

Transformer

The processing part of a [Pipeline](#). Its inputs and outputs are both [SAX](#) events. The output stream is the result of some processing, which may involve an [XSLT](#) transformation.

Declaration

```
<map:transformers default="xslt">
  <map:transformer name="xslt" src="org.apache.cocoon.transformation.TraxTransformer">
    <use-store map:value="true"/>
    <use-request-parameters map:value="false"/>
    <use-browser-capabilities-db map:value="false"/>
  </map:transformer>
  <map:transformer name="log" src="org.apache.cocoon.transformation.LogTransformer"/>
  ...
</map:transformers>
```

The default attribute on the transformers element indicates the default transformer 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>
```

Standard Transformers

The simplest transformer provided is the XalanTransformer (and presumably one of these performing an identity transform). Several transformers are provided with Cocoon:

- [XSLTTransformer](#) – reads [XSLT](#) stylesheet from file system or URL and transforms the event stream using it. Can use several XSLT implementations
- [I18NTransformer](#) – uses XML dictionary to translate content into other languages
- [Log Transformer](#) – useful for debugging, copies SAX events into a file or the STDOUT of the servlet engine. Not thread safe
- [SQLTransformer](#) – allows interaction with a database, produces XML results from database data. cf: [OracleXSQL](#)
- [Filter Transformer](#) – allows filtering of content, particularly useful with [SQLTransformer](#), as it allows results to be chunked into pages.
- [Read/Write DOM Session Transformers](#) – extracts a DOM object from the session and inserts it into the SAX event stream
- [XInclude Transformer](#) – [XInclude](#) implementation, performs inclusions if [XInclude](#) elements present in stream
- [CInclude Transformer](#) – 'Cocoon Include', cocoon-specific, but higher performing and more versatile.
- [XT Transformer](#) – allows use of XT, which isn't TRAX compatible
- [LDAP Transformer](#) – allows querying of LDAP directory, not part of distribution
- [LuceneIndexTransformer](#) – creates Lucene indexes, for searching. Available in the Lucene block in C2.1.

Additional Transformers

- [Xindice](#) – interact with an XML database (such as <http://xml.apache.org/xindice/>).
- [BetwixtTransformer](#) – serialize a Bean to XML using [Betwixt](#) (analogue to [CastorTransformer](#)).

Implementing transformers

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