

# 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>{{{</pre>	<pre>This is a reference to ticket `#12`:trac:</pre>

### Wiki Markup

```

#!rst
This is a reference to ticket `#12`:trac:
To learn how to use Trac, see `TracGuide`:trac:
}}

```

### Display

To learn how to use Trac, see ``TracGuide`:trac:`

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

```

{{{
#!rst

.. code-block:: python

    class Test:
        def TestFunction(self):
            pass
}}}

```

### Display

```

.. code-block:: python

class Test:
    def TestFunction(self):
        pass

```

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

```

{{{
#!rst

.. code-block:: RecentChanges

    Trac,3
}}}

```

### Display

```

.. code-block:: RecentChanges

Trac,3

```

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

### Wiki Markup

```

{{{
#!rst

:code-block:`RecentChanges:Trac,3`
}}}

```

### Display

```

:code-block:`RecentChanges:Trac,3`

```

## Bigger RST Example

The example below should be mostly self-explanatory:

### Wiki Markup

### Display

```

{{{
#!rst
FooBar Header
=====
reStructuredText is nice. 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
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See also ticket `#42`:trac:.

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

```

FooBar Header
=====
reStructuredText is nice. It has its

A table:

=====  =====  =====
      Inputs      Output
-----  -----  -----
      A          B      A or B
=====  =====  =====
False   False   False
True    False   True
False   True     True
True    True     True
=====  =====  =====

RST TracLinks
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See also ticket `#42`:trac:.

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

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