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# Java en PDF

Manipuleren van PDF documenten in Java

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## Aanmaken van documenten met FOP

```
import java.io.ByteArrayOutputStream;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.IOException;
import java.io.Reader;
import java.io.Serializable;

import javax.xml.transform.Result;
import javax.xml.transform.Source;
import javax.xml.transform.Transformer;
import javax.xml.transform.TransformerConfigurationException;
import javax.xml.transform.TransformerException;
import javax.xml.transform.TransformerFactory;
import javax.xml.transform.dom.DOMSource;
import javax.xml.transform.sax.SAXResult;
import javax.xml.transform.stream.StreamSource;

import org.apache.avalon.framework.logger.ConsoleLogger;
import org.apache.avalon.framework.logger.Logger;
import org.apache.fop.apps.Driver;
import org.apache.fop.messaging.MessageHandler;
import org.w3c.dom.Document;

public class PdfDocument
implements Serializable {

    private byte[] document;

    public PdfDocument(Document bericht, File template )
    throws FileNotFoundException, IOException, TransformerConfigurationException, TransformerException {

        document = createDocument(bericht, new FileReader(template));
    }

    public byte[] getDocument() {
        return document;
    }

    private byte[] createDocument(org.w3c.dom.Node bericht, Reader template)
    throws TransformerConfigurationException, TransformerException {

        //Construct FOP driver
        Driver driver = new Driver();

        //Disable the Batic logger
        Logger logger = new ConsoleLogger(ConsoleLogger.LEVEL_DISABLED);
        driver.setLogger(logger);
        MessageHandler.setScreenLogger(logger);

        //Setup FOP renderer (output format)
        driver.setRenderer(Driver.RENDER_PDF);

        //Setup output buffer
        ByteArrayOutputStream newPdf = new ByteArrayOutputStream();
        driver.setOutputStream(newPdf);

        //Setup XSLT
        TransformerFactory factory = TransformerFactory.newInstance();
        Transformer transformer = factory.newTransformer(new StreamSource(template));

        //Setup input for XSLT transformation
```

```
        Source src = new DOMSource(bericht);

        //Resulting SAX events (the generated FO) must be piped through to FOP
        Result res = new SAXResult(driver.getContentHandler());

        //Start XSLT transformation and FOP processing
        transformer.transform(src, res);

        return newPdf.toByteArray();
    }
}
```

### Opslaan in file

```
public void sendToFile(File outFile)
throws IOException {
    FileOutputStream out = new FileOutputStream(outFile);

    out.write(document);
    out.flush();
    out.close();
}
```

### Afdrukken op System.out

### Weergeven op het web

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