extension "extensible_sitemap"

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Abstract

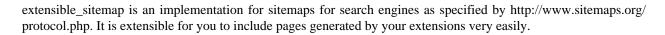


Table of Contents

I. Introduction	1
What does it do?	1
Feature List	1
Sources	1
2. Administration	
QuickStart	
Configuration	
Generators	
Tx_ExtensibleSitemap_Generator_Page_Recursive	
Tx_ExtensibleSitemap_Generator_TtNews_SimpleArticle	
Tx_ExtensibleSitemap_Generator_TtNews_NewsArticle	
3. Development	
Basics	
Namespaces	
Glossary	

List of Tables

2.1. Configuration for plugin.tx_extensiblesitemap	2
2.2. Configuration for sitemap-configuration	3
2.3. parameters for Tx_ExtensibleSitemap_Generator_Page_Recursive	
2.4. parameters for Tx_ExtensibleSitemap_Generator_TtNews_SimpleArticle	
2.5. parameters for Tx ExtensibleSitemap Generator TtNews NewsArticle	

List of Examples

2.1. Example configuration	3
2.2. Example using Tx_ExtensibleSitemap_Generator_Page_Recursive	. 4
2.3. Example using Tx_ExtensibleSitemap_Generator_TtNews_SimpleArticle	. 6

Chapter 1. Introduction

What does it do?

This extension is yet another sitemap generator for search engines.

The main thing that makes this extension special from all the other implementations is that it is extensible. With the other extensions you have no possibility to add pages generated by your extension. (except by *really nasty* XCLASSing, but what if there are two or more extensions trying to XCLASS?) So this extension has an interface where you can add your extensions to the sitemap generator.

It is also possible to generate multiple sitemaps. So if you have a gallery extension with multiple galleries you could stuff all the gallery pages in the default sitemap and create an additional image sitemap for google to make the images available in the Google Image Search.

Feature List

This is a selection of features of this extension

- link sitemaps from extensions that generate pages dynamically
- extend sitemap with namespaces (for example for news, images, videos, mobile content, etc.)
- Use of eID, so the load on your server is minimized
- configuration via TypoScript
- · native tt_news support

Sources

Home in forge http://forge.typo3.org/projects/extension-extensible sitemap

Distribution in TER http://typo3.org/extensions/repository/view/extensible sitemap/

current/

Bugtracker http://forge.typo3.org/projects/extension-extensible_sitemap/issues

Official Git Repository http://github.com/czenker/extensible_sitemap

Official Documentation http://github.com/czenker/extensible_sitemap/raw/master/

Documentation/pdf/en/index.pdf

Chapter 2. Administration

QuickStart

If you are just keen on getting the extension running and don't care much on why it (-hopefully-) works, this is for you.

1. Download and install the extension extensible_sitemap

Note

If you are new to TYPO3 and don't know how to install an extension, the Web-Empowered Church has a nice tutorial on how to install a TYPO3 extension [https://webempoweredchurch.org/clientcenter/knowledgebase/213/How-Do-I-Install-an-Extension.html].

2. Include the template Auto Configuration (extensible_sitemap) to the rootpage of your website

Note

In TYPO3 4.4 this page is marked by a globe in the pagetree.

3. View the sitemap

Well, actually this is all it takes. Have a look at http://example.org/index.php? eID=extensible_sitemap to see the sitemap for your website. If you have tt_news installed you can view a news sitemap at http://example.org/index.php? eID=extensible_sitemap&sitemap=news.

Note

Don't panik if you have tt_news configured, but just get an empty <urlset>-Tag. Only news from the last 7 days are displayed by default. This is because GoogleTM only indexes news if they are not older than 2 days. So displaying older records seems useless. You can configure this value though.

Configuration

All configuration of the extension is done via TypoScript inside plugin.tx_extensiblesitemap.

Table 2.1. Configuration for plugin.tx_extensiblesitemap

Property	Data type	Description
default	sitemap-configuration	This is the configuration for the default sitemap that will be displayed if you call http://example.org/index.php? eID=extensible_sitemap.

Data type	Description
sitemap-configuration	Additional sitemaps that might be called by visiting http:// example.org/index.php? eID=extensible_sitemap &sitemap=[sitemap]

Table 2.2. Configuration for sitemap-configuration

Property	Data type	Description
[generator]	classname/ +config	You can define a list of multiple generators here that might return records for your sitemap. Each of them can be defined by a configuration array. The configuration options depend on the generator - so have a look at the corresponding documentation.

Example 2.1. Example configuration

```
plugin.tx_extensiblesitemap {
 # this is the first sitemap
 default {
  # this is a generator that generates a sitemap for all TYPO3 pages
  # it has no further configuration
  page = Tx_ExtensibleSitemap_Generator_Page_Recursive
  # additionally to the TYPO3 pages tt_news generates pages by its single
  # view there is a different class taking care of submitting the
  # corresponding data to the sitemap creator
  tt_news_article = Tx_ExtensibleSitemap_Generator_TtNews_SimpleArticle
  # this is some additional configuration for the class
  tt_news_article {
  pid_list = {$plugin.tt_news.pid_list}
   singlePid = {$plugin.tt_news.singlePid}
 # this is a second sitemap - completely independent from the first one
  # it uses yet another generator and has some configuration
  tt_news_article = Tx_ExtensibleSitemap_Generator_TtNews_NewsArticle
  tt_news_article {
  publicationName = {$company.name}
  maxAge = 365
  pid_list = {$plugin.tt_news.pid_list}
   singlePid = {$plugin.tt_news.singlePid}
```

Generators

Tx_ExtensibleSitemap_Generator_Page_Recursive

A generator for "extensible_sitemap" that indexes pages of the TYPO3 page-tree recursively.

Table 2.3. parameters for Tx_ExtensibleSitemap_Generator_Page_Recursive

Property	Data type	Description	Default
pidList	comma-seperated integer	A comma-seperated list of pageIds that serve as the root for the indexer. These pages and all below will be submitted to the sitemap	

Example 2.2. Example using Tx_ExtensibleSitemap_Generator_Page_Recursive

```
plugin.tx_extensiblesitemap {
  default {
    # this is a very simple way to use the sitemap
    # if you call the eid-parameter on any pageId in the frontend it will
    # output a sitemap of this page and all its siblings
    page = Tx_ExtensibleSitemap_Generator_Page_Recursive
  }

fixed-pid {
    # this will output a sitemap of the pages 42 and 1337 and all its
    # siblings no matter from which page you call it
    page = Tx_ExtensibleSitemap_Generator_Page_Recursive
    pidList = 42,1337
  }
}
```

Tx_ExtensibleSitemap_Generator_TtNews_ SimpleArticle

a generator for "extensible_sitemap" that indexes tt_news articles. This is a basic version that does NOT extend the XML-Scheme by additional tags - so these are just the bare webpages created and do *not* generate a sitemap for google news .

Warning

Please notice that this is for tt_news from version 3.0.0 up - the parameters have changed with this version.

Table 2.4. parameters for \mathtt{Tx} _ExtensibleSitemap_Generator_ \mathtt{TtNews} _ $\mathtt{SimpleArticle}$

Property	Data type	Description	Default
singlePid	integer	the page id of the single view	
pid_list	comma-seperated integer	the pids the records reside in (set to 0 to take all records)	0
recursive	integer	how many levels under the above given pid_list should be looked for records too	
defaultPriority	priority	the default priority assigned to each item.	
showInternalPages	boolean	if a news with type "internal pages" should be listed	

Example 2.3. Example using Tx_ExtensibleSitemap_Generator_TtNews_

```
SimpleArticle
plugin.tx_extensiblesitemap {
 default {
  # takes records from pages 42 and 1337 and links them
  # to the page 42
  news = Tx_ExtensibleSitemap_Generator_TtNews_SimpleArticle
  news {
   singlePid = 42
  pid_list = 42,1337
   # this has to be set always
  publicationName = TYPO3 News
  news2 = Tx ExtensibleSitemap Generator TtNews SimpleArticle
  news2 {
   # you could copy the configuration from the tt_news-
   # plugin configuration
   pid_list < plugin.tt_news.pid_list</pre>
   recursive < plugin.tt_news.recursive</pre>
   singlePid < plugin.tt_news.singlePid</pre>
  publicationName = TYPO3 News
  news3 = Tx_ExtensibleSitemap_Generator_TtNews_SimpleArticle
  news3 {
   # ... or even better if you take the constants
   pid_list = {$plugin.tt_news.pid_list}
   recursive = {$plugin.tt_news.recursive}
   singlePid = {$plugin.tt_news.singlePid}
   publicationName = TYPO3 News
   # if this is not set it is tried to auto-determine
   # from your pages settings
   publicationLanguage = en
   # your news article is only available for registered
   # users. Registration is free.
   access = Registration
   # your news articles are opinion-based blog articles
   genres = Blog, Opinion
   # only display news from the last 3 days
   maxAge = 3
   # such a high value means, the news are rather important
   # for your page
   defaultPriority = 0.8
```

Tx_ExtensibleSitemap_Generator_TtNews_ NewsArticle

A generator for "extensible_sitemap" that indexes tt_news articles for a news sitemap.

Warning

Please notice that this is for tt_news from version 3.0.0 up - the parameters have changed with this version.

Table 2.5. parameters for Tx_ExtensibleSitemap_Generator_TtNews_NewsArticle

Property	Data type	Description	Default
singlePid	integer	the page id of the single view	
pid_list	comma-seperated integer	the pids the records reside in (set to 0 to take all records)	0
recursive	integer	how many levels under the above given pid_list should be looked for records too	0
defaultPriority	priority	the default priority assigned to each item.	
publicationName	string	the name of the publication.	
publication Language	string	the 2- or 3-signed ISO 639 Language Code of the language this news is in. Leave blank for autodetection.	
access	access-string	if access to the article is not public, set one of Subscription, Registration. Also see glossary entry.	
genres	comma-seperated genre-string	might be a commaseperated list of PressRelease, Satire, Blog, OpEd, Opinion, UserGenerated. Also see glossary entry.	
maxAge	integer	the maximum age in days of the news in order to be displayed. Google TM states it won't add news if they were	

Administration

Property	Data type	Description	Default
		published more than 2 days ago [http:// www.google.com/ support/news_pub/bin/ answer.py? answer=74496].	
showInternalPages	boolean	if a news with type "internal pages" should be listed	

Chapter 3. Development

Basics

You need to create a class implementing the Tx_ExtensibleSitemap_Generator_Interface in order to link it to the sitemap generator. There are four methods that need to be implemented:

init(\$conf, \$parent, \$cObj = null) This method is called before fetching the first item. So here you might develop a database connection, fetch your results or initialize variables.

There are three parameters given:

\$conf An array with configuration for the generator. It is

a php-transformation of the configuration options set

via TypoScript.

\$parent A link back to the calling class. Most notable is the

method. If something goes wrong use this to throw a HTTP Status Code and a message.

\$c0bj A reference to a cObject you might use to generate

links.

finish() This method is called after fetching the items. Close your database

connection and unset all variables you don't need anymore. There

might be other Generators that need their space.

If there is nothing you need to do - just give this method an empty

body.

getNext() This implements a very simple Iterator-Interface. It should

return an array for each page to add to the sitemap or NULL if there is nothing more to submit. See below on how this array is supposed

to be formed.

getRequiredNamespaces() The controller calls this method to ask if your generator makes use

of additional namespaces to the standard sitemap tags. If you don't just give this method an empty body. If so see the next section for

more details.

The getNext() method will be called repeatedly by the controller untill it returns NULL. It should return an array with values in every other case.

uid If you return real pages from the pages table, you can return just

its uid and the URL will be generated for you.

_OVERRIDE_HREF In all other cases you should set this field to the path from the pages

root. The domain and protocol will be appended by the controller.

Note

You should use the cObj given to the init()-method to generate the link. Else it might not work with realURL.

SYS LASTCHANGED

The time of the last change of the contents of this page as a unixtimestamp.

tx_extensiblesitemap_ frequency The expected frequency of changes to the contents of this page.

Note

You might want to use the constants in Tx_ExtensibleSitemap_Utility_Config.

See glossary for valid values.

tx_extensiblesitemap_
priority

The priority of this page compared to the remains of the website. You most likely would make this configurable via the config.

See glossary for valid values.

TX_EXTENSIBLESITEMAP_ ADDITIONAL_FIELDS This is were you could put custom extensions to the sitemaps protocol. It takes *any* string you submit and appends it. So you are responsible for the validity of the output. The controller will just pass this content through to the output.

All the above parameters are optional, as long if either uid or _OVERRIDE_HREF are present.

You can use your class by setting the name of the generator in TypoScript to your classname.

Namespaces

You can extend the sitemap protocol through namespaces. To avoid slowing of the sitemap generation for large sites this is simply done by returning a string in the field TX_EXTENSIBLESITEMAP_ADDITIONAL_FIELDS of the return array. This string will be added to the <url>-tag.

Warning

As your returned string won't be treated any further, you should make use of htmlspecialchars() when necessary.

Additionally you have to let the Controller know you make use of namespaces. The Controller calls the getRequiredNamespaces() method before writing the opening tag. You can return NULL if you don't make use of namespaces. If you do you should return an array where each line is a namespace you require.

You can either use an associate entry where the key is the name of the namespace and the value the uri for that namespace.

Or you can use a simple array where the value is the name of the namespace. If the namespace is known the uri will be added automatically.

See Tx_ExtensibleSitemap_Controller_Eid::\$namespaces for a list of known namespaces.

Note

getRequiredNamespaces() will be called prior to init().

Glossary

access-string

The access-string takes one of the following values:

Subscription (visible) an article which prompts users to pay to view

content.

Registration (visible) an article which prompts users to sign up for

an unpaid account to view content.

If you don't set the access-string or set it to an empty value this means that the full article is accessible to all users for at least thirty days.

This definition was taken from the official GoogleTM documentation on the news namespace [http://www.google.com/support/webmasters/bin/answer.py? answer=93992].

Note

Developers will find class constants for these in ${\tt Tx_ExtensibleSitemap_Utility_Config}.$

How frequently the page is likely to change. This value provides general information to search engines and may not correlate exactly to how often they crawl the page. Valid values are: always, hourly, daily, weekly, monthly, yearly, never.

Note

The value always should be used to describe documents that change each time they are accessed. The value never should be used to describe archived URLs.

Note

Please note that the value of this tag is considered a hint and not a command. Even though search engine crawlers may consider this information when making decisions, they may crawl pages marked hourly less frequently than that, and they may crawl pages marked yearly more frequently than that. Crawlers may periodically crawl pages marked never so that they can handle unexpected changes to those pages.

This definition was taken from sitemaps.org [http://www.sitemaps.org/protocol.php] and is licensed under the Creative Commons Attribution-ShareAlike License (version 2.5) [http://www.sitemaps.org/terms.php].

Note

Developers will find class constants for these in Tx_ExtensibleSitemap_Utility_Config.

genre-string Valid values for Genres are:

PressRelease (visible) an official press release.

12

changefreq

geme-sumg

Satire (visible) an article which ridicules its subject for

didactic purposes.

Blog (visible) any article published on a blog, or in a blog

format.

OpEd an opinion-based article which comes

specifically from the Op-Ed section of your

site.

Opinion any other opinion-based article not appearing

on an Op-Ed page, i.e., reviews, interviews,

etc.

UserGenerated newsworthy user-generated content which has

already gone through a formal editorial review

process on your site.

This definition was taken from the official GoogleTM documentation on the news namespace [http://www.google.com/support/webmasters/bin/answer.py? answer=93992].

Note

Developers will find class constants for these in Tx_ExtensibleSitemap_Utility_Config.

The priority of this URL relative to other URLs on your site. Valid values range from 0.0 to 1.0. This value does not affect how your pages are compared to pages on other sites—it only lets the search engines know which pages you deem most important for the crawlers.

The default priority of a page is 0.5.

Please note that the priority you assign to a page is not likely to influence the position of your URLs in a search engine's result pages. Search engines may use this information when selecting between URLs on the same site, so you can use this tag to increase the likelihood that your most important pages are present in a search index.

Also, please note that assigning a high priority to all of the URLs on your site is not likely to help you. Since the priority is relative, it is only used to select between URLs on your site.

This definition was taken from sitemaps.org [http://www.sitemaps.org/protocol.php] and is licensed under the Creative Commons Attribution-ShareAlike License (version 2.5) [http://www.sitemaps.org/terms.php].

priority