

## **Wikiprint Book**

**Title: reStructuredText Support in Trac**

**Subject: Tibusay - WikiRestructuredText**

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## 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>
- RST Quick Reference -- <http://docutils.sourceforge.net/docs/rst/quickref.html>

## 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>	<p>This is a reference to <a href="#">#42</a></p>

- 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>	<p>This is a reference to ticket <a href="#">#12</a></p> <p>To learn how to use Trac, see <a href="#">TracGuide</a></p>

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`

Wiki Markup	Display
<pre> {{{ :code-block: python class Test:     def __init__(self):         pass }}}</pre>	<pre> class Test:     def __init__(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`.

Wiki Markup	Display
<pre> {{{ #!rst  .. code-block:: RecentChanges      Trac,3  }}}</pre>	<p><b>Feb 5, 2016</b></p> <ul style="list-style-type: none"> <li>• <a href="#">TracWiki</a> <small>(diff)</small></li> <li>• <a href="#">TracInterfaceCustomization</a> <small>(diff)</small></li> <li>• <a href="#">TracAdmin</a> <small>(diff)</small></li> </ul>

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

Wiki Markup	Display
<pre> {{{ #!rst  :code-block:`RecentChanges:Trac,3` }}}</pre>	<p><b>Feb 5, 2016</b></p> <ul style="list-style-type: none"> <li>• <a href="#">TracWiki</a> <small>(diff)</small></li> <li>• <a href="#">TracInterfaceCustomization</a> <small>(diff)</small></li> <li>• <a href="#">TracAdmin</a> <small>(diff)</small></li> </ul>

### Bigger RST Example

The example below should be mostly self-explanatory:

Wiki Markup	Display																		
<pre>{{{ #!rst FooBar Header ===== reStructuredText is <b>nice</b>. It has its own webpage_.  A table:  =====  =====  =====       Inputs      Output -----  -       A          B    A or B =====  ===== 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 }}}</pre>	<p><b>FooBar Header</b></p> <p>reStructuredText is <b>nice</b>. It has its own <a href="#">webpage</a>.</p> <p>A table:</p> <table><tr><th colspan="2">Inputs</th><th>Output</th></tr><tr><th>A</th><th>B</th><th>A or B</th></tr><tr><td>False</td><td>False</td><td>False</td></tr><tr><td>True</td><td>False</td><td>True</td></tr><tr><td>False</td><td>True</td><td>True</td></tr><tr><td>True</td><td>True</td><td>True</td></tr></table> <p><b>RST TracLinks</b></p> <p>See also ticket <a href="#">#42</a>.</p>	Inputs		Output	A	B	A or B	False	False	False	True	False	True	False	True	True	True	True	True
Inputs		Output																	
A	B	A or B																	
False	False	False																	
True	False	True																	
False	True	True																	
True	True	True																	

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