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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](#), 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, and has an [unsupported version](#) on Windows; use is deprecated.
- [SilverCity](#), legacy system, some versions can be problematic; use is deprecated.

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

About Pygments

Pygments is 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 your [TracIni](#) file. The default style can be overridden by setting a Style preference on the [preferences page](#).

The list below contains only the most commonly used processors and the [list of supported Pygments lexers](#) is growing weekly.

Syntax Coloring Support

Known MIME Types

MIME Types	WikiProcessors
<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

MIME Types

WikiProcessors

application/pdf	pdf
application/postscript	postscr postscript ps
application/rss+xml	rss
application/rtf	rtf
application/sparql-query	sparql
application/vnd.wolfram.cdf	mathematica mma nb
application/x-awk	awk gawk mawk nawk
application/x-befunge	befunge
application/x-brainfuck	bf brainfuck
application/x-chaiscript	chai chaiscript
application/x-clojure	clj clojure
application/x-clojurescript	cljs clojurescript
application/x-coldfusion	cfm
application/x-csh	csh tcsh
application/x-cython	cython pyrex pyx
application/x-dos-batch	bat batch cmd dos dosbatch winbatch
application/x-ecl	ecl
application/x-elisp	elisp emacs emacs-lisp
application/x-evoque	evoque
application/x-fantom	fan
application/x-fish	fish fishshell
application/x-forth	forth
application/x-gooddata-maql	maql
application/x-httpd-lasso [89]	html+lasso
application/x-httpd-php5	html+php
application/x-hy	hylang
application/x-hybris	hy hybris
application/x-jinja	django jinja
application/x-jsp	jsp
application/x-julia	j1 julia
application/x-kid	genshi kid xml+genshi xml+kid
application/x-lua	lua
application/x-mako	mako
application/x-mason	mason
application/x-moonscript	moon moonscript
application/x-myghty	myghty
application/x-newlisp	newlisp
application/x-openedge	abl openedge progress
application/x-perl	perl pl

MIME Types

WikiProcessors

application/x-perl6	perl6 pl6
application/x-pygments-tokens	raw
application/x-pypylog	pypy pypylog
application/x-python2	py2 python2
application/x-python3	py py3 python python3 sage
application/x-qt.qbs+qml	qbs qml
application/x-racket	racket rkt
application/x-ruby	duby rb ruby
application/x-ruby-templating	erb
application/x-sas	sas
application/x-scheme	scheme scm
application/x-sh-session	console shell-session
application/x-shen	shen
application/x-smarty	smarty
application/x-spitfire	cheetah spitfire
application/x-ssp	ssp
application/x-standardml	sml
application/x-stata	do stata
application/x-tcl	tcl
application/x-terraform	terraform tf
application/x-thrift	thrift
application/x-troff	roff troff
application/x-turtle	turtle
application/x-twig	twig
application/x-urbiscript	urbiscript
application/x-yaml	yml
application/xhtml+xml	html
application/xml+evoque	xml+evoque
application/xml+jinja	xml+django xml+jinja
application/xml+lasso	xml+lasso
application/xml+mako	xml+mako
application/xml+myghty	xml+myghty
application/xml+php	xml+php
application/xml+ruby	xml+erb xml+ruby
application/xml+smarty	xml+smarty
application/xml+spitfire	xml+cheetah xml+spitfire
application/xml+velocity	xml+velocity
application/xml-dtd	dtd
application/xquery	xq xql xqm xquery xqy

MIME Types

WikiProcessors

application/xsl+xml	xsl
application/xslt+xml	xslt
image/svg+xml	svg
image/x-icon	ico
message/rfc822	email eml
model/vrml	vrml wrl
multipart/alternative	mime
text/actionscript	actionscript as
text/actionscript3	actionscript3 as3
text/basic	basic qbasic
text/coffeescript	coffee coffee-script coffeescript
text/css	css
text/css+genshi	css+genshi css+genshitext
text/css+jinja	css+django css+jinja
text/css+lasso	css+lasso
text/css+mako	css+mako
text/css+myghty	css+myghty
text/css+php	css+php
text/css+ruby	css+erb css+ruby
text/css+smarty	css+smarty
text/gettext	po pot
text/html	htm
text/html+evoque	html+evoque
text/html+genshi	html+genshi html+kid
text/html+jinja	html+django html+jinja htmdldjango
text/html+mako	html+mako
text/html+myghty	html+myghty
text/html+ruby	html+erb html+ruby rhtml
text/html+smarty	html+smarty
text/html+spitfire	html+cheetah html+spitfire htmlcheetah
text/html+twig	html+twig
text/html+velocity	html+velocity
text/idl	idl
text/inf	cfg dosini ini
text/ipf	igor igorpro
text/javascript	javascript js
text/javascript+genshi	javascript+genshi javascript+genshitext js+genshi js+genshitext
text/javascript+jinja	javascript+django javascript+jinja js+django js+jinja

MIME Types

text/javascript+lasso
text/javascript+mako
text/javascript+mygthy
text/javascript+php
text/javascript+ruby
text/javascript+smarty
text/javascript+spitfire

text/jsgf
text/juttle
text/limbo
text/livescript
text/matlab
text/ncl
text/octave
text/odin

text/plain

text/prs.fallenstein.rst
text/rsl
text/rust
text/scilab
text/shex
text/smali
text/supercollider
text/swig
text/troff
text/unicon
text/x-abap
text/x-abnf
text/x-ada
text/x-agda
text/x-alloy
text/x-ambienttalk
text/x-apacheconf
text/x-arduino
text/x-asp
text/x-aspectj
text/x-asymptote
text/x-autohotkey

WikiProcessors

javascript+lasso js+lasso
javascript+mako js+mako
javascript+mygthy js+mygthy
javascript+php js+php
javascript+erb javascript+ruby js+erb js+ruby
javascript+smarty js+smarty
javascript+cheetah javascript+spitfire
js+cheetah js+spitfire

jsgf
juttle
limbo
live-script livescript
matlab
ncl
octave
odin

AUTHORS COPYING ChangeLog INSTALL README
RELEASE TXT text txt

rest restructuredtext rst
rsl
rs rust
scilab
shex shexc
smali
sc supercollider
swig
groff man nroff
unicon
abap
abnf
ada ada2005 ada95 adb ads
agda
alloy
ambienttalk ambienttalk/2 at
aconf apache apacheconf
arduino
asp
aspectj
asy asymptote
ahk autohotkey

MIME Types

WikiProcessors

<code>text/x-autoit</code>	autoit
<code>text/x-bb</code>	b3d blitzbasic bplus
<code>text/x-bbcode</code>	bbcode
<code>text/x-bibtex</code>	bib bibtex
<code>text/x-bmx</code>	blitzmax bmax
<code>text/x-bnf</code>	bnf
<code>text/x-boo</code>	boo
<code>text/x-c++hdr</code>	H HH c++hdr hh hpp
<code>text/x-c++src</code>	C C++ CC c++ c++src cc cpp
<code>text/x-c-objdump</code>	c-objdump
<code>text/x-ceylon</code>	ceylon
<code>text/x-chdr</code>	chdr h
<code>text/x-cirru</code>	cirru
<code>text/x-clay</code>	clay
<code>text/x-cmake</code>	cmake
<code>text/x-cobol</code>	cobol
<code>text/x-common-lisp</code>	cl common-lisp lisp
<code>text/x-component-pascal</code>	componentpascal cp
<code>text/x-coq</code>	coq
<code>text/x-cpp-objdump</code>	c++-objdumb cpp-objdump cxx-objdump
<code>text/x-crocsrc</code>	croc
<code>text/x-cryptol</code>	cry cryptol
<code>text/x-crystal</code>	cr crystal
<code>text/x-csharp</code>	C# c# cs csharp
<code>text/x-csrc</code>	c csrc xs
<code>text/x-cuda</code>	cu cuda
<code>text/x-d-objdump</code>	d-objdump
<code>text/x-dart</code>	dart
<code>text/x-dasm16</code>	dasm16
<code>text/x-dg</code>	dg
<code>text/x-diff</code>	patch
<code>text/x-dockerfile-config</code>	docker dockerfile
<code>text/x-dsrc</code>	d
<code>text/x-dylan</code>	dylan
<code>text/x-dylan-console</code>	dylan-console dylan-repl
<code>text/x-dylan-lid</code>	dylan-lid lid
<code>text/x-earl-grey</code>	earl-grey earlgrey eg
<code>text/x-easytrieve</code>	easytrieve
<code>text/x-ebnf</code>	ebnf

MIME Types

WikiProcessors

<code>text/x-ecsrc</code>	<code>ec</code>
<code>text/x-eiffel</code>	<code>e eiffel</code>
<code>text/x-elisp</code>	<code>el</code>
<code>text/x-elixir</code>	<code>elixir ex eks</code>
<code>text/x-elixir-shellsession</code>	<code>iex</code>
<code>text/x-elm</code>	<code>elm</code>
<code>text/x-erl-shellsession</code>	<code>erl</code>
<code>text/x-erlang</code>	<code>erlang</code>
<code>text/x-ezhil</code>	<code>ezhil</code>
<code>text/x-factor</code>	<code>factor</code>
<code>text/x-fancysrc</code>	<code>fancy fy</code>
<code>text/x-felix</code>	<code>felix flx</code>
<code>text/x-flatline</code>	<code>flatline</code>
<code>text/x-fortran</code>	<code>f fortran</code>
<code>text/x-freefem</code>	<code>freefem</code>
<code>text/x-fsharp</code>	<code>f# fsharp</code>
<code>text/x-gas</code>	<code>asm gas</code>
<code>text/x-genshi</code>	<code>genshitext</code>
<code>text/x-gherkin</code>	<code>cucumber gherkin</code>
<code>text/x-glslsrc</code>	<code>glsl</code>
<code>text/x-gnuplot</code>	<code>gnuplot</code>
<code>text/x-gooddata-cl</code>	<code>gooddata-cl</code>
<code>text/x-gosrc</code>	<code>go</code>
<code>text/x-gosu</code>	<code>gosu</code>
<code>text/x-gosu-template</code>	<code>gst</code>
<code>text/x-groovy</code>	<code>groovy</code>
<code>text/x-haml</code>	<code>haml</code>
<code>text/x-handlebars-template</code>	<code>html+handlebars</code>
<code>text/x-haskell</code>	<code>haskell hs</code>
<code>text/x-hlsl</code>	<code>hlsl</code>
<code>text/x-hsail</code>	<code>hsa hsail</code>
<code>text/x-hx</code>	<code>haxe hx hxsl</code>
<code>text/x-idl</code>	<code>ice</code>
<code>text/x-idris</code>	<code>idr idris</code>
<code>text/x-inf</code>	<code>inf</code>
<code>text/x-iokesrc</code>	<code>ik ioke</code>
<code>text/x-iosrc</code>	<code>io</code>
<code>text/x-irclog</code>	<code>irc</code>
<code>text/x-isabelle</code>	<code>isabelle</code>

MIME Types	<u>WikiProcessors</u>
text/x-j	j
text/x-jade	jade pug
text/x-java	java
text/x-java-properties	jproperties properties
text/x-jbst	duel jbst jsonml+bst
text/x-jcl	jcl
text/x-kconfig	kconfig kernel-config linux-config menuconfig
text/x-koka	koka
text/x-kotlin	kotlin
text/x-lasso	lasso lassoscript
text/x-latex	latex tex
text/x-lean	lean
text/x-less-css	less
text/x-lighttpd-conf	lighttpd lighty
text/x-literate-agda	lagda literate-agda
text/x-literate-cryptol	lcry lcryptol literate-cryptol
text/x-literate-haskell	lhaskell lhs literate-haskell
text/x-literate-idris	lidr lidris literate-idris
text/x-llvm	llvm
text/x-logos	logos
text/x-logtalk	logtalk
text/x-lsl	lsl
text/x-m4	m4
text/x-mail	mail
text/x-makefile	GNUMakefile Makefile bsdmake make makefile mf mk
text/x-markdown	md
text/x-mask	mask
text/x-minidsrc	minid
text/x-modelica	modelica
text/x-modula2	m2 modula2
text/x-monkey	monkey
text/x-moocode	moo moocode
text/x-mq1	mq4 mq5 mql mql4 mql5
text/x-mysql	mysql
text/x-nasm	nasm
text/x-nasm-objdump	objdump-nasm
text/x-nemerle	nemerle
text/x-nescsrc	nesc
text/x-newspeak	newspeak

MIME Types

WikiProcessors

text/x-nginx-conf	nginx nginx-conf
text/x-nim	nim nimrod
text/x-nix	nix nixos
text/x-nsis	nsh nsi nsis
text/x-objc	m mm
text/x-objdump	objdump
text/x-objective-c	obj-c objc objective-c objectivec
text/x-objective-c++	obj-c++ objc++ objective-c++ objectivec++
text/x-objective-j	obj-j objective-j objectivej objj
text/x-ocaml	ml mli ocaml
text/x-ooc	ooc
text/x-opa	opa
text/x-parasail	parasail
text/x-pascal	delphi objectpascal pas pascal
text/x-patch	diff udiff
text/x-pawn	pawn
text/x-perl	PL pm
text/x-php	php php3 php4 php5
text/x-pig	pig
text/x-pike	pike
text/x-plpgsql	plpgsql
text/x-postgresql	postgres postgresql
text/x-postgresql-psql	postgres-console postgresql-console psql
text/x-povray	pov
text/x-powershell	posh powershell ps1 psml
text/x-prolog	prolog
text/x-ppsp	ppsp
text/x-python-doctest	pycon python-doctest
text/x-python2-traceback	py2tb
text/x-python3-traceback	py3tb pytb
text/x-r-doc	rd
text/x-r-profile	r s rplus
text/x-rebol	rebol
text/x-red-system	red red/system
text/x-rexx	arexx rexx
text/x-rfc	rfc
text/x-robotframework	robotframework
text/x-rpm-spec	spec
text/x-rql	rql

MIME Types

WikiProcessors

text/x-ruby-shellsession	irb rbcon
text/x-sarl	sarl
text/x-sass	sass
text/x-scala	scala
text/x-scaml	scaml
text/x-scss	scss
text/x-shellscript	bash ksh sh shell zsh
text/x-slim	slim
text/x-sls	salt sls yaml+jinja
text/x-smalltalk	smalltalk squeak st
text/x-snobol	snobol
text/x-sourcepawn	sp
text/x-sql	sql
text/x-sqlite3-console	sqlite3
text/x-squidconf	squid squid.conf squidconf
text/x-swift	swift
text/x-systemverilog	sv systemverilog
text/x-tasm	tasm
text/x-tea	tea
text/x-teratermmacro	teraterm teratermmacro ttl
text/x-textile	textile txtl
text/x-todo	todotxt
text/x-trac-wiki	moin trac-wiki
text/x-tsql	t-sql tsql
text/x-typescript	ts typescript
text/x-typoscript	typoscript
text/x-vala	vala vapi
text/x-vba	bas vb vb.net vba vbnet
text/x-vclsnippet	vclsnippet vclsnippets
text/x-vclsrc	vcl
text/x-verilog	v verilog
text/x-vhdl	vhd vhdl
text/x-vim	vim
text/x-whiley	whiley
text/x-windows-registry	registry
text/x-x10	x10 xten
text/x-xtend	xtend
text/x-yaml	yaml
text/zig	zig

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.

Similarly, 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 your `TracIni` file. 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 a mimetype property such as `svn:mime-type` is set to `text/plain`, there is no coloring even if the file is of a 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>?</u> (1)	?
C++	?	?	?
CMake	?	?	?
Java	<u>?</u> (2)	?	?
Awk		?	
Boo			?
CSS	?		?
Python Doctests			?
Diff		?	?
Eiffel		?	
Elisp		?	
Fortran		<u>?</u> (1)	?
Haskell		?	?
Genshi			?
HTML	?	?	?
IDL		?	
INI			?

	SilverCity	Enscript	Pygments
Javascript	?	?	?
Lua			?
m4		?	
Makefile		?	?
Mako			?
Matlab ⁽³⁾		?	?
Mygthy			?
Objective-C		?	?
OCaml			?
Pascal		?	?
Perl	?	?	?
PHP	?		?
PSP	?		
Pyrex		?	
Python	?	?	?
Ruby	?	? ⁽¹⁾	?
Scheme		?	?
Shell		?	?
Smarty			?
SQL	?	?	?
Troff		?	?
TCL		?	
Tex		?	?
Verilog	? ⁽²⁾	?	
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](#).

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