

# BENVGSC4: Spatial Data Capture and Analysis

## Workshop 7 – HTML + CSS

Welcome to Workshop 7 of Spatial Data Capture and Analysis. Today you’re going to build a personal website which will allow you to share all your accomplishments you’ve learned so far in the course. We’ve made sure you’ve got all the tools you need on the machines in the lab but if you’re using your own personal machine make sure you have the **Chrome browser** installed and that you have a text editor that has syntax highlighting enabled. We’ll be using Notepad++ (<http://notepad-plus-plus.org>) on the Windows machines but if you have a Mac use Atom (<https://atom.io>), which is free, or Sublime Text (<http://www.sublimetext.com> - paid but free to use for 30 days). At the start of the workshop we will cover the basics of each editor and how to use the tools to develop your website.

### 1 Building the basic structure

As I mentioned in the lecture, a website is just a group of files on a remote server that the browser requests and renders on the screen, phone or tablet. The basic structure of every website is the same: you have a folder for the style sheets, a folder for images and the individual html pages that contain the information you want to share with the world.

Create a folder somewhere in your local directory called “myWebsite” (this is called the site root) which has the following structure: (– represent folders, the rest are files – this is called a directory tree)

```
myWebsite
  -- css
    style.css
  -- img
    downloadedImage.jpg
index.html
about.html
project.html
group.html
```

Once you have these files and folders created, download an image from the web and put it in the img folder. Open the new files in your text editor and start creating your website, a good place to start with is index.html. Grab a copy of the lecture slides to use as a reference and if you need any help with tags or attributes then have a look at <http://www.w3schools.com> to see if you can find what you’re looking for before asking a question.

Also have a quick search on Google for the answer as well framing your question as:

```
html [tag] reference      // Remove the brackets and replace with the tag
```

Doing this will make you a better developer in the future and enhances skills in problem solving as it will train you to understand what’s happening within the process. Also try and avoid copying and pasting answers from other websites. Use the code samples given as a reference and type the text into the file. In programming, by typing the code you’ll start to learn how structures are built and how they are referenced in other files. Ultimately, you’ll learn faster. **You will not learn anything from copying and pasting someone else’s code!** If you’re really stuck then of course, ask away, that’s what we’re here for.

The following sections give you an idea on how to design your page and feel free to either copy the design, use as a starting point or design your own page from scratch. If you are having difficulties translating this design into HTML, just take a pencil and start drawing boxes around the elements, making sure you start at the side of the page. This will help you break up the page into **div** elements.

Repeat the same design for the **ABOUT**, **PROJECT** and **GROUP** Pages and experiment with lists, tables, and the other elements you have been taught about today. Keep the top and bottom of each page constant to make your site consistent when the user clicks your links. Also try and embed your favourite

YouTube video in your about page for extra practise. If you want to jump ahead, maybe try and add a Google Map if your really adventurous (we will cover this is later weeks).

## 2 Example Home Page (index.html)

# Your Name

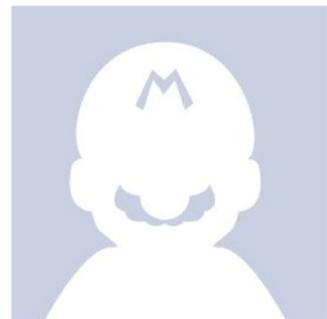
A brief 1 line about yourself

[HOME](#)   [ABOUT](#)   [PROJECT](#)   [GROUP WORK](#)

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## 3 Some Notes on Useful HTML tags

```
<!-- [Comment] --> -- Used as a comment and wont be rendered by the browser
<hr/> -- Horizontal line which spans the whole page
<p></p> -- Paragraph of Text (A div is not allowing inside a p tags, see span
<span></span> -- Inline element that allows positioning of individual text
elements inside a paragraph
```

## 4. Useful CSS Rules

```
// -- Comments in CSS
border : 1px solid black;           // Use with a div to see the area rendered
margin: 0px 10px 0px 10px;          // Shortcut to define margins - N W S E (T R B L)
border-radius: 4px 3px 6px 10px;    // Gives a div round corners
margin: 0 auto;                  // Center a div or element automatically (need width)
font-family: Arial               // Only system fonts available. Try Google Web Fonts:
                                // https://www.google.com/fonts/
```