

Lab Practice - HTML

For all the following exercise you can refer to the online specification of the XHTML 1.0 language available at <http://www.w3.org/TR/xhtml1/>

Exercise 1

1. Open a text editor (e.g., Notepad++) and copy the following XHTML document template. Save the content in a file with the .html extension.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>...</title>
  </head>

  <body>
    ...
  </body>
</html>
```

2. Complete the page content by inserting a heading (at the appropriate level), a brief paragraph (you can generate some placeholder text at <http://www.lipsum.com>) and save the file.

3. Validate the XHTML document by means of the online W3C validator: <http://validator.w3.org/> (use Validate by direct input).

4. Open the document in a web browser and check it.

Exercise 2

Add a bulleted list containing

- 1) at least three elements
- 2) a further numbered

list with at least two elements.

Validate the document, and open it in a web browser. The lists should look like those in Fig. 1.

- Eggs,
- Milk,
- Vegetables:
 1. Tomatoes
 2. Bell peppers
 3. Potatoes

Figure 1: example of lists

Exercise 3

Add a second paragraph with a title and an image (ensure you add it the alt and title attributes). The image file should be downloaded from the Internet and stored in an images subfolder. The image URL should be specified as a relative path.

Validate the document, and open it in a web browser.

Exercise 4

Add a third paragraph containing the **em** and **strong** elements and embed the image available at the

http://upload.wikimedia.org/wikipedia/it/6/65/Bart_Simpson.png.

This image must be embedded in the document by specifying its original absolute URL.

By clicking on the image, it should be possible to load the original page containing the image (whose URL is http://it.wikipedia.org/wiki/File:Bart_Simpson.png).

Validate the document, and check it in a web browser.

Exercise 5

Add a table with at least 5 rows and 4 columns (including the headers/footers).

One of the table columns should contain numbers, and the corresponding footer column should contain the total sum of these values. Use the caption element for describing the table.

Validate the document, and check it in a web browser.

Exercise 6

Add a simple authentication form for entering a username and a password.
The form could be tested by binding it with the URL

http://latoserver.dimi.uniud.it/~pilutti/test_form.php.

Validate the document, and check it in a web browser.
Experiment by changing the HTTP method used for sending the form.

Exercise 7

Modify the form of the previous exercise by adding at least

- 1) a set of three (mutual exclusive) radio buttons,
- 2) a checkbox,
- 3) a multiple selection list with five items that allows the selection of at most two items.

Validate the document, and check it in a web browser.