sbt-rtfd-markdown-test

Release 0.0.1a

Test

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These are some RST examples, using the Read The Docs template. This content is here just so I can do some noodling around with sbt, sphinx, github, and Read The Docs.



Fig. 1: On the internet, no one knows you're a dog.

Attention: This is version number comes from the /src/sphinx/config.py file: 0.0.1a

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2 Contents

1 Misc rst Markup Examples

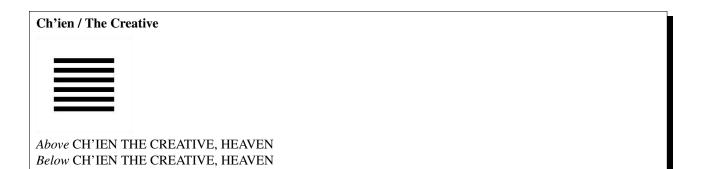
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1.1 1.1 Giant tables

| Header |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| body | col- | col- |
| row 1 | umn | umn |
| | 2 | 3 | | 2 | 3 | | 2 | 3 | | 2 | 3 |
| body | col- | col- |
| row 1 | umn | umn |
| | 2 | 3 | | 2 | 3 | | 2 | 3 | | 2 | 3 |
| body | col- | col- |
| row 1 | umn | umn |
| | 2 | 3 | | 2 | 3 | | 2 | 3 | | 2 | 3 |
| body | col- | col- |
| row 1 | umn | umn |
| | 2 | 3 | | 2 | 3 | | 2 | 3 | | 2 | 3 |

1.2 1.2 Sidebar



The first hexagram is made up of six unbroken lines. These unbroken lines stand for the primal power, which is light-giving, active, strong, and of the spirit. The hexagram is consistently strong in character, and since it is without weakness, its essence is power or energy. Its image is heaven. Its energy is represented as unrestricted by any fixed conditions in space and is therefore conceived of as motion. Time is regarded as the basis of this motion. Thus the hexagram includes also the power of time and the power of persisting in time, that is, duration.

The power represented by the hexagram is to be interpreted in a dual sense in terms of its action on the universe and of its action on the world of men. In relation to the universe, the hexagram expresses the strong, creative action of the Deity. In relation to the human world, it denotes the creative action of the holy man or sage, of the ruler or leader of men, who through his power awakens and develops their higher nature.

1.3 1.3 Boxes

Tip: Tip: Enable math extensions if you want equations to show up.

Note: This is a note about math equations.

Danger: Danger! Math can be addictive.

Warning: Warning: Math can be frustrating.

1.4 1.4 Table: Every other row

The default Read The Docs rst template formats every other line in a table with white text on a white background:

Example
Thing1
Thing2
Thing3

1.5 1.5 Citation

Here I am making a citation ¹, another ² and another ³

1.5.1 1.5.1 Images



Fig. 1.1: This is a caption for a figure.

A figure is an image with a caption and/or a legend:

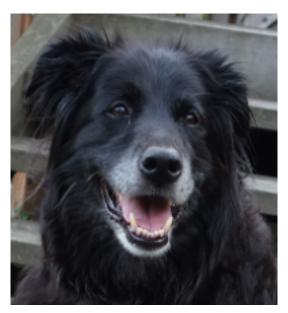


Fig. 1.2: Cats on the internet are fine. But dogs on the internet are fanTAStic!

1.6 1.6 Download links

1.7 1.7 Substitution

See substitutions in the official RST reference

1.5. 1.5 Citation 5

¹ This is the citation I made, let's make this extremely long so that we can tell that it doesn't follow the normal responsive table stuff.

² This citation has some code blocks in it, maybe some **bold** and *italics* too. Heck, lets put a link to a meta citation ³ too.

Original code for this page is from https://github.com/snide/sphinx_rtd_theme/blob/master/demo_docs/source/demo.n	'S

1 rst Structural Element Examples

Here's the quick reference for RST.

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2.1 1.1 Transitions

Here's a transition line:

It divides the section.

2.2 1.2 Inline Markup

Paragraphs contain text and may contain inline markup: *emphasis*, **strong emphasis**, inline literals, standalone hyperlinks (http://www.python.org), external hyperlinks (Python), internal cross-references (*example*), external hyperlinks with embedded URIs (Python web site), footnote references (manually numbered ¹, anonymous autonumbered ³, labeled auto-numbered ², or symbolic *⁰), citation references (*[CIT2002]*), and inline hyperlink targets (see *Targets* below for a reference back to here). Character-level inline markup is also possible (although exceedingly ugly!) in *re*Structured*Text*.

The default role for interpreted text is *Title Reference*. Here are some explicit interpreted text roles: a PEP reference (PEP 287); an RFC reference (RFC 2822); a subscript; a superscript; and explicit roles for *standard* inline markup.

Let's test wrapping and whitespace significance in inline literals: This is an example of --inline-literal --text, --including some-- strangely--hyphenated-words. Adjust-the-width-of-your-browser-window to see how the text is wrapped. -- ----- Now note the spacing between the words of this sentence (words should be grouped in pairs).

If the --pep-references option was supplied, there should be a live link to PEP 258 here.

2.3 1.3 Body Elements

2.3.1 1.3.1 Section Title

That's a section title: the text just above this line.

2.3.2 1.3.2 Paragraphs

A paragraph.

2.3.3 1.3.3 Bullet Lists

- A bullet list
 - Nested bullet list.
 - Nested item 2.
- Item 2.

Paragraph 2 of item 2.

- Nested bullet list.
- Nested item 2.

¹ A footnote contains body elements, consistently indented by at least 3 spaces.

This is the footnote's second paragraph.

³ This footnote is numbered automatically and anonymously using a label of "#" only.

² Footnotes may be numbered, either manually (as in ¹) or automatically using a "#"-prefixed label. This footnote has a label so it can be referred to from multiple places, both as a footnote reference (²) and as a hyperlink reference (*label*).

 $^{^{0}}$ Footnotes may also use symbols, specified with a "*" label. Here's a reference to the next footnote: \dagger^{0} .

- * Third level.
- * Item 2.
- Nested item 3.

2.3.4 1.3.4 Enumerated Lists

- 1. Arabic numerals.
 - (a) lower alpha)
 - i. (lower roman)
 - A. upper alpha.
 - B. upper roman)
- 2. Lists that don't start at 1:
 - (a) Three
 - (b) Four
 - (a) C
 - (b) D
 - (a) iii
 - (b) iv
- 3. List items may also be auto-enumerated.

2.3.5 1.3.5 Definition Lists

Term Definition

Term [classifier] Definition paragraph 1.

Definition paragraph 2.

Term Definition

2.4 1.4 Formatting

Double-dashes – "-" – must be escaped somehow in HTML output.

2.4.1 1.4.1 Field Lists

what Field lists map field names to field bodies, like database records. They are often part of an extension syntax. They are an unambiguous variant of RFC 2822 fields.

how arg1 arg2 The field marker is a colon, the field name, and a colon.

The field body may contain one or more body elements, indented relative to the field marker.

Here's an example of a field list:

Field List

2.4. 1.4 Formatting

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

some text

Field List 2 Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor

2.4.2 1.4.2 Option Lists

For listing command-line options:

-a command-line option "a"

-b file options can have arguments and long descriptions

--long options can be long also

--input=file long options can also have arguments

--very-long-option The description can also start on the next line.

The description may contain multiple body elements, regardless of where it starts.

-x, -y, -z Multiple options are an "option group".
 -v, --verbose Commonly-seen: short & long options.

-1 file, --one=file, --two file Multiple options with arguments.

/V DOS/VMS-style options too

There must be at least two spaces between the option and the description.

2.5 1.5 Literal Blocks

Literal blocks are indicated with a double-colon ("::") at the end of the preceding paragraph (over there -->). They can be indented:

```
if literal_block:
    text = 'is left as-is'
    spaces_and_linebreaks = 'are preserved'
    markup_processing = None
```

Or they can be quoted without indentation:

```
>> Great idea!
>
> Why didn't I think of that?
```

2.5.1 1.5.1 Line Blocks

This is a line block. It ends with a blank line.

Each new line begins with a vertical bar ("1").

Line breaks and initial indents are preserved.

Continuation lines are wrapped portions of long lines; they begin with a space in place of the vertical bar.

The left edge of a continuation line need not be aligned with the left edge of the text above it.

This is a second line block.

Blank lines are permitted internally, but they must begin with a "!".

Take it away, Eric the Orchestra Leader!

A one, two, a one two three four

Half a bee, philosophically, must, *ipso facto*, half not be. But half the bee has got to be, *vis a vis* its entity. D'you see?

But can a bee be said to be
or not to be an entire bee,
when half the bee is not a bee,
due to some ancient injury?

Singing...

2.5.2 1.5.2 Block Quotes

Block quotes consist of indented body elements:

My theory by A. Elk. Brackets Miss, brackets. This theory goes as follows and begins now. All brontosauruses are thin at one end, much much thicker in the middle and then thin again at the far end. That is my theory, it is mine, and belongs to me and I own it, and what it is too.

-Anne Elk (Miss)

2.5.3 1.5.3 Doctest Blocks

```
>>> print 'Python-specific usage examples; begun with ">>>"'
Python-specific usage examples; begun with ">>>"
>>> print '(cut and pasted from interactive Python sessions)'
(cut and pasted from interactive Python sessions)
```

2.5. 1.5 Literal Blocks

2.6 1.6 Tables

Here's a grid table followed by a simple table:

Header row, column 1	Header 2	Header 3	Header 4
(header rows optional)			
body row 1, column 1	column 2	column 3	column 4
body row 2	Cells may span columns.		
body row 3	Cells may span rows.		
body row 4	cens may span rows.		
body row 5	Cells may also be empty:	> Table cells	

Inputs	Output		
Α	В	A or B	
False	False	False	
True	False	True	
False	True	True	
True	True	True	

contain

body elements.

2.7 1.7 Footnotes

2.8 1.8 Citations

Here's a reference to the above, [CIT2002]

2.9 1.9 Targets

This paragraph is pointed to by the explicit _example target. A reference can be found under *Inline Markup*, above. *Inline hyperlink targets* are also possible.

Section headers are implicit targets, referred to by name. See *Targets*, which is a subsection of *Body Elements*.

2.9.1 1.9.1 External targets

Explicit external targets are interpolated into references such as "Python".

Here's a reference to the Definitinve RST Reference documentation.

You can refer to another rst document within the site with a **Sphinx** directive. A reference to the *1 Examples of Code* in rst like this: :ref: `rst_code`

Targets may be indirect and anonymous. Thus this phrase may also refer to the Targets section.

2.9.2 1.9.2 Target Footnotes

If you use the .. target-notes:: directive, footnotes for **all external references** will be generated, and the footnotes themselves will be put after that directive. (Thus you usually want to put the directive at the bottom of a document so the footnotes will be at the bottom – the *foot* of the document.

Target footnoes are not used in this document. But you can see it in action in this one <rst_tiny>.

2.10 1.10 Directives

These are just a sample of the many reStructuredText Directives. For others, please see http://docutils.sourceforge.net/docs/ref/rst/directives.html.

An example of the "contents" directive can be seen above this section (a local, untitled table of *contents*) and at the beginning of the document (a document-wide *table of contents*).

2.11 1.11 Images

An image directive with a link (target) to the Targets section. (The image is a clickable link):



A figure is an image with a caption and/or a legend:

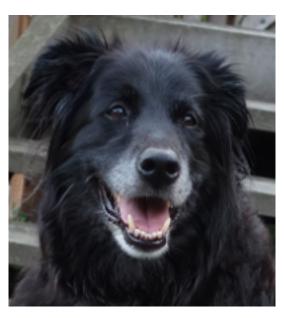


Fig. 2.1: Cats on the internet are fine. But dogs on the internet are fanTAStic!

2.10. 1.10 Directives 13

A figure directive with center alignment and width of 100. (If you click on it, you'll see the lovely full-sized image.)



2.12 1.12 Admonition Boxes

Attention: Attention - Directives at large.
Caution: Don't take any wooden nickels.
Danger: Mad scientist at work!
Error: Does not compute.
Hint: It's bigger than a bread box.
Important: These things are imporant: - Wash behind your ears Be nice Clean up your room Back up your data.
Note: This is a note.
Tip: 15% if the service is good.
Warning: Strong prose may provoke extreme mental exertion. Reader discretion is strongly advised.

And, by the way...

You can make up your own admonition too.

2.13 1.13 Topics, Sidebars, and Rubrics

Sidebar Title

This a subtitle

This is a sidebar. It is for text outside the flow of the main text. The subtitle above doesn't have any interesting formatting so it's hard to tell that it has any import at all.

This is a rubric inside a sidebar

Sidebars often appears beside the main text with a border and background color.

Topic Title

This is a topic.

This is a rubric

This paragraph contains a literal block:

```
Connecting... OK
Transmitting data... OK
Disconnecting... OK
```

and thus consists of a simple paragraph, a literal block, and another simple paragraph. Nonetheless it is semantically *one* paragraph.

This construct is called a *compound paragraph* and can be produced with the "compound" directive.

2.14 1.14 Substitution



An inline image example: Instead of showing the words biohazard, show (

The code to accomplish a substitution (a.k.a. replacement) is:

```
An inline image example: Instead of showing the words ``biohazard``, show (|biohazard|)
.. |biohazard| image:: static/tiny-Biohazard_symbol.png
```

I recommend that you try Smalltalk, the best language around.

In the preceding text, | 'Python web site <http://www.python.org>'__| was replaced with
'Smalltalk <http://c2.com/cgi/wiki?SmalltalkLanguage>'__

2.15 1.15 Comments

Here's one:

Of course you can't see it, because it's a comment in the source for this file. Here's the what the rst for the comment looks like in the rst source for this file:

.. Comments begin with two dots and a space. Anything may follow, except for the syntax of footnotes, hyperlink targets, directives, or substitution definitions.

1 Examples of Code in rst

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3.1 1.1 Showing Code Inline

Error: TBD

3.1.1 1.1.1 Inline code and references

reStructuredText is a markup language. It can use roles and declarations to turn reST into HTML.

In reST, *hello world* becomes hello world. This is because a library called Docutils was able to parse the reST and use a Writer to output it that way.

If I type 'an inline literal' it will wrap it in <tt>. You can see more details on the Inline Markup on the Docutils homepage.

Also with sphinx.ext.autodoc, which I use in the demo, I can link to $test_py_module.test.Foo$. It will link you right to my code documentation for it.

3.2 1.2 Blocks of Code

3.2.1 1.2.1 class directive and parameter args

At this point optional parameters cannot be generated from code. However, some projects will manually do it, like so:

This example comes from django-payments module docs.

```
class payments.dotpay.DotpayProvider(seller_id, pin[, channel=0[, lock=False], lang='pl'])
    param seller_id Seller ID assigned by Dotpay
    param pin PIN assigned by Dotpay
    param channel Default payment channel (consult reference guide)
    param lang UI language
    param lock Whether to disable channels other than the default selected above
```

This backend implements payments using a popular Polish gateway, Dotpay.pl.

Due to API limitations there is no support for transferring purchased items.

This example uses the .. class:: directive to format payments.dotpay.DotpayProvider(seller_id, pin[, channel=0[, lock=False], lang='pl']) and automatically put the word class in front of it. The :param args follow the class line. The optional :param args nicely format the parameters.

Here's the rst for the entire example above, including the references:

```
At this point optional parameters cannot be generated from code.

However, some projects will manually do it, like so:

This example comes from django-payments module docs.

.. class:: payments.dotpay.DotpayProvider(seller_id, pin[, channel=0[, lock=False], lang=']

:param seller_id: Seller ID assigned by Dotpay
:param pin: PIN assigned by Dotpay
:param channel: Default payment channel (consult reference guide)
:param lang: UI language
:param lock: Whether to disable channels other than the default selected above

This backend implements payments using a popular Polish gateway, Dotpay.pl.

Due to API limitations there is no support for transferring purchased items.

.. _cannot be generated from code: https://groups.google.com/forum/#!topic/sphinx-users/_q.. _django-payments module docs: http://django-payments.readthedocs.org/en/latest/modules.]
```

3.2.2 1.2.2 parsed-literal

Using the ..parsed-literal:: directive will show text without reformatting it. It will do some simple formatting (coloring) but will often show the text in an ugly, large monospaced font. (Although you can change this with your own rst template.)

```
# parsed-literal test
curl -0 http://someurl/release-0.0.1a.tar-gz
```

Here's the rst for the above:

```
.. parsed-literal::
    # parsed-literal test
    curl -0 http://someurl/release-0.0.1a.tar-gz
```

3.2.3 1.2.3 code-block

The .. code-block:: directive looks much better than .. parsed-literal::. (At least with the default Read The Docs template.) The .. code-block:: directive will try to display the text that follows it as programming code. If you specify a language that rst knows about, it will also format the text in a way that makes sense for that language.

Here's and example of a code block without any formatting or coloring:

```
print "Hello world"

def some_function():
   interesting = False
   if interesting print 'This is a nonsensical function.'
```

The language specified is *text*. That tells rst to **not** apply any formatting or coloring.

```
text
.. code-block:: text

print "Hello world"

def some_function():
   interesting = False
   if interesting print 'This is a nonsensical function.'
```

You **must** specify a language after . . code-block: . . If you don't rst will produce a console warning and won't display the code at all.

Here's that same example with ruby specified as the language. With the language specified, keywords are now nicely colored:

```
print "Hello world"

def some_function():
    interesting = False
    if interesting print 'This is a nonsensical function.'
```

Here's the rst; the only difference is the word *ruby* after the . . code-block:: directive to specify the language. (Note the space required between . . code-block:: and ruby!)

```
.. code-block:: ruby

print "Hello world"

def some_function():
   interesting = False
   if interesting print 'This is a nonsensical function.'
```

3.2.4 1.2.4 Include code from a source file

Listing 3.1: Live code from /src/main/scala/common/package.scala

```
import java.util.concurrent._
   import scala.util.DynamicVariable
2
   package object common {
     val forkJoinPool = new ForkJoinPool
     abstract class TaskScheduler {
        def schedule[T] (body: => T): ForkJoinTask[T]
        def parallel[\mathbf{A}, \mathbf{B}] (taskA: => A, taskB: => B): (\mathbf{A}, \mathbf{B}) = {
10
          val right = task {
11
            taskB
12
13
          val left = taskA
14
          (left, right.join())
15
        }
16
17
18
     class DefaultTaskScheduler extends TaskScheduler {
        def schedule[T] (body: => T): ForkJoinTask[T] = {
20
          val t = new RecursiveTask[T] {
21
            def compute = body
22
23
          Thread.currentThread match {
24
            case wt: ForkJoinWorkerThread =>
25
              t.fork()
26
            case _ =>
27
               forkJoinPool.execute(t)
28
29
```

This is taken from the actual source file. The rst code can reference either absolute file paths or relative file paths. (Absolute file paths are brittle, so should be avoided of course.) With *relative file paths*, rst can only refer to files under the project's .../src/sphinx directory. But you can create a symbolic link in .../src/sphinx that refers to some other file. That's how this code is referenced: within rst, it refers to a file in .../src/sphinx that is actually a symbolic link to the real source file.

3.2.5 1.2.5 literalinclude includes content from a file without interpreting it

If you want to include the contents of a file but not have rst interpret it, use the *literalinclude* directive. For example, if you want to show the contents of a file (or parts of it) but that file contains text that are rst directives or some other code that rst might read as instructions and you don't want rst to execute (do) those directives, use *literalinclude*.

(TBD: link to the rst documentation)

Here's how literalinclude was used to read lines from a source file and include them above:

```
.. literalinclude:: /package.scala
    :language: scala
    :linenos:
    :lines: 1-40
        :caption: Live code from /src/main/scala/common/package.scala
```

3.2.6 1.2.6 parsed-literal shows text without interpreting it

And here is how to get the above to show as code and not be interpreted by the rst parser as directives:

```
.. parsed-literal::
    .. literalinclude:: /package.scala
        :language: scala
        :linenos:
        :lines: 1-40
        :caption: Live code from /src/main/scala/common/package.scala
```

3.3 1.3 Emphasized lines with line numbers

```
def some_function():
    interesting = False
    print 'This line is highlighted.'
    print 'This one is not...'
    print '...but this one is.'
```

You can use the :linenos and :emphasize-lines: codes to show line numbers and to highlight specific lines of code, respectively.

Here's the rst used for the above ruby code:

```
.. code-block:: ruby
   :linenos:
   :emphasize-lines: 3,5

def some_function():
    interesting = False
    print 'This line is highlighted.'
    print 'This one is not...'
    print '...but this one is.'
```

CHAPT	ER 4
--------------	------

RST Header

Note: This is awesome

4.1 2nd level rst header

More content

print "Hello world"

External References are Footnotes

This document uses the . . target-notes:: directive, so all external references are shown as footnotes. Here's a reference to the Definitinve RST 1 Reference documentation. And here's the quick reference for RST 2 .

¹ http://docutils.sourceforge.net/docs/ref/rst/restructuredtext.html ² http://docutils.sourceforge.net/docs/user/rst/quickref.html

Bibliograph
[CIT2002] Citations are text-labeled footnotes. They may be rendered separately and differently from footnotes.

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