

EXT: beautyOfCode Syntax Highlighter

Extension Key: beautyofcode

Language: en

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- a GNU/GPL CMS/Framework available from www.typo3.org



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Introduction

What does it do?

This plugin provides state-of-the-art syntax highlighting by using Java-Script by using SyntaxHighlighting 2.0 by Alex Gorbatchev.

This is done by using the jQuery plugin beautyOfCode (jQuery version, SyntaxHighlighter v2) or without using jQuery (standalone version)by using new autoloader feature introduced with SyntaxHighlighter v3.

Use the constant editor or TS to define needed programming languages. These will be available in the FE plugin which needs to be added as a generic FE plugin ("insert plugin"). Each of this languages is a lazy-loaded (after the page has finished loading) Java-Script file. You can define different css styles (so called themes) and HTML templates to match your page design.

The following programming languages are available: Actionscript 3, Bash, Shell, ColdFusion", C, C++, C#, CSS, Delphi, Pas, Pascal, Diff, Patch, Erlang, Groovy, Java, Java FX, Java-Script, Perl, PHP, Power-Shell, Python, Ruby on Rails, Scala, SQL, Typoscript, MySQL, Virtual Basic, .Net, XML, XSLT, XHTML and HTML. There are even more available, please check out http://alexgorbatchev.com/wiki/SyntaxHighlighter:Brushes

The newly added Typoscript brush is based upon a user language for Notepad++.

Note: This extension currently needs jQuery Java-Script framework (see Installation). I'm working in a non jQuery option, see ToDo. Since version 0.7.0 its possible to use this extension without jQuery.

Features

- · Highlight specific lines
- Show Gutter
- · Customizable tab size
- Configurable label
- · Collapse code
- Wrap lines
- Preview and t3editor support in BE
- Use HTML templating
- Different visual styles
- · Configurable JS language strings in FE *
- Show Toolbar with *
 - Print in FE view
 - Copy to directly to clipboard (via swf) in FE view
 - · Copy manually out of an pop-up in FE view

Code is embedded as:

jQuery Version (Syntax Highligther v2)

Standalone Version (Syntax Highligther v3)

^{*} if using jQuery version aka Syntax Highlighter v2



Live Demo

FelixNagel.com/Blog/

Please help me to add more sites here: contact me!

Syntax Highlighter 2.0 and v3

Syntax Highlighter 2.0 by Alex Gorbatchev, which does the actually highlighting, is the nicest syntax highlighter i've seen so far and it's also used by Freshbooks, ASP .Net Forums, wordpress.com, Aptana, Mozilla Developer Center, SitePoint and Yahoo Developer Network. It is coded in native Java-Script and is under active development.

Please see http://alexgorbatchev.com/wiki/SyntaxHighlighter for more information.

jQuery Plugin beautyOfCode

Beauty of Code is a jQuery plugin written by Lars Corneliussen. This extension uses beautyOfCode to implement SyntaxHghlighter 2.0 in a xhtml 1.0 compliant way (see above) and to add the desired js files by lazy loading.

See http://startbigthinksmall.wordpress.com/2009/05/28/beautyofcode-jquery-plugin-for-syntax-highlighter-2-0-by-alex-gorbatchev/ for more information.

Screenshots

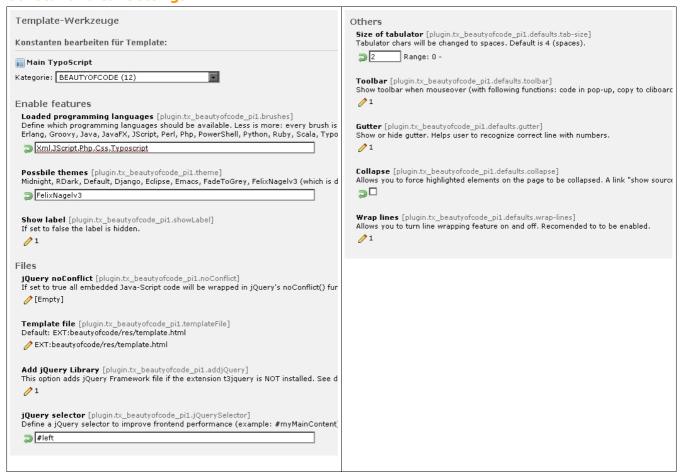
Frontend Plugin

```
01 class tx_beautyofcode_pi1 extends tslib_pibase
                     = 'tx_beautyofcode_pi1'; /
     var $prefixId
    class name
     var $scriptRelPath = 'pi1/class.tx_beautyofcode_pi1.php';
     // Path to this script relative to the extension dir.
04
    var $extKey
                      = 'beautyofcode'; // The extension key.
 05
     var $pi checkCHash = true;
 06
 07
08
      * The main method of the PlugIn
10
     * @param string $content: The PlugIn content
 11
        @param array $conf: The PlugIn configuration
 12
        Greturn The content that is displayed on the website
```

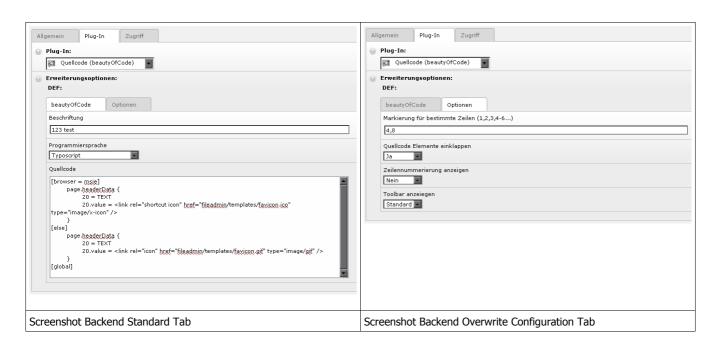
This is the default theme when using jQuery version.



Constant Editor Settings



Backend FCE





Users manual

Add the beautyofcode frontend plugin via the FCE wizard or manually via a generic plugin. After adding the plugin there are 2 tabs available:

Tab: beautyOfCode

These fields should be self explanatory.

- · Description (not necessary, if empty no description is displayed)
- Programming language (available languages configured by your admin)
- Code

Tab: Options

Within this tab its possible:

- to highlight some specific lines. Use a syntax like: 1,2,3,4,5 or 1-5
- to overwrite the default settings configured by your admin.
 - Gutter (show line numbers)
 - Toolbar (shows the toolbar with copy to clipboard, show in pop-up, print and help)
 - Collapse (displays code element collapsed)

Please note: Configuration overwrite via the Option tab could be disabled by your admin.



Administration

Installation

- · Install the extension via extension manager.
- Add the static template in your main typoscript (go to: list module, root page, edit your root TS template, tab: includes, add "beautyOfCode Syntax Highlighter").
- You could add the jQuery core file yourself, via this extension by enable *addjQuery* configuration or by using the t3jquery extension. Version 1.3.x and 1.4.x of jQuery will work. Since version 0.7.0 it's possible to use SyntaxHighlighter standalone without using jQuery.

Please note: It's strongly recommended to add one line in your localconf.php to force CDATA escaping within the flexforms in TYPO3. Please see know FAQ section.

Settings: Extension Manager

Enable syntax highlighting (install EXT: t3editor) in BE by using enable t3editor option.

Please note: Some extension manager settings have been removed in version 0.7.0. Use TypoScript instead.

Which version to choose

This extension has two versions of SyntaxHighlighter to choose. Both lazy load the necessary CSS and JS files after the DOM ready event has fired. Version 2 uses a jQuery plugin "beautyOfCode" by Lars Corneliussen and version 3 wich runs standalone using the autoloader feature introduced with version v3. There are some benefits and disadvantages by using each version:

Version v2 ("jquery"):	Version v3 ("standalone"):
 needs jQuery configurable toolbar runs within a domReady event (runs very smooth when merging scripts automatically) less code needs to be injected in your HTML wrap-lines feature (line break) more feature rich 	 runs without using a Java-Script framework no toolbar available as it has been removed in v3 uses latest version of SyntaxHighlighter slim and less feature rich (but with almost the same functionality)



Configuration

Typoscript

Feel free to use the constant editor (go to: module template, root page, constant editor, beautyofcode) to edit this settings. Add a Typoscript template to overwrite these settings at any point in your sitetree(s).

Property:	Data type:	Description:	Default:
templateFile	String	Path to the template file.	EXT:beautyofcode/res/te mplate.html
jquery.baseUrl standalone.baseUrl	String / TS object	Enter path to the res directory by using EXT: or FILE: or absolute path (http://your.domain.de/fileadmin//res/). Make sure the relative paths res/ and styles/ exists.	EXT:beautyofcode/res/
		Leave empty to use online repository. If you use online repository you shall not edit settings <i>styles</i> and <i>scripts</i> . More info about online hosting see: http://alexgorbatchev.com/wiki/SyntaxHighlighter:Hosting	
jquery.scripts standalone.scripts	String	Path to syntax highlighter core file and to the brushes (Java-Script files), relative to the <i>baseUrl</i> . Leave empty or default when using online repository.	scripts/
jquery.styles standalone.styles	String	Path to syntax highlighter css files (css themes), relative to the <i>baseUrl</i> . Leave empty or default when using online repository.	styles/
standalone.includeA sDomReady	String	If using standalone version it's possible to add a JS domReady instaed of injecting the code at the bottom of the body. Useful when using minification scripts. Possible options: false, jquery or standalone	false
jquery.scriptUrl	String / TS object	Path to jquery.beautyOfCode.js file (use FILE: and EXT: or absolute path http://your.domain.de/).	EXT:beautyofcode/res/jq uery.beautyOfCode.js
jquery.addjQuery	Boolean	This option adds jQuery Framework file if the extension t3jquery is NOT installed. All other Java-Script files are added manually (see Extension Manager configuration).	1
jquery.selector	String	Please provide a jQuery selector (like #myMainContent) to improve frontend performance. Is set beautyOfCode will only search for code snippets within the given id.	
jQueryNoConflict	Boolean	If set to true all embedded jQuery Java-Script code will be wrapped in jQuery's noConflict() function. This helps you to use jQuery together with other JS Frameworks which use \$ as a function or variable name, too. Usefull if you using Mootools (or similar) and want to use beautyOfCode (and therefor jQuery) only to highlight your code. See http://api.jquery.com/jQuery.noConflict/ for more information.	0
brushes	String	Loaded programming languages: Define which programming languages should be available. Less is more: every brush is lazy loaded a single js file. Add a seperated list out of: AS3, Bash, ColdFusion, Cpp, CSharp, Css, Delphi, Diff, Erlang, Groovy, Java, JavaFX, JScript, Perl, Php, PowerShell, Python, Ruby, Scala, Typoscript, Sql, Vb, Xml.	Xml,JScript,CSharp,Plain
theme	String	Define a theme (which is basically a CSS file). Following themes are avaiable: Midnight, RDark, Default, Django, Eclipse, Emacs, FadeToGrey, FelixNagelv3 (which is dark minimal).	Default
		Add your own in EXT:res/styles/	
showLabel	Boolean	If set to false the label is hidden.	1
defaults.tab-size	Int	Specify a tabulator size. Tabulator chars will be changed to spaces.	4
defaults.toolbar	Boolean	Show toolbar when mouseover the code in FE (with following functions: code in pop-up, copy to cliboard via swf, print, info about SyntaxHighlighter 2.0).	1
defaults.gutter	Boolean	Show or hide gutter. Helps user to recognize correct line.	1
defaults.collapse	Boolean	Allows you to force highlighted elements on the page to be collapsed. A link "show source" is displayed instead (not customizable yet).	0
defaults.wrap-lines	Boolean	Allows you to turn line wrapping feature on and off. Recomended to to be enabled.	1



Property:	Data type:	Description:	Default:
config.strings	object	Configure SyntaxHighlighter language strings in frontend. See http://alexgorbatchev.com/SyntaxHighlighter/manual/configuration/strings.ht ml for possible strings. Please see pi1/static/setup.txt for an extended example how to use. For mulitlanguage installations please use globalVar conditons: [globalVar = GP:L = 1] config.strings.viewSource = custom string [global]	

[tsref:plugin.tx_beautyofcode_pi1]



Tutorial

Add missing brushes

Please see http://alexgorbatchev.com/SyntaxHighlighter/manual/brushes/ for all available brushes. You need to edit the EXT:/pi1/class.tx_beautyofcode_addFields.php: add a case within the switch command to use your custom brush. If youre using standalone (aka SyntaxHighlighter v3) you need to extend function chooseCssTag in filelib\class.tx_beautyofcode_standalone.php, too.

Please contact me if you would like to see a brush in the next release, I will add it asap.

How to add a template marker with hooks

You need a custom marker within your template? No problem:

Generate user_ extension via kickstarter.

Add following code to your extension *ext_localconf.php*:

```
$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['beautyofcode']['addMarker_getHTML'][] = 'EXT:user_hooktest/class.tx_user_hooktest.php:tx_hooktest->addMarker';
```

You class could look like this:

```
class tx hooktest {
  function addMarker(&$content, $obj) {
     $content['###TEST###'] = "test123";
  }
}
```

Now you can add your new marker to the template:

###TEST###



Available hooks

I added some hooks to enable you to extend my extension. Please contact me to add a hook for you! Please notice that you are able to use XCLASS as well.

addMarker_getHTML

This hook enables you to add or modify the processed template markers. Use following code in your ext_localconf.php

```
$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['beautyofcode']['addJS_setHeaderData'][] = 'EXT:user_myhook/class.tx_user_myhook.php:tx_myhook->myFunction';
```

addJS_setHeaderData

This hook enables you to add some JS into the JS code added for each FCE. Use following code in your ext_localconf.php

```
$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['beautyofcode']['addJS_setHeaderData'][] =
'EXT:user_myhook/class.tx_user_myhook.php:tx_myhook->myFunction';
```



Upgrade-Guide

If there's no upgrade guide, there's no need to change anything. This guide does not covering extending via PHP (aka XCLASS or Hooks) – you need to check changes for yourself.

0.5 to 0.6

This version introduces HTML templating. That's why some TS options are not longer available or renamed:

- plugin.tx beautyofcode pi1.label.wrap is removed as it's now configured via template
- plugin.tx_beautyofcode_pi1.label.show is renamed to showLabel
- plugin.tx_beautyofcode_pi1.wrap is removed as it's now configured via template

0.6 to 0.7

Big update: finally its possible to use this extension without jQuery. Massive remanufacturing and code changes. Please consider this release as a beta version as I did test every feature the best I can but not sure if everything will work out on every TYPO3 installation.

What you need to know:

- You'll need to change your TypoScript code
 - o paths for base, scripts and styles
 - addiQuery and selector have been moved to the jquery. Array
 - some variables have been slightly renamed
- Extension Manager settings has been removed, use TS configuration instead
- SyntaxHighlighter v3 changed some features (learn more: "Which version to choose")

Please see the changelog for all changes in detail.



FAQ

No highlighting in FE

Did you include a jQuery core file? You either need to install and configure the t3jquery extension, add the jQuery Core file manually or activate the addjQuery option.

I get a Java-Script error in FE

See above.

Do you use other Java-Script frameworks? Please see down below.

I'm using MooTools, ExtJS or similar

No problem. There are two possible solutions to this problem:

Using standalone version:

Just use the standalone version of this plugin. This is possible by using:

plugin.tx beautyofcode pi1.version = standalone

Using Jquery Version:

Use the noConflict option via TS or Constant Editor. This way you can use your own Java-Script framework (which uses the \$ selector as well) together with beautyOfCode as it will work "standalone" with a incompatible Java-Script framework.

Please note and keep in mind: if jQuery must be loaded (minified about 56KB) which leads to more traffic and less performance for your users.

Input is encoded and saved without "<", ">", etc.

This is a server side problem within PHP 5 respective in the libxml module (1.6.32 and higher) with an existing work around.

Solution:

Add this line in your localconf.php in typo3conf directory.

```
$TYPO3 CONF VARS['BE']['flexformForceCDATA'] = '1';
```

This fix is non breaking and works only for new added elements. Older flexform values should / could be fixed manually. This is a recommended default setting for every TYPO3 installation (see mailing list why).

Bug:

http://bugs.typo3.org/view.php?id=9359

Mailingslist Post:

[TYPO3-dev] A ticking ticking timebomb with libxml update to 2.7.1?

How to change language strings

Please see config.strings in Configuration → Typoscript

I don't like my users to overwrite my default TS configuration

Please see below.

How to hide gutter, toolbar or collapse options for users

If you don't like your user to overwrite your TS configuration via the *Options* tab within the flexform (plugin FCE) you should take a look at the extension *sp_betterflex*: "Exclude static flexform fields made by extensions like normal table fields in backend group configuration or via TSConfig."

http://typo3.org/extensions/repository/view/sp_betterflex/current/

Install the extension and add these lines to your TSconfig:



```
TCEFORM.tt_content.beautyofcode_cGutter.disabled = 1
TCEFORM.tt_content.beautyofcode_cToolbar.disabled = 1
TCEFORM.tt_content.beautyofcode_cCollapse.disabled = 1
```

Where to post improvements or bugs

Please feel free add questions, bugs and improvements at http://forge.typo3.org/projects/extension-beautyofcode/issues

"Missing Ext. Manager configuration" error in FE

You forgot to save the extension manager configuration. Please go to Extension Manager → beautyOfCode → click Update

"t3lib_div::array_merge_recursive_overrule()" error in BE

This error could look like this:

PHP Catchable Fatal Error: Argument 1 passed to t3lib_div::array_merge_recursive_overrule() must be an array, null given, called in /html/typo3/typo3_src-4.4.2/typo3/sysext/rtehtmlarea/class.tx_rtehtmlareaapi.php on line 80 and defined in /html/typo3/typo3_src-4.4.2/t3lib/class.t3lib_div.php line 2059

This issue was already patched but seems to be introduced again in specific TYPO3 version. Some kind of regression I guess. Sadly Im not able to reproduce the issue and it even seems to be an Core / RTE problem, so please take a look at these bugtracker issues which should help you to solve the problem:

- http://bugs.typo3.org/view.php?id=15864
- http://bugs.typo3.org/view.php?id=15893

Enable t3editor in BE

You need to enable the *enable_t3editor* option in Extension Manager and check your user settings.



Known problems

Please see FAQ and check http://forge.typo3.org/projects/extension-beautyofcode/issues

PHP5 and libxml module cause problems in some Installations. This is a server side problem with an existing work around.
 See the FAQ of this manual.



To-Do list

Please see http://forge.typo3.org/projects/extension-beautyofcode/issues



ChangeLog

Please see ChangeLog file in extension directory: typo3conf/ext/beautyofcode/