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# XSLT - On the Client

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XSLT can be used to transform the document to XHTML in your browser.

## A JavaScript Solution

In the previous chapters we have explained how XSLT can be used to transform a document from XML to XHTML. We did this by adding an XSL style sheet to the XML file and let the browser do the transformation.

Even if this works fine, it is not always desirable to include a style sheet reference in an XML file (e.g. it will not work in a non XSLT aware browser.)

A more versatile solution would be to use a JavaScript to do the transformation.

By using a JavaScript, we can:

- · do browser-specific testing
- use different style sheets according to browser and user needs

That is the beauty of XSLT! One of the design goals for XSLT was to make it possible to transform data from one format to another, supporting different browsers and different user needs.

### The XML File and the XSL File

Look at the XML document that you have seen in the previous chapters:

#### View the XML file.

And the accompanying XSL style sheet:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"</pre>
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
 <h2>My CD Collection</h2>
 Title
    Artist
  <xsl:for-each select="catalog/cd">
    <xsl:value-of select="title" />
    <xsl:value-of select="artist" />
   </xsl:for-each>
 </xsl:template>
</xsl:stylesheet>
```

View the XSL file.

Notice that the XML file does not have a reference to the XSL file.

IMPORTANT: The above sentence indicates that an XML file could be transformed using many different XSL style sheets.

# Transforming XML to XHTML in the Browser

Here is the source code needed to transform the XML file to XHTML on the client:

### Example

```
<!DOCTYPE html>
<html>
<head>
<script>
function loadXMLDoc(filename)
if (window.ActiveXObject)
  {
  xhttp = new ActiveXObject("Msxml2.XMLHTTP");
  }
else
  {
  xhttp = new XMLHttpRequest();
xhttp.open("GET", filename, false);
try {xhttp.responseType = "msxml-document"} catch(err) {} // Helping IE11
xhttp.send("");
return xhttp.responseXML;
function displayResult()
xml = loadXMLDoc("cdcatalog.xml");
xsl = loadXMLDoc("cdcatalog.xsl");
```

```
// code for IE
if (window.ActiveXObject || xhttp.responseType == "msxml-document")
  {
  ex = xml.transformNode(xsl);
  document.getElementById("example").innerHTML = ex;
// code for Chrome, Firefox, Opera, etc.
else if (document.implementation && document.implementation.createDocument)
  xsltProcessor = new XSLTProcessor();
  xsltProcessor.importStylesheet(xsl);
  resultDocument = xsltProcessor.transformToFragment(xml, document);
  document.getElementById("example").appendChild(resultDocument);
}
</script>
</head>
<body onload="displayResult()">
<div id="example" />
</body>
</html>
```

Try it Yourself »

Tip: If you don't know how to write JavaScript, please study our <u>JavaScript tutorial</u>.

## **Example Explained:**

#### The loadXMLDoc() function does the following:

- Create an XMLHttpRequest object
- Use the open() and send() methods of the XMLHttpRequest object to send a request to a server
- · Get the response data as XML data

#### The displayResult() function is used to display the XML file styled by the XSL file:

- · Load XML and XSL files
- · Test what kind of browser the user has
- If Internet Explorer:
  - Use the transformNode() method to apply the XSL style sheet to the xml document
  - Set the body of the current document (id="example") to contain the styled xml document
- If other browsers:
  - · Create a new XSLTProcessor object and import the XSL file to it
  - Use the transformToFragment() method to apply the XSL style sheet to the xml document
  - Set the body of the current document (id="example") to contain the styled xml document

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