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Java en XML

Truuks voor het verwerken van XML berichten binnen Java

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XML

Aanmaken xml document en elementen

```
private org.w3c.dom.Document document;

public void createDocument()
throws ParserConfigurationException {
    DocumentBuilderFactory factory = DocumentBuilderFactory.newInstance();

    DocumentBuilder builder = factory.newDocumentBuilder();
    document = builder.newDocument();

    // Create the root document
    org.w3c.dom.Element docElement = document.createElement("Document");
    document.appendChild(docElement);

    // Create a sub element
    Element briefElement = document.createElement("Brief");
    docElement.appendChild(briefElement);

    // Create a text
    briefElement.appendChild(document.createTextNode("Marc"));
}
```

Afdrukken en output

```
import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.ParserConfigurationException;
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.stream.StreamResult;
...
private org.w3c.dom.Document document;
...
public void print(PrintStream out)
throws TransformerConfigurationException, TransformerException {
    Source source = new DOMSource(document);
    Result result = new StreamResult(out);

    Transformer xformer = TransformerFactory.newInstance().newTransformer();
    xformer.transform(source, result);
    out.println();
}
```

Aanroepen met `this.print(System.out);`

toString()

```
public String toString(){
    ByteArrayOutputStream output = new ByteArrayOutputStream();

    Source source = new DOMSource(document);
    Result result = new StreamResult(output);
```

```
try {
    Transformer xformer = TransformerFactory.newInstance().newTransformer();
    xformer.transform(source, result);
} catch (TransformerConfigurationException e) {
    return new String("Error creating XML output");
} catch (TransformerException e) {
    return new String("Error creating XML output");
}

return output.toString();
}
```

XSLT

XSLF

Zie ook [XslFo].

XSLF in Eclipse

- Get binary from: <http://xmlgraphics.apache.org/fop>

De volgende libraries toevoegen:

- fop-0.20.5/build/fop.jar
- fop-0.20.5/build/lib/avalon-frameworks-cvs-20020806.jar
- fop-0.20.5/build/lib/batik.jar

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