JDOM and XSLT

XSLT: $xsl(xml) \times xml \rightarrow xml$

- Simple: class org.jdom2.transform.XSLTransformer

- More complex: JAXP TrAX classes
  - JDOMSource/JDOMResult as generic interfaces to XML representations

JDOM Output etc

- XMLOutputter

- predefined formats available

- for adding a DTD reference:
  document.setDocType(new DocType("*elementname*", "*dtdfilename*"));

```
import java.io.File;
import org.jdom2.input.SAXBuilder;
import org.jdom2.Document;
import org.jdom2.transform.XSLTransformer;
import org.jdom2.output.XMLOutputter;
import org.jdom2.output.Format;


public class MondialJDOMXSL {
  public static void main(String[] args) {
  try {
      SAXBuilder builder = new SAXBuilder();
      Document doc = (Document) builder.build(new File("mondial.xml"));
      XSLTransformer xsltr = new XSLTransformer("../../XSLT/mondial-simple.xsl");
      Document result = xsltr.transform(doc);
      Format fmt = Format.getPrettyFormat();
      fmt.setLineSeparator(System.getProperty("line.separator"));
        // default would be DOS/windows style \r\n
      XMLOutputter outputter = new XMLOutputter(fmt);
      outputter.output(result, System.out);
  } catch (Exception e) { e.printStackTrace(); }
}}                                    [Filename: java/JDOM/MondialJDOMXSL.java]
```

```java
import java.io.File;
import org.jdom2.input.SAXBuilder;
import org.jdom2.Document;
import org.jdom2.transform.JDOMSource;
import javax.xml.transform.*;
import javax.xml.transform.Transformer;
import javax.xml.transform.TransformerFactory;
import javax.xml.transform.stream.StreamResult;
import javax.xml.transform.stream.StreamSource;


public class MondialJDOMXSL2 {
  public static void main(String[] args) {
  try {
      SAXBuilder builder = new SAXBuilder();
      Document doc = (Document) builder.build(new File("mondial.xml"));
      TransformerFactory factory = TransformerFactory.newInstance();
      Source xsltSource = new StreamSource("../../XSLT/mondial-simple.xsl");
      Transformer transformer = factory.newTransformer(xsltSource);
      StreamResult result = new StreamResult("bla.xml");
      JDOMSource src = new JDOMSource(doc);
      transformer.transform(src, result);
      } catch (Exception e) { e.printStackTrace(); }
} }
```

[Filename: java/JDOM/MondialJDOMXSL2.java]