

jcgm -- Developer How-To

Version 43

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1 Examples

The examples presented here are part of the distribution in the `net.sf.jcgm.example` package (except for the PDF file example).

1.1 Reading and Displaying a CGM File

```
try {
    File cgmFile = new File("test.cgm");
    // create an input stream for the CGM file
    DataInputStream in = new DataInputStream(new FileInputStream(cgmFile));

    // read the CGM file
    CGM cgm = new CGM();
    cgm.read(in);
    in.close();

    // display the CGM file
    CGMDisplay display = new CGMDisplay(cgm);
    final CGMPanel cgmPanel = new CGMPanel(display);
}
catch (IOException e) {
    ...
}
```

1.2 Converting a CGM File to Another Graphic Format

Since the jcgm library implements an ImageIO plugin, it makes it easy to convert from CGM to any format supported by Java.

```
try {
    File cgmFile = new File("samples/allelm01.cgm");
    File outFile = new File("samples/allelm01.png");
    BufferedImage image = ImageIO.read(cgmFile);
    ImageIO.write(image, "PNG", outFile);
}
catch (IOException e) {
    ...
}
```

1.3 Producing a PDF file containing CGM graphics

Note:

Assumption is made that a PDF file can be produced via XSL/FO already, [Apache FOP](#) is a convenient processor for this.

- You need to include the `jcgm-image` library in your class path.
- In your XSLT, somewhere you will add:
`<fo:external-graphic src="url('samples/allelm01.cgm')"/>`
- Done