

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 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"  
}}
```

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 <div> element (<i>since 0.11</i>).
#!span	Wrap an arbitrary Wiki content inside a element (<i>since 0.11</i>).
#!td	Wrap an arbitrary Wiki content inside a <td> element (<i>since 0.12</i>)
#!th	Wrap an arbitrary Wiki content inside a <th> 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>
}}}
{{{#!diff
--- Version 55
+++ Version 56
@@ -115,8 +115,9 @@
      name='TracHelloWorld', version='1.0',
      packages=find_packages(exclude=['*.tests*']),
      entry_points = """
      [trac.plugins]
      helloworld = myplugs.helloworld
      """,
      entry_points = {
      'trac.plugins': [
      'helloworld = myplugs.helloworld',
      ],
    },
}}}
```

<h1>text</h1>

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 = myplugs.helloworld
120      """",
121      entry_points = {
```

MIME Type Processors

```
118     'trac.plugins': [
119         'helloworld = myplugs.helloworld',
120     ],
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](#)