

# Assignment 1 – Web Dev

## 1. Site content and design

- URL: <http://stc905.edu.csesalford.com> (index which will redirect to the landing page: [http://stc905.edu.csesalford.com/kyles\\_portfolio](http://stc905.edu.csesalford.com/kyles_portfolio))
- My website is a simple portfolio to showcase a couple of projects and personal details.
- It has a fluid/liquid design.

## 2. Use of HTML5

My home page does not use as many elements as my 'Bio'(personal.html) page so I will explain this page instead.

I have used a header tag at the start of the page to contain all the branding for the site; the navigation persists throughout all pages and its the contains the heading for each page. The nav tag has been to used to show that it is the main navigation for the website. The aside tag has been used for additional information about each page and for a navigation within the page. The main tag has attribute tabindex set to -1 as this is the first part of the page the tab button should focus to, this helps for accessibility. The content is split up using section tags so that users can navigate to each different topic easily. figure tags have been used to contain images so that they can be accompanied with captions helping users understand the image content. abbr tags have been used around abbreviations so that users dont have to look up ones they dont know. caption, th, thead, tbody and tfoot have been used in the table tag to format the table correctly following accessibility standards. A footer has been used in the bottom of the page to contain information that is of least importance to users.

## 3. CSS Explanation

There is a bold banner at the top of the page containing the title of each page, this attracts attention and is 'above the fold' so if the user is interested in the title they should want to continue veiwing the site. The title uses a light coloured font on a darker background which creates contrast and increases readability. Directly underneath sits the navbar which helps with usability as it is easier to find due to most sites using a similar design. When the cursor hovers over each nav element a transition in colour shows the user that it will change the page if clicked. A submenu in the nav only drops down when the title of the submenu is hovered to hide unnessecary clutter from the page.

Each section has a svg image as the background so you can easily identify each section. Having the background as svg means the image can be scaled for each size of section or screen without creating pixelation. The svg is only slightly darker than the background so the font on top retains its contrast.

I have used media queries to change the layout of the navbar if the screen is too small to display it horizontally. Also if the screen is too small to display the timetable correctly it is hidden and a link to a separate page with the timetable on it is shown.

The main inspiration for the colour scheme, fonts and graphics was taken from <http://love2d.org/> although none of these images were used and the font is being used under fair use.

## 4. CSS Techniques

To show one item when another is hovered in the definitions list I used an adjacent siblings selector explained by Itay (<http://stackoverflow.com/questions/20114874/css3-display-other-element-on-hover>)

To remove the colour outline of focussed elements in a form I used the :focus selector and outline property explained by CEich <http://stackoverflow.com/questions/3397113/how-to-remove-border-outline-around-text-input-boxes-chrome>

To make sure the background image for sections scaled with the section correctly I used the property background-size explained by user3385456 <http://stackoverflow.com/questions/20565736/my-background-image-get-cut-off-at-the-bottom>

To add line numbering to source code on my project pages I used Google Prettify an external javascript and CSS plugin <https://github.com/google/code-prettify>

## 5. Graphics

All graphics and images were created by me either a photograph of myself taken on my phone, screenshots of games I play or svg graphics that I created in inkscape. The font I used <http://www.dafont.com/quicksand.font>

## 6. Testing

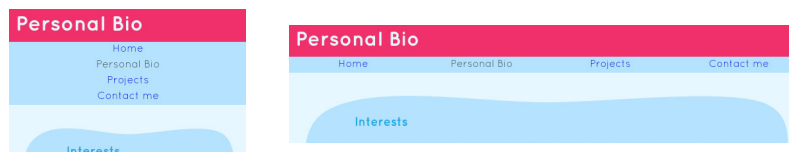
These were all tested on the personal.html page as this shows the biggest range of elements.

I tested on:

Mobile:

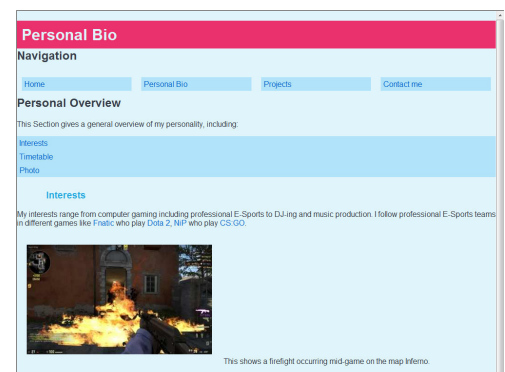
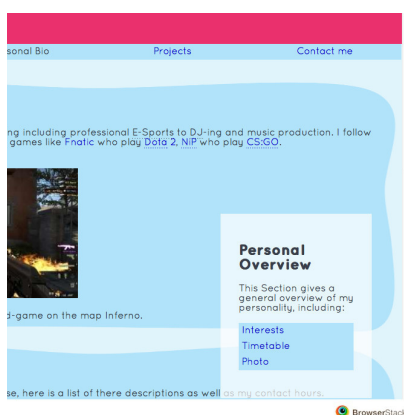
- Galaxy S5
- Nexus 5
- Galaxy Tab 4
- iPad 4
- iPhone 5S
- iPhone 6 Plus

The differences between these devices was negligible other than the tablets which displayed the list of navigation items horizontally rather than vertically due to the increased screen width.



- Multiple browsers/OS's
  - Chrome 36/Mac Maveric
  - Opera 12/Mac Yosemite
  - Safari 8/Mac Yosemite
  - IE 8/Windows 7
  - IE 9/Windows 7
  - Firefox 30/Windows 8.1
  - IE 11/Windows 8.1
  - Firefox 3/Windows XP

These also all looked very similar to each other, other than IE 8 and Win XP as this display pictures as borders or backgrounds at all and added unwanted spacing between the navigation buttons and above the banner. Although Win XP displayed the aside element correctly whereas IE 8 didn't.



It is different to the mobile website as the in-page navigation is displayed to the right of the page rather than at the bottom as well as the timetable being shown in the page rather than having a link.

- Multiple font sizes/zoom levels (Chrome 54/Ubuntu 16.04)
  - Font Small
  - Font Medium (default)
  - Font Large

- Font Very Large
- Zoom 150%
- Zoom 175%

Zooming the page scaled as if it were on a smaller device so it was still easy to use and read. Changing the font also scaled well.

- Different Resources
  - Without local CSS
  - Without Javascript
  - Without either
  - CLI (Lynx on Linux)

The website was usable no matter the resources available as everything was shown and nothing in the content was created by the CSS or Javascript

```
kyle@kyle-HP-Pavilion-TS-14-Notebook-PC: /opt/lampp/htdocs/kyles_portfolio
Kyle Watson's Portfolio - Personal (p2 of 5)

My interests range from computer gaming including professional E-Sports
to DJ-ing and music production. I follow professional E-Sports teams in
different games like Fnatic who play Dota 2, NLP who play CS:GO.
A screen shot of a conflict in CS:GO This shows a firefight occurring
mid-game on the map Inferno.

Timetable

There are many modules in my uni course, here is a list of there
descriptions as well as my contact hours.

PD+P
Professional development and practices is a module that focuses
on becoming a professional developer that understands how laws
are applicable to their work, being able to manage a project as
well as helping with study skills.

WebDevHCI
Web Development and Human Computer interfaces is all about HTML5
-- press space for next page --
Arrow keys: Up and Down to move. Right to follow a link; Left to go back.
H)elp O)ptions P)rint G)o M)ain screen Q)uit /=search [delete]=history list
```

## 7. Validation

**Nu Html Checker**

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for [http://stc905.edu.csesalford.com/kyles\\_portfolio/personal.html](http://stc905.edu.csesalford.com/kyles_portfolio/personal.html)

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by

[http://stc905.edu.csesalford.com/kyles\\_portfolio/personal.html](http://stc905.edu.csesalford.com/kyles_portfolio/personal.html)

Document checking completed. No errors or warnings to show.

Used the HTML parser.  
Total execution time 202 milliseconds.

**WAVE**  
web accessibility evaluation tool

[http://stc905.edu.csesalford.com/kyles\\_portfolio/personal.html](http://stc905.edu.csesalford.com/kyles_portfolio/personal.html)

**Summary**

WAVE has detected the following:

- 0 Errors
- 0 Alerts
- 2 Features
- 27 Structural Elements
- 7 HTML5 and ARIA
- 0 Contrast Errors

Panel Options

**h1 Personal**

Home

This Section gives a g

[http://stc905.edu.csesalford.com/kyles\\_portfolio/personal.html](http://stc905.edu.csesalford.com/kyles_portfolio/personal.html) - Section 508

Scan Results:

[View a printable screen-reader-friendly version in a new window](#)

Scan completed: 12/5/2016 10:16:12 AM

Group All Issues 0

Section 508

Section 508 guidelines for web applications as described at the US Access Board web site.

1094.2(b)

Markup shall be used to associate data cells and header cells for data tables that have two or more logical levels.

1094.2(b)

For data tables that have two or more logical levels:

Describe the table structure using the SUMMARY attribute or ARIA attributes. Identify structural groups of rows using THREAD, TFOOT, TROOY, COLGROUP and COL. Label table elements with the "scope", "headers", and "axis" attributes to assist user agents.

1094.2(b)

Table uses markup to associate data and header cells, but has no valid ARIA attribute.

[http://stc905.edu.csesalford.com/kyles\\_portfolio/](http://stc905.edu.csesalford.com/kyles_portfolio/)

Line 77, column 4, TABLE element

1094.2(b)

Unsure of this one warning as all my td tags have header attributes linking to an ID of a th tag.