

# 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>
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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.

Example:

```
{{{
#!rst
This is a reference to |a ticket|

.. |a ticket| trac:: #42
}}}
```

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

Example:

```
{#{
#!rst
This is a reference to ticket `#12`:trac:

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`

Example

```
{#{
#!rst

.. code-block:: python

class Test:

    def TestFunction(self):
        pass

}}}
```

Will result in the below.

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

## Wiki Macros in reStructuredText

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

## Wiki Macro Example

```
{#{
#!rst

.. code-block:: RecentChanges

    Trac,3

}}}
```

Will result in the below:

**03/28/11**

- ◆ [TracNavigation](#)
- ◆ [TracBackup](#)

## ◆ TracSearch

Or a more concise Wiki Macro like syntax is also available:

```
{{{
#!rst

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

## Bigger RST Example

The example below should be mostly self-explanatory:

```
{{{
#!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
}}}
```

Results in:

## 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

See also ticket

WARNING: `#42`:trac: is not a valid TracLink

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