

# reStructuredText Support in Trac

Trac supports using *reStructuredText* (RST) as an alternative to wiki markup in any context [WikiFormatting](#) is used.

From the reStructuredText webpage:

*"reStructuredText is an easy-to-read, what-you-see-is-what-you-get plaintext markup syntax and parser system. It is useful for in-line program documentation (such as Python docstrings), for quickly creating simple web pages, and for standalone documents. reStructuredText is designed for extensibility for specific application domains. "*

If you want a file from your Subversion repository be displayed as reStructuredText in Trac's source browser, set `text/x-rst` as value for the Subversion property `svn:mime-type`. See [?this example](#).

## Requirements

Note that to activate RST support in Trac, the python docutils package must be installed. If not already available on your operating system, you can download it at the [?RST Website](#).

Install docutils using `easy_install docutils`. Do not use the package manager of your OS (e.g. `apt-get install python-docutils`), because Trac will not find docutils then.

## More information on RST

- reStructuredText Website -- [?http://docutils.sourceforge.net/rst.html](http://docutils.sourceforge.net/rst.html)
- RST Quick Reference -- [?http://docutils.sourceforge.net/docs/rst/quickref.html](http://docutils.sourceforge.net/docs/rst/quickref.html)

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## Using RST in Trac

To specify that a block of text should be parsed using RST, use the *rst* processor.

### TracLinks in reStructuredText

- Trac provides a custom RST directive `trac::` to allow [TracLinks](#) from within RST text.

Wiki Markup	Display
<pre>{{{ #!rst This is a reference to  a ticket   ..  a ticket  trac:: #42 }}}</pre>	<pre>This is a reference to  a ticket   ..  a ticket  trac:: #42</pre>

- Trac allows an even easier way of creating [TracLinks](#) in RST, using the custom `:trac:` role.

Wiki Markup	Display
<pre>{{{ #!rst This is a reference to ticket `#12`:trac:  To learn how to use Trac, see `TracGuide`:trac: }}}</pre>	<pre>This is a reference to ticket `#12`:trac:  To learn how to use Trac, see `TracGuide`:trac:</pre>

For a complete example of all uses of the `trac:` role, please see [WikiRestructuredTextLinks](#).

## Syntax highlighting in reStructuredText

There is a directive for doing [TracSyntaxColoring](#) in RST as well. The directive is called `code-block`

<b>Wiki Markup</b>	<b>Display</b>
<pre> {{{ #!rst  .. code-block:: python      class Test:         def TestFunction(self):             pass }}</pre>	<pre> .. code-block:: python  class Test:     def TestFunction(self):         pass</pre>

Note the need to indent the code at least one character after the `.. code-block` directive.

## Wiki Macros in reStructuredText

For doing [Wiki Macros](#) in RST you use the same directive as for syntax highlighting i.e `code-block`.

<b>Wiki Markup</b>	<b>Display</b>
<pre> {{{ #!rst  .. code-block:: RecentChanges      Trac,3 }}</pre>	<pre> .. code-block:: RecentChanges  Trac,3</pre>

Or a more concise Wiki Macro like syntax is also available, using the `:code-block:` role:

<b>Wiki Markup</b>	<b>Display</b>
<pre> {{{ #!rst  :code-block:`RecentChanges:Trac,3` }}}</pre>	<pre> :code-block:`RecentChanges:Trac,3`</pre>

## Bigger RST Example

The example below should be mostly self-explanatory:

<b>Wiki Markup</b>	<b>Display</b>
<pre> {{{ #!rst FooBar Header ===== reStructuredText is <b>nice</b>. It has its own webpage_. A table:  A table:  =====  =====  ===== Inputs   Output -----  ----- A        B        A or B =====  =====  ===== False   False   False }}</pre>	<pre> FooBar Header ===== reStructuredText is <b>nice</b>. It has its own webpage_. A table:  =====  =====  ===== Inputs   Output -----  ----- A        B        A or B =====  =====  ===== False   False   False</pre>

### Wiki Markup

```
=====  
False False False  
True  False True  
False True  True  
True  True  True  
=====
```

```
RST TracLinks  
-----
```

See also ticket `#42`:trac:.

```
.. _webpage: http://docutils.sourceforge.net/rst.html  
}}}
```

### Display

```
True  False  True  
False True   True  
True  True   True  
=====
```

```
RST TracLinks  
-----
```

See also ticket `#42`:trac:.

```
.. _webpage: http://docutils.sourceforge.net/rst.html
```

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See also: [WikiRestructuredTextLinks](#), [WikiProcessors](#), [WikiFormatting](#)