

Lab session for the *XLST and Document Transformation* lecture

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1 Installing the necessary software

The pieces of software you need can be found on the machine `pc01` in the directory `/home/server/XSLT` through `ssh`, or at `http://track2.ceenet.ceu.hu/XML/`.

It is probably easier to put everything in the same directory once more; if you do that at home you will probably install the different packages in more proper places.

You will need the following things:

- directory `jre1.2.2` and its `bin` directory in your `PATH` environment variable so that the command `java -fullversion` gives the right answer.
- Java classes `sax.jar`, `xp.jar`, `xt.jar`, so that the `CLASSPATH` environment variable points to them as follows for example:
`/home/sbi/java/sax.jar:/home/sbi/java/xp.jar:/home/sbi/java/xt.jar`.
- a shell function defined as explained in the lecture:

```
function xt() {  
    echo "XT $*" >&2  
    java com.jclark.xml.sax.Driver $*  
}
```

Same remark as in the other lab session as far as the points are concerned.

2 Trying the examples given in the lecture

Download the examples given in the lecture and try to reproduce the results (the `.html` files) from the `.xml` and `.xslt` files.

3 Working all from the same kind of file

You may choose to start the work on the file you ended up with this morning if you got that far, or download it from the server. No need to use a file with all the names but a number of different names and countries could be interesting.

4 Extracting data

Write a stylesheet to extract just the list of names from the XML file. Then sort that list.

Write a stylesheet that extracts the country names and the names from the XML file and writes them side by side. Then sort that list by country then by name.

5 Presentation of the data

Write a stylesheet to publish all the data with a list and sublists like shown in one example of the lecture.

Add if there is not already one, an attribute having two possible values (for example, the attribute `sex`) and change the colour of the name according to that value. If the attribute is not set then use a third colour.

6 Using tables

Write a stylesheet to present the data in a HTML table.

Sort that table according to one column, then according to another one.

Write a stylesheet to present the data in several HTML tables, regrouping people of the same sex.

7 Got this far?

If you got this far then tell me and look up the web references of the documentation I gave you to find something nice to do. Maybe you can add numbers to the entries and produce totals for some subsets of the people.