# Apache™ FOP Development: SVG Issues

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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).