EXT: beautyOfCode Syntax Highlighter

Extension Key: beautyofcode

Language: en

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The content of this document is related to TYPO3

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

Table of Contents

Introduction

What does it do?

This plugin provides state-of-the-art syntax highlighting by using Java-Script. The jQuery plugin beautyOfCode is used to implement SyntaxHighlighting 2.0 by Alex Gorbatchev.

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) 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, 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 needs jQuery Java-Script framework (see Installation).

Features

- Show Gutter
- Customizable tab size
- Configurable label
- Collapse code
- Wrap lines
- Different visual styles
- Show Toolbar
  - 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:

```
<pre class="code">
    <code class="php">
        CODE GOES HERE
    </code>
</pre>
```

Live Demo

- FelixNagel.com/Blog/

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

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.

Syntax Highlighter 2.0

Syntax Highlighter 2.0 by Alex Gorbatchev, which does the catually highlithing, 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.

Screenshots

Frontend Plugin

```
01  class tx_beautyofcode_pi1 extends tslib_pibase
02   var $prefixId      = 'tx_beautyofcode_pi1'; /
     class name
03   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
09    *
10    * @param string  $content: The PlugIn content
11    * @param array   $conf: The PlugIn configuration
12    * @return The content that is displayed on the website
13    */
```

This is the default theme.

Extension Manager Settings

Extension Manager

Extension: beautyOfCode Syntax Highlighter (beautyofcode)

CURRENT STATUS:

The extension is installed (loaded and running)!
Click here to remove the extension:

CONFIGURATION:

(Notice: You may need to clear the cache after the configuration of the extension. This is required if the extension add.

Base URL [baseUrl]
Default: EXT:beautyofcode/res/ Enter path to the res directory by using EXT: or FILE: or absolute path
http://your.domain.de/.../res/). Leave empty to use online repository. More Info see:
http://alexgorbatchev.com/wiki/SyntaxHighlighter:Hosting

`EXT:beautyofcode/res/`

Relative path to scripts [scripts]
Default: scripts/ Enter relative path to baseUrl. Leave empty or default when using online repository.

`scripts/`

Relative path to styles [styles]
Default: styles/ Enter relative path to baseUrl. Leave empty or default when using online repository.

`styles/`

Script URL [scriptUrl]
Path to jquery.beautyOfCode.js file (use FILE: and EXT: or absolute path http://your.domain.de/...).
Default: EXT:beautyofcode/res/jquery.beautyOfCode.js

`EXT:beautyofcode/res/jquery.beautyOfCode.js`

[Update]

Please note: You need to include the jQuery Core js file yourself. Its NOT done by this extension, but its possible to use t3jquery extension.
This extension uses the jQuery plugin *beautyOfCode by Lars Corneliussen* (LGPL licensed, see startbigthinksmall.wordpress.com/2009/05/28/beautyofcode-jquery-plugin-for-syntax-highlighter-2-0-by-alex-gorbatchev). Actually highlighting is done by *SyntaxHighlighter 2.0 by Alex Gorbatchev* (GPL licensed, see alexgorbatchev.com/wiki/SyntaxHighlighter). These files are loaded lazy after the browser finishs page loading. Please feel free to contact me for bugs, questions and further development.

Constant Editor Settings

Backend FCE

Screenshot Backend Standard Tab	Screenshot Backend Overwrite Configuration Tab

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)
- 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 functionality 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 use t3jquery extension. Version 1.3.x and 1.4.x of jQuery will work.

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

This step is optional, but you could define custom paths to the needed Java-Script files. This settings are used for the whole TYPO3 installation.

Please note: All of this settings can be overwritten via TS at any point of your sitetree by using an additional template.

Property:	Data type:	Description:	Default:
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. Leave empty to use online repository. If you use online repository you shall not edit settings *styles* and *scripts*. More info about online hosting see: http://alexgorbatchev.com/wiki/SyntaxHighlighter:Hosting	EXT:beautyofcode/res/
scripts	String	Path to syntax highlighter core file and to the brushes (Java-Script files), relative to the *baseUrl*. Leave empty or default when using online repository.	scripts/
styles	String	Path to syntax highlighter css files (css themes), relative to the *baseUrl*. Leave empty or default when using online repository.	styles/
scriptUrl	String / TS object	Path to jquery.beautyOfCode.js file (use FILE: and EXT: or absolute path http://your.domain.de/...).	EXT:beautyofcode/res/jquery.beautyOfCode.js

[TYPO3_CONF_VARS.EXT.extConf.beautyofcode]

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:
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
noConflict	Boolean	If set to true all embedded 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). Add your own in EXT:res/styles/	Default
wrap	Wrap	Wraps the whole frontend plugin.	<div class="tx_beautyofcode_pi1">|</div>
label.show	Boolean	If set to false the label is hidden.	1
Label.wrap	Wrap	Wraps the label element.	|
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
baseUrl	String / TS object	See Extension Manager config	EXT:beautyofcode/res/
scripts	String	See Extension Manager config	scripts/
styles	String	See Extension Manager config	styles/
scriptUrl	String / TS object	See Extension Manager config	EXT:beautyofcode/res/jquery.beautyOfCode.js

[tsref:plugin.tx_beautyofcode_pi1]

Tutorial

Add missing brushes

Please see http://www.undermyhat.org/blog/2009/09/list-of-brushes-syntaxhighligher/ 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.

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

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.

My 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?

I'm using MooTools, ExtJS or similar

No problem. 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".

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

How to change language strings

This is a problem at the moment. Please see ToDo list.

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

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 to contact me via email: i n f o [at] f e l i x n a g e l . c o m or by using http://www.felixnagel.com/contact/

Known problems

- 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.

- None so far.

To-Do list

– Make some language string in Java-Script customizable by TS. This is mainly a problem of beautyOfCode jQuery addon. I'm currently working on this issues. Currently you could change the string within the Syntax Highlighter 2.0 core files. Contact me for more information.

– Add a jQuery selector to improve frontend performance. This needs to be implemented in the original jQuery plugin. Feature request is already posted.

ChangeLog

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