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 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It's very likely that the list below is outdated because the list of supported pygments lexers is growing weekly.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	WikiProcessors
application/atom+xml	xml
application/json	json
application/msword	doc dot
application/pdf	pdf
application/postscript	postscript ps
application/rss+xml	rss
application/rtf	rtf
application/x-awk	awk gawk mawk nawk
application/x-befunge	befunge
application/x-brainfuck	bf brainfuck
application/x-clojure	clj clojure
application/x-coldfusion	cfm
application/x-csh	csh tcsh
application/x-cython	cython pyx
application/x-dos-batch	bat

application/x-ecl	ecl
application/x-evoque	evoque
application/x-fantom	fan
application/x-gooddata-maql	maql
application/x-httpd-lasso[89]	html+lasso
application/x-httpd-php5	html+php
application/x-hybris	hy hybris
application/x-jinja	django jinja
application/x-jsp	jsp
application/x-julia	jl 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
application/x-pygments-tokens	raw
application/x-pypylog	pypy pypylog
application/x-python	py python sage
application/x-python3	py3 python3
application/x-qml	Qt Meta Language Qt modeling Language qml
application/x-racket	racket rkt
application/x-ruby	duby rb ruby
application/x-ruby-templating	erb
application/x-scheme	scheme scm
application/x-sh-session	shell-session
application/x-shell-session	console
application/x-shellscript	bash ksh sh
application/x-smarty	smarty
application/x-spitfire	cheetah spitfire
application/x-ssp	ssp
application/x-standardml	sml
application/x-tcl	tcl
application/x-troff	roff troff
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
application/xsl+xml	xsl
application/xslt+xml	xslt
image/svg+xml	svg
image/x-icon	ico
model/vrml	vrml wrl
text/actionscript	actionscript3 as3
text/actionscript3	actionscript as
text/coffeescript	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/haxe	haXe hx
text/html	htm
text/html+evoque	html+evoque
text/html+genshi	html+genshi html+kid
text/html+jinja	html+django html+jinja
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
text/html+velocity	html+velocity
text/idl	idl
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
text/javascript+lasso	javascript+lasso js+lasso

text/javascript+mako	javascript+mako js+mako
text/javascript+mygthy	javascript+myghty js+myghty
text/javascript+php	javascript+php js+php
text/javascript+ruby	javascript+erb javascript+ruby js+erb js+ruby
text/javascript+smarty	javascript+smarty js+smarty
text/javascript+spitfire	javascript+cheetah javascript+spitfire js+cheetah js+spitfire
text/livescript	live-script livescript
text/matlab	matlab
text/octave	octave
text/plain	AUTHORS COPYING ChangeLog INSTALL README RELEASE TXT text txt
text/prs.fallenstein.rst	rest restructuredtext rst
text/scilab	scilab
text/smali	smali
text/troff	groff man nroff
text/x-abap	abap
text/x-ada	ada ada95ada2005 adb ads
text/x-apacheconf	aconf apache apacheconf
text/x-asm	asm
text/x-asp	asp
text/x-aspectj	aspectj
text/x-asymptote	asy asymptote
text/x-autohotkey	ahk
text/x-autoit	Autoit autoit
text/x-bbcode	bbcode
text/x-bmx	blitzmax bmax
text/x-boo	boo
text/x-c++hdr	H HH c++hdr hh hpp
text/x-c++src	C C++ CC c++ c++src cc cpp
text/x-c-objdump	c-objdump
text/x-ceylon	ceylon
text/x-chdr	chdr h
text/x-cmake	cmake
text/x-cobol	cobol
text/x-common-lisp	cl common-lisp
text/x-coq	coq
text/x-cpp-objdump	c++-objdumb cpp-objdump cxx-objdump
text/x-crocsrc	croc
text/x-csharp	C# c# cs csharp
text/x-csrc	c csrc xs
text/x-cuda	cu cuda
text/x-d-objdump	d-objdump
text/x-dart	dart

text/x-dg	dg
text/x-diff	patch
text/x-dsrc	d
text/x-dylan	dylan
text/x-dylan-console	dylan-console dylan-repl
text/x-dylan-lid	dylan-lid lid
text/x-ecsrc	ec
text/x-eiffel	e eiffel
text/x-elisp	el elisp
text/x-elixir	elixir ex exs
text/x-elixir-shellsession	iex
text/x-erl-shellsession	erl
text/x-erlang	erlang
text/x-factor	factor
text/x-fancysrc	fancy fy
text/x-felix	felix flx
text/x-fortran	f fortran
text/x-fsharp	fsharp
text/x-gas	gas
text/x-genshi	genshitext
text/x-gherkin	Cucumber Gherkin cucumber gherkin
text/x-glslsrc	glsl
text/x-gnuplot	gnuplot
text/x-gooddata-cl	gooddata-cl
text/x-gosrc	go
text/x-gosu	gosu
text/x-gosu-template	gst
text/x-groovy	groovy
text/x-haml	HAML haml
text/x-haskell	haskell hs
text/x-idl	ice
text/x-inf	inf
text/x-ini	cfg ini
text/x-iokesrc	ik ioke
text/x-iosrc	io
text/x-irclog	irc
text/x-jade	JADE jade
text/x-java	java
text/x-java-properties	properties
text/x-jbst	Duel Engine Duel View JBST JsonML+BST duel jbst
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-lighttpd-conf	lighttpd lighty
text/x-literate-haskell	lhs literate-haskell
text/x-llvm	llvm
text/x-logos	logos
text/x-logtalk	logtalk
text/x-m4	m4
text/x-mail	mail
text/x-makefile	GNUMakefile Makefile bsdmake make makefile mf mk
text/x-minidsrc	minid
text/x-modelica	modelica
text/x-modula2	m2 modula2
text/x-monkey	monkey
text/x-moocode	moocode
text/x-mysql	mysql
text/x-nasm	nasm
text/x-nemerle	nemerle
text/x-newspeak	newspeak
text/x-nginx-conf	nginx
text/x-nimrod	nim nimrod
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-pascal	delphi objectpascal pas pascal
text/x-patch	diff udiff
text/x-perl	PL pm
text/x-php	php php3 php4 php5
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
text/x-prolog	prolog
text/x-psp	psp
text/x-pyrex	pyrex
text/x-python-doctest	pycon
text/x-python-traceback	pytb

text/x-python3-traceback	py3tb
text/x-r-doc	rd
text/x-r-profile	r s splus
text/x-rebol	rebol
text/x-rfc	rfc
text/x-robotframework	RobotFramework robotframework
text/x-rpm-spec	spec
text/x-ruby-shellsession	irb rbcon
text/x-rustsrc	rust
text/x-sass	SASS sass
text/x-scala	scala
text/x-scaml	SCAML scaml
text/x-scss	scss
text/x-smalltalk	smalltalk squeak
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-systemverilog	sv systemverilog
text/x-tea	tea
text/x-textile	textile txtl
text/x-trac-wiki	moin trac-wiki
text/x-typescript	ts
text/x-vala	vala vapi
text/x-vba	bas vb vb.net vba vbnet
text/x-verilog	v verilog
text/x-vhdl	vhd vhdl
text/x-vim	vim
text/x-windows-registry	registry
text/x-xtend	xtend
text/x-yaml	yaml
text/x-zsh	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#		? (1)	?
C++	?	?	?
CMake	?	?	?
Java	? (2)	?	?
Awk		?	
Boo			?
CSS	?		?
Python Doctests			?
Diff		?	?
Eiffel		?	
Elisp		?	
Fortran		? (1)	?
Haskell		?	?
Genshi			?
HTML	?	?	?
IDL		?	
INI			?
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.

Extra Software

- GNU Enscript ? ?http://directory.fsf.org/GNU/enscript.html
- GNU Enscript for Windows ? ?http://gnuwin32.sourceforge.net/packages/enscript.htm
- SilverCity ? ?http://silvercity.sf.net/
- **Pygments ? ?http://pygments.org/**

See also: WikiProcessors, WikiFormatting, TracWiki, TracBrowser