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Syntax Highlighting Plugin

```
1 #include <fstream.h>
2
3 main()
4 {
5     cout << "Read a file with iostream\n" ;
6
7     ifstream tTestFile;
8     tTestFile.open("test_file.dat",ios::in);
9
10    // count lines/floats
11    int iNumberOfFloats = 0;
12    float fDummy;
13    while(tTestFile >> fDummy) {
14        ++iNumberOfFloats;
15    }
16    cout << iNumberOfFloats << " floats read\n";
17    tTestFile.close();
18 }
```

Highlight source code fragments for many languages

Introduction

The Syntax Highlighting Plugin is used to emphasize the rendering of your wiki text according to several languages. It currently uses `enscript` to render its output.

Supported languages

- ada
- asm
- awk
- bash
- c
- changelog
- c++
- csh
- delphi
- diff
- diffu
- elisp
- fortran
- fortran_pp
- haskell
- html
- idl
- inf
- java
- javascript
- ksh
- m4
- mail
- makefile
- matlab
- modula_2
- nested
- nroff
- objc
- outline
- pascal
- perl
- postscript
- python
- rfc
- scala
- scheme
- sh
- skill
- sql
- states
- synopsis
- tcl
- tesh
- tex
- vba
- verilog
- vhdl
- vrm1
- wmlscript
- zsh

Syntax Rules

To use this plugin, use the following syntax:

```
<sticky>
%CODE{ lang="cpp" num="10" numstep="2" }%
...code...
%ENDCODE%
</sticky>
```

The `<sticky>` tags are required to prevent TWiki's WYSIWYG editor from removing line breaks inside the code block.

Parameters

Parameter	Description	Default
"..." or lang="..."	Source language. Supported languages: ada, asm, awk, bash, changelog, cpp, csh, c, delphi, diffs, diff, diffu, dylan, eiffel, elisp, Name:, forth, fortran_pp, fortran, haskell, html, icon, idl, inf, javascript, java, ksh, lua, m4, mail, makefile, matlab, nroff, oberon2, objc, outline, oz, pascal, perl, php, postscript, pyrex, python, rfc, ruby, scheme, sh, skill, Smalltalk, sml, sql, states, synopsis, tcl, tcsh, tex, vba, verilog, vhdl, vrml, wmlscript, zsh	(none, required)
num="..."	Show line numbers next to the source code. An integer indicates the start number. Also "on" and "off"	"off"
step="..."	Increment line numbers with the given step. Negative numbers will decrement.	"1"
style="..."	Style of box around the source code	light gray box
numstyle="..."	Style of line number column	light brown box

Note: The default can be set in configure

Examples

The following text:

```
<sticky>
%CODE{"c++"}%
#include <iostream>
int main()
{
    // Hello world example
    std::cout << "Hello, world." << std::endl;
}
%ENDCODE%
</sticky>
```

gives (if installed):

```
#include <iostream>
int main()
{
    // Hello world example
    std::cout << "Hello, world." << std::endl;
}
```

You can also output numbered lines starting at 10 with this text:

```
<sticky>
%CODE{"sh" num="1"}%
#!/bin/sh
languages=`enscript --help-highlight | grep 'Name:' | cut -d ' ' -f 2`
for l in $languages; do
    cat << EOF
    * $l
EOF
done
%ENDCODE%
</sticky>
```

gives (if installed):

```

1#!/bin/sh
2languages=`enscript --help-highlight | grep 'Name:' | cut -d ' ' -f 2`
3for l in $languages; do
4    cat << EOF
5    * $l
6EOF
7done

```

Plugin Installation & Configuration

Show details Hide details

Note: You do not need to install anything on the browser to use this extension. The following instructions are for the administrator who installs the extension on the TWiki server.

- For an *automated installation*, run the configure script and follow "Find More Extensions" in the in the *Extensions* section.
 - ◆ See the installation supplement [\[?\]](#) on TWiki.org for more information.
- Or, follow these *manual installation* steps:
 - ◆ Download the ZIP file from the extension home on twiki.org (see below).
 - ◆ Unzip `SyntaxHighlightingPlugin.zip` in your twiki installation directory.
 - ◆ Set the ownership of the extracted directories and files to the webserver user.
 - ◆ Install the dependencies (if any).
- Plugin *configuration and testing*:
 - ◆ Run the configure script and enable the plugin in the *Plugins* section.
 - ◆ Configure additional plugin settings in the *Extensions* section if needed.
 - ◆ Test if the installation was successful using the examples provided.
- Configure settings in Extensions section:
 - ◆ `$TWiki::cfg{Plugins}{SyntaxHighlightingPlugin}{EnscriptPath}` # path to enscript script
 - ◆ `$TWiki::cfg{Plugins}{SyntaxHighlightingPlugin}{DefaultLang}` # Default language
 - ◆ `$TWiki::cfg{Plugins}{SyntaxHighlightingPlugin}{Numbering}` # Default for line numbering, 'off' or 'on'
 - ◆ `$TWiki::cfg{Plugins}{SyntaxHighlightingPlugin}{Step}` # Default step of numbering
 - ◆ `$TWiki::cfg{Plugins}{SyntaxHighlightingPlugin}{Style}` # Style of pre tag containing the source code
 - ◆ `$TWiki::cfg{Plugins}{SyntaxHighlightingPlugin}{NumStyle}` # Style of numbering column
 - ◆ `$TWiki::cfg{Plugins}{SyntaxHighlightingPlugin}{Debug}` # Debug setting
- Change of Syntax: Content of an older version of this plugin with the following syntax needs to be updated:


```

%begin sh%
...code...
%end%

```

This has been changed to be more consistent with other twiki variables. There is a script included which will replace the old syntax with the new one. To use it, copy it from the `tools` directory and into your `data` directory. When you run it, it will look through your webs and replace the syntax. Note that its not the best script in the world, so always test it on a copy of your data first!

- Plugin Files:

<code>data/TWiki/SyntaxHighlightingPlugin.txt</code>	Plugin topic
<code>data/TWiki/VarCODE.txt</code>	Variable documentation topic

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pub/TWiki/SyntaxHighlightingPlugin/cpp-screenshot.png	
pub/TWiki/SyntaxHighlightingPlugin/cpp-screenshot-300.png	
lib/TWiki/Plugins/SyntaxHighlightingPlugin.pm	Perl module
lib/TWiki/Plugins/SyntaxHighlightingPlugin/Config.spec	
tools/SyntaxHighlightingPlugin_covert.pl	

Plugin Info

Plugin Author:	TWiki:Main.AndrewRJones ↗
Previous Authors:	TWiki:Main.NicolasTisserand ↗ , TWiki:Main.NicolasBurrus ↗ , Perceval Anichini
License:	GPL (GNU General Public License ↗)
Plugin Version:	2013-04-04

Show Change History Hide Change History

2013-04-04:	TWikibug:Item7211 ↗ : Add Scala support -- TWiki:Main.HideyoImazu ↗
2013-02-14:	TWikibug:Item7091 ↗ : Show source code of undefined or unsupported language, but warn user; use configure settings for defaults; rename numstep parameter to step & make numstep undocumented; add VarCODE variable documentation -- TWiki:Main.PeterThoeny ↗
2013-02-13:	TWikibug:Item7091 ↗ : Add style and numstyle parameters -- TWiki:Main.PeterThoeny ↗
2013-02-13:	TWikibug:Item7123 ↗ : Use TWISTY in installation instructions and change history
2012-11-15:	TWikibug:Item7035 ↗ : Number step support -- TWiki:Main.YaojunFei ↗
2011-05-14:	TWikibug:Item6701 ↗ : Small fix in Config.spec -- TWiki:Main.PeterThoeny ↗
2010-10-23:	TWikibug:Item6530 ↗ : Doc improvements - TWiki:Main.PeterThoeny ↗ , TWiki:Main.AndreasKeil ↗
2008-09-11:	TWikibug:Item5995 ↗ : Rewritten to work on TWiki 4.2
2002-07-12:	Initial version
TWiki Dependency:	\$TWiki::Plugins::VERSION 1.1
Dependencies:	enscript >= 1.6.3, CPAN:IPC::Run ↗
Plugin Home:	http://TWiki.org/cgi-bin/view/Plugins/SyntaxHighlightingPlugin ↗
Feedback:	http://TWiki.org/cgi-bin/view/Plugins/SyntaxHighlightingPluginDev ↗
Appraisal:	http://TWiki.org/cgi-bin/view/Plugins/SyntaxHighlightingPluginAppraisal ↗

Related Topics: [VarCODE](#), [TWikiPreferences](#), [TWikiPlugins](#)

This topic: [TWiki > SyntaxHighlightingPlugin](#)

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Note: Please contribute updates to this topic on TWiki.org at [TWiki:TWiki.SyntaxHighlightingPlugin](#)