

WikiRenderer

This is a small sample Forrest webapp (available for download [here](#)), which demonstrates Forrest's support for Wiki content by rendering a [directory full of Wiki text files](#). While mainly done as an exercise and demonstration, having PDF renditions of Wiki content (including aggregations) may prove useful to some.

1. Wiki parsing

All the hard work of parsing is done by the [Chaperon](#) parser, using the `wiki.grm` grammar from Cocoon's samples. This allows us to convert Wiki syntax into Forrest's [document-v12](#) format, which can then be rendered to HTML or PDF. Many thanks to Stephan Michels for making this possible!

2. Navigation

A directory, `src/documentation/content/xdocs/wiki/`, contains a selection of Wiki files from the [Cocoon Wiki](#):

```
[wikirenderer ~]$ ls src/documentation/content/xdocs/wiki
ApacheModProxy.cwiki          DistributingCocoonApplications.cwiki
AuthWithTomcat.cwiki         EXistInCocoon.cwiki
BeginnerInstallTomcatUnix.cwiki  ForrestProposal.cwiki
BeginnerInstallTomcatWindows.cwiki  index.cwiki
BeginnerSimpleWebappOrganisation.cwiki  Jars2exclude.cwiki
BlocksDefinition.cwiki        JBossDeployment.cwiki
book.xml                      ModularDatabaseActions.cwiki
CommandLine.cwiki            OlderNews.cwiki
ConfiguringTheLogs.cwiki     OpenOfficeGeneration.cwiki
```

RhinoWith
Separatio
TextForma
WoodySamp
XMLFormXi
XMLFormXi
XSPSyntax

A menu for this directory is auto-generated by overriding `navigation.xmap`, and defining this matcher:

```
<map:match pattern="wiki/book.xml">
  <map:generate type="directory" src="content/xdocs/wiki">
    <map:parameter name="dateFormat" value="yyyy-MM-dd hh:mm" />
  </map:generate>
  <map:transform src="resources/stylesheets/directory2book.xsl" />
  <map:serialize type="xml" />
</map:match>
```

The ['directory' generator](#) generates an XML directory listing of the `wiki/` directory. The

directory2book.xsl stylesheet transforms this into Forrest's book.xml menu format. The result is that wiki/*.html URLs all have a menu with links to other Wiki pages.

3. Aggregation

Having a [single page](#) of all Wiki content is useful for printing or searching. This is achieved by overriding the forrest.xmap sitemap, which defines the XML for raw pages, and defining a wiki/combined.xml page source:

```
<map:match pattern="wiki/combined.xml">
  <map:generate type="directory" src="content/xdocs/wiki">
    <map:parameter name="dateFormat" value="yyyy-MM-dd hh:mm" />
  </map:generate>
  <map:transform src="resources/stylesheet/directory2cinclude.xsl" />
  <map:transform type="cinclude"/>
  <map:transform src="resources/stylesheet/docs2document.xsl" />
  <map:transform type="idgen"/>
  <map:serialize type="xml"/>
</map:match>
```

Once again, we use the [DirectoryGenerator](#) to create an XML listing of all files in the wiki/ directory. This is then transformed by directory2cinclude.xsl into food for the [CIncludeTransformer](#), of the form:

```
<content>
  <cinclude:include src="cocoon:/wiki/ApacheModProxy.xml"/>
  <cinclude:include src="cocoon:/wiki/AuthWithTomcat.xml"/>
  <cinclude:include src="cocoon:/wiki/BeginnerInstallTomcatUnix.xml"/>
  <cinclude:include src="cocoon:/wiki/BeginnerInstallTomcatWindows.xml"/>
  <cinclude:include src="cocoon:/wiki/BeginnerSimpleWebappOrganisation.xml"/>
  <cinclude:include src="cocoon:/wiki/BlocksDefinition.xml"/>
  ...
</content>
```

The CIncludeTransformer then pulls in the content from each referenced pipeline to form one large XML file of all Wiki content.

The docs2document.xsl stylesheet then converts <document> tags to <section> tags, so the result is valid doc-v12 XML. The idgen transformer derives a #fragment-identifier for each section. These will be used in the mini-TOC at the top of the page. Title collisions are resolved to render each #identifier unique within the aggregated page.

Once the combined.xml matcher is defined, nothing else is required; the [combined.html](#) and [combined.pdf](#) pages can now be rendered.

Warning:

The [combined PDF](#) is 150 pages (581k), and requires more than the default 64MB allocated to the JVM to render. This can be fixed by running your JVM with a `-Xmx128m` flag, for example in `CATALINA_OPTS`