TEI Transformation Exercise

Date:

1 Exercises part 1

All our exercises will be based on formatting a TEI XML file which describes gravestones in a cemetery, the people commemorated on them, and the inscriptions. You need to start by looking at the data file, data.xml in the tei directory, which is a subset of the cemetery data.

Your first set of tasks are as follows:

1. Produce a valid HTML document with a title, simply passing through all the text

   Sample solution: ex1.xsl, sample output ex1.html

2. For each stone, make a new <h2> division titled 'Stone ' plus the value of the 'id' attribute

   Sample solution: ex2.xsl, sample output ex2.html

3. Print the peoples' names in bold

   Sample solution: ex3.xsl, sample output ex3.html

4. Put spaces between surname and forename

   Sample solution: ex4.xsl, sample output ex4.html

5. Put each inscription in a block quote, and put a break at the end of every line; make the <emph> produce italics

   Sample solution: ex5.xsl, sample output ex5.html

6. Omit everything from the <person> except the contents of the <persName>, and put each person in a separate paragraph

   Sample solution: ex6.xsl, sample output ex6.html

7. Put the <died> element nicely after each person's name, and show their sex in brackets

   Sample solution: ex7.xsl, sample output ex7.html

8. Improve the formatting or information display in whatever way interests you; can you, for instance, centre the lines which have a with a 'p' attribute with a value of 'c'?

   Sample solution: ex8.xsl, sample output ex8.html

2 Exercises part 2

Now that we have the gravestones looking quite respectable, let us consider how we can present them in different ways. Most of these exercises are much simpler than they may seem at first sight!

1. Produce a table of contents for the catalogue as we left it in the final exercise of part 1; give each heading an identifier (the stone number will do), and produce a list of numbers at the start, linked to the right stone.

   Sample solution: ex10.xsl, sample output ex10.html

2. Produce the catalogue sorted in order of surname and forename of people commemorated

   Sample solution: ex11.xsl, sample output ex11.html

3. Produce the ordinary catalogue, but append an index of surnames (sorted in alphabetical order), where each name is an HTML links to the right stone number

   Sample solution: ex12.xsl, sample output ex12.html

4. Produce a summary table listing the stone number, the number of people commemorated, and the number of lines of inscription

   Sample solution: ex13.xsl, sample output ex13.html

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3 Exercises part 3

Now it starts getting a little less obvious:

1. Do the same catalogue that we produced at the end of the first set of exercises, but show only the *first* person and the *first* inscription. If there are other people or inscriptions, put in a paragraph saying eg 'there are *n* other people commemorated'. When you come to print an inscription, *number* the lines.

   Sample solution: ex20.xsl, sample output ex20.html

2. Make an exact copy of the input file, but put the stones in order of the year of death of the first person commemorated

   Sample solution: ex21.xsl, sample output ex21.xml

3. Using the file from the previous exercise, produce a catalogue of years in which people died. The year should be a <h2> heading, and should be followed by a numbered, list of the people (just surname and forenames) who died in that year, sorted by surname.

4. Can you do the last two exercises in a single step, with no intermediate file?

   Sample solution: ex23.xsl, sample output ex23.html