

Web Design (COMP 20030)

Practical

Hyper Text Markup Language

Practical Exercises

Using the elements described in lectures, mark-up the following exercises in HTML5. Marks will be deducted for invalid HTML. You can check the validity of your code by submitting it to <http://validator.w3.org/>

Exercise 1

Create a web page that displays the following piece of text. Ensure that you use appropriate emphasis. Your browser should automatically word-wrap each paragraph according to the window size.

NEWS ITEM

“Professor *Steve Buchwald*’s catalytic methods for the formation of **C-N&C-F** bonds and the selective transformations of [], as exemplified in his excellent presentation this afternoon, have a major impact on synthetic chemistry with enormous applications in medicine & industry”

- Prof Andrew J Deeks' Press Release

This symposium consists of five lectures given by internationally distinguished professors in the field of **synthesis** and **chemical biology** and has been held annually since 2002. In addition to the five lectures, a poster session is held where PhD students present their research. #myucd <-- UCD Today

The answer to this question should include use of the **article**, **blockquote**, **cite**, **p**, **h1**, and **hr** elements. You will also have to use html entities.

Save this file as **q1.html** in the comp20030/practical1 folder.

Exercise 2

Create a web page that contains two tables.

The first **table** should represent modules you are enrolled to (or random modules from within UCD) in the first semester, while the second table should represent modules in the second semester. The columns of the tables should be: module code, module name, and semester. Each module should be on a different row. Table borders (the black lines) are unnecessary and are only present here for illustrative purposes.

Module code	Module name	Semester
COMP10110	Programming 1	1
MATH10200	Matrix Algebra	1

...

In the second table, have the column detailing the semester span all six rows using the *rowspan* attribute.

Module code	Module name	Semester

...

Save this file as **q2.html** in the comp20030/practical1 folder

Exercise 3

Create a nested unordered list **** which details the following menu structure. Each list item should link to an appropriate page on the UCD website, using the anchor tag **<a>**.

- Home
- Alumni
 - Network
 - Chapters
- Current Students
 - Exams
 - Fees
- Community
- News and Opinion

Below the list, place an image of the [UCD crest](#). The crest should be downloaded to your practical1 folder.

The crest should link to your exercise 1 (q1.html) when clicked. The *title* attribute should read “Link to UCD news!” while the *alt* attribute of the image should read “University College Dublin crest”

Finally, wrap the list in **nav** tags.

Save this file as **q3.html** in the comp20030/practical1 folder

Exercise 4

- Download the media file (exercise4) from Brightspace and extract the zip to your practical1/media folder.
- Place the single video of the bear on your web page (both formats). The video should have controls.
- Underneath the video place an iframe which displays the following page:
<http://en.m.wikipedia.org/wiki/Bear>

Save this file as **q4.html** in the comp20030/practical1 folder

Exercise 5

This final question will require a little imagination. It will be up to yourself to decide some of the specific content.

Write the markup for a single web page designed to sell watches.

This web page should use the following elements, introduced earlier in this practical:

ul, **h1**, **img**, **a**, and **hr**

The page should also include the following semantic elements:

header, **footer**, **nav**, and **main**

The page should include a simple **form**, with a textbox **input**, which could hypothetically be designed to search for products. The form need not have any functionality.

Images relating to three watches should be displayed.

Images for this can be found [here](#), [here](#), and [here](#)

No marks are going for quality of content or aesthetics in this question, just quality of the markup provided.

Save this file as **q5.html** in the comp20030/practical1 folder

Submission Instructions

Create a zip file of the folder containing all this week's solutions.

In Windows you can select the "Practical1" folder, right click and choose send to > Compressed (zipped) archive.

In Mac OS X, you can select the "Practical1" folder, right click and choose Archive.

Name your zip file in the format of "name-practical1- studentnumber.zip", replacing name and studentnumber with your own name and student number.

e.g. "Bloggs,Joe-practical1-12345678". Upload your zip file using the Practical 1 submission form available on Brightspace.