# What can we do with XML?

- To display XML data we need to transform it into some mark-up that devices like web browsers understand
- To transform XML we parse the XML through an **XSLT** document which matches the data and turns it into something else
- XSL means Extensible Style Language and XSLT is how the transforming part of the format is labelled

#### Here is the XML file books.xml

```
<?xml version="1.0" standalone="no"?>
<?xml-stylesheet type="text/xsl" href="books.xsl"?>
<!DOCTYPE Books SYSTEM "booklist.dtd">
<!-- Here begins the actual XML data -->
<books>
 <book>
 <title>Extra News about XML</title>
 <author>Fred Bloggs</author>
 <isbn>123456</isbn>
 </book>
 <book>
 <title>XML for beginners</title>
 <author>Ray Tommhos</author>
 <isbn>066585</isbn>
 </book>
 <book>
 <title>What is XML?</title>
 <author>Lizzie Smith</author>
 <isbn>155454</isbn>
 </book>
 <book>
 <title>Beyond XML</title>
 <author>Richard Havering</author>
 <isbn>78484</isbn>
 </book>
 <book>
 <title>XML for Monkeys</title>
 <author>Linda Crew</author>
 <isbn>8665783456</isbn>
 </book>
 <book>
 <title>Overhead with Tags</title>
 <author>Mandy Bluecoat</author>
 <isbn>345345</isbn>
 </book>
</books>
```

#### Here is the DTD file booklist.dtd

```
<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT books (book)>
<!ELEMENT book (title,author,isbn)>
<!ELEMENT title (#PCDATA)>
<!ELEMENT author (#PCDATA)>
<!ELEMENT isbn (#PCDATA)>
```

## Here is web page:

| Title                | Author           | ISBN       |
|----------------------|------------------|------------|
| Extra News about XML | Fred Bloggs      | 123456     |
| XML for beginners    | Ray Tommhos      | 066585     |
| What is XML?         | Lizzie Smith     | 155454     |
| Beyond XML           | Richard Havering | 78484      |
| XML for Monkeys      | Linda Crew       | 8665783456 |
| Overhead with Tags   | Mandy Bluecoat   | 345345     |

## Chris Jennings

### Here is the XSL file books.xsl

```
<?xml version='1.0'?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://</pre>
www.w3.org/1999/XSL/Transform">
<xsl:template match="/books">
 <html>
  <body>
   <strong>ISBN</strong>
    <xsl:for-each select="book">
    <xsl:value-of select="title"/>
     <xsl:value-of select="author"/>
     <xsl:value-of select="isbn"/>
     </xsl:for-each>
   </body>
 </html>
</xsl:template>
</xsl:stylesheet>
```