

# 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	<a href="#">images.svg</a>	<a href="#">images.png</a>	<a href="#">images.pdf</a>
svg linking	<a href="#">link.svg</a>	<a href="#">link.png</a>	<a href="#">link.pdf</a>
gradients and patterns	<a href="#">paints.svg</a>	<a href="#">paints.png</a>	<a href="#">paints.pdf</a>
various text and effects on text	<a href="#">text.svg</a>	<a href="#">text.png</a>	<a href="#">text.pdf</a>
transparent objects	<a href="#">transparency.svg</a>	<a href="#">transparency.png</a>	<a href="#">transparency.pdf</a>

**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	<a href="#">embedding.fo</a>	<a href="#">embedding.fo.pdf</a>

**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**

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