

## **Wikiprint Book**

**Title: Wiki Processors**

**Subject: TechTIDE-Wiki - WikiProcessors**

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## 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
<b>Example 1: Inserting raw HTML</b>	
<pre>{{{ #!html &lt;hl style="color: grey"&gt;This is raw HTML&lt;/hl&gt; }}}</pre>	This is raw HTML
<b>Example 2: Highlighted Python code in a &lt;div&gt; block with custom style</b>	
<pre>{{{#!div style="background: #ffd; border: 3px ridge" This is an example of embedded "code" block: {{{ #!python def hello():     return "world" }}} }}}</pre>	<div style="border: 1px solid black; background-color: #ffffcc; padding: 5px; margin-bottom: 5px;">This is an example of embedded "code" block:</div> <pre>def hello():     return "world"</pre>
<b>Example 3: Searching tickets from a wiki page, by keywords.</b>	
<pre>{{{ #!html &lt;form action="/query" method="get"&gt;&lt;div&gt; &lt;input type="text" name="keywords" value="-" size="30"/&gt; &lt;input type="submit" value="Search by Keywords"/&gt; &lt;!-- To control what fields show up use hidden fields &lt;input type="hidden" name="col" value="id"/&gt; &lt;input type="hidden" name="col" value="summary"/&gt; &lt;input type="hidden" name="col" value="status"/&gt; &lt;input type="hidden" name="col" value="milestone"/&gt; &lt;input type="hidden" name="col" value="version"/&gt; &lt;input type="hidden" name="col" value="owner"/&gt; &lt;input type="hidden" name="col" value="priority"/&gt; &lt;input type="hidden" name="col" value="component"/&gt; --&gt; &lt;/div&gt;&lt;/form&gt; }}}</pre>	

## Available Processors

The following processors are included in the Trac distribution:

<code>#!default</code>	Present the text verbatim in a preformatted text block. This is the same as specifying <i>no</i> processor name (and no <code>#!</code> ).
<code>#!comment</code>	Do not process the text in this section, i.e. contents exist only in the plain text - not in the rendered page.
<code>#!rtl</code>	Introduce a Right-To-Left block with appropriate CSS direction and styling. ( <i>since 0.12.2</i> )
<b>HTML related</b>	
<code>#!html</code>	Insert custom HTML in a wiki page.
<code>#!htmlcomment</code>	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.
<code>#!div</code>	Wrap wiki content inside a <code>&lt;div&gt;</code> element.
<code>#!span</code>	Wrap wiki content inside a <code>&lt;span&gt;</code> element.
<code>#!td</code>	Wrap wiki content inside a <code>&lt;td&gt;</code> element. ( <i>since 0.12</i> )
<code>#!th</code>	Wrap wiki content inside a <code>&lt;th&gt;</code> element. ( <i>since 0.12</i> )
<code>#!tr</code>	Can optionally be used for wrapping <code>#!td</code> and <code>#!th</code> blocks, either for specifying row attributes or better visual grouping. ( <i>since 0.12</i> )
<code>#!table</code>	Can optionally be used for wrapping <code>#!tr</code> , <code>#!td</code> and <code>#!th</code> blocks, for specifying table attributes. One current limitation however is that tables cannot be nested. ( <i>since 0.12</i> )
	See <a href="#">WikiHtml</a> for example usage and more details about these processors.
<b>Other Markups</b>	
<code>#!rst</code>	Trac support for Restructured Text. See <a href="#">WikiRestructuredText</a> .
<code>#!textile</code>	Supported if <a href="#">Textile</a> is installed. See <a href="#">a Textile reference</a> .
<b>Code Highlighting Support</b>	
<pre>#!c #!cpp (C++) #!python #!perl #!ruby #!php #!asp #!java #!js (Javascript) #!sql #!xml (XML or HTML) #!sh (Bourne/Bash shell) etc.</pre>	<p>Trac includes processors to provide inline syntax highlighting for source code in various languages.</p> <p>Trac relies on <a href="#">Pygments</a> for syntax coloring.</p> <p>See <a href="#">TracSyntaxColoring</a> for information about which languages are supported and how to enable support for more languages.</p>

Since 1.1.2 the default, coding highlighting and MIME-type processors support the argument `lineno` for adding line numbering to the code block. When a value is specified, as in `lineno=3`, the numbering will start at the specified value. When used in combination with the `lineno` argument, the `marks`

argument is also supported for highlighting lines. A single line number, set of line numbers and range of line numbers are allowed. For example, `marks=3`, `marks=3-6`, `marks=3,5,7` and `marks=3-5,7` are all allowed. The specified values are relative to the numbered lines, so if `lineno=2` is specified to start the line numbering at 2, `marks=2` will result in the first line being highlighted.

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:																																																												
<pre> {{{#!text/html &lt;h1&gt;text&lt;/h1&gt; }}} </pre>	<pre> &lt;h1&gt;text&lt;/h1&gt; </pre> <p>The same is valid for all other <a href="#">mime types supported</a>.</p>																																																												
<pre> {{{#!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', +        ], +    }, ) }}} </pre>	<p><b>#!diff</b> has a particularly nice renderer:</p> <p><u>Version</u></p> <table border="0"> <tr> <td style="width: 100px;"></td> <td style="width: 100px;"><b>115</b></td> <td style="width: 100px;"><b>115</b></td> <td>name='TracHelloWorld',</td> </tr> <tr> <td></td> <td></td> <td></td> <td>version='1.0',</td> </tr> <tr> <td></td> <td><b>116</b></td> <td><b>116</b></td> <td>packages=find_packages(exclud</td> </tr> <tr> <td></td> <td><b>117</b></td> <td></td> <td>entry_points = ""</td> </tr> <tr> <td></td> <td><b>118</b></td> <td></td> <td>[trac.plugins]</td> </tr> <tr> <td></td> <td><b>119</b></td> <td></td> <td>helloworld =</td> </tr> <tr> <td></td> <td><b>120</b></td> <td></td> <td>myplugins.helloworld</td> </tr> <tr> <td></td> <td></td> <td></td> <td>"""</td> </tr> <tr> <td></td> <td></td> <td><b>117</b></td> <td>entry_points = {</td> </tr> <tr> <td></td> <td></td> <td><b>118</b></td> <td>'trac.plugins': [</td> </tr> <tr> <td></td> <td></td> <td><b>119</b></td> <td>'helloworld =</td> </tr> <tr> <td></td> <td></td> <td></td> <td>myplugins.helloworld',</td> </tr> <tr> <td></td> <td></td> <td><b>120</b></td> <td>],</td> </tr> <tr> <td></td> <td></td> <td><b>121</b></td> <td>},</td> </tr> <tr> <td></td> <td><b>121</b></td> <td><b>122</b></td> <td>)</td> </tr> </table>		<b>115</b>	<b>115</b>	name='TracHelloWorld',				version='1.0',		<b>116</b>	<b>116</b>	packages=find_packages(exclud		<b>117</b>		entry_points = ""		<b>118</b>		[trac.plugins]		<b>119</b>		helloworld =		<b>120</b>		myplugins.helloworld				"""			<b>117</b>	entry_points = {			<b>118</b>	'trac.plugins': [			<b>119</b>	'helloworld =				myplugins.helloworld',			<b>120</b>	],			<b>121</b>	},		<b>121</b>	<b>122</b>	)
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Line numbers can be added to code blocks and lines can be highlighted (since 1.1.2).

```

{{{#!python lineno=3 marks=3,9-10,16
def expand_markup(stream, ctxt=None):
    """A Genshi stream filter for expanding `genshi.Markup` events.

    Note: Expansion may not be possible if the fragment is badly
    formed, or partial.
    """
    for event in stream:
        if isinstance(event[1], Markup):
            try:
                for subevent in HTML(event[1]):
                    yield subevent
            except ParseError:
                yield event
        else:
            yield event
}}}

```

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.

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