

Smooks Example - xslt-basic

The primary goals of this example are to introduce you to the following:

1. A very basic **Fragment** Transformer written in XSLT.
2. The Smooks configuration file.
3. Executing the Smooks Transformation.

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To Build: "mvn clean install"

To Run: "mvn exec:java"

The Fragment Transformer

In this example we build a very simple (silly) fragment transformer in XSLT. The applied transform is exactly the same as that carried out in the "java-basic" tutorial. Sure, it's totally trivial. The point of this tutorial is purely to demonstrate how to hook in a fragment transformer into Smooks. More realistic usecases can be seen in some of the [other tutorials](#).

So here's the XSLT we use in this tutorial:

```
<!-- /example/BasicJavaTransformer.xsl -->
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  version="1.0">

  <xsl:output method="xml" encoding="UTF-8" />

  <xsl:template match="b">
    <xxx></xxx>
  </xsl:template>

</xsl:stylesheet>
```

It simply generates an "<xxx></xxx>" fragment for the currently matching "b" context element.

The Smooks Configuration

In order to apply this transformer to a message fragment, a [Smooks Configuration](#) needs to be created. This configuration will target the transformer at a particular message fragment.

Here's the configuration ("smooks-config.xml"):

```
<?xml version="1.0"?>
<smooks-resource-list xmlns="http://www.milyn.org/xsd/smooks-1.1.xsd"
  xmlns:xsl="http://www.milyn.org/xsd/smooks/xsl-1.1.xsd">

  <xsl:xsl applyOnElement="c/b">
    <xsl:template>/example/BasicXslTransform.xsl</xsl:template>
  </xsl:xsl>

</smooks-resource-list>
```

As with the [java-basic](#) tutorial, the resource-config tells Smooks to apply the "/example/BasicJavaTransformer.xsl" **resource** on all elements that are enclosed by a parent <c> element.

So, taking the sample message supplied with this example:

```
<a>
  <b>
    <c>
      <b></b>
    </c>
  </b>
</a>
```

Smooks produces the following output(same as with the [java-basic tutorial](#)):

```
<a>
  <b>
    <c>
      <xxx></xxx>
    </c>
  </b>
</a>
```

Executing The Transformation

Again, it's exactly the same as with the [java-basic tutorial](#):

```
// Instantiate Smooks with the config...
Smooks smooks = new Smooks("smooks-config.xml");

// Filter the input message to the outputWriter...
smooks.filter(new StreamSource(messageInStream), new
StreamResult(messageOutStream));
```

Of course, you'd typically cache the [Smooks](#) instance.

See the [example/Main.java](#) in the example source.