Pygments Markdown Lexer Documentation

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A Markdown lexer for Pygments to highlight Markdown code snippets.

Here's a short example:

```
Enables _Pygments_ to handle
[Markdown] (https://daringfireball.net/projects/markdown/syntax)
in *Sphinx* **code blocks**.

Preformatted, GitHub style!

```sh
echo "GitHub style with lexer"

```
```

See Markdown Syntax Examples for the full range of Markdown syntax elements.

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Documentation Contents

1.1 Markdown Syntax Examples

The following are some pygmentized examples from the Markdown syntax reference.

```
* [Overview](#overview)
  * [Philosophy](#philosophy)
  * [Inline HTML](#html)
  * [Automatic Escaping for Special Characters](#autoescape)

**Note:** This document is itself written using Markdown; you can [see the source for it by adding '.text' to the URL][src].

[src]: /projects/markdown/syntax.text
```

```
* * *
```

```
... including [Setext] [1], [atx] [2], ...
[1]: http://docutils.sourceforge.net/mirror/setext.html
[2]: http://www.aaronsw.com/2002/atx/
```

```
... *asterisks* around a word actually look like \*emphasis\*.
```

```
This is another regular paragraph.
Span-level HTML tags -- e.g. `<span>`, `<cite>`, or `<del>` -- can be
used anywhere in a Markdown paragraph, list item, or header.
Copyright symbol ©, but AT&T vs. AT& T and 4 < 5.
_____
   This is a H1
Normal text.
    # This is a H1
##
######
Normal text.
   # This is a H1 #
##
              ##
###
               ######
Normal text.
   > This is a blockquote with two paragraphs. ...
   > Donec sit amet nisl. Aliquam semper ipsum sit amet velit. Suspendisse
   > id sem consectetuer libero luctus adipiscing.
   > This is a blockquote with only a leading indicator.
   > Donec sit amet nisl. Aliquam semper ipsum sit amet velit. Suspendisse
   id sem consectetuer libero luctus adipiscing.
Blockquotes can be nested.
   > This is the first level of quoting.
   > > This is nested blockquote.
   > Back to the first level.
```

```
Red
   Green
   Blue
+
   Red
  Green
+
  Blue
   Red
   Green
   Blue
1. Bird
2. McHale
3. Parish
  A list item with a blockquote:
   > This is a blockquote
   > inside a list item.
  A list item with a code block:
       <code goes here>
1986\. What a great season.
```

```
This is a normal paragraph:

_This_ is a *code block*.

* still code
> also code

tell application "Foo"
beep
end tell

Regular Markdown syntax is not processed within code blocks.
```

```
You can produce a horizontal rule tag (`<hr />`) by placing three or more hyphens, asterisks, or underscores on a line by themselves. If you wish, you may use spaces between the hyphens or asterisks. Each of the following lines will produce a horizontal rule:

* * *
```

```
<h2 id="span">Span Elements</h2>
<h3 id="link">Links</h3>
Markdown supports two style of links: *inline* and *reference*.
In both styles, the link text is delimited by [square brackets].
To create an inline link, use a set of regular parentheses immediately
after the link text's closing square bracket. Inside the parentheses,
put the URL where you want the link to point, along with an *optional*
title for the link, surrounded in quotes. For example:
   This is [an example] (http://example.com/ "Title") inline link.
    [This link] (http://example.net/) has no title attribute.
Will produce:
    This is <a href="http://example.com/" title="Title">
   an example</a> inline link.
    <a href="http://example.net/">This link</a> has no
    title attribute.
If you're referring to a local resource on the same server, you can
use relative paths:
    See my [About] (/about/) page for details.
Reference-style links use a second set of square brackets, inside
which you place a label of your choosing to identify the link:
   This is [an example][id] reference-style link.
You can optionally use a space to separate the sets of brackets:
   This is [an example] [id] reference-style link.
Then, anywhere in the document, you define your link label like this,
on a line by itself:
    [id]: http://example.com/ "Optional Title Here"
That is:
   Square brackets containing the link identifier (optionally
   indented from the left margin using up to three spaces);
   followed by a colon;
    followed by one or more spaces (or tabs);
```

```
followed by the URL for the link;
   optionally followed by a title attribute for the link, enclosed
    in double or single quotes, or enclosed in parentheses.
The following three link definitions are equivalent:
    [foo]: http://example.com/ "Optional Title Here"
    [foo]: http://example.com/ 'Optional Title Here'
    [foo]: http://example.com/ (Optional Title Here)
**Note: ** There is a known bug in Markdown.pl 1.0.1 which prevents
single quotes from being used to delimit link titles.
The link URL may, optionally, be surrounded by angle brackets:
    [id]: <http://example.com/> "Optional Title Here"
You can put the title attribute on the next line and use extra spaces
or tabs for padding, which tends to look better with longer URLs:
    [id]: http://example.com/longish/path/to/resource/here
        "Optional Title Here"
Link definitions are only used for creating links during Markdown
processing, and are stripped from your document in the HTML output.
Link definition names may consist of letters, numbers, spaces, and
punctuation -- but they are *not* case sensitive. E.g. these two
links:
    [link text][a]
    [link text][A]
are equivalent.
The *implicit link name* shortcut allows you to omit the name of the
link, in which case the link text itself is used as the name.
Just use an empty set of square brackets -- e.g., to link the word
"Google" to the google.com web site, you could simply write:
    [Google][]
And then define the link:
    [Google]: http://google.com/
Because link names may contain spaces, this shortcut even works for
multiple words in the link text:
   Visit [Daring Fireball][] for more information.
And then define the link:
    [Daring Fireball]: http://daringfireball.net/
Link definitions can be placed anywhere in your Markdown document. I
tend to put them immediately after each paragraph in which they're
used, but if you want, you can put them all at the end of your
```

```
document, sort of like footnotes.
Here's an example of reference links in action:
    I get 10 times more traffic from [Google] [1] than from
    [Yahoo] [2] or [MSN] [3].
      [1]: http://google.com/
                                     "Google"
      [2]: http://search.yahoo.com/ "Yahoo Search"
      [3]: http://search.msn.com/ "MSN Search"
Using the implicit link name shortcut, you could instead write:
    I get 10 times more traffic from [Google][] than from
    [Yahoo][] or [MSN][].
      [google]: http://google.com/
                                          "Google"
      [yahoo]: http://search.yahoo.com/ "Yahoo Search"
             http://search.msn.com/
                                          "MSN Search"
Both of the above examples will produce the following HTML output:
    I get 10 times more traffic from <a href="http://google.com/"</p>
   title="Google">Google</a> than from
    <a href="http://search.yahoo.com/" title="Yahoo Search">Yahoo</a>
    or <a href="http://search.msn.com/" title="MSN Search">MSN</a>.
For comparison, here is the same paragraph written using
Markdown's inline link style:
    I get 10 times more traffic from [Google](http://google.com/ "Google")
    than from [Yahoo] (http://search.yahoo.com/ "Yahoo Search") or
    [MSN] (http://search.msn.com/ "MSN Search").
The point of reference-style links is not that they're easier to
write. The point is that with reference-style links, your document
source is vastly more readable. Compare the above examples: using
reference-style links, the paragraph itself is only 81 characters
long; with inline-style links, it's 176 characters; and as raw HTML,
it's 234 characters. In the raw HTML, there's more markup than there
is text.
With Markdown's reference-style links, a source document much more
closely resembles the final output, as rendered in a browser. By
allowing you to move the markup-related metadata out of the paragraph,
you can add links without interrupting the narrative flow of your
prose.
<h3 id="em">Emphasis</h3>
Markdown treats asterisks (`*`) and underscores (`_`) as indicators of
emphasis. Text wrapped with one `*` or `_` will be wrapped with an
HTML `<em>` tag; double `*`'s or `_`'s will be wrapped with an HTML
`<strong>` tag. E.g., this input:
    *single asterisks*
```

```
_single underscores_
    **double asterisks**
    __double underscores__
will produce:
   <em>single asterisks
   <em>single underscores
   <strong>double asterisks</strong>
   <strong>double underscores</strong>
You can use whichever style you prefer; the lone restriction is that
the same character must be used to open and close an emphasis span.
Emphasis can be used in the middle of a word:
   un*frigging*believable
But if you surround an `*` or `_` with spaces, it'll be treated as a
literal asterisk or underscore.
To produce a literal asterisk or underscore at a position where it
would otherwise be used as an emphasis delimiter, you can backslash
escape it:
   \*this text is surrounded by literal asterisks\*
<h3 id="code">Code</h3>
To indicate a span of code, wrap it with backtick quotes (`` ```).
Unlike a pre-formatted code block, a code span indicates code within a
normal paragraph. For example:
   Use the `printf()` function.
will produce:
    Use the <code>printf()</code> function.
To include a literal backtick character within a code span, you can use
multiple backticks as the opening and closing delimiters:
    ``There is a literal backtick (`) here.``
which will produce this:
    <code>There is a literal backtick (`) here.</code>
The backtick delimiters surrounding a code span may include spaces --
one after the opening, one before the closing. This allows you to place
literal backtick characters at the beginning or end of a code span:
```

```
A single backtick in a code span: `` ``
   A backtick-delimited string in a code span: `` `foo` ``
will produce:
   A single backtick in a code span: <code>`</code>
   A backtick-delimited string in a code span: <code>`foo`</code>
With a code span, ampersands and angle brackets are encoded as HTML
entities automatically, which makes it easy to include example HTML
tags. Markdown will turn this:
   Please don't use any `<blink>` tags.
into:
   Please don't use any <code>&lt;blink&gt;</code> tags.
You can write this:
   `—` is the decimal-encoded equivalent of `—`.
to produce:
   <code>&amp; #8212; </code> is the decimal-encoded
   equivalent of <code>&amp; mdash; </code>. 
<h3 id="img">Images</h3>
Admittedly, it's fairly difficult to devise a "natural" syntax for
placing images into a plain text document format.
Markdown uses an image syntax that is intended to resemble the syntax
for links, allowing for two styles: *inline* and *reference*.
Inline image syntax looks like this:
   ![Alt text] (/path/to/img.jpg)
   ![Alt text](/path/to/img.jpg "Optional title")
That is:
  An exclamation mark: `!`;
  followed by a set of square brackets, containing the `alt`
   attribute text for the image;
  followed by a set of parentheses, containing the URL or path to
   the image, and an optional `title` attribute enclosed in double
   or single quotes.
Reference-style image syntax looks like this:
    ![Alt text][id]
```

```
Where "id" is the name of a defined image reference. Image references
are defined using syntax identical to link references:
   [id]: url/to/image "Optional title attribute"
As of this writing, Markdown has no syntax for specifying the
dimensions of an image; if this is important to you, you can simply
use regular HTML `<img>` tags.
* * *
<h2 id="misc">Miscellaneous</h2>
<h3 id="autolink">Automatic Links</h3>
Markdown supports a shortcut style for creating "automatic" links for URLs and email addresses: simp.
   <http://example.com/>
Markdown will turn this into:
   <a href="http://example.com/">http://example.com/</a>
Automatic links for email addresses work similarly, except that
Markdown will also perform a bit of randomized decimal and hex
entity-encoding to help obscure your address from address-harvesting
spambots. For example, Markdown will turn this:
   <address@example.com>
into something like this:
   <a href="%#x6D;&#x61;i&#x6C;&#x74;&#x6F;:&#x61;&#x64;&#x64;&#x72;&#x65;</pre>
   s s @ e x a m p l e. c o
   m">address@exa
   m p l e. c o m </a>
which will render in a browser as a clickable link to "address@example.com".
(This sort of entity-encoding trick will indeed fool many, if not
most, address-harvesting bots, but it definitely won't fool all of
them. It's better than nothing, but an address published in this way
will probably eventually start receiving spam.)
<h3 id="backslash">Backslash Escapes</h3>
Markdown allows you to use backslash escapes to generate literal
characters which would otherwise have special meaning in Markdown's
formatting syntax. For example, if you wanted to surround a word
with literal asterisks (instead of an HTML `<em>` taq), you can use
backslashes before the asterisks, like this:
   \*literal asterisks\*
```

1.2 Complete API Reference

The following is a complete API reference generated from source.

1.2.1 pygments_markdown_lexer package

Pygments Markdown Lexer - A Markdown lexer for Pygments to highlight Markdown code snippets.

 $unicode_delimiters = u'\u2010\u2011\u2012\u2013\u2014\xa0'$

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```
http://www.apache.org/licenses/LICENSE-2.0
```

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```
class pygments_markdown_lexer.MarkdownLexer(**options)
Bases: pygments.lexer.RegexLexer

A Markdown lexer for Pygments.
Some rules adapted from code in pygments.lexers.markup (BSD-licensed).
aliases = [u'md', u'markdown']
closers = u'\'")]>\u2019\u201d\xbb!?'
end_string_suffix = u'((?=$)|(?=[-/:..; \\n\\x00\\\u2010\\\u2011\\\u2013\\\u2013\\\u2014\\\xa0\\\"\\"\\)]\\\frac{1}{\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\u2019\\\u2019\\\u2019\\\u2019\\\u2019\\u2019\\u2019\\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u2019\\u201
```

tokens = {'inline': [(u'\\\.', Token.Literal.String.Escape), (u'&[-a-z0-9]+;', Token.Literal.String.Symbol), (u'&#[0-9]{1,5

Submodules

pygments_markdown_lexer.lexer module Markdown lexer for Pygments.

```
See Write your own lexer and Builtin Tokens.
class pygments_markdown_lexer.lexer.Markdown
    Bases: object
    Symbolic names for Markdown tokens.
    CodeBlock = Token.Comment.Preproc
    Heading = Token.Generic.Heading
    HtmlBlock = Token.Comment.Preproc
    HtmlComment = Token.Comment.MultiLine
    HtmlEntity = Token.Literal.String.Symbol
    HtmlSingle = Token.Comment.Single
    Markup = Token.Keyword
    SubHeading = Token.Generic.Heading
class pygments_markdown_lexer.lexer.MarkdownLexer(**options)
    Bases: pygments.lexer.RegexLexer
    A Markdown lexer for Pygments.
    Some rules adapted from code in pygments.lexers.markup (BSD-licensed).
    aliases = [u'md', u'markdown']
    closers = u'\"')]}>\u2019\u201d\xbb!?'
    filenames = [u'*.md', u'*.mkd', u'*.markdown']
    flags = 8
    mimetypes = [u'text/x-markdown']
    name = u'Markdown'
    tokens = {'inline': [(u'\\\.', Token.Literal.String.Escape), (u'&[-a-z0-9]+;', Token.Literal.String.Symbol), (u'&#[0-9]{1,9}
```

1.3 Contribution Guidelines

 $unicode_delimiters = u'\u2010\u2011\u2012\u2013\u2014\xa0'$

1.3.1 Overview

Contributing to this project is easy, and reporting an issue or adding to the documentation also improves things for every user. You don't need to be a developer to contribute.

Reporting issues

Please use the *GitHub issue tracker*, and describe your problem so that it can be easily reproduced. Providing relevant version information on the project itself and your environment helps with that.

Improving documentation

The easiest way to provide examples or related documentation that helps other users is the GitHub wiki.

If you are comfortable with the Sphinx documentation tool, you can also prepare a pull request with changes to the core documentation. GitHub's built-in text editor makes this especially easy, when you choose the "Create a new branch for this commit and start a pull request" option on saving. Small fixes for typos and the like are a matter of minutes when using that tool.

Code contributions

Here's a quick guide to improve the code:

- 1. Fork the repo, and clone the fork to your machine.
- 2. Add your improvements, the technical details are further below.
- 3. Run the tests and make sure they're passing (invoke test).
- 4. Check for violations of code conventions (invoke check).
- 5. Make sure the documentation builds without errors (invoke build --docs).
- 6. Push to your fork and submit a pull request.

Please be patient while waiting for a review. Life & work tend to interfere.

1.3.2 Details on contributing code

This project is written in Python, and the documentation is generated using Sphinx. setuptools and Invoke are used to build and manage the project. Tests are written and executed using pytest and tox.

Set up a working development environment

To set up a working directory from your own fork, follow these steps, but replace the repository https URLs with SSH ones that point to your fork.

For that to work on Debian type systems, you need the git, python, and python-virtualenv packages installed. Other distributions are similar.

Add your changes to a feature branch

For any cohesive set of changes, create a *new* branch based on the current upstream master, with a name reflecting the essence of your improvement.

```
git branch "name-for-my-fixes" origin/master
git checkout "name-for-my-fixes"
... make changes...
invoke ci # check output for broken tests, or PEP8 violations and the like
... commit changes...
git push origin "name-for-my-fixes"
```

Please don't create large lumps of unrelated changes in a single pull request. Also take extra care to avoid spurious changes, like mass whitespace diffs. All Python sources use spaces to indent, not TABs.

Make sure your changes work

Some things that will increase the chance that your pull request is accepted:

- Follow style conventions you see used in the source already (and read PEP8).
- Include tests that fail *without* your code, and pass *with* it. Only minor refactoring and documentation changes require no new tests. If you are adding functionality or fixing a bug, please also add a test for it!
- Update any documentation or examples impacted by your change.
- Styling conventions and code quality are checked with invoke check, tests are run using invoke test, and the docs can be built locally using invoke build --docs.

Following these hints also expedites the whole procedure, since it avoids unnecessary feedback cycles.

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```
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Version 2.0, January 2004
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```

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CHAPTER 2

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