

# reStructuredText Support in Trac

## Introduction

Trac supports [reStructuredText \(RST\)](#) as an alternative to wiki markup where [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 to be displayed as reStructuredText in the Trac source browser, set `text/x-rst` as the value for the Subversion property `svn:mime-type`, or add the extension `.rst` to the filename. See [this example](#).

The examples will only be rendered as reStructuredText if docutils is installed. If Pygments is installed but docutils is not installed, the examples will be syntax-highlighted rather than rendered as reStructuredText.

## Requirements

To activate RST support in Trac, install the python docutils package with the command `easy_install docutils`, or through your operating system package manager. If not already available on your operating system, you can download it from [PyPI](#).

## More information on RST

- [reStructuredText Website](#)
- [RST Quick Reference](#)

## 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  This is a reference to  a ticket   ..  a ticket  trac:: #42 }}}</pre> |         |

- You can also use the custom `:trac:` role to create [TracLinks](#) in RST.

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

## Wiki Markup

## Display

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

For a complete example of all uses of the `:trac:` role, 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

```
{{{#!rst
.. 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

To enable [Wiki Macros](#) in RST, you use the same `code-block` directive as for syntax highlighting:

### Wiki Markup

### Display

```
{{{#!rst
.. code-block:: RecentChanges

    Trac,3

}}}
```

Or use the `:code-block:` role for a more concise Wiki Macro-like syntax:

### Wiki Markup

### Display

```
{{{
#!rst

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

}}}
```

## Bigger RST Example

The example below should be 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
-----
}}}
```

```
FooBar Header
=====
reStructuredText is nice. It has its
A table:

=====
Inputs      Output
-----
A           B           A or B
-----
```

## Wiki Markup

| 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  
}}}

## Display

| 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](#)