

BITS Lab 2 – Attributes, Images and links

For this laboratory you will need a basic text editor (NOT Microsoft Word) and a browser. In the laboratories we recommend *notepad++* and *Firefox/Chrome*. In the labs, *notepad++* and *Firefox/Chrome* is available from the software distribution system

For this activity, you will need to download materials from the Week 2 link at

<http://www.barryavery.com>

Task 1 Creating a HTML document containing a list and a table of images

From the week 2 URL above, download the first Word document *campus*.

Implement this content as a web page called *campus.html*

Save your work as you progress, and check it in a browser regularly.

Hints: The page uses combinations of headings (h1) and paragraphs (p). There is also a bullet point list and a 2x2 table, which has images inside. You will need to save the images locally from the URL above (use a right mouse click and ensure that you save all the images and files in the same folder).

At the bottom of the page is a hyperlink that must be inserted. Check that it works correctly in a browser.

Task 2 Creating a more complex page

From the week 2 URL above, download the second Word document *about*.

Implement this content as a web page called *about.html*

Hints: The page uses combinations of headings (h1 and h2) and paragraphs (p). There is also a bullet point list and a table, with a header row. You will need to save the image locally from the URL above.

In the middle of the page is a hyperlink that must be inserted, which links to the page you created in Task 1. Check that it works correctly in a browser.

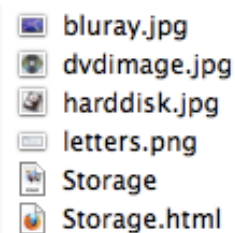
Task 3 Semantically marking up a page

In this exercise, you will take a web page which has been created in Word, and correct the markup.

Create a folder called *lab2task3* and from the URL above, download the compressed file *wordHTML.zip* into it.

Extract the contents – you should end up with 6 files

- 4 images
- the bad markup file, *storage.html*
- a PDF file containing the desired layout for the HTML, *storage.pdf*



Correct the file *storage.html* by removing and fixing the markup, so that it uses the minimum amount of HTML semantically (i.e. headings are H1, H2, paragraphs are P etc.).

Task 4 Validating the pages

You should have three pages, *campus.html*, *about.html* and *storage.html*

Use the validation service from the w3c web site to validate your pages. You will need to add some lines at the top of each page, which say the markup language you are using (xhtml), where the definition of the markup language can be found (the location of the doctype), and the type of character encoding you are using (utf-8).

This will be explained in greater detail later on in the course. For the moment you can copy these lines from <http://www.w3.org/QA/2002/04/valid-dtd-list.html>

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">

<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<title>...</title>
...
```

The validator can be found at <http://validator.w3.org/>

