

Web Design (COMP 20030)

Practical 2

3rd February 2015

Submission Deadline: Tuesday 13th February 11:55pm

This week's practical looks at the application of cascading style sheets (CSS) to HTML files. CSS is used to separate online content from its presentation so that changes to the look and feel of an entire site can be performed by changing a single external style sheet. If, for example, you needed to change the font and colour of every heading in a web site, the job is made extremely simple by using an external style sheet, whereas it would be extremely tedious (not to mention error-prone) to have to make the change manually in every page on the site. You can find more detailed notes on all aspects of cascading style sheets in your lecture notes. For a reference tutorial of attributes and properties that can be defined for various tags using css see, for instance, the [w3schools css tutorial](http://www.w3schools.com/css/).

Additional notes for this practical:

This week's practical should be stored in a folder called *practical2* within the *webdesign* folder you created in the first practical. In all of the following exercises, you must create a **full** HTML document. You can use the HTML5 template that you saw in practical 1, with your own content in the `<title>...</title>` and `<body>...</body>` tags.

Also remember that content should appear similarly to the examples provided, we expect your web pages to be **responsive** (will adjust to fit the browser window size) e.g. don't create paragraphs that have line breaks to match where a new line starts as in the example.

HTML5 pages should be validated using <http://validator.w3.org>
CSS should be validated using <http://jigsaw.w3.org/css-validator/>

Practical Exercises

A single external stylesheet called "prac2.css" should be used for all the exercises in this practical. Remember that there should be no HTML in your stylesheet.

Exercise 1

Using the text from exercise 1 in last week's practical, in your cascading style sheet:

- Write a class called *my-blog* which generates a background colour of #FFE5E5 and makes text appear slightly bigger. The text in q1.html should be edited to have this class.
- Give the article a **border** and a **box-shadow** (that falls behind it) like as follows:

"Somebody once told me the world is gonna roll me. I ain't the sharpest tool in the shed. She was looking kind of dumb with her finger and her thumb, in the shape of an **"L"** on her forehead... Well the years start coming and they don't stop coming, fed to the rules and I hit the ground running. Didn't make sense not to live for fun, your brain gets smart but your head gets dumb. So much to do, so much to see, so what's wrong with taking the back streets? You'll never know if you don't go, you'll never shine if you don't glow...

*Hey now, you're an all-star, get your game on, go play. Hey now, you're a rock star, get the show on, get paid. And all that glitters is gold, only shooting stars break the **mold**."*

- Redefine the `` tag so that any `` that has a paragraph tag as a parent will no longer appear italicised. If you used `<i>` instead of ``, redefine that tag instead.

Ensure that this stylisation is applied to your web page. Save this file as **q1.html** in the comp20030/practical2 folder.

Exercise 2

CSS Menu

Using the nested list from exercise 2 in last week's practical, in your prac2.css:

- Create an **id** called *menu*. This id should specify that unordered lists have no list-style. Edit the html so that the nav tag has the id of “menu”. The “**MENU**” title at the top of the page should also be centered with css using this id, the *<center>* tags from the previous practical should no longer be used.
- Using the specifiers of unordered lists belonging to list items (i.e. nested unordered lists) define rules, using css, that allow the nested list items to display only when a user’s cursor hovers over them.

Apply this stylisation to your web page. Save this file as **q2.html** in the comp20030/practical2 folder.

Exercise 3

Using the table from exercise 3 in last week’s practical, in your prac2.css:

- Create a css class called *course-table*. This class should provide collapsed borders and align text within the tables to the center of every cell.
- Using the *course-table* class, zebra striping should be applied to the table. Alternating rows should have the background of #A3B6FF. You shouldn’t have to manually apply this striping to every other row.
- Make a duplicate table and create a new class called *small-letters*. This class should transform all text to lowercase. Apply this class to the second table, along with the *course-tables* class. The second table should appear below the first on the same web page.

Apply this stylisation to your web page. Save this file as **q3.html** in the comp20030/practical2 folder.

Exercise 4

In this exercise you will produce a responsive css design.

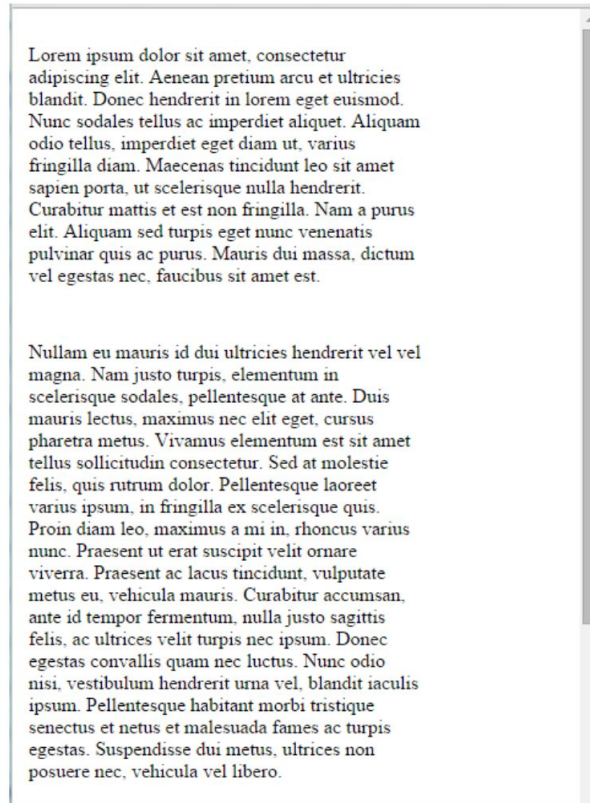
- Create three paragraphs using random text produced by lorem ipsum: <http://www.lipsum.com/> Place this in a new web page.
- In your prac2.css create a **class** called *column* that has a width of 320 pixels. Give each paragraph in the web page the class “column”. This should display each paragraph side-by-side on a large screen (like a laptop). You will need to specify that the column class floats left (or right) in order to achieve this. Zooming in/ using a smaller screen/ lower resolution should cause the paragraphs to display below one another. Add some **padding** to ensure the text from each column doesn’t bump into one another.
- Finally, give one of the paragraphs the class of blog (that you created in exercise 1) as well as the class of column. However, in the document level you should override the background colour of blog so that it is #FFFFFF (white).

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Example: 3 columns full screen



Example: 1 column mobile screen

Note: Do not use the *column-count* property to do this exercise. Save this file as **q4.html** in the comp20030/practical2 folder

Important Notes

- To aid your own organisation, you should create a folder called 'comp20030' in which you will save all practicals for this course. Create a subfolder of this folder called 'practical1' and save all this week's questions there.
- Upgrading from notepad or textedit is highly recommended. [Notepad++](#) for Windows or [TextWrangler](#) for Mac are good places to start.
- **All tags should be closed properly.** Also, tags should be opened and closed in the [correct order](#).
- In all of the exercises, you must create a full HTML document, i.e. use the HTML template provided, with your own content in the <title>...</title> and <body>...</body> tags. Every page has to have the <!DOCTYPE ...> declaration at the top to comply with the HTML specification.
- When saving new versions of web pages, you can click the "Refresh" button in your browser to instantly see the new version. This will save you having to close your browser and open the file again each time.
- To aid marking, please put your name and student number as a html comment within your code.

Submission Instructions

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

In Windows you can select the "Practical2" folder, right click and choose send to > Compressed (zipped) archive.

In Mac OS X, you can select the "Practical2" folder, right click and choose Archive.

Name your zip file in the format of "name–practical2– studentnumber.zip", replacing name and studentnumber with your own name and student number. e.g.

"Bloggs,Joe–practical2–12345678". Upload your zip file using the Practical 2 submission form available on [Moodle](#).