

# COMP519 Practical 2

## HTML (2)

### Introduction

- This worksheet contains exercises that are intended to familiarise with HTML. While you work through the tasks below compare your results with those of your fellow students and ask for help and comments if required.
- This document can be found at

<https://cgi.csc.liv.ac.uk/~ullrich/COMP519/notes/practical02.pdf>

and you might proceed more quickly if you cut-and-paste code from that PDF file. Note that a cut-and-paste operation may introduce extra spaces into your code. It is important that those are removed and that your code exactly matches that shown in this worksheet.

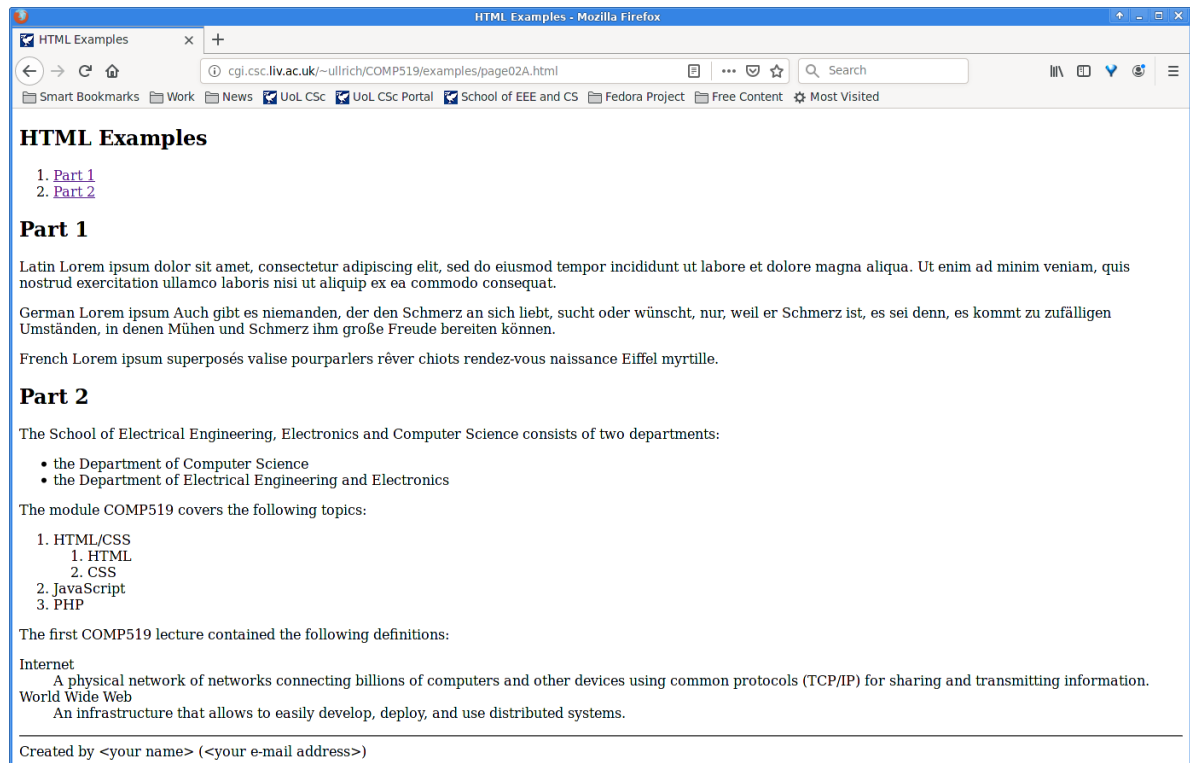
- The exercises and instructions in this worksheet assume that you use the Department's Linux systems.

If you want to use the Department's Windows systems instead, then you can do so.

- To keep things simple, we will just use a text editor and a terminal. You can use whatever text editor you are most familiar or comfortable with.
- If you do not manage to get through all the exercises during this practical session, please complete them in your own time before the next practical takes place.
- Use the HTML 5.2 Specification [1], the COMP519 Lecture Notes [2, Lectures 3–4], Stack Overflow [3] and W3Schools [4] as references for any information on HTML that you might need.

# Exercises

1. Let us start with a HTML document that following the basic structure of such documents and contains some simple HTML elements.
  - a. Create a HTML document called `page02A.html` that reproduces the following:

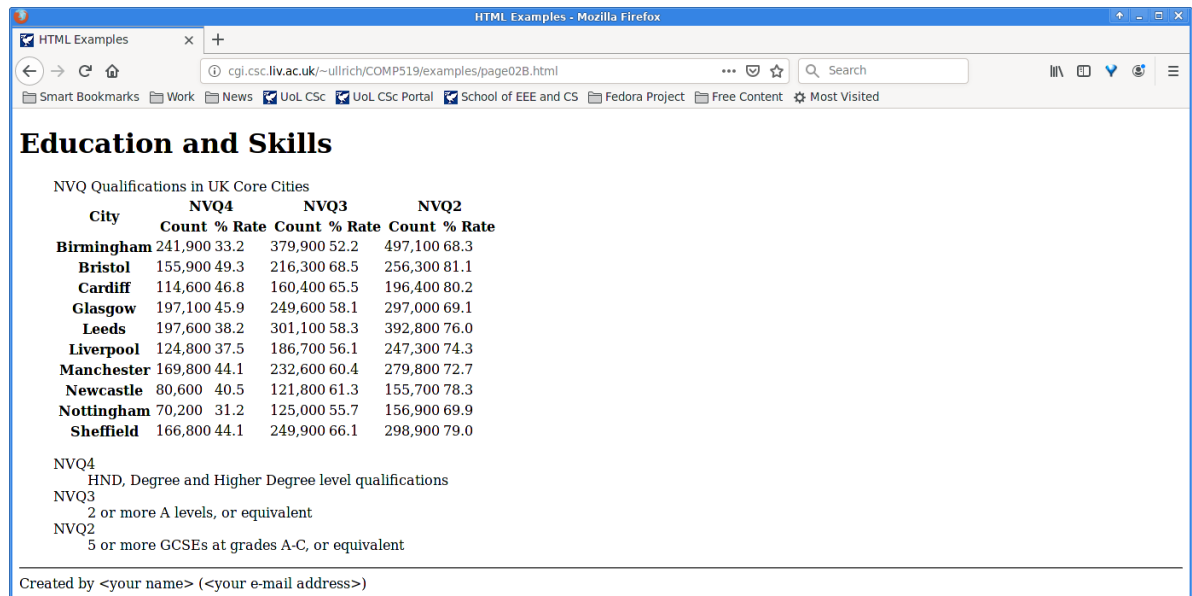


In producing the markup take into account the following:

- Between the first and second heading is a navigational aid. Think about the proper markup for that part of the document.
  - The text in Part 1 contains international accent marks and is in three different languages. The markup should indicate those languages and reproduce the international accent marks.
  - At the bottom of the page is some information about the creator of this page. Replace `<your name>` by your own name and `<your e-mail address>` by your e-mail address. Also, think about the proper markup for that part of the document.
- b. Use the Validator at <https://validator.w3.org/> to ensure that your markup is valid. Remember that the Validator can only check whether you have followed the syntactic rules of HTML5, not whether your markup correctly reflects the semantics of parts of the document.
  - c. If you have doubts whether your markup is semantically correct, ask a demonstrator for help.

2. The next HTML document is about tabular data.

a. Create a HTML document called `page02B.html` that reproduces the following:



HTML Examples - Mozilla Firefox

cgi.csc.liv.ac.uk/~ullrich/COMP519/examples/page02B.html

## Education and Skills

NVQ Qualifications in UK Core Cities

City	NVQ4		NVQ3		NVQ2	
	Count	% Rate	Count	% Rate	Count	% Rate
<b>Birmingham</b>	241,900	33.2	379,900	52.2	497,100	68.3
<b>Bristol</b>	155,900	49.3	216,300	68.5	256,300	81.1
<b>Cardiff</b>	114,600	46.8	160,400	65.5	196,400	80.2
<b>Glasgow</b>	197,100	45.9	249,600	58.1	297,000	69.1
<b>Leeds</b>	197,600	38.2	301,100	58.3	392,800	76.0
<b>Liverpool</b>	124,800	37.5	186,700	56.1	247,300	74.3
<b>Manchester</b>	169,800	44.1	232,600	60.4	279,800	72.7
<b>Newcastle</b>	80,600	40.5	121,800	61.3	155,700	78.3
<b>Nottingham</b>	70,200	31.2	125,000	55.7	156,900	69.9
<b>Sheffield</b>	166,800	44.1	249,900	66.1	298,900	79.0

NVQ4  
HND, Degree and Higher Degree level qualifications

NVQ3  
2 or more A levels, or equivalent

NVQ2  
5 or more GCSEs at grades A-C, or equivalent

Created by <your name> (<your e-mail address>)

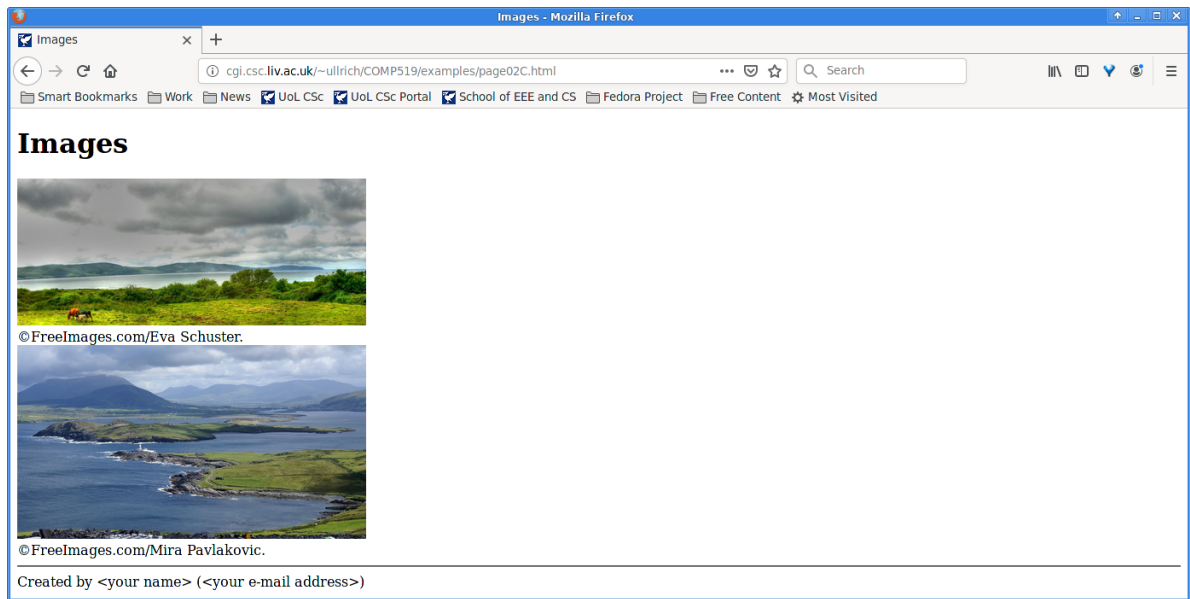
In producing the markup take into account the following:

- The first line after the heading is the caption of the table.
- You do not need to reproduce the data for all the cities, two is sufficient.
- The information about the creator of this page should be the same as for `page02A.html`, with the same markup.

- b. Use the Validator at <https://validator.w3.org/> to ensure that your markup is valid.
- c. If you have doubts whether your markup is semantically correct, ask a demonstrator for help.

3. The final HTML document is about images.

a. Create a HTML document called `page02C.html` that reproduces the following:



In producing the markup take into account the following:

- The example uses images from <https://www.freeimages.com>. The images have not been downloaded but are simply linked to. You can use arbitrary (appropriate) images from that site.
  - Make sure that the images are attributes appropriately as per their licence.
  - If the user clicks on an image, the browser should show the page on <https://www.freeimages.com> where you found the image.
- b. Use the Validator at <https://validator.w3.org/> to ensure that your markup is valid.
- c. If you have doubts whether your markup is semantically correct, ask a demonstrator for help.

## References

- [1] S. Faulkner, A. Eicholz, T. Leithead, A. Danilo and S. Moon, eds. *HTML 5.2*. W3C Recommendation. 14 December 2018. URL: <https://www.w3.org/TR/html52/> (accessed 27 September 2019).
- [2] U. Hustadt. *COMP519 Web Programming: Lecture Notes*. Department of Computer Science, University of Liverpool. 2019. URL: <http://cgi.csc.liv.ac.uk/~ullrich/COMP519/notes/> (accessed 27 September 2019).
- [3] Stack Overflow. *Stack Overflow Site*. 27 September 2019. URL: <https://stackoverflow.com/> (accessed 27 September 2019).
- [4] Refsnes Data. *W3Schools Site*. 27 September 2019. URL: <https://www.w3schools.com/> (accessed 27 September 2019).