reStructuredText Support in Trac

Trac supports using *reStructuredText* (RST) as an alternative to wiki markup in any context <u>WikiFormatting</u> is used.

From the reStucturedText 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 <u>?this example</u>.

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 <u>?RST Website</u>.

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

Using RST in Trac

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

<u>TracLinks</u> in reStructuredText

- Trac provides a custom RST directive `trac::` to allow <u>TracLinks</u> from within RST text.

Wiki Markup	Display

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

.. |a ticket| trac:: #42
}}}
``` | This is a reference to &#124;a ticket&#124;<br><br>.. &#124;a ticket&#124; trac:: #42 |

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

Wiki Markup	Display
| ```
{{{
#!rst
This is a reference to ticket `#12`:trac:

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

.. code-block:: python

   class Test:

       def TestFunction(self):
           pass

}}}
``` | ```
.. 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	Display

```
{{{
#!rst
                                   .. code-block:: RecentChanges
.. code-block:: RecentChanges
                                     Trac,3
   Trac,3

}}}
```

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

Wiki Markup	Display
| ```
{{{
#!rst
                                   :code-block:`RecentChanges:Trac,3`
: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:.
``` | ```
FooBar Header
=============
reStructuredText is **nice**. It has it

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.sourceforg
``` |

Wiki Markup	Display

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

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