

Web Design (COMP 20030)

Practical 3

Cascading Style Sheets II

Practical Exercises

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

A single external stylesheet called “**prac3.css**” should be used for all the exercises in this practical.

Unless otherwise stated, you can use class, id, element, and pseudo-class selectors as you feel appropriate.

Exercise 1

Using the columns of text from exercise 4 in last week’s practical, rewrite the CSS rules so that a fluid (liquid) layout will display by default. In order to do this, the widths of each of the columns should be set to 30% of the page.

Add an **@media** rule that specifies that devices with a **max-width** of 800px should still have a responsive layout (that is to say, that the columns will shift below each other, as before, if the window size decreases).

[This picture of a quill](#) should display underneath the text. Regardless of the device or resolution used, the quill should **not** display *beside* the text. In order to achieve this, the display of the image must be set to block level, and any floats present cleared.

Save this file as **q1.html** in the comp20030/practical3 folder.

Exercise 2

Using **display:inline-block**, place five 200*200 blue squares side by side. These blocks should automatically move beneath each other if the viewing window or resolution decreases enough.

For the second part of this question you will need to [position](#) the image to remove it from normal flow (e.g. using **absolute** or **fixed** value) for the following directions to work. Using the properties **left** and **top**, place the image of the quill in the previous question roughly in the middle of the page (this doesn’t have to be exact). Change the [z-index](#) of the image so that it displays behind the boxes..

Apply this stylisation to your web page and save as **q2.html**

Exercise 3

Using **display:grid** create a 4*3 grid. The row template may be implicit or explicit. Fill at least 3 cells with content from www.lipsum.com/

Anywhere beneath this grid place two blue 200*200 squares. These squares should both have the class **box**. This class should set styling rules to make these squares have the right dimensions, and a blue background.

The first box should also have the id of **box1**. This id should specify that **box1** has the rule `transition:width 3s`. The second box should have the id of **box2**. This id should specify that **box2** has a rule specifying `transition:transform 3s`.

Using the pseudoclasses of `:hover` and `:active` for **box1** and **box2** respectively, ensure that when **box1** is hovered over using a pointer, that it changes to a width of 400px. Ensure that when **box2** is interacted with (it is clicked on) that it rotates 360 degrees.

Save this file as **q3.html**

Exercise 4

Using any design pattern (fluid, adaptive, responsive), and any approach covered to date, apply styling to the webpage you created in Exercise 5 of Practical 1. The page should be comfortable to use, regardless of the size of the device hypothetically accessing it. You may add additional content or otherwise edit your original html. Although you are adding style rules to your page, it is not necessary for it to be pretty. However, some sort of appropriate visual structure should be present.

Save this file as **q4.html** in the `comp20030/practical3` folder

Submission Instructions

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

In Windows you can select the "Practical3" folder, right click and choose send to > Compressed (zipped) archive.

In Mac OS X, you can select the "Practical3" folder, right click and choose Archive.

Name your zip file in the format of "name-practical3- 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 3 submission form available on Brightspace.

