Beginner's Bootcamp

Welcome to the **StephMyLife Beginner's Bootcamp**! During this bootcamp, you're going to create a multi-page website using HTML, JavaScript, and CSS. You will learn about how these three components of a website work together, and you will be introduced to coding concepts like variables, arrays, conditional statements, math functions, and lots more!

This bootcamp is geared towards beginners, or people who want to brush up on their web development skills. So don't worry if that makes no sense to you right now, everything will be explained in the pages below.

We are going to create your website page by page, learning about each aspect of web developing as we go. There will be instructions on how to build each page, and tasks for how you can customise your code to make the games harder and easier.

There is also a completed version of the website in this folder, **'Completed Game'**, so if you have any trouble setting up your site you can compare your code to the completed version of the website. This will help you identify where you may have made a mistake.

I would suggest going through the project page by page in the following order:

- Login Page
- Guessing Game
- Math Game
- Winner Page
- About Me

The first three pages take you through increasingly more advanced coding practices, while the Winner page shows you what can be done using CSS. The About Me page is a chance for you to practice your CSS skills and build a beautiful page from the template I have provided.

If at any point you find yourself stuck, feel free to email me at steph@stephmylifetravel.com, or contact me on Instagram. I'll be here to help!

The first thing we're going to do is start with setting up your project and downloading the applications you need. Before you can start your website, you will need to follow these steps.

Step 1: Install Visual Studio Code

In the first challenge, we used Notepad or TextEdit to edit our files, but for the bootcamp we're going to use an application that's much better for web development: Visual Studio Code. This is a very easy to use code editor that makes writing code much quicker and easier!

Click here to download Visual Studio Code and install it on your machine. You can install it on Mac OS, Windows, or Linux machines.

VS Code makes it much easier for you to write code, and it's great because it can format and autocomplete your code too. This makes it much quicker to write code, and easier to see if you have made a mistake.

To test this, go to 'file,' 'new file' and create a new blank file (you can also use the keyboard shortcut 'CTRL/CMD +N' to create a new file too.

Save this file straight away by going to 'file' -> 'save' (or keyboard shortcut 'CTRL/CMD+S'). Here you can tell VS Code the type of your file and let it know the language you will be writing. Once VS code knows this, it will be able to help you format your code and check for errors.

To create a HTML file, type test.HTML into the 'file name' field, and from 'file type', choose HTML. Save the file anywhere you like, as this is a test file.

Next, type <html> into the new file. You will see that the VS code will automatically add a closing </html> tag for you. Type <head> between the <html> tags, and you'll see it will close this tag too.

Click 'CTRL+Shift+F' on windows, or 'CMD+Shift+F' on Mac, and this will format your code and make it easier to read. Remember this keyboard shortcut and use it regularly to keep your code neat and readable!

Throughout this project, we will create and edit all of our files in Visual Studio Code. You can create sample css and JavaScript files too. Add .css to any CSS files, and .js to any JavaScript files.

Task:

Practice creating sample HTML, CSS, and JavaScript files in Visual studio code and saving them as the right type of file.

- Open HTML tags like <html>, <head>, <body> in your HTML file and see that they are auto-completed (this must be done once the file has been saved.
- Open { brackets in your css and see that these are closed automatically.

Extra reading: If you want to learn more about Visual Studio Code, you can read some tips here.

Step 2: Set up your project folders

The first thing to do on any new project is to get your project structure ready, and this is how we always start when creating a new website. Create a new folder on your computer for your website, you can name it anything you like and put the folder anywhere you like.

Inside this folder, create three more folders (y*ou can use keyboard shortcuts to do this, press CTRL+Shift+N on a windows, or CMD+Shift+N on a Mac to create a new folder*)
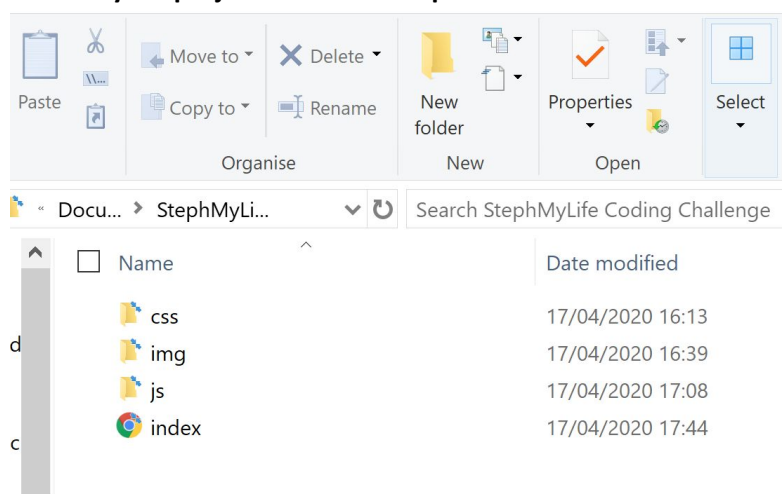
Give these folders the following names:

- css
- js
- img

Go to your Beginner Bootcamp folder that you downloaded, and go to the 'project files' folder. In the img folder, copy all of these images to the img folder in your project. These are all of the images we will use in your website.

Using Visual Studio Code, create a new HTML file and save this empty HTML file in the location of the main project folder, with the name 'index.html'

Once your file is saved as a HTML file, you can open this file in your internet browser. Below, my Index file has the Chrome logo because this is my default browser, but yours might look like the Safari, Edge or Firefox logo if you use these. If your file does not have a browser logo then that is probably because it was saved as a text document and not a HTML document - in this case you can just open it up and go to file -> 'Save as' and save it again as type HTML.

Now your project folder is set up and should look like this:

Now that your project folder is set up, we can start making your first page which allows users to log into your site!

Open the file 'StephMyLifeBeginnersBootcampLoginPage.PDF' to start. If you do not have a PDF viewer, or you want to copy and paste code from this file, there is a Word version of the file in this folder too.