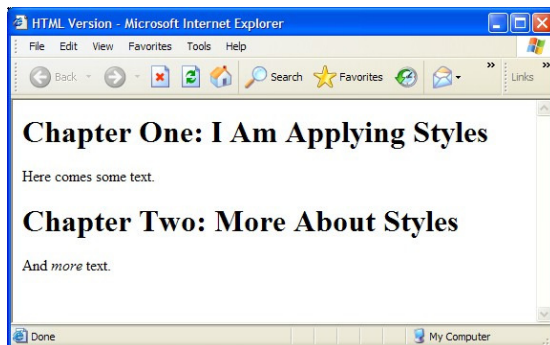


Use of Cascading Style Sheets (CSS) with HTML and XML Files

Step 1. Open <http://www.csis.ul.ie/coursemodule/CS4146/?wkid=3> and download the file **lab02files.zip**. Unzip **lab02files.zip**. You should have the following four files:

- **lab02.html**
- **lab02.xml**
- **lab02html.css**
- **lab02xml.css**

Step 2. Open **lab02.html** in a Web browser. You should see the following screen

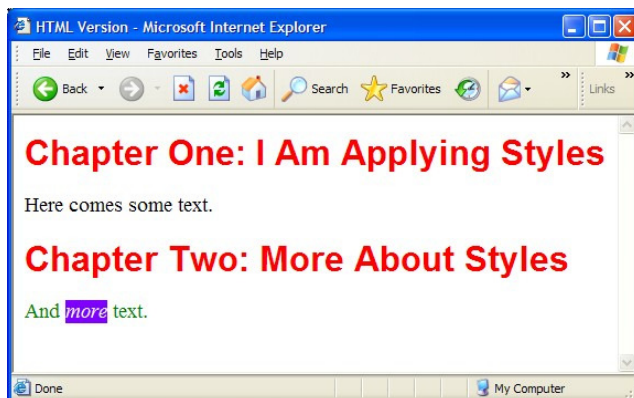


Step 3. Now open **lab02.html** in Notepad. Our first goal is to link **lab02.html** to the stylesheet **lab02html.css**. To do this we need to insert the line

```
<link rel="stylesheet" type="text/css" href="lab02html.css">
```

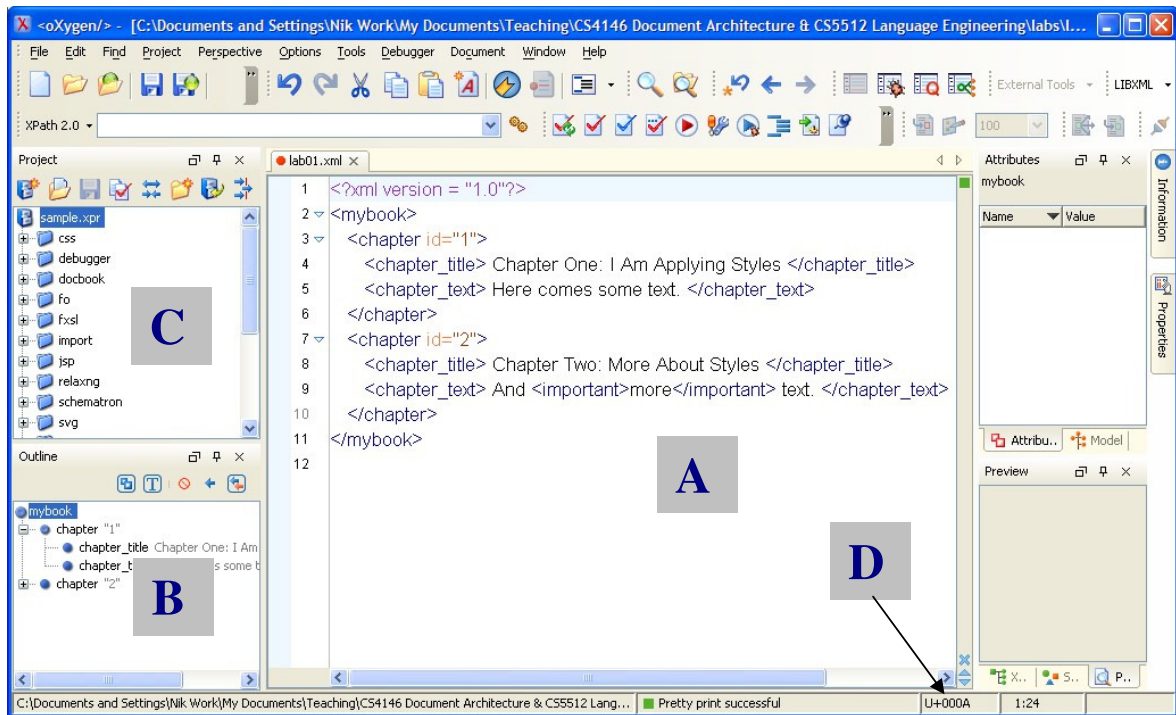
into the **head** element of **lab02.html** (after the **title** element).

Step 4. Now refresh **lab02.html** in your browser. You should see the following window (the headings in red and the second paragraph in green).



Step 5. The second goal of this exercise is to demonstrate how XML files can be used instead of HTML files for creating Web pages. We will use the XML Editor Oxygen 7.0.

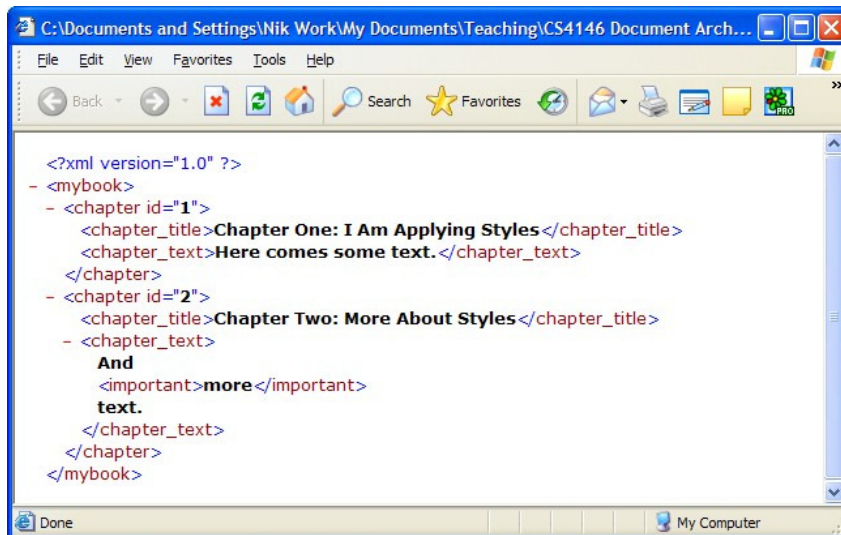
Step 6. Open **lab02.xml** in Oxygen 7.0. You should see the following.



Take your time to check out some features of Oxygen.

- You can increase or decrease the font size from the Document menu.
Document→Font size
- Window A contains the file that you have opened, i.e. **lab02.xml**.
- Window B contains a tree view of the XML document.
- Window C contains some example XML project. You can close it by clicking on the x button above it.
- Note that field D in the status bar shows the 16-bit code (Unicode) of the character which is right after the cursor in the main window A.

Step 7. Open **lab02.xml** with Internet Explorer as well. Do it by clicking with the right-button mouse on **lab02.xml** and choosing to open it with Internet Explorer. You should see the following window.

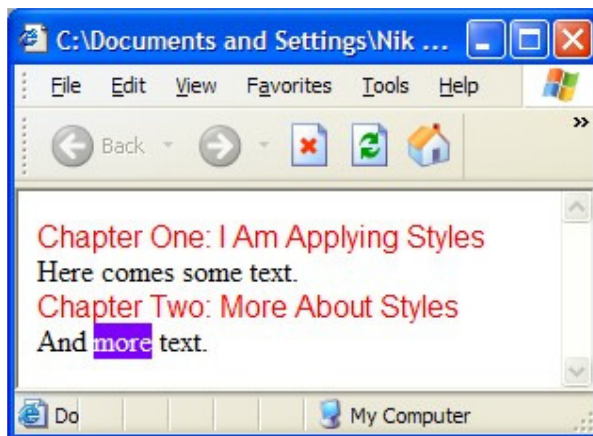


Step 8. Now we will link **lab02.xml** to the stylesheet **lab02xml.css** in order to change the way Internet Explorer display **lab02.xml**. (We will edit **lab02.xml** in Oxygen.) To link the XML file to the stylesheet we need to insert the following processing instruction

```
<?xml-stylesheet type="text/css" href="lab02xml.css"?>
```

after the xml declaration in **lab02.xml**, i.e. as a second line.

Step 9. Save **lab02.xml** in Oxygen and then refresh it in Internet Explorer. The result should look like



Step 10. Now open the two stylesheets **lab02html.css** and **lab02xml.css** in Oxygen and compare them. Find the meaning of the properties used in the stylesheets by browsing the list of properties in the specification of CSS 2.1 at <http://www.w3.org/TR/CSS21/propidx.html>.

Step 11. Can you apply “mystyle” to the subelement **chapter_text** of the second **chapter** element in **lab02.xml**?

Step 12. (Optional) You can learn more about the cascading stylesheets (CSS) from the following tutorials on the Web.

- Beginners: <http://www.w3.org/MarkUp/Guide/Style>
- Advanced: <http://www.webreference.com/authoring/style/sheets/layout/advanced/>