

Wiki Processors

Processors are WikiMacros designed to provide alternative markup formats for the Wiki engine. Processors can be thought of as *macro functions to process user-edited text*.

Wiki processors can be used in any Wiki text throughout Trac, such as:

- syntax highlighting or for rendering text verbatim
- rendering Wiki markup inside a context, like inside `<div>` blocks or `<span>` or within `<td>` or `<th>` table cells
- using an alternative markup syntax, like raw HTML and Restructured Text or ?textile

Using Processors

To use a processor on a block of text, first delimit the lines using a Wiki *code block*:

```
{{{
The lines
that should be processed...
}}}
```

Immediately after the `{{{` or on the line just below, add `#!` followed by the *processor name*:

```
{{{
#!processorname
The lines
that should be processed...
}}}
```

This is the "shebang" notation, familiar to most UNIX users.

Besides their content, some Wiki processors can also accept *parameters*, which are then given as `key=value` pairs after the processor name and on the same line. If `value` has to contain space, as it's often the case for the `style` parameter, a quoted string can be used (`key="value with space"`).

As some processors are meant to process Wiki markup, it's quite possible to *nest* processor blocks. You may want to indent the content of nested blocks for increased clarity, this extra indentation will be ignored when processing the content.

Examples

Wiki Markup

Display

Example 1: Inserting raw HTML

```
{{{
#!html
<h1 style="color: grey">This is raw HTML</h1>
}}}
```

This is raw HTML

Example 2: Highlighted Python code in a `<div>` block with custom style

```
{{{#!div style="background: #ffd; border: 3px ridge"
```

This is raw HTML

Wiki Markup

This is an example of embedded "code" block:

```
{{{
#!python
def hello():
    return "world"
}}}
```

Display

This is an example of embedded "code" block:

```
def hello():
    return "world"
```

Example 3: Searching tickets from a wiki page, by keywords.

```
{{{
#!html
<form action="/query" method="get"><div>
<input type="text" name="keywords" value="~" size="30"/>
<input type="submit" value="Search by Keywords"/>
<!-- To control what fields show up use hidden fields
<input type="hidden" name="col" value="id"/>
<input type="hidden" name="col" value="summary"/>
<input type="hidden" name="col" value="status"/>
<input type="hidden" name="col" value="milestone"/>
<input type="hidden" name="col" value="version"/>
<input type="hidden" name="col" value="owner"/>
<input type="hidden" name="col" value="priority"/>
<input type="hidden" name="col" value="component"/>
-->
</div></form>
}}}
```

Available Processors

The following processors are included in the Trac distribution:

#!default	Present the text verbatim in a preformatted text block. This is the same as specifying <i>no</i> processor name (and no #!)
#!comment	Do not process the text in this section, i.e. contents exist only in the plain text - not in the rendered page.
#!rtl	Introduce a Right-To-Left block with appropriate CSS direction and styling (<i>since 0.12.2</i>)

HTML related

#!html	Insert custom HTML in a wiki page.
#!htmlcomment	Insert an HTML comment in a wiki page (<i>since 0.12</i>). Note that #!html blocks have to be <i>self-contained</i> , i.e. you can't start an HTML element in one block and close it later in a second block. Use the following processors for achieving a similar effect.
#!div	Wrap an arbitrary Wiki content inside a <code><div></code> element (<i>since 0.11</i>).
#!span	Wrap an arbitrary Wiki content inside a <code></code> element (<i>since 0.11</i>).
#!td	Wrap an arbitrary Wiki content inside a <code><td></code> element (<i>since 0.12</i>)
#!th	Wrap an arbitrary Wiki content inside a <code><th></code> element (<i>since 0.12</i>)
#!tr	Can optionally be used for wrapping #!td and #!th blocks, either for specifying row attributes or better visual grouping (<i>since 0.12</i>)
#!table	

Can optionally be used for wrapping `#!tr`, `#!td` and `#!th` blocks, for specifying table attributes. One current limitation however is that tables cannot be nested. (*since 0.12*)
See [WikiHtml](#) for example usage and more details about these processors.

Other Markups

#!rst	Trac support for Restructured Text. See WikiRestructuredText .
#!textile	Supported if ?Textile is installed. See ?a Textile reference .

Code Highlighting Support

```
#!c
#!cpp (C++)
#!python
#!perl
#!ruby
#!php
#!asp
#!java
#!js (Javascript)
#!sql
#!xml (XML or
HTML)
#!sh (Bourne/Bash
shell)
etc.
```

Trac includes processors to provide inline syntax highlighting for source code in various languages.

Trac relies on external software packages for syntax coloring, like [Pygments](#).

See [TracSyntaxColoring](#) for information about which languages are supported and how to enable support for more languages.

Using the MIME type as processor, it is possible to syntax-highlight the same languages that are supported when browsing source code.

MIME Type Processors

Some examples:

The result will be syntax highlighted HTML code:

```
{{{
#!text/html
<h1>text</h1>
}}}
```

text

```

{{{
#!diff
--- Version 55
+++ Version 56
@@ -115,8 +115,9 @@
     name='TracHelloWorld', version='1.0',
     packages=find_packages(exclude=['*.tests*']),
     entry_points = """
-         [trac.plugins]
-         helloworld = myplugins.helloworld
-     """,
+     entry_points = {
+         'trac.plugins': [
+             'helloworld = myplugins.helloworld',
+         ],
+     },
+ )
+ }
+ }}}

```

The same is valid for all other mime types supported.

#!diff has a particularly nice renderer:

- **Version**

```

115 115     name='TracHelloWorld', version='1.0',
116 116     packages=find_packages(exclude=['*.tests*'])
117     entry_points = """
118         [trac.plugins]
119         helloworld = myplugins.helloworld
120     """
117     entry_points = {

```

MIME Type Processors

```
118     'trac.plugins': [  
119         'helloworld = myplugins.helloworld',  
120     ],  
121 },  
121 122 )
```

For more processor macros developed and/or contributed by users, visit the [?Trac Hacks](#) community site.

Developing processors is no different from Wiki macros. In fact, they work the same way, only the usage syntax differs. See [WikiMacros#DevelopingCustomMacros](#) for more information.

See also: [WikiMacros](#), [WikiHtml](#), [WikiRestructuredText](#), [TracSyntaxColoring](#), [WikiFormatting](#), [TracGuide](#)