Instructions for the Xalan extension

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1. Introduction

This page describes how to generate barcodes in <u>SVG format</u> within an XSLT stylesheet that is processed with <u>Apache Xalan-J</u>.

2. Using the barcode extension for Apache Xalan

This package contains an extension for <u>Apache Xalan</u> for generating barcodes in SVG format.

To make to barcode extension available in your XSLT stylesheets, do the following:

- Add barcode4j.jar to the classpath.
- Add the following namespace declaration to the root element of your XSLT stylesheet: xmlns:barcode="org.krysalis.barcode4j.xalan.BarcodeExt"
- Add the barcode namespace prefix to the extension element prefixes:
 extension-element-prefixes="barcode"

Here's an example:

```
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:fo="http://www.w3.org/1999/XSL/Format"
  xmlns:barcode="org.krysalis.barcode4j.xalan.BarcodeExt"
  extension-element-prefixes="barcode">
```

3. Using the "generate" function

To generate a barcode use the **barcode:generate(NodeList, String)** function:

- 1. NodeList: the barcode configuration (See example below and the <u>Barcode XML format</u>).
- 2. String: the message to be encoded

Here's an example:

```
<xsl:copy-of select="barcode:generate($barcode-cfg, '0123456789')"/>
</fo:instream-foreign-object>
</fo:block>
```

4. Using the barcode extension element

Warning:

Xalan has a <u>bug</u> that causes a NullPointerException in FOP. Please use the extension function above until a new Xalan version is release. The bug is fixed in the codebase but no release has happened since.

To generate a barcode, simply put a barcode element in the namespace declared above into your stylesheet. The barcode element currently takes one attribute: **message**.

Here's an example:

The XML syntax used within the barcode element is the <u>Barcode XML</u>.

The attribute "orientation" specifies the orientation of the barcode in degrees. The attribute is optional and if set must be one of the following values: 0, 90, -90, 180, -180, 270, -270.