Syntax Highlighting Plugin

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
- diffs
- diffu
- elisp
- fortran
- fortran_pp
- haskell
- html
- inf
- java
- javascript
- ksh
- mail
- makefile
- maple
- matlab
- module
- n4
- nroff
- objective_c
- ObjC
- obj
- objc
- outline
- perl
- postscript
- python
- rtl
- sql
- skill
- sk
- sql
- states
- synopsys
- tcl
- tex
- texinfo
- tcsh
- texinfo
- texinfo
- texinfo
- texinfo
- txt
- vba
- verilog
- vhdl
- vrml
- wmlscript

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**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;...&quot; or lang=&quot;...&quot;</td>
<td>Source language. Supported languages: ada, asm, awk, bash, changelog, c++, 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, synopsys, tcl, tcsh, tex, vba, verilog, vhdl, vulm, wmlscript, zsh</td>
<td>(none, required)</td>
</tr>
<tr>
<td>num=&quot;...&quot;</td>
<td>Show line numbers next to the source code. An integer indicates the start number. Also &quot;on&quot; and &quot;off&quot;</td>
<td>&quot;off&quot;</td>
</tr>
<tr>
<td>step=&quot;...&quot;</td>
<td>Increment line numbers with the given step. Negative numbers will decrement.</td>
<td>&quot;1&quot;</td>
</tr>
<tr>
<td>style=&quot;...&quot;</td>
<td>Style of box around the source code</td>
<td>light gray box</td>
</tr>
<tr>
<td>numstyle=&quot;...&quot;</td>
<td>Style of line number column</td>
<td>light brown box</td>
</tr>
</tbody>
</table>

**Note:** The default can be set in configure

**Examples**

The following text:

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

gives (if installed):

```plaintext
#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:

```plaintext
<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):
Plugin Installation & Configuration

Show 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:
  - data/TWiki/SyntaxHighlightingPlugin.txt
  - data/TWiki/VarCODE.txt

Examples
Plugin Info

<table>
<thead>
<tr>
<th>Plugin Author</th>
<th>TWiki:Main.AndrewRJones</th>
</tr>
</thead>
<tbody>
<tr>
<td>Previous Authors</td>
<td>TWiki:Main.NicolasTisserand, TWiki:Main.NicolasBurrus, Perceval Anichini</td>
</tr>
<tr>
<td>License</td>
<td>GPL (GNU General Public License)</td>
</tr>
<tr>
<td>Plugin Version</td>
<td>2013-04-04</td>
</tr>
</tbody>
</table>

Show Change History
- 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:Item7123: Use TWISTY in installation instructions and change history
- 2012-11-15: TWikibug:Item7035: Number step support -- TWiki:Main.YaojunFei
- 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
Topic revision: r1 - 2013-04-04 - TWikiContributor

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or Ideas, requests, problems regarding TWiki? use Discourse or Send feedback

Note: Please contribute updates to this topic on TWiki.org at TWiki:TWiki.SyntaxHighlightingPlugin