
Hieroglyph Documentation

Release 0.5

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CONTENTS

Hieroglyph is an extension for [Sphinx](#) which builds HTML slides from [ReStructured Text](#) documents. This document provides a basic overview of Hieroglyph; dive deeper with the following documents:

HIEROGLYPH CONFIGURATION

1.1 Basic Configuration

`autoslides`

If `True`, generate slides from the document sections. If `False`, only generate slides from the `slide` directive. Default: `True`

See *The slide directive* for more information.

`slide_theme`

The theme to use when generating slides. Default: `slides`

`slide_levels`

Number of heading levels to convert to slides; note that the document title is level 1. Heading levels greater than slide levels will simply be treated as slide content.

Default: `3`

1.2 Slide Numbers

`slide_numbers`

If set to `True`, slide numbering will be added. Default: `False`

1.3 Themes

`slide_theme_options`

Theme specific options as a `dict`; default: `{}`

See *Custom CSS* for more information.

`slide_theme_path`

The path to look for themes in; default: `[]`.

For more information on styling and themes, see *Styling Slides*.

1.4 Interlinking HTML Output

Interlinking HTML Output can be enabled for slides, HTML, or both.

`slide_link_to_html`

Link from slides to HTML; default: `False`.

`slide_link_html_to_slides`

Link from HTML to slides; default: `False`

`slide_link_html_sections_to_slides`

Link individual HTML sections to specific slides; default: `False`

Note that `slide_link_html_to_slides` must be enabled for this to have any effect.

1.4.1 Relative Paths

The slide/HTML interlinking needs to know how to find the slide and HTML output from the other side. There are two configuration parameters for this. They're configured to work with Sphinx and Hieroglyph's standard configuration (output in sub-directories of a common build directory) by default .

`slide_relative_path`

Relative path from HTML to slides; default: `../slides/`

`slide_html_relative_path`

Relative path from slides to HTML; default: `../html/`

1.4.2 Additional Parameters

`slide_html_slide_link_symbol`

Text used to link between HTML sections and slides.

This text is appended to the headings, similar to the section links in HTML output.

Default: `§`

STYLING SLIDES

2.1 Styling

- Slides are contained in `<article>` elements
- Each slide has an HTML `id` that corresponds to the permalink ID generated by Sphinx (for example, you're currently reading `styling`).
- The heading level is added as a class; ie, `level-2`
- Slides may be styled using a theme, or custom CSS.

2.2 Included Themes

Hieroglyph includes two *themes*.

`slides`

Two slides levels: the first level of headers become “section” headers, and the second become the real content.

`single-level`

Only one style of slide, every slide has a title at the top.

2.3 Setting the Theme

You can set your theme using the `slide_theme` configuration setting.

```
slide_theme = 'single-level'
```

If you're using a custom theme, you can also set the directory to look in for themes:

```
slide_theme_path = '...'
```

2.4 Custom CSS

The standard Hieroglyph themes support adding a custom stylesheet with the `slide_theme_options` dict in `conf.py`:

```
slide_theme_options = {'custom_css': 'custom.css'}
```

The custom CSS file should be located in the `html_static_path` (`_static` by default).

ADVANCED USAGE

3.1 The `slide` directive

Instead of (or in addition to) section headings, Hieroglyph also includes a directive that may be used to indicate a Slide should be created. The directive may have a title specified, as well as a level parameter.

For example:

```
.. slide:: The Slide Title
   :level: 2
```

This Slide would appear as a level two slide.

3.2 Interlinking HTML Output

Hieroglyph supports linking between slides and HTML output, such as from the Sphinx HTML builders. In order to do this successfully, the slide and HTML builders used must correspond to one another. That is, the `SlideBuilder` must be used with the `StandaloneHTMLBuilder`, and the `DirectorySlideBuilder` must be used with the `DirectoryHTMLBuilder`.

For example, running:

```
$ make html slides
```

Will generate HTML and slides if interlinking is enabled. See *Interlinking HTML Output* for information on enabling interlinking in the configuration.

3.3 Custom Themes

Hieroglyph themes are based on Sphinx's HTML *themes*. Themes are either a directory or zipfile, which contains a `theme.conf` file, templates you wish to override, and a `static/` directory which contains images, CSS, etc.

When defining a slide theme, inherit from the `slides` theme for basic support. For example, the `single-level` theme has the following `theme.conf`:

```
[theme]
inherit = slides
stylesheet = single.css
```

```
[options]
custom_css =
```

In order to include the base slide styling, your theme's stylesheet should begin with:

```
@import url(slides.css);
```

`slides.css` will be supplied by the base theme (`slides`).

See the Sphinx documentation for [themes](#) for more information.

3.4 Per-File Configuration

When working with multi-file projects, there may be cases when it is desirable to override the theme or set configuration value for specific files. This can be accomplished using the `slideconf` directive:

```
.. slideconf::
   :theme: single-level
```

Values specified in a `slideconf` directive override defaults specified in `conf.py`. If more than one `slideconf` appears in a document, only the last one is used.

HIEROGLYPH BUILDERS

In Sphinx parlance, a “builder” is an output target. Sphinx includes several of its own, including ones for HTML pages, ePub documents, and PDF. Hieroglyph adds two types of additional builders: slides and inline slides. Each supports building HTML documents or `index.html` documents in directories (useful if you prefer URLs without “.html” in them).

4.1 Slide Builder

The slide builders, `slides`, and `dirslides`, create slide show documents for each of the source files.

You may add one (or both) of the following targets to your `Makefile` to enabled one of these targets:

```
slides:
    $(SPHINXBUILD) -b slides $(ALLSPHINXOPTS) $(BUILDDIR)/slides
    @echo "Build finished. The HTML slides are in $(BUILDDIR)/slides."

dirslides:
    $(SPHINXBUILD) -b dirslides $(ALLSPHINXOPTS) $(BUILDDIR)/slides
    @echo "Build finished. The HTML slides are in $(BUILDDIR)/slides."
```

The output of these builders includes support for the slide table and presenter’s console. If `autoslides` is enabled, sections in the source files will be transformed into slides. If `autoslides` is not enabled, only content found in `slide` directives will be in the output.

See *The slide directive* for more information.

4.2 Inline Slide Builder

The inline slide builders add support for the `slide` directive to the stock HTML builders, and add an additional stylesheet to the output for basic inline display.

You may add one (or both) of the following targets to your `Makefile` to enabled one of these targets:

```
inlineslides:
    $(SPHINXBUILD) -b inlineslides $(ALLSPHINXOPTS) $(BUILDDIR)/slides
    @echo "Build finished. The HTML output is in $(BUILDDIR)/slides."

dirinlineslides:
    $(SPHINXBUILD) -b dirinlineslides $(ALLSPHINXOPTS) $(BUILDDIR)/slides
    @echo "Build finished. The HTML output is in $(BUILDDIR)/slides."
```

When using one of the inline builders, `autoslides` functionality is disabled.

REFERENCES & INDICES

- *genindex*
- *modindex*
- *search*

WHY?

- You're already writing documentation using Sphinx
- You want to keep your presentation content in sync with other documentation
- You want slides that look beautiful
- Why Not?

USING HIEROGLYPH

Install from [PyPI](#) (or [github](#)):

```
pip install hieroglyph
```

Add **Hieroglyph** as a Sphinx extension to your configuration:

```
extensions = [  
    'hieroglyph',  
]
```

Build your slides:

```
$ sphinx-build -b slides output/slides
```

7.1 Adding Hieroglyph to your Makefile

You may optionally want to add the following to your Makefile:

```
slides:  
    $(SPHINXBUILD) -b slides $(ALLSPHINXOPTS) $(BUILDDIR)/slides  
    @echo "Build finished. The HTML slides are in $(BUILDDIR)/slides."
```

The directory builder is analogous to Sphinx's [HTML Directory builder](#). Each document is placed in its own directory as `index.html`, which allows you to omit the file from the URL.

You can add this to the Makefile with the following:

```
dirslides:  
    $(SPHINXBUILD) -b dirslides $(ALLSPHINXOPTS) $(BUILDDIR)/slides  
    @echo "Build finished. The HTML slides are in $(BUILDDIR)/slides."
```

(Don't forget, Makefiles love tabs!)

You can also include your slides inline with HTML. See [Hieroglyph Builders](#) for details.

WRITING YOUR DOCUMENT

- First and second level headings become slides
- Default theme styles these differently for topic breaks
- Otherwise it's just ReStructured Text!

8.1 Incremental Slides

- Adding the `build` class to a container
- To incrementally show its contents
- Remember that *Sphinx* maps the basic `class` directive to `rst-class`

8.2 Slide-Only (and non-slide) Content

Two directives let you restrict whether content is included:

```
.. ifslides::
```

```
.. ifnotslides::
```

Note: These directives were originally named `slides` and `notslides`, respectively. They were renamed prior to the addition of the `slide` directive, to be more explicit.

The old names work, but will show a warning during the build process. Expect the old names to be removed in some future version.

STYLING SLIDES

- Slides are just HTML, so you can write CSS to style them, either individually or as a whole
- You can add a custom CSS file to most themes by adding a `custom_css` theme options:

```
slide_theme_options = {'custom_css': 'custom.css'}
```
- Custom CSS files are contained in your documentation's static files directory (usually `_static`)

9.1 Themes

Hieroglyph includes two themes:

`slides`

Two slides levels: the first level of headers become “section” headers, and the second become the real content.

`single-level`

Only one style of slide, every slide has a title at the top.

See *Styling Slides* for more information on using themes and writing your own.

SETTINGS

Hieroglyph has some configuration dials you can turn to customize the output. In addition to the theme, you can configure:

- The number of heading levels which become slides
- Linking between slides and HTML documentation

See *Hieroglyph Configuration* for more information.

PRESENTER CONSOLE

Hieroglyph includes a simple presenter console to make it easier to use when presenting slides.

To activate the console, press “c” when viewing the slides.

The console will open in a new window. Advancing the slides in either window will update the other one, as well.

LICENSE

Hieroglyph is made available under a BSD license; see LICENSE for details.

Included slide CSS and JavaScript originally based on [HTML 5 Slides](#) licensed under the Apache Public License.

MORE INFORMATION

- [Sphinx](#)
- [Docutils](#)
- [rst2s5](#)
- [HTML 5 Slides](#)