

# 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It's very likely that the list below is outdated because the list of supported pygments lexers is growing weekly.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/atom+xml</code>	xml
<code>application/json</code>	json
<code>application/kal</code>	kal
<code>application/msword</code>	doc dot
<code>application/pdf</code>	pdf
<code>application/postscript</code>	postscr postscript ps
<code>application/rss+xml</code>	rss
<code>application/rtf</code>	rtf
<code>application/vnd.wolfram.cdf</code>	mathematica mma nb
<code>application/x-awk</code>	awk gawk mawk nawk
<code>application/x-befunge</code>	befunge
<code>application/x-brainfuck</code>	bf brainfuck
<code>application/x-clojure</code>	clj clojure
<code>application/x-coldfusion</code>	cfm
<code>application/x-csh</code>	csh tcsh

<b>application/x-cython</b>	cython pyrex pyx
<b>application/x-dos-batch</b>	bat batch cmd dos dosbatch winbatch
<b>application/x-ecl</b>	ecl
<b>application/x-evoque</b>	evoque
<b>application/x-fantom</b>	fan
<b>application/x-gooddata-maql</b>	maql
<b>application/x-httpd-lasso [89]</b>	html+lasso
<b>application/x-httpd-php5</b>	html+php
<b>application/x-hy</b>	hylang
<b>application/x-hybris</b>	hy hybris
<b>application/x-jinja</b>	django jinja
<b>application/x-jsp</b>	jsp
<b>application/x-julia</b>	j1 julia
<b>application/x-kid</b>	genshi kid xml+genshi xml+kid
<b>application/x-lua</b>	lua
<b>application/x-mako</b>	mako
<b>application/x-mason</b>	mason
<b>application/x-moonscript</b>	moon moonscript
<b>application/x-myghty</b>	myghty
<b>application/x-newlisp</b>	newlisp
<b>application/x-openedge</b>	abl openedge progress
<b>application/x-perl</b>	perl pl
<b>application/x-perl6</b>	perl6 pl6
<b>application/x-pygments-tokens</b>	raw
<b>application/x-pypylog</b>	pypy pypylog
<b>application/x-python</b>	py python sage
<b>application/x-python3</b>	py3 python3
<b>application/x-qml</b>	qml
<b>application/x-racket</b>	racket rkt
<b>application/x-ruby</b>	duby rb ruby
<b>application/x-ruby-templating</b>	erb
<b>application/x-scheme</b>	scheme scm
<b>application/x-sh-session</b>	shell-session
<b>application/x-shell-session</b>	console
<b>application/x-shellscript</b>	bash ksh sh
<b>application/x-smarty</b>	smarty
<b>application/x-spitfire</b>	cheetah spitfire
<b>application/x-ssp</b>	ssp
<b>application/x-standardml</b>	sml
<b>application/x-tcl</b>	tcl
<b>application/x-troff</b>	roff troff
<b>application/x-urbiscript</b>	urbiscript
<b>application/x-yaml</b>	yml
<b>application/xhtml+xml</b>	html

<b>application/xml+evoque</b>	xml+evoque
<b>application/xml+jinja</b>	xml+django xml+jinja
<b>application/xml+lasso</b>	xml+lasso
<b>application/xml+mako</b>	xml+mako
<b>application/xml+myghty</b>	xml+myghty
<b>application/xml+php</b>	xml+php
<b>application/xml+ruby</b>	xml+erb xml+ruby
<b>application/xml+smarty</b>	xml+smarty
<b>application/xml+spitfire</b>	xml+cheetah xml+spitfire
<b>application/xml+velocity</b>	xml+velocity
<b>application/xml-dtd</b>	dtd
<b>application/xquery</b>	xq xql xqm xquery xqy
<b>application/xsl+xml</b>	xsl
<b>application/xslt+xml</b>	xslt
<b>image/svg+xml</b>	svg
<b>image/x-icon</b>	ico
<b>model/vrml</b>	vrml wrl
<b>text/actionscript</b>	actionscript3 as3
<b>text/actionscript3</b>	actionscript as
<b>text/coffeescript</b>	coffee coffee-script coffeescript
<b>text/css</b>	css
<b>text/css+genshi</b>	css+genshi css+genshitext
<b>text/css+jinja</b>	css+django css+jinja
<b>text/css+lasso</b>	css+lasso
<b>text/css+mako</b>	css+mako
<b>text/css+myghty</b>	css+myghty
<b>text/css+php</b>	css+php
<b>text/css+ruby</b>	css+erb css+ruby
<b>text/css+smarty</b>	css+smarty
<b>text/gettext</b>	po pot
<b>text/html</b>	htm
<b>text/html+evoque</b>	html+evoque
<b>text/html+genshi</b>	html+genshi html+kid
<b>text/html+jinja</b>	html+django html+jinja htmdldjango
<b>text/html+mako</b>	html+mako
<b>text/html+myghty</b>	html+myghty
<b>text/html+ruby</b>	html+erb html+ruby rhtml
<b>text/html+smarty</b>	html+smarty
<b>text/html+spitfire</b>	html+cheetah html+spitfire htmlcheetah
<b>text/html+velocity</b>	html+velocity
<b>text/idl</b>	idl
<b>text/ipf</b>	igor igorpro
<b>text/javascript</b>	javascript js
<b>text/javascript+genshi</b>	

	javascript+genshi javascript+genshitext js+genshi js+genshitext
<b>text/javascript+jinja</b>	javascript+django javascript+jinja js+django js+jinja
<b>text/javascript+lasso</b>	javascript+lasso js+lasso
<b>text/javascript+mako</b>	javascript+mako js+mako
<b>text/javascript+mygthy</b>	javascript+mygthy js+mygthy
<b>text/javascript+php</b>	javascript+php js+php
<b>text/javascript+ruby</b>	javascript+erb javascript+ruby js+erb js+ruby
<b>text/javascript+smarty</b>	javascript+smarty js+smarty
<b>text/javascript+spitfire</b>	javascript+cheetah javascript+spitfire js+cheetah js+spitfire
<b>text/livescript</b>	live-script livescript
<b>text/matlab</b>	matlab
<b>text/octave</b>	octave
<b>text/plain</b>	AUTHORS COPYING ChangeLog INSTALL README RELEASE TXT text txt
<b>text/prs.fallenstein.rst</b>	rest restructuredtext rst
<b>text/scilab</b>	scilab
<b>text/smali</b>	smali
<b>text/swig</b>	swig
<b>text/troff</b>	groff man nroff
<b>text/x-abap</b>	abap
<b>text/x-ada</b>	ada ada95ada2005 adb ads
<b>text/x-agda</b>	agda
<b>text/x-apacheconf</b>	aconf apache apacheconf
<b>text/x-asp</b>	asp
<b>text/x-aspectj</b>	aspectj
<b>text/x-asymptote</b>	asy asymptote
<b>text/x-autohotkey</b>	ahk autohotkey
<b>text/x-autoit</b>	autoit
<b>text/x-bb</b>	b3d blitzbasic bplus
<b>text/x-bbcode</b>	bbcode
<b>text/x-bmx</b>	blitzmax bmax
<b>text/x-boo</b>	boo
<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-c-objdump</b>	c-objdump
<b>text/x-ceylon</b>	ceylon
<b>text/x-chdr</b>	chdr h
<b>text/x-cirru</b>	cirru
<b>text/x-clay</b>	clay
<b>text/x-cmake</b>	cmake
<b>text/x-cobol</b>	cobol

<b>text/x-common-lisp</b>	cl common-lisp elisp emacs lisp
<b>text/x-coq</b>	coq
<b>text/x-cpp-objdump</b>	c++-objdumb cpp-objdump cxx-objdump
<b>text/x-crocsrc</b>	croc
<b>text/x-csharp</b>	C# c# cs csharp
<b>text/x-csrc</b>	c csrc xs
<b>text/x-cuda</b>	cu cuda
<b>text/x-d-objdump</b>	d-objdump
<b>text/x-dart</b>	dart
<b>text/x-dg</b>	dg
<b>text/x-diff</b>	patch
<b>text/x-dsrc</b>	d
<b>text/x-dylan</b>	dylan
<b>text/x-dylan-console</b>	dylan-console dylan-repl
<b>text/x-dylan-lid</b>	dylan-lid lid
<b>text/x-ebnf</b>	ebnf
<b>text/x-ecsrc</b>	ec
<b>text/x-eiffel</b>	e eiffel
<b>text/x-elisp</b>	el
<b>text/x-elixir</b>	elixir ex exs
<b>text/x-elixir-shellsession</b>	iex
<b>text/x-erl-shellsession</b>	erl
<b>text/x-erlang</b>	erlang
<b>text/x-factor</b>	factor
<b>text/x-fancysrc</b>	fancy fy
<b>text/x-felix</b>	felix flx
<b>text/x-fortran</b>	f fortran
<b>text/x-fsharp</b>	fsharp
<b>text/x-gas</b>	asm gas
<b>text/x-genshi</b>	genshitext
<b>text/x-gherkin</b>	cucumber gherkin
<b>text/x-glslsrc</b>	glsl
<b>text/x-gnuplot</b>	gnuplot
<b>text/x-gooddata-cl</b>	gooddata-cl
<b>text/x-gosrc</b>	go
<b>text/x-gosu</b>	gosu
<b>text/x-gosu-template</b>	gst
<b>text/x-groovy</b>	groovy
<b>text/x-haml</b>	haml
<b>text/x-haskell</b>	haskell hs
<b>text/x-hx</b>	haxe hx hxsl
<b>text/x-idl</b>	ice
<b>text/x-idris</b>	idr idris
<b>text/x-inf</b>	inf

<code>text/x-ini</code>	cfg dosini ini
<code>text/x-iokesrc</code>	ik ioke
<code>text/x-iosrc</code>	io
<code>text/x-irclog</code>	irc
<code>text/x-jade</code>	jade
<code>text/x-java</code>	java
<code>text/x-java-properties</code>	jproperties properties
<code>text/x-jbst</code>	duel jbst jsonml+bst
<code>text/x-kconfig</code>	kconfig kernel-config linux-config menuconfig
<code>text/x-koka</code>	koka
<code>text/x-kotlin</code>	kotlin
<code>text/x-lasso</code>	lasso lassoscript
<code>text/x-latex</code>	latex tex
<code>text/x-lighttpd-conf</code>	lighttpd lighty
<code>text/x-literate-agda</code>	lagda literate-agda
<code>text/x-literate-haskell</code>	lhaskell lhs literate-haskell
<code>text/x-literate-idris</code>	lidr lidris literate-idris
<code>text/x-llvm</code>	llvm
<code>text/x-logos</code>	logos
<code>text/x-logtalk</code>	logtalk
<code>text/x-m4</code>	m4
<code>text/x-mail</code>	mail
<code>text/x-makefile</code>	GNUMakefile Makefile bsdmake make makefile mf mk
<code>text/x-mask</code>	mask
<code>text/x-minidsrc</code>	minid
<code>text/x-modelica</code>	modelica
<code>text/x-modula2</code>	m2 modula2
<code>text/x-monkey</code>	monkey
<code>text/x-moocode</code>	moo moocode
<code>text/x-mq1</code>	mq4 mq5 mq1 mq14 mq15
<code>text/x-mysql</code>	mysql
<code>text/x-nasm</code>	nasm
<code>text/x-nasm-objdump</code>	objdump-nasm
<code>text/x-nemerle</code>	nemerle
<code>text/x-nescsrc</code>	nesc
<code>text/x-newspeak</code>	newspeak
<code>text/x-nginx-conf</code>	nginx
<code>text/x-nimrod</code>	nim nimrod
<code>text/x-nix</code>	nix nixos
<code>text/x-nsis</code>	nsh nsi nsis
<code>text/x-objc</code>	m mm
<code>text/x-objdump</code>	objdump
<code>text/x-objective-c</code>	obj-c objc objective-c objectivec

<b>text/x-objc++</b>	obj-c++ objc++ objective-c++ objectivec++
<b>text/x-objective-j</b>	obj-j objective-j objectivej objj
<b>text/x-ocaml</b>	ml mli ocaml
<b>text/x-ooc</b>	ooc
<b>text/x-opa</b>	opa
<b>text/x-pascal</b>	delphi objectpascal pas pascal
<b>text/x-patch</b>	diff udiff
<b>text/x-perl</b>	PL pm
<b>text/x-php</b>	php php3 php4 php5
<b>text/x-pike</b>	pike
<b>text/x-plpgsql</b>	plpgsql
<b>text/x-postgresql</b>	postgres postgresql
<b>text/x-postgresql-psql</b>	postgres-console postgresql-console psql
<b>text/x-povray</b>	pov
<b>text/x-powershell</b>	posh powershell ps1 psm1
<b>text/x-prolog</b>	prolog
<b>text/x-ppsp</b>	psp
<b>text/x-python-doctest</b>	pycon
<b>text/x-python-raise</b>	pytb
<b>text/x-python3-raise</b>	py3tb
<b>text/x-r-doc</b>	rd
<b>text/x-r-profile</b>	r s rplus
<b>text/x-rebol</b>	rebol
<b>text/x-rexx</b>	arexx rexx
<b>text/x-rfc</b>	rfc
<b>text/x-robotframework</b>	robotframework
<b>text/x-rpm-spec</b>	spec
<b>text/x-ruby-shellsession</b>	irb rbcon
<b>text/x-rustsrc</b>	rust
<b>text/x-sass</b>	sass
<b>text/x-scala</b>	scala
<b>text/x-scaml</b>	scaml
<b>text/x-scss</b>	scss
<b>text/x-smalltalk</b>	smalltalk squeak st
<b>text/x-snobol</b>	snobol
<b>text/x-sourcepawn</b>	sp
<b>text/x-sql</b>	sql
<b>text/x-sqlite3-console</b>	sqlite3
<b>text/x-squidconf</b>	squid squid.conf squidconf
<b>text/x-systemverilog</b>	sv systemverilog
<b>text/x-tea</b>	tea
<b>text/x-textile</b>	textile txtl
<b>text/x-trac-wiki</b>	moin trac-wiki
<b>text/x-typescript</b>	ts

<code>text/x-vala</code>	vala vapi
<code>text/x-vba</code>	bas vb vb.net vba vbnet
<code>text/x-verilog</code>	v verilog
<code>text/x-vhdl</code>	vhd vhdl
<code>text/x-vim</code>	vim
<code>text/x-windows-registry</code>	registry
<code>text/x-xtend</code>	xtend
<code>text/x-yaml</code>	yaml
<code>text/x-zsh</code>	zsh

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#		? <sup>(1)</sup>	?
C++	?	?	?
CMake	?	?	?
Java	? <sup>(2)</sup>	?	?
Awk		?	
Boo			?
CSS	?		?
Python Doctests			?
Diff		?	?
Eiffel		?	
Elisp		?	

Fortran		? <u>(1)</u>	?
Haskell		?	?
Genshi			?
HTML	?	?	?
IDL		?	
INI			?
Javascript	?	?	?
Lua			?
m4		?	
Makefile		?	?
Mako			?
Matlab <u>(3)</u>		?	?
Mygthy			?
Objective-C		?	?
OCaml			?
Pascal		?	?
Perl	?	?	?
PHP	?		?
PSP	?		
Pyrex		?	
Python	?	?	?
Ruby	?	? <u>(1)</u>	?
Scheme		?	?
Shell		?	?
Smarty			?
SQL	?	?	?
Troff		?	?
TCL		?	
Tex		?	?
Verilog	? <u>(2)</u>	?	
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>

- 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/)
- 

See also: [WikiProcessors](#), [WikiFormatting](#), [TracWiki](#), [TracBrowser](#)