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*.

The Wiki engine uses processors to allow using Restructured Text, raw HTML and ?textile in any Wiki text throughout Trac.

Using Processors

To use a processor on a block of text, use a Wiki code block, selecting a processor by name using *shebang notation* (#!), familiar to most UNIX users from scripts.

Example 1 (*inserting raw HTML in a wiki text*):

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

Results in:

<h1 style="color: orange">This is raw HTML</h1>

Note that since 0.11, such blocks of HTML have to be self-contained, i.e. you can't start an HTML element in one block and close it later in a second block. Use div or span processors for achieving similar effect (see WikiHtml).

Example 2 (*inserting Restructured Text in wiki text*):

```
{{{
#!rst
A header
--------
This is some **text** with a footnote [*]_.

.. [*] This is the footnote.
}}}
```

Results in:

```
A header
--------
This is some **text** with a footnote [*]_.

.. [*] This is the footnote.
```

Example 3 (*inserting a block of C source code in wiki text*):

```
{{{
#!c
int main(int argc, char *argv[])
{
 printf("Hello World\n");
 return 0;
}
}}}
```

Results in:

```
int main(int argc, char *argv[])
{
 printf("Hello World\n");
 return 0;
}
```

Available Processors

The following processors are included in the Trac distribution:

- **html** -- Insert custom HTML in a wiki page. See WikiHtml.
- **div** -- Wrap an arbitrary Wiki content in a element (*since 0.11*). See WikiHtml.
- **span** -- Wrap an arbitrary Wiki content in a element (*since 0.11*). See also WikiHtml.
- **rst** -- Trac support for Restructured Text. See WikiRestructuredText.
- **textile** -- Supported if ?Textile is installed. See ?a Textile reference.
- **comment** -- Do not process the text in this section (i.e. contents exist only in the plain text - not in the rendered page).

Code Highlighting Support

Trac includes processors to provide inline syntax highlighting for the following languages:

- **c** -- C
- **cpp** -- C++
- **python** -- Python
- **perl** -- Perl
- **ruby** -- Ruby
- **php** -- PHP
- **asp** -- ASP
- **java** -- Java
- **js** -- Javascript
- **sql** -- SQL
- **xml** -- XML
- **sh** -- Bourne/Bash? shell

Note: *Trac relies on external software packages for syntax coloring. See TracSyntaxColoring for more info.*

By using the MIME type as processor, it is possible to syntax-highlight the same languages that are supported when browsing source code. For example, you can write:

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

The result will be syntax highlighted HTML code:

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

The same is valid for all other mime types supported.

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

- ?ProcessorBazaar
- ?MacroBazaar
- [th:WikiStart Trac Hacks] community site

Advanced Topics: Developing Processor Macros

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

See also: WikiMacros, WikiHtml, WikiRestructuredText, TracSyntaxColoring, WikiFormatting, TracGuide