

# 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:**

## This is raw HTML

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](#)).

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**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.

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

A header

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

### Results in:

```
argc  argv

printf
```

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## 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 <div> element (*since 0.11*). See [WikiHtml](#).
- **span** — Wrap an arbitrary Wiki content in a <span> 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).
- **diff** — Pretty print patches and diffs.

## Code Highlighting Support

Trac includes processors to provide inline [syntax highlighting](#) for the following languages:

- **c** — C
- **cpp** — C++
- **csharp** — C# (*use `#!/text/x-csharp`*)
- **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:

```
text
```

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.

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