

# 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It's very likely that the list below is outdated because the list of supported pygments lexers is growing weekly.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/json-object</code>	json-object
<code>application/kal</code>	kal
<code>application/ld+json</code>	json-ld jsonld
<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/sparql-query</code>	sparql
<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

## MIME Types

## WikiProcessors

<b>application/x-chaiscript</b>	chai chaiscript
<b>application/x-clojure</b>	clj clojure
<b>application/x-clojurescript</b>	cljs clojurescript
<b>application/x-coldfusion</b>	cfm
<b>application/x-csh</b>	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-elisp</b>	elisp emacs emacs-lisp
<b>application/x-evoque</b>	evoque
<b>application/x-fantom</b>	fan
<b>application/x-fish</b>	fish fishshell
<b>application/x-forth</b>	forth
<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>	jl 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-python2</b>	py2 python2
<b>application/x-python3</b>	py py3 python python3 sage
<b>application/x-qt.qbs+qml</b>	qbs 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-sas</b>	sas
<b>application/x-scheme</b>	scheme scm
<b>application/x-sh-session</b>	console shell-session
<b>application/x-shen</b>	shen

## MIME Types

## WikiProcessors

<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-stata</b>	do stata
<b>application/x-tcl</b>	tcl
<b>application/x-terraform</b>	terraform tf
<b>application/x-thrift</b>	thrift
<b>application/x-troff</b>	roff troff
<b>application/x-turtle</b>	turtle
<b>application/x-twig</b>	twig
<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>message/rfc822</b>	email eml
<b>model/vrml</b>	vrml wrl
<b>multipart/alternative</b>	mime
<b>text/actionscript</b>	actionscript as
<b>text/actionscript3</b>	actionscript3 as3
<b>text/basic</b>	basic qbasic
<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

## MIME Types

## WikiProcessors

<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+twig</b>	html+twig
<b>text/html+velocity</b>	html+velocity
<b>text/idl</b>	idl
<b>text/inf</b>	cfg dosini ini
<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+myghty js+myghty
<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/jsgf</b>	jsgf
<b>text/juttle</b>	juttle
<b>text/limbo</b>	limbo
<b>text/livescript</b>	live-script livescript
<b>text/matlab</b>	matlab
<b>text/ncl</b>	ncl
<b>text/octave</b>	octave
<b>text/odin</b>	odin
<b>text/plain</b>	AUTHORS COPYING ChangeLog INSTALL README RELEASE TXT text txt
<b>text/prs.fallenstein.rst</b>	rest restructuredtext rst
<b>text/rsl</b>	rsl

<b>MIME Types</b>	<b><u>WikiProcessors</u></b>
<b>text/rust</b>	rs rust
<b>text/scilab</b>	scilab
<b>text/shex</b>	shex shexc
<b>text/smali</b>	smali
<b>text/supercollider</b>	sc supercollider
<b>text/swig</b>	swig
<b>text/troff</b>	groff man nroff
<b>text/unicon</b>	unicon
<b>text/x-abap</b>	abap
<b>text/x-abnf</b>	abnf
<b>text/x-ada</b>	ada ada2005 ada95 adb ads
<b>text/x-agda</b>	agda
<b>text/x-alloy</b>	alloy
<b>text/x-ambienttalk</b>	ambienttalk ambienttalk/2 at
<b>text/x-apacheconf</b>	aconf apache apacheconf
<b>text/x-arduino</b>	arduino
<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-bibtex</b>	bib bibtex
<b>text/x-bmx</b>	blitzmax bmax
<b>text/x-bnf</b>	bnf
<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 lisp
<b>text/x-component-pascal</b>	componentpascal cp
<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-cryptol</b>	cry cryptol
<b>text/x-crystal</b>	cr crystal

## MIME Types

## WikiProcessors

<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-dasm16</b>	dasm16
<b>text/x-dg</b>	dg
<b>text/x-diff</b>	patch
<b>text/x-dockerfile-config</b>	docker dockerfile
<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-earl-grey</b>	earl-grey earlgrey eg
<b>text/x-easytrieve</b>	easytrieve
<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-elm</b>	elm
<b>text/x-erl-shellsession</b>	erl
<b>text/x-erlang</b>	erlang
<b>text/x-eznil</b>	eznil
<b>text/x-factor</b>	factor
<b>text/x-fancysrc</b>	fancy fy
<b>text/x-felix</b>	felix flx
<b>text/x-flatline</b>	flatline
<b>text/x-fortran</b>	f fortran
<b>text/x-freefem</b>	freefem
<b>text/x-fsharp</b>	f# 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>	gls
<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

## MIME Types

## WikiProcessors

<b>text/x-handlebars-template</b>	html+handlebars
<b>text/x-haskell</b>	haskell hs
<b>text/x-hlsl</b>	hlsl
<b>text/x-hsail</b>	hsa hsail
<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
<b>text/x-iokesrc</b>	ik ioke
<b>text/x-iosrc</b>	io
<b>text/x-irclog</b>	irc
<b>text/x-isabelle</b>	isabelle
<b>text/x-j</b>	j
<b>text/x-jade</b>	jade pug
<b>text/x-java</b>	java
<b>text/x-java-properties</b>	jproperties properties
<b>text/x-jbst</b>	duel jbst jsonml+bst
<b>text/x-jcl</b>	jcl
<b>text/x-kconfig</b>	kconfig kernel-config linux-config menuconfig
<b>text/x-koka</b>	koka
<b>text/x-kotlin</b>	kotlin
<b>text/x-lasso</b>	lasso lassoscript
<b>text/x-latex</b>	latex tex
<b>text/x-lean</b>	lean
<b>text/x-less-css</b>	less
<b>text/x-lighttpd-conf</b>	lighttpd lighty
<b>text/x-literate-agda</b>	lagda literate-agda
<b>text/x-literate-cryptol</b>	lcry lcryptol literate-cryptol
<b>text/x-literate-haskell</b>	lhaskell lhs literate-haskell
<b>text/x-literate-idris</b>	lidr lidris literate-idris
<b>text/x-llvm</b>	llvm
<b>text/x-logos</b>	logos
<b>text/x-logtalk</b>	logtalk
<b>text/x-lsl</b>	lsl
<b>text/x-m4</b>	m4
<b>text/x-mail</b>	mail
<b>text/x-makefile</b>	GNUMakefile Makefile bsdmake make makefile mf mk
<b>text/x-markdown</b>	md
<b>text/x-mask</b>	mask
<b>text/x-minidsrc</b>	minid
<b>text/x-modelica</b>	modelica
<b>text/x-modula2</b>	m2 modula2

## MIME Types

## WikiProcessors

<b>text/x-monkey</b>	monkey
<b>text/x-moocode</b>	moo moocode
<b>text/x-mql</b>	mql4 mql5 mql mql4 mql5
<b>text/x-mysql</b>	mysql
<b>text/x-nasm</b>	nasm
<b>text/x-nasm-objdump</b>	objdump-nasm
<b>text/x-nemerle</b>	nemerle
<b>text/x-nescsrc</b>	nesc
<b>text/x-newspeak</b>	newspeak
<b>text/x-nginx-conf</b>	nginx nginx-conf
<b>text/x-nim</b>	nim nimrod
<b>text/x-nix</b>	nix nixos
<b>text/x-nsis</b>	nsh nsi nsis
<b>text/x-objc</b>	m mm
<b>text/x-objdump</b>	objdump
<b>text/x-objective-c</b>	obj-c objc objective-c objectivec
<b>text/x-objective-c++</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-parasail</b>	parasail
<b>text/x-pascal</b>	delphi objectpascal pas pascal
<b>text/x-patch</b>	diff udiff
<b>text/x-pawn</b>	pawn
<b>text/x-perl</b>	PL pm
<b>text/x-php</b>	php php3 php4 php5
<b>text/x-pig</b>	pig
<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>	ppsp
<b>text/x-python-doctest</b>	pycon python-doctest
<b>text/x-python2-traceback</b>	py2tb
<b>text/x-python3-traceback</b>	py3tb pytb
<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-red-system</b>	red red/system



## MIME Types

## WikiProcessors

<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-rql</b>	rql
<b>text/x-ruby-shellsession</b>	irb rbcon
<b>text/x-sarl</b>	sarl
<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-shellscript</b>	bash ksh sh shell zsh
<b>text/x-slim</b>	slim
<b>text/x-sls</b>	salt sls yaml+jinja
<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-swift</b>	swift
<b>text/x-systemverilog</b>	sv systemverilog
<b>text/x-tasm</b>	tasm
<b>text/x-tea</b>	tea
<b>text/x-teratermmacro</b>	teraterm teratermmacro ttl
<b>text/x-textile</b>	textile txtl
<b>text/x-todo</b>	todotxt
<b>text/x-trac-wiki</b>	moin trac-wiki
<b>text/x-tsql</b>	t-sql tsql
<b>text/x-typescript</b>	ts typescript
<b>text/x-typoscript</b>	typoscript
<b>text/x-vala</b>	vala vapi
<b>text/x-vba</b>	bas vb vb.net vba vbnet
<b>text/x-vclsnippet</b>	vclsnippet vclsnippets
<b>text/x-vclsrc</b>	vcl
<b>text/x-verilog</b>	v verilog
<b>text/x-vhdl</b>	vhd vhdl
<b>text/x-vim</b>	vim
<b>text/x-whiley</b>	whiley
<b>text/x-windows-registry</b>	registry
<b>text/x-x10</b>	x10 xten
<b>text/x-xtend</b>	xtend
<b>text/x-yaml</b>	yaml

## 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++	?	?	?
Java	? <u>(2)</u>	?	?
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	?	?	?

	SilverCity	Enscript	Pygments
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](#)