

# Syntax Coloring of Source Code

Trac supports language-specific syntax highlighting of source code within wiki formatted text in [wiki processors](#) blocks and in the [repository browser](#).

To do this, Trac uses external libraries with support for a great number of programming languages.

Currently Trac supports syntax coloring using one or more of the following packages:

- [Pygments](#), by far the preferred system, as it covers a wide range of programming languages and other structured texts and is actively supported
- [GNU Enscript](#), commonly available on Unix but somewhat unsupported on Windows
- [SilverCity](#), legacy system, some versions can be [problematic](#)

To activate syntax coloring, simply install either one (or more) of these packages (see [#ExtraSoftware](#) section below). If none of these packages is available, Trac will display the data as plain text.

## About Pygments

Starting with trac 0.11 [pygments](#) will be the new default highlighter. It's a highlighting library implemented in pure python, very fast, easy to extend and [well documented](#).

The Pygments default style can be specified in the [mime-viewer](#) section of trac.ini. The default style can be overridden by setting a Style preference on the [preferences page](#).

It's very likely that the list below is outdated because the list of supported pygments lexers is growing weekly. Just have a look at the page of [supported lexers](#) on the pygments webpage.

## Syntax Coloring Support

### Known MIME Types

MIME Types	<a href="#">WikiProcessors</a>
<code>application/javascript</code>	<code>js</code>
<code>application/msword</code>	<code>doc dot</code>
<code>application/pdf</code>	<code>pdf</code>
<code>application/postscript</code>	<code>ps</code>
<code>application/rss+xml</code>	<code>rss</code>
<code>application/rtf</code>	<code>rtf</code>
<code>application/x-csh</code>	<code>csh</code>
<code>application/x-sh</code>	<code>sh</code>
<code>application/x-troff</code>	<code>nroff roff troff</code>
<code>application/x-yaml</code>	<code>yaml yml</code>
<code>application/xsl+xml</code>	<code>xsl</code>
<code>application/xslt+xml</code>	<code>xslt</code>
<code>image/svg+xml</code>	<code>svg</code>
<code>image/x-icon</code>	<code>ico</code>

## MIME Types

## WikiProcessors

<b>model/vrml</b>	vrml wrl
<b>text/css</b>	css
<b>text/html</b>	htm html
<b>text/plain</b>	AUTHORS COPYING ChangeLog INSTALL README RELEASE TXT text txt
<b>text/x-ada</b>	ada adb ads
<b>text/x-asm</b>	asm
<b>text/x-asp</b>	asp
<b>text/x-awk</b>	awk
<b>text/x-c++hdr</b>	H HH c++hdr hh hpp
<b>text/x-c++src</b>	C C++ CC c++ c++src cc cpp
<b>text/x-chdr</b>	chdr h
<b>text/x-csharp</b>	C# c# cs csharp
<b>text/x-csrc</b>	c csrc xs
<b>text/x-diff</b>	diff patch
<b>text/x-dylan</b>	dylan
<b>text/x-eiffel</b>	e eiffel
<b>text/x-elisp</b>	el elisp
<b>text/x-fortran</b>	f fortran
<b>text/x-haskell</b>	haskell hs
<b>text/x-idl</b>	ice idl
<b>text/x-inf</b>	inf
<b>text/x-ini</b>	cfg ini
<b>text/x-java</b>	java
<b>text/x-ksh</b>	ksh
<b>text/x-lua</b>	lua
<b>text/x-m4</b>	m4
<b>text/x-mail</b>	mail
<b>text/x-makefile</b>	GNUMakefile Makefile make makefile mk
<b>text/x-objc</b>	m mm objc
<b>text/x-ocaml</b>	ml mli ocaml
<b>text/x-pascal</b>	pas pascal
<b>text/x-perl</b>	PL perl pl pm
<b>text/x-php</b>	php php3 php4
<b>text/x-ppsp</b>	psp
<b>text/x-pyrex</b>	pyrex pyx
<b>text/x-python</b>	py python
<b>text/x-rfc</b>	rfc
<b>text/x-rst</b>	rst
<b>text/x-ruby</b>	rb ruby
<b>text/x-scheme</b>	scheme scm
<b>text/x-sql</b>	sql
<b>text/x-tcl</b>	tcl
<b>text/x-tex</b>	tex
<b>text/x-textile</b>	textile txtl
<b>text/x-vba</b>	bas vb vba
<b>text/x-verilog</b>	v verilog

## MIME Types

<code>text/x-vhdl</code>	<code>vhd vhd1</code>
<code>text/x-zsh</code>	<code>zsh</code>
<code>text/xml</code>	<code>xml</code>

## WikiProcessors

Note that the rich content may be directly *rendered* instead of syntax highlighted. This usually depends on which auxiliary packages are installed and on which components are activated in your setup. For example a `text/x-rst` document will be rendered via `docutils` if it is installed and the `trac.mimeview.rst.ReStructuredTextRenderer` is not disabled, and will be syntax highlighted otherwise.

In a similar way, a document with the mimetype `text/x-trac-wiki` is rendered using the Trac wiki formatter, unless the `trac.mimeview.api.WikiTextRenderer` component is disabled.

HTML documents are directly rendered only if the `render_unsafe_html` settings are enabled in the TracIni (those settings are present in multiple sections, as there are different security concerns depending where the document comes from). If you want to ensure that an HTML document gets syntax highlighted and not rendered, use the `text/xml` mimetype.

If mimetype such as 'svn:mime-type' is set to 'text/plain', there is no coloring even if file is known type like 'java'.

## List of Languages Supported, by Highlighter

This list is only indicative.

	SilverCity	Enscript	Pygments
Ada		?	
Asm		?	
Apache Conf			?
ASP	?	?	
C	?	?	?
C#		? <u>(1)</u>	?
C++	?	?	?
CMake	?	?	?
Java	? <u>(2)</u>	?	?
Awk		?	
Boo			?
CSS	?		?
Python Doctests			?
Diff		?	?
Eiffel		?	
Elisp		?	
Fortran		? <u>(1)</u>	?
Haskell		?	?
Genshi			?

**SilverCity Enscript Pygments**

HTML	?	?	?
IDL		?	
INI			?
Javascript	?	?	?
Lua			?
m4		?	
Makefile		?	?
Mako			?
Matlab <sup>(3)</sup>		?	?
Mygthy			?
Objective-C		?	?
OCaml			?
Pascal		?	?
Perl	?	?	?
PHP	?		?
PSP	?		
Pyrex		?	
Python	?	?	?
Ruby	?	? <sup>(1)</sup>	?
Scheme		?	?
Shell		?	?
Smarty			?
SQL	?	?	?
Troff		?	?
TCL		?	
Tex		?	?
Verilog	? <sup>(2)</sup>	?	
VHDL		?	
Visual Basic		?	?
VRML		?	
XML	?		?

(1) Not included in the Enscript distribution. Additional highlighting rules can be obtained for ?Ruby, ?C#, ?Fortran 90x/2003

(2) since Silvercity 0.9.7 released on 2006-11-23

(3) By default `.m` files are considered Objective-C files. In order to treat `.m` files as MATLAB files, add `"text/matlab:m"` to the `"mime_map"` setting in the [mimeviewer] section of trac.ini.

## Extra Software

- GNU Enscript ? [?http://directory.fsf.org/GNU/enscript.html](http://directory.fsf.org/GNU/enscript.html)
  - GNU Enscript for Windows ? [?http://gnuwin32.sourceforge.net/packages/enscript.htm](http://gnuwin32.sourceforge.net/packages/enscript.htm)
  - SilverCity ? [?http://silvercity.sf.net/](http://silvercity.sf.net/)
  - Pygments ? [?http://pygments.org/](http://pygments.org/)
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See also: [WikiProcessors](#), [WikiFormatting](#), [TracWiki](#), [TracBrowser](#)