

# Instructions for the SAXON extension

by Jeremias Märki

## Table of contents

1 Introduction.....	2
2 Using the barcode extension for SAXON.....	2
3 Extension for SAXON 6.5.x.....	3

## 1 Introduction

This page describes how to generate barcodes in [SVG format](#) within an XSLT stylesheet that is processed with the [SAXON XSLT Processor from Michael Kay](#).

## 2 Using the barcode extension for SAXON

This package contains an extension for [SAXON](#) for generating barcodes in SVG format. It has been tested with SAXON 8.8 but should work with version 8.7.1 and later. The extension is found under "src/saxon8".

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

- Add `barcode4j.jar` to the classpath. (Barcode4J must have been compiled with SAXON support in the first place.)
- Add the following namespace declaration to the root element of your XSLT stylesheet:  
`xmlns:barcode="java:/org.krysalis.barcode4j.saxon8.BarcodeExtensionElementFactory"`
- 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=
    "java:/org.krysalis.barcode4j.saxon8.BarcodeExtensionElementFactory"
  extension-element-prefixes="barcode">
```

To generate a barcode use simply use the "barcode" element in your template as indicated in the example:

```
<fo:block>
  <fo:instream-foreign-object>
    <barcode:barcode message="{msg}" orientation="90">
      <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](#).

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.

### 3 Extension for SAXON 6.5.x

---

Barcode4J contains an extension for SAXON 6.5.x but it is no longer maintained and not part of the binary distribution anymore. The extension is found under "src/saxon".

The usage of the old SAXON extension is similar to the one above with the following differences:

- The "orientation" attribute is not supported.
- The URI for the barcode extension is "http://barcode4j.krysalis.org/org.krysalis.barcode4j.saxon.BarcodeExtensionElementFactory" instead of "java:/org.krysalis.barcode4j.saxon8.BarcodeExtensionElementFactory".