

# 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](#). Syntax coloring is provided using [Pygments](#), which covers a wide range of programming languages and other structured texts, and is actively supported. If Pygments is not available, Trac will display the content 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 trac.ini. The default style can be overridden by setting a *Style* preference on the [preferences page](#).

[Pygments lexer](#) options can be specified as [WikiProcessor](#) arguments and defaults can be set in the [environment configuration](#).

## Syntax Coloring Support

### Supported languages

The list of currently supported languages can be found on the [supported languages](#) page. The list represents the languages supported in the most recent version of Pygments, so the languages actually supported in your installation could differ if you have an older version installed. The listing of [supported lexers](#) provides additional information about the default mime type to keyword mappings.

Explicit control of the mime type associated with a [WikiProcessor](#) and file extension is available through the `mime_map` setting. For example, by default `.m` files are considered Objective-C files. In order to treat `.m` files as MATLAB files, add `text/matlab:m` to the [mimeviewer](#) `mime_map` option.

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

### Direct Rendering

Rich content may be directly *rendered* instead of syntax highlighted. This usually depends on which auxiliary packages are installed and 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. It 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. If you want to ensure that an HTML document gets syntax highlighted and not rendered, use the `text/xml` `mimetype`.

HTML documents are directly rendered only if the `render_unsafe_html` settings are enabled in your [TracIni](#) file. See [\[attachment\] render\\_unsafe\\_content](#), [\[browser\] render\\_unsafe\\_content](#) and [\[wiki\] render\\_unsafe\\_content](#).

The setting is present in multiple sections because there are different security concerns depending on where the document comes from.

## Known MIME types

<b>MIME Types</b>	<b><u>WikiProcessors</u></b>
<b>application/atom+xml</b>	xml
<b>application/json</b>	json
<b>application/json-object</b>	json-object
<b>application/kal</b>	kal
<b>application/ld+json</b>	json-ld jsonld
<b>application/msword</b>	doc dot
<b>application/pdf</b>	pdf
<b>application/postscript</b>	postscr postscript ps
<b>application/rss+xml</b>	rss
<b>application/rtf</b>	rtf
<b>application/sparql-query</b>	sparql
<b>application/vnd.wolfram.cdf</b>	mathematica mma nb
<b>application/x-awk</b>	awk gawk mawk nawk
<b>application/x-befunge</b>	befunge
<b>application/x-brainfuck</b>	bf brainfuck
<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

## MIME Types

## WikiProcessors

<code>application/x-julia</code>	<code>jl julia</code>
<code>application/x-kid</code>	<code>genshi kid xml+genshi xml+kid</code>
<code>application/x-lua</code>	<code>lua</code>
<code>application/x-mako</code>	<code>mako</code>
<code>application/x-mason</code>	<code>mason</code>
<code>application/x-moonscript</code>	<code>moon moonscript</code>
<code>application/x-myghty</code>	<code>myghty</code>
<code>application/x-newlisp</code>	<code>newlisp</code>
<code>application/x-openedge</code>	<code>abl openedge progress</code>
<code>application/x-perl</code>	<code>perl pl</code>
<code>application/x-perl6</code>	<code>perl6 pl6</code>
<code>application/x-pygments-tokens</code>	<code>raw</code>
<code>application/x-pypylog</code>	<code>pypy pypylog</code>
<code>application/x-python2</code>	<code>py2 python2</code>
<code>application/x-python3</code>	<code>py py3 python python3 sage</code>
<code>application/x-qt.qbs+qml</code>	<code>qbs qml</code>
<code>application/x-racket</code>	<code>racket rkt</code>
<code>application/x-ruby</code>	<code>duby rb ruby</code>
<code>application/x-ruby-templating</code>	<code>erb</code>
<code>application/x-sas</code>	<code>sas</code>
<code>application/x-scheme</code>	<code>scheme scm</code>
<code>application/x-sh-session</code>	<code>console shell-session</code>
<code>application/x-shen</code>	<code>shen</code>
<code>application/x-smarty</code>	<code>smarty</code>
<code>application/x-spitfire</code>	<code>cheetah spitfire</code>
<code>application/x-ssp</code>	<code>ssp</code>
<code>application/x-standardml</code>	<code>sml</code>
<code>application/x-stata</code>	<code>do stata</code>
<code>application/x-tcl</code>	<code>tcl</code>
<code>application/x-terraform</code>	<code>terraform tf</code>
<code>application/x-thrift</code>	<code>thrift</code>
<code>application/x-troff</code>	<code>roff troff</code>
<code>application/x-turtle</code>	<code>turtle</code>
<code>application/x-twig</code>	<code>twig</code>
<code>application/x-urbiscript</code>	<code>urbiscript</code>
<code>application/x-yaml</code>	<code>yml</code>
<code>application/xhtml+xml</code>	<code>html</code>
<code>application/xml+evoque</code>	<code>xml+evoque</code>
<code>application/xml+jinja</code>	<code>xml+django xml+jinja</code>

## MIME Types

<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
<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

## WikiProcessors

## MIME Types

**text/html+spitfire**  
**text/html+twig**  
**text/html+velocity**  
**text/idl**  
**text/inf**  
**text/ipf**  
**text/javascript**  
**text/javascript+genshi**  
**text/javascript+jinja**  
**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/unicorn**  
**text/x-abap**

## WikiProcessors

html+cheetah html+spitfire htmlcheetah  
html+twig  
html+velocity  
idl  
cfg dosini ini  
igor igorpro  
javascript js  
javascript+genshi javascript+genshitext  
js+genshi js+genshitext  
javascript+django javascript+jinja js+django  
js+jinja  
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  
unicorn  
abap

<b>MIME Types</b>	<b><u>WikiProcessors</u></b>
<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
<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

## MIME Types

## WikiProcessors

<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 eks
<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-ezhil</b>	ezhil
<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>	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-handlebars-template</b>	html+handlebars

## MIME Types

## WikiProcessors

<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



## MIME Types

## WikiProcessors

<b>text/x-modelica</b>	modelica
<b>text/x-modula2</b>	m2 modula2
<b>text/x-monkey</b>	monkey
<b>text/x-moocode</b>	moo moocode
<b>text/x-mql</b>	mq4 mq5 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>	m1 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

## MIME Types

## WikiProcessors

<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 splus
<b>text/x-rebol</b>	rebol
<b>text/x-red-system</b>	red red/system
<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>MIME Types</b>	<b><u>WikiProcessors</u></b>
<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
<b>text/zig</b>	zig

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