FOP Development: SVG Issues

Version 627324

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See also SVG User Documentation for more information.

1 Examples

These examples illustrate a number of issues relating to conversion to PDF:

	svg file	png file	pdf result
images	images.svg	images.png	images.pdf
svg linking	link.svg	link.png	link.pdf
gradients and patterns	paints.svg	paints.png	paints.pdf
various text and effects on text	text.svg	text.png	text.pdf
transparent objects	transparency.svg	transparency.png	transparency.pdf

Table 1: SVG to PDF examples

As can be seen most of the specific issues are handled.

> **Note:**
> You will need Acrobat 5.0 to see transparency.

	fo file	pdf result
embedding svg	embedding.fo	embedding.fo.pdf

Table 2: XSL:FO to PDF examples

2 Developer Notes

For most output formats in FOP the SVG is simply drawn into an image with Batik. For PDF there are a set of classes to handle drawing the GVT (Graphic Vector Toolkit) into PDF markup.

2.1 Classes

These are the relevant classes, found in the package org.apache.fop.svg :

- *PDFGraphics2D*
  used for drawing onto a Graphics2D into an existing pdf document, used internally to draw the svg.
- *PDFDocumentGraphics2D*
  used to create a pdf document and inherits from PDFGraphics2D to do the rest of the drawing. Used by the transcoder to create a standalone pdf document from an svg. Can be used independantly the same as any Graphics2D.
- *PDFTranscoder*
  used by Batik to transcode an svg document into a standalone pdf, via PDFDocumentGraphics2D.

2.2 Ideas

Batik can convert ttf to svg font. This svg font could be converted into a pdf stroked font (type 3 font).