**University of Wolverhampton**

**School of Engineering, Computational and Mathematical Sciences**

**5CS020 Human-Computer Interaction**

**Workshop 9**

Following on from the theme of the last workshop, you will be working with more Responsive Web pages.

**Source material**

Download the example responsive web pages "adaptive.html", "breakpoint.html", "combination.html", "flexbox.html", and "grid.html".

**Adaptive Design**

Open the file "adaptive.html" in your favourite text editor ( I recommend Notepad++ or VS Code).

Adjust the "min-width" sizes and see what impact that has when you resize the page.

See if you can add another "@media" section to the CSS, so that at the maximum width of the web browser, it has the title on the left, but all the text on the right in 1 column only.  
A picture containing text

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**Breakpoint Design**

Open the file "breakpoint.html" in your text editor. Adjust the "min-width" size and see what impact that has when you resize the page.

See if you can add more "@media" sections to the CSS, so that as you increase the width, it creates more and more columns.  
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**Combination**

Open the file "combination.html" in your text editor. Change it and add more "@media" sections to make it add more columns as it gets wider, but reduce the number of columns as it gets taller, but stays at the same width.

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Grid CSS

Open the file "grid.html" in your text editor. Have a look at the gird css documentation at :

<https://developer.mozilla.org/en-US/docs/Web/CSS/grid-template-columns>

and see if you can reshape the page into different shapes at different sizes. For example:Graphical user interface, application, Word

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Also try similar things with the "flexbox.html" example. (<https://developer.mozilla.org/en-US/docs/Web/CSS/flex>)

**Portrait-Landscape modes**

Open the "land-port.html" and see if you can combine some of the above techniques to display very different layouts, depending on whether the browser is in landscape or portrait format.