

ScriptGenerator in Cocoon (2.1 legacy document)

Table of contents

1 Comments.....5

Table of contents

1 ScriptGenerator.....	3
2 Description.....	3
3 Usage.....	3
3.1 Sitemap pipeline examples.....	3
3.2 Sitemap component configuration example.....	3
3.3 Configuration.....	3
3.4 Setup.....	4
3.5 Effect on Object Model and Sitemap Parameters.....	5
4 Bugs/Caveats.....	5
5 History.....	5
6 See also.....	5

Warning:

This document was copied as is from the Cocoon 2.1 documentation, but has not yet been fully reviewed or moved to its new home.

1. ScriptGenerator

NAME	script
WHAT	The ScriptGenerator component is used to generate XML by invoking a script.
TYPE	Generator, Sitemap Component
BLOCK	bsf
CLASS	org.apache.cocoon.generation.ScriptGenerator
SINCE	Cocoon 2.1
CACHEABLE	no

2. Description

The ScriptGenerator executes arbitrary scripts using the Apache BSF framework and additional interpreter (Rhino, Jython, etc.) as a Cocoon Generator.

3. Usage

The ScriptGenerator is used primarily for prototyping a Cocoon generator. Moreover if the generator's XML output is low and the logic processing is high.

3.1. Sitemap pipeline examples

The following sample uses the ScriptGenerator for generating XML content for URIs matching the pattern *.js. The output of the script invoked by ScriptGenerator is serialized by the default serializer.

```
<map:match pattern="*.js"> <map:generate type="script" src="{0}" > </map:generate>
<map:serialize/> </map:match>
```

3.2. Sitemap component configuration example

The following sample declares the ScriptGenerator in the sitemap's component section. The ScriptGenerator can be used in the sitemap's section using type value script. In this sample no extra script language is declared.

```
<map:generators... <map:generator name="script"
src="org.apache.cocoon.generation.ScriptGenerator"
logger="sitemap.generation.scriptgenerator" /> <!-- optional generator configuration --> ...
</map:generators> ...
```

3.3. Configuration

The ScriptGenerator allows registering additional script languages.

List the newly registered language inside the add-language element, each language is defined in language element, by specifying the name of the language using the name attribute, and the language

BSF adaptor using the attribute src.

Each registered language should be mapped to at least one extension, as the language detection of ScriptGenerator is based on the script's extension.

The following sample register an new language foobar, the BSF adaptor class is foo.bar.ScriptLanguage, and it is associated with the extensions foo, and bar.

```
<add-language> <language name="foobar" src="foo.bar.ScriptLanguage">
<extension>foo</extension> <extension>bar</extension> </language> ... </add-language>
```

The next table lists the default mapping of BSF:

Extension	Script language
javascript	js
jacl	jacl
netrexx	nrx
java	java
javaclass	class
bml	bml
vbscript	vbs
jscript	jss
jscript	jss
perlscript	pls
perl	pl
jpython	py
lotusscript	lss
xslt	xslt
pnuts	pnut
beanbasic	bb

3.4. Setup

ScriptGenerator registers following objects before invoking the script:

Name	Object Typ	Comment
resolver	Resolver	Cocoon's resolver
source	Source	src attribute of this ScriptGenerator
objectModel	Map	Cocoon's objectModel
parameters	Parameters	paramters of this ScriptGenerator
output	StringBuffer	XML content, forwarded into

		Cocoon's XML pipeline
logger	Logger	logger of this ScriptGenerator

The script shall write XML content into the StringBuffer object output. The content of output is parsed by the ScriptGenerator and forwarded into the sitemap pipeline.

3.5. Effect on Object Model and Sitemap Parameters

none

4. Bugs/Caveats

ScriptGenerator expects the script to write the XML content into the passed object output.

Be aware to provide script language implementation, beside BSF implementation.

5. History

07-24-03: initial creation

6. See also

A general documentation about generators is available at [generators](#).

Further Documentation about Apache BSF is available [here](#).

1. Comments

add your comments