

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, for various different purposes, like:

- 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, 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).

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 <code>#!html</code> 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 <code>#!td</code> and <code>#!th</code> blocks, either for specifying row attributes of better visual grouping (<i>since 0.12</i>) 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 Trac includes processors to provide inline syntax highlighting for source code in various languages.
#!php
#!asp
#!java Trac relies on external software packages for syntax coloring, like [?Pygments](#).
#!js (Javascript)
#!sql See [TracSyntaxColoring](#) for information about which languages are supported and how to enable support for more languages.
#!xml (XML or HTML)
#!sh (Bourne/Bash shell)
etc.

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>
}}}
```

```
<h1>text</h1>
```

The same is valid for all other [mime types supported](#).

```
{{{
#!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',
+        ],
+    },
+    )
}}}
```

#!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 = {
118     'trac.plugins': [
119         'helloworld = myplugins.helloworld',
120     ],
121     },
```

MIME Type Processors

121 122)

For more processor macros developed and/or contributed by users, visit:

- [?ProcessorBazaar](#)
- [?MacroBazaar](#)
- [?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](#)