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:

```
  <fo:block>
    <fo:instream-foreign-object>
      <xsl:variable name="barcode-cfg">
        <barcode>
          <code128>
            <height>8mm</height>
          </code128>
        </barcode>
      </xsl:variable>
```

```
      <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 bug 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:

```
<fo:block>
  <fo:instream-foreign-object>
    <barcode:barcode message="0123456789">
      <barcode:code128>
        <barcode:height>8mm</barcode:height>
      </barcode:code128>
    </barcode:barcode>
  </fo:instream-foreign-object>
</fo:block>
```

The XML syntax used within the barcode element is the Barcode XML.