lookatme.utils.**can_style_item**(*item*)
Return true/false if `style_text` can work with the given item

lookatme.utils.**check_token_type**(*token: Optional[Dict[KT, VT]]*, *expected_type: str*)

lookatme.utils.**core_widget**(*w*) → urwid.widget.Widget
Resolve a wrapped widget to its core widget value

lookatme.utils.**debug_print_tokens**(*tokens*, *level=1*)
Print the tokens DFS

lookatme.utils.**dict_deep_update**(*to_update*, *new_vals*)
Deeply update the to_update dict with the new_vals

lookatme.utils.**extract_hexcolor**(*spec_style: str*) → str

lookatme.utils.**flatten_dict**(*tree_dict: Dict[KT, VT]*, *flat_dict: Dict[KT, VT]*, *prefixes: Optional[List[T]] = None*)

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** (SmartAttrSpec) – A new spec to merge with existing styles

Returns list of tuples

lookatme.utils.**get_fg_bg_styles**(*style*)

lookatme.utils.**get_meta**(*item*)

lookatme.utils.**int_to_roman**(*integer*)

lookatme.utils.**listbox_add**(*listbox*, *widgets*)

lookatme.utils.**non_empty_split**(*data*)

lookatme.utils.**overwrite_spec**(*orig_spec*, *new_spec*)

lookatme.utils.**overwrite_style**(*orig_style: Dict[str, str], new_style: Dict[str, str]*) → Dict[str, str]

lookatme.utils.**packed_widget_width**(*w: urwid.widget.Widget*) → int
Return the smallest size of the widget without wrapping

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

lookatme.utils.**pile_or_listbox_add**(*container*, *widgets*)
Add the widget/widgets to the container

lookatme.utils.**prefix_text**(*text: str*, *prefix: str*, *split: str = '\n'*) → str

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_stack**(*spec_stack: list*, *filter_fn=None*) → urwid.display_common.AttrSpec

lookatme.utils.**spec_from_style**(*styles*)
Create an SmartAttrSpec 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*)
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.widgets package

Submodules

lookatme.widgets.clickable_text module

This module contains code for ClickableText

class lookatme.widgets.clickable_text.**ClickableText**(*markup*, **args*, ***kwargs*)
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_target*, *orig_spec*, *link_type: str = 'link'*)
Bases: *lookatme.widgets.smart_attr_spec.SmartAttrSpec*

Used to track a link within an urwid.Text instance

new_for_spec(*new_spec*)
Create a new LinkIndicatorSpec with the same link information but new AttrSpec

lookatme.widgets.codeblock module

This module defines an urwid Widget that renders a codeblock

class lookatme.widgets.codeblock.**CodeBlock**(*source: str*, *lang: str = 'text'*, *style_name: str = 'monokai'*, *line_numbers: bool = False*, *start_line_number: int = 1*, *hl_lines: Optional[List[range]] = None*, *default_fg: Optional[str] = None*, *bg_override: Optional[str] = None*)
Bases: urwid.container.Pile

class lookatme.widgets.codeblock.**StyleCache**(*default_fg: Optional[str] = None*, *bg_override: Optional[str] = None*)
Bases: object

Caches the highlight styles for loaded pygments syntax highlighting styles.

get_style(*style_name: str*) → lookatme.widgets.codeblock.SyntaxHlStyle
Return the highlight style for the specified pygments style name. If the style name isn't found, the "text" style will be used instead.

is_valid_style(*style_name: str*) → bool
Return whether the style name is a valid pygments style

load_style(*style_name: str*) → lookatme.widgets.codeblock.SyntaxHlStyle

class lookatme.widgets.codeblock.**SyntaxHlStyle**(*name: str*, *styles: Dict[str, lookatme.widgets.smart_attr_spec.SmartAttrSpec]*, *pygments_style: pygments.style.StyleMeta*, *default_fg: str*, *bg_override: Optional[str] = None*)
Bases: object

Stores urwid styles for each token type for a specific pygments syntax highlighting style.

get_line_number_spec(*do_hl: bool = False*) → lookatme.widgets.smart_attr_spec.SmartAttrSpec

get_style_spec(*token_type: str*, *highlight: bool*) → lookatme.widgets.smart_attr_spec.SmartAttrSpec
Attempt to find the closest matching style for the provided token type.

lookatme.widgets.codeblock.**clear_cache**()

lookatme.widgets.codeblock.**get_lexer**(*lang*, *default='text'*) → pygments.lexer.Lexer

lookatme.widgets.codeblock.**get_style_cache**(*default_fg: Optional[str] = None*, *bg_override: Optional[str] = None*) → lookatme.widgets.codeblock.StyleCache

lookatme.widgets.codeblock.**guess_lang**(*content: str*) → str

lookatme.widgets.codeblock.**supported_langs**() → Set[str]

lookatme.widgets.codeblock.**supported_styles**() → Mapping[str, str]

lookatme.widgets.codeblock.**tokens_to_lines**(*tokens*) → List[List[Tuple[str, str]]]

lookatme.widgets.codeblock.**tokens_to_markup**(*line: List[Tuple[str, str]]*, *style: lookatme.widgets.codeblock.SyntaxHlStyle*, *do_hl: bool = False*) → List[Tuple[lookatme.widgets.smart_attr_spec.SmartAttrSpec, str]]

lookatme.widgets.fancy_box module

class lookatme.widgets.fancy_box.**FancyBox**(*w*, *tl_corner: str = ''*, *tr_corner: str = ''*, *bl_corner: str = '└'*, *br_corner: str = ''*, *tl_corner_spec: Optional[urwid.display_common.AttrSpec] = None*, *tr_corner_spec: Optional[urwid.display_common.AttrSpec] = None*, *bl_corner_spec: Optional[urwid.display_common.AttrSpec] = None*, *br_corner_spec: Optional[urwid.display_common.AttrSpec] = None*, *t_fill: str = '–'*, *b_fill: str = '–'*, *l_fill: str = '│'*, *r_fill: str = '│'*, *t_fill_spec: Optional[urwid.display_common.AttrSpec] = None*, *b_fill_spec: Optional[urwid.display_common.AttrSpec] = None*, *l_fill_spec: Optional[urwid.display_common.AttrSpec] = None*, *r_fill_spec: Optional[urwid.display_common.AttrSpec] = None*, *tight: bool = False*)

Bases: urwid.decoration.WidgetDecoration, urwid.widget.WidgetWrap

Test

b_fill = '–'

bl_corner = '│\n \n ——'

br_corner = '│\n \n ——'

l_fill = '│'

pack(*size*, *focus=False*)

See Widget.render() for parameter details.

Returns A "packed" size (*maxcol*, *maxrow*) for this widget

Calculate and return a minimum size where all content could still be displayed. Fixed widgets must implement this method and return their size when () is passed as the *size* parameter.

This default implementation returns the *size* passed, or the *maxcol* passed and the value of `rows()` as the *maxrow* when (*maxcol*,) is passed as the *size* parameter.

Note: This is a new method that hasn't been fully implemented across the standard widget types. In particular it has not yet been implemented for container widgets.

`Text` widgets have implemented this method. You can use `Text.pack()` to calculate the minimum columns and rows required to display a text widget without wrapping, or call it iteratively to calculate the minimum number of columns required to display the text wrapped into a target number of rows.

r_fill = '│'

set(*tl_corner: Optional[str] = None*, *tr_corner: Optional[str] = None*, *bl_corner: Optional[str] = None*, *br_corner: Optional[str] = None*, *tl_corner_spec: Optional[urwid.display_common.AttrSpec] = None*, *tr_corner_spec: Optional[urwid.display_common.AttrSpec] = None*, *bl_corner_spec: Optional[urwid.display_common.AttrSpec] = None*, *br_corner_spec: Optional[urwid.display_common.AttrSpec] = None*, *t_fill: Optional[str] = None*, *b_fill: Optional[str] = None*, *l_fill: Optional[str] = None*, *r_fill: Optional[str] = None*)

t_fill = '─'

tl_corner = '──\n \n │'

tr_corner = '──\n \n │'

lookatme.widgets.line_fill module

class lookatme.widgets.line_fill.**LineFill**(*beg_chars: str*, *fill_char: str*, *end_chars: str*, *beg_spec: Optional[urwid.display_common.AttrSpec] = None*, *fill_spec: Optional[urwid.display_common.AttrSpec] = None*, *end_spec: Optional[urwid.display_common.AttrSpec] = None*, *orientation: str = 'vertical'*)

Bases: `urwid.widget.Widget`

Test

HORIZONTAL = 'horizontal'

VERTICAL = 'vertical'

pack(*size: Tuple*, *focus: bool = False*)

See `Widget.render()` for parameter details.

Returns A "packed" size (*maxcol*, *maxrow*) for this widget

Calculate and return a minimum size where all content could still be displayed. Fixed widgets must implement this method and return their size when `()` is passed as the *size* parameter.

This default implementation returns the *size* passed, or the *maxcol* passed and the value of *rows()* as the *maxrow* when (*maxcol*,) is passed as the *size* parameter.

Note: This is a new method that hasn't been fully implemented across the standard widget types. In particular it has not yet been implemented for container widgets.

`Text` widgets have implemented this method. You can use `Text.pack()` to calculate the minimum columns and rows required to display a text widget without wrapping, or call it iteratively to calculate the minimum number of columns required to display the text wrapped into a target number of rows.

render(*size*, *focus=False*)

rows(*size*, *focus=False*)

lookatme.widgets.scroll_monitor module

class lookatme.widgets.scroll_monitor.**ScrollMonitor**(*main_widget: urwid.widget.Widget*, *scrollbar: lookatme.widgets.scrollbar.Scrollbar*)

Bases: `urwid.container.Frame`

render(*size*, *focus=False*)

lookatme.widgets.scrollbar module

class lookatme.widgets.scrollbar.**Scrollbar**(*listbox: urwid.listbox.ListBox*)

Bases: `urwid.widget.Widget`

A scrollbar that reflects the current scroll state of a list box. Non-selectable, non-interactive, informative only. Especially useful as an overlay or a box column so that you can have additional padding around your ListBox.

render(*size*, *focus=False*)

Please use *needs_scrollbar()* if manually deciding to render the Scrollbar (e.g. if you're overlaying the rendered results onto a canvas)

should_display(*size*, *focus: bool = False*)

update_scroll_percent(*size: Tuple[int, int], focus: bool = False*) → Tuple[int, int, int, int]

Update the scroll percent of the monitored ListBox

lookatme.widgets.smart_attr_spec module

class lookatme.widgets.smart_attr_spec.**SmartAttrSpec**(*fg*, *bg*)

Bases: `urwid.display_common.AttrSpec`

preserve_spaces = False

lookatme.widgets.table module

Defines a basic Table widget for urwid

class lookatme.widgets.table.**SortSetting**

Bases: `object`

ASCENDING = 1

DEFAULT = 0

DESCENDING = 2

get_casting(*data: List[bytes]*) → Callable

get_header_idx() → int

set_header_idx(*idx*)

set_indicator(*idx*, *text: str*)

sort_data(*contents: List[Tuple[int, bytes]]*) → List[int]
Sort the provided data based on the bytes values in the tuples

class lookatme.widgets.table.**Table**(*ctx: lookatme.render.context.Context, header: Dict[KT, VT], body: Optional[Dict[KT, VT]]*)
Bases: urwid.container.Pile

calc_column_maxes()

create_cells(*rows*, *base_spec=None*, *header=False*) → List[List[urwid.container.Pile]]
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.

gen_cells(*row: List[urwid.container.Pile], row_specs: Tuple[urwid.display_common.AttrSpec, urwid.display_common.AttrSpec]*) → List[Tuple[int, urwid.container.Pile]]

gen_contents()
Calculate and set the column maxes for this table

get_table_rows()
Get the current rows in this table. This is where sorting should happen!

normalize_body()
Normalize the cells in the body - truncate all cells that go beyond the number of headers, and add blank cells if we're missing any

on_header_click(*w: urwid.widget.Widget*)

row_specs(*row_idx: int, is_header: bool*) → Tuple[urwid.display_common.AttrSpec, urwid.display_common.AttrSpec]
Return the row-specific specs (text and general) for the given row

signals = ['change']

validate_row(*row: Dict[KT, VT]*)
Validate that the provided row is a tr_open, with th_open or td_open children.

validate_row_container(*container: Dict[KT, VT]*)
Validate that the list of rows is valid. See validate_row for more details.

watch_header(*idx: int*, *w: urwid.widget.Widget*)
Watch the provided widget w for changes

Module contents

Submodules

lookatme.ascii_art module

Misc ASCII art

lookatme.config module

Config module for lookatme

lookatme.config.**get_log**() → logging.Logger

lookatme.config.**get_style**() → Dict[KT, VT]

lookatme.config.**get_style_with_precedence**(*theme_mod: module, direct_overrides: Dict[KT, VT]*) → Dict[str, Any]
Return the resulting style dict from the provided override values.

lookatme.config.**set_global_style_with_precedence**(*theme_mod*, *direct_overrides*) → Dict[str, Any]
Set the lookatme.config.STYLE value based on the provided override values

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: Optional[str] = None*)
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**(*single_slide=False*)
Bases: object

A parser for markdown presentation files

parse(*input_data*) → Tuple[Dict[KT, VT], List[lookatme.slide.Slide], str]
Parse the provided input data into a Presentation object

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

parse_meta(*input_data*) → Tuple[AnyStr, Dict[KT, VT]]
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*) → List[lookatme.slide.Slide]
Parse the Slide out of the input data

Parameters

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

Returns List[Slide]

class lookatme.parser.**SlideIsolator**
Bases: object

create_slides(*tokens*, *number*) → List[lookatme.slide.Slide]

lookatme.parser.**is_heading**(*token*)

lookatme.parser.**is_hrule**(*token*)

lookatme.parser.**md_to_tokens**(*md_text*)

lookatme.pres module

Defines Presentation specific objects

class lookatme.pres.**Presentation**(*input_stream: Optional[IO] = None*, *input_str: Optional[str] = None*, *theme: str = 'dark'*, *live_reload=False*, *single_slide=False*, *preload_extensions=None*, *safe=False*, *no_ext_warn=False*, *ignore_ext_failure=False*, *no_threads=False*)
Bases: object

Defines a presentation

get_slide_scroll_lines(*width: int*, *height: int*) → int
Return the number of lines that need to be scrolled for each slide

get_tui() → lookatme.tui.MarkdownTui

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!

tui_init_sync()

warn_exts(*exts*)
Warn about source-provided extensions that are to-be-loaded

lookatme.prompt module

Basic user-prompting helper functions

lookatme.prompt.**yes**(*msg*)
Prompt the user for a yes/no answer. Returns bool

lookatme.schemas module

Defines all schemas used in lookatme

class lookatme.schemas.**BlockQuoteSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**BorderBoxSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**BulletsSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

class Meta

Bases: object

include = {'1': <fields.Nested(dump_default={'text': '•', 'bg': '', 'fg': 'bol

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**CodeSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**HeadingStyleSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**HeadingsSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

class Meta

Bases: object

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

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**HruleSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: *lookatme.schemas.TextStyleFieldSchema*

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**MetaSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

The schema for presentation metadata

class Meta

Bases: object

render_module

alias of *YamlRender*

unknown = 'include'

dump(**args*, ***kwargs*) → Dict[KT, VT]

Serialize an object to native Python data types according to this Schema's fields.

Parameters

- **obj** – The object to serialize.
- **many** – Whether to serialize *obj* as a collection. If *None*, the value for *self.many* is used.

Returns Serialized data

New in version 1.0.0.

Changed in version 3.0.0b7: This method returns the serialized data rather than a `(data, errors)` duple. A `ValidationError` is raised if `obj` is invalid.

Changed in version 3.0.0rc9: Validation no longer occurs upon serialization.

load(**args*, ***kwargs*) → Dict[KT, VT]

Deserialize a data structure to an object defined by this Schema's fields.

Parameters

- **data** – The data to deserialize.
- **many** – Whether to deserialize *data* as a collection. If *None*, the value for *self.many* is used.
- **partial** – Whether to ignore missing fields and not require any fields declared. Propagates down to `Nested` fields as well. If its value is an iterable, only missing fields listed in that iterable will be ignored. Use dot delimiters to specify nested fields.
- **unknown** – Whether to exclude, include, or raise an error for unknown fields in the data. Use *EXCLUDE*, *INCLUDE* or *RAISE*. If *None*, the value for *self.unknown* is used.

Returns Deserialized data

New in version 1.0.0.

Changed in version 3.0.0b7: This method returns the deserialized data rather than a `(data, errors)` duple. A `ValidationError` is raised if invalid data are passed.

load_partial_styles(**args*, ***kwargs*)

loads(**args*, ***kwargs*) → Dict[KT, VT]

Same as *load()*, except it takes a JSON string as input.

Parameters

- **json_data** – A JSON string of the data to deserialize.
- **many** – Whether to deserialize *obj* as a collection. If *None*, the value for *self.many* is used.
- **partial** – Whether to ignore missing fields and not require any fields declared. Propagates down to `Nested` fields as well. If its value is an iterable, only missing fields listed in that iterable will be ignored. Use dot delimiters to specify nested fields.
- **unknown** – Whether to exclude, include, or raise an error for unknown fields in the data. Use *EXCLUDE*, *INCLUDE* or *RAISE*. If *None*, the value for *self.unknown* is used.

Returns Deserialized data

New in version 1.0.0.

Changed in version 3.0.0b7: This method returns the deserialized data rather than a `(data, errors)` duple. A `ValidationError` is raised if invalid data are passed.

loads_partial_styles(**args*, ***kwargs*) → Dict[KT, VT]

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.**NumberingSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

class Meta

Bases: object

include = {'1': <fields.Nested(dump_default={'text': 'numeric', 'bg': '', 'fg':

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**ScrollbarGutterSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

Schema for the slider on the scrollbar

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**ScrollbarSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

Schema for the scroll bar

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**ScrollbarSliderSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

Schema for the slider on the scrollbar

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**SpacingSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**StyleFieldSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**StyleSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

Styles schema for themes and style overrides within presentations

class Meta

Bases: object

render_module

alias of *YamlRender*

unknown = 'raise'

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**TableSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**TextStyleFieldSchema**(*, *only: types.StrSequenceOrSet | None = None*, *exclude: types.StrSequenceOrSet = ()*, *many: bool = False*, *context: dict | None = None*, *load_only: types.StrSequenceOrSet = ()*, *dump_only: types.StrSequenceOrSet = ()*, *partial: bool | types.StrSequenceOrSet = False*, *unknown: str | None = None*)

Bases: marshmallow.schema.Schema

opts = <marshmallow.schema.SchemaOpts object>

class lookatme.schemas.**YamlRender**
Bases: object

static dumps(*data*)

static loads(*data*)

lookatme.slide module

Slide info holder

class lookatme.slide.**Slide**(*tokens*, *number=0*)
Bases: object

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

get_title(*ctx: lookatme.render.context.Context*) → Tuple[str, Optional[urwid.canvas.Canvas]]

lookatme.templating module

This module provides basic templating functionality

lookatme.templating.**comma_append**(*val*, *new_val*)

lookatme.templating.**css_filter**(*value: str*) → str

lookatme.templating.**get_filters**() → Dict[KT, VT]

lookatme.templating.**get_template_data**(*template_path: str*) → str
Return the template data or raise an error.

lookatme.templating.**highlight_filter**(*value: str*) → str

lookatme.templating.**json_filter**(*value*) → str

lookatme.templating.**render**(*template_name: str, context: Dict[str, str]*) → str
Render the indicated template name using the provided context to resolve variables. An error will be thrown if variables are not resolved.

lookatme.tui module

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

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

get_num_slide_body_lines(*size: Tuple[int, int]*) → int

init_ctx()

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

render_without_scrollbar(*width: int*) → Tuple
Return a tuple of three canvases: (header, body, footer)

run()

set_slide_idx(*slide_idx: int*) → lookatme.slide.Slide

update()

update_body()
Render the provided slide body

update_creation()
Update the author and date

update_slide_num()
Update the slide number

update_slide_settings()
Update the slide margins and paddings

update_title()
Update the title

class lookatme.tui.**SlideRenderer**(*ctx: lookatme.render.context.Context*)
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()
Clear everything out of the queue and the cache.

queue_render(*slide*)
Queue up a slide to be rendered.

render_slide(*slide*)
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*, *no_threads=False*)
Run the provided presentation

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

lookatme.tui.**root_urwid_widget**(*to_wrap*)
This function is overridable by contrib extensions that need to specify the root urwid widget.

The return value *must* return either the `to_wrap` widget itself, or another widget that wraps the provided `to_wrap` widget.

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

lookatme.tutorial module

Functions and sources for the markdown tutorial slides!

class lookatme.tutorial.**Tutor**(*name: str*, *group: str*, *slides_md: str*, *impl_fn: Callable*, *order: float*, *lazy_formatting: Optional[Callable] = None*)
Bases: object

A class to handle/process tutorials for specific functionality

In addition to name, group, and slides content of the tutor, each Tutor must also be associated with the implementation.

get_md(*rendered_example=True*) → str
Get the tutor's markdown text after resolving any special markup contained in it.

lookatme.tutorial.**get_tutorial_help**() → str

lookatme.tutorial.**get_tutorial_md**(*groups_or_tutors: List[str]*) → Union[None, str]

lookatme.tutorial.**get_tutors**(*group_or_tutor: str*) → List[lookatme.tutorial.Tutor]

lookatme.tutorial.**pretty_close_match**(*str1*, *str2*)

lookatme.tutorial.**print_tutorial_help**()

lookatme.tutorial.**tutor**(*group: str*, *name: str*, *slides_md: str*, *order: float = 99999.0*, *lazy_formatting: Optional[Callable] = None*)
Define tutorial slides by using this as a decorator on a function!

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