XSL Formatting Objects exercises

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The aim of this exercise is to familiarize yourself with transforming TEI XML documents to XSL Formatting Objects and displaying the result. To prepare:

- 1. Open a web browser and visit http://www.tei-c.org.uk/Talks/OUCS/2003-02/samples.zip; save the zip file to disk and unpack it in your working directory (ie H:\).
- 2. Visit http://users.ox.ac.uk/~rahtz/antenna.exe and open the program directly; this will run a setup program for the Antenna House XSL formatter. Just keep clicking on defaults until it is installed. Please note that the Antenna House Formatter is an evaluation copy of a commercial product! Contact the company, at http://www.antennahouse.com, if you want to use it outside this workshop!.

In the samples directory, you will find two files punch.xml (the familiar page from Punch), and punch-print.xsl (an XSLT stylesheet to format it to XSL formatting objects). The file punch.pdf is a rendering to PDF by an XSL FO engine. You can create a FO file (which is just XML, if you look at it) with the command

```
xsltproc -o punch.fo punch-print.xsl punch.xml
```

You can then load punch.fo into the Antenna House XSL Formatter (icon on your desktop), and see the effect. Load the .fo file using the [File]/[Open] meny (do not specify a style file) and choose 'Run formatter'. If you get errors, choose Formatter Options/File output, and check 'Error logging' to have them written to file instead of popping up. The stylesheet is calling a set of generalized XSLT stylesheets for rendering TEI documents to Formatting Objects. You can alter the effects by editing punch-print.xsl, which has a series of high-level variables. Many of these are irrelevant to something as simple as this document, but we suggest you try these changes:

Replace

```
<xsl:variable name="bodyFont">Times Roman</xsl:variable>
with

<xsl:variable name="bodyFont">Helvetica</xsl:variable>
to change the main font
Replace

<xsl:variable name="bodyMaster">10</xsl:variable>
```

with
<xsl:variable name="bodyMaster">14</xsl:variable>

to change the main font size

Replace

<xsl:variable name="numberHeadings">true</xsl:variable>

```
with
```

```
<xsl:variable name="numberHEadings"></xsl:variable>
```

to stop sections being numbered.

Now undertake a similar process with dickens.xml (Dickens' A Christmas Carol) and it's corresponding dickens-print.xsl. Look at the how page breaks are represented; you can change this by setting

```
<xsl:variable name="activePagebreaks"></xsl:variable>
to
```

```
<xsl:variable
   name="activePagebreaks">true</xsl:variable>
```

Can you see what it has done?

The <soCalled> elements in Dickens are rendering with this template:

```
<xsl:template match="soCalled">
  <xsl:text>'</xsl:text>'</xsl:text>'</xsl:text>
</xsl:template>
```

which just puts quotes around the text. If you add a new template to dickens-print.xsl as follows:

you should see a more visible rendition.

As a simple exercise, can you render all the <emph> elements with underlining?