

Serializer

The end point of a [Pipeline](#). Its inputs are [SAX](#) events. It outputs a presentation of those events. i.e. it performs the function of *rendering* the results of a request.

The basic Serializer turns a series of [SAX](#) events into an XML document.

Declaration

Serializers are configured in the [Sitemap](#)

```
<map:serializers default="html">
  <map:serializer name="xml"
    mime-type="text/xml"
    src="org.apache.cocoon.serialization.XMLSerializer"/>
  <map:serializer name="html"
    mime-type="text/html"
    src="org.apache.cocoon.serialization.HTMLSerializer"/>
  <map:serializer name="fo2pdf"
    mime-type="application/pdf"
    src="org.apache.cocoon.serialization.FOPSerializer"/>
  <map:serializer name="vrml"
    mime-type="model/vrml"
    src="org.apache.cocoon.serialization.TextSerializer"/>
  <map:serializer name="text"
    mime-type="text/plain"
    src="org.apache.cocoon.serialization.TextSerializer"/>
  ...
</map:serializers>
```

The default attribute on the serializers element indicates the default serializer to use if a pipeline does not explicitly declare one.

Usage

Sample usage:

```
<map:match pattern="hello.html">
  <map:generate src="docs/samples/hello-page.xml"/>
  <map:transform src="stylesheets/page/simple-page2html.xsl"/>
  <map:serialize type="html"/>
</map:match>
```

Available Implementations

Serializers are provided to produce HTML, XML, PDF, WAP, VRML, amongst others:

- [HTML_Serializer](#) – serializes XHTML into valid HTML
- XML Serializer – simply turns SAX events into an XML document
- Text Serializer – text-tags from XML
- WAP/WML Serializer – ??
- SVG Serializer – converts SVG documents (may be slightly behind REC) into JPEG or PNG images, using [Batik](#) Transcoder
- SVG/XML Serializer – ??
- VRML Serializer –
- Link Serializer –
- PDF Serializer – turns XSL:FO into PDF using [FOP](#)
- PS Serializer – turns XSL:FO into PS using [FOP](#)
- PCL Serializer – turns XSL:FO into PCS using [FOP](#)
- [XLSSerializer](#) – turns gnumeric formatted XML an [ExcelGeneration](#)
- RTF Serializer – turns XSL:FO into RTF using jfor (MS Word compatible)