

Web Services and Applications

Lab 01 Setting up environment

Lecturer: Andrew Beatty

Python, Vscode, GitHub and cmdr (if on a PC)

1. Make sure that you have python and VSCode set up, like you had for Programming and Scripting and other modules.
2. In an appropriate place on your machine take a clone of my sample directory <https://github.com/andrewbeattycourseware/WSAA-Courseware.git>
You will only be able to pull from this repository
3. And make your own repository (ies) for
 - a. assignments
 - b. project
 - c. mywork

One repository with three folders will be fine or you can have a separate repository for each. Make sure you have a readme at the root level of each repository you make.

4. Make sure cmdr is setup if you are on a windows machine.

See the Programming and Scripting module if are not certain how to do all this.

HTML and JavaScript

5. Make a text file in an editor of your choice called hello.html that contains the text hello

```
hello
```

6. In file explorer double click the file and see it open in a browser. If your machine offers you a choice, choose a web browser of your choice.
7. Well done your first web page. Mess around and add tags
8. Look at W3Schools html
[HTML Tutorial](https://www.w3schools.com/html/default.asp) <https://www.w3schools.com/html/default.asp>
9. and see the “try it yourself”
10. look at the W3Schools JavaScript tutorials (and the “try it yourself”)
11. [JavaScript Tutorial](https://www.w3schools.com/js/DEFAULT.asp) <https://www.w3schools.com/js/DEFAULT.asp>
12. Now try putting some JavaScript into the hello.html, remember to use the `<script>` `</script>` tags

```
<!-- I put this in <b> tags for fun -->
<b>Hello</b>
<script>
  console.log("hello World ")
</script>
```

13. Open the file in a web browser and under developer tools-> console, see that it has outputted hello world.
14. NOTE we are opening the files directly with a web browser in contrast to downloading them from a webserver. (see later in the module)

WAMP Server

If you are using windows you may want to get WAMP Server as a database on your machine. If you are using a MAC use the database Gerard is recommending in module "Applied Databases"

1. Down load and install WampServer
2. [WampServer, the web development platform for Windows - Apache, MySQL, PHP](#)
3. <https://www.wampserver.com/>
4. You used to have to get a C++ dll as well I don't know if you still do.
5. Make sure is it started (all green)
6. I will be going through the mysql later in this module

Optional host a webpage

7. Check that localhost is working
8. <http://localhost>
9. navigate to "C:\wamp64\www"
10. make a folder in there called test, and copy your hello.html into there, open it with the url.
<http://localhost/test/hello.html>

That's it for this week.