UNIVERSITY OF LINCOLN

School of Computer Science

CMP1130M Web Authoring - Assessment Item 1

Website: https://ally-garton.github.io/Animal-Crossing-GAR14577155/index.html

Demo video: https://www.youtube.com/watch?v=LRHDXsS92Fw&feature=youtu.be

Web standards

Web standards are guidelines put forward by the W3C. W3C are "an international community that develops open standards to ensure the long-term growth of the Web". The standards they put forward are to do with how webpages should look when a user opens them in their browser.

The most common web standards include the use of Hyper Text Markup Language (HTML) and accompanying Cascading Style Sheets (CSS), the most recent version of which are HTML5 and CSS3. Using the most recent versions of these web standards is highly beneficial to both the authors of webpages and their users in many ways. For example, webpages will display on a wide variety of platforms, in different browsers, and on different operating systems. In HTML5, there is a higher consistency in the type of HTML that used to create a webpage, making the job of designing a website easier on developers.

Additionally, it is much easier using HTML5 to incorporate multimedia and interactive elements into a website. HTML5 now includes tags such as "<audio>" and "<video>", which are self-explanatory, and "<canvas>", which is a container that allows for drawing graphics. By using HTML5, webpages become much more interactive and enriched.

Another important web standard is CSS3, which is an alternative to using embedded styles. Stylesheets are far more advantageous, as they reduce the file size of the webpage, meaning pages with linked stylesheets load faster. It is also far easier for a developer to make an alteration to a stylesheet than it is to search through embedded styles to make an edit.

CSS3 also comes with major advantages over its predecessor, CSS2, the key one being the far wider range of styles that can be applied to different parts of a website. More styling has been added for text effects, layout of columns, border and background properties, and new types of pseudo-classes. Additional to the increase in element styles, there is a wider range of browser support for CSS3, meaning that the stylesheets are likely to be more compatible with a user's preferred browser.

However, as with anything, there are drawbacks to using web standards. Much stricter coding is needed in order to uphold these standards, as websites should be interoperable and should remain neat, tidy, and functional no matter the screen size. Web developers should also have a good idea of the different quirks in different browsers, as different browsers render in Markup and styling differently. If the developer has plenty of knowledge about these quirks, they can effectively work around them so that they do not become problematic to the function or design of the website. However, this means a lot more time, effort, and work must go into designing the website to ensure the standards are met. The same goes for having to test on different screen widths and operating system; the website should be as functional as possible as much of the time as possible, but this is often more difficult and much more long-winded.

Methods & Best Practice

When designing the website, HTML5 and CSS3 were used in order to ensure the best web standards were upheld. New HTML5 tags were used in the site, such as "<section>" and "<nav>":

```html
<section id="homepage">
    <div id="home_text">
        <h1>Home</h1>
    </div>

    <div id="figures">
        <figure class="circles">
            <img src="assets/profiles/img1.png" alt="Isabelle">
            <h1>LIVE</h1>
            <p>in your town</p>
        </figure>
```

```html
<nav>
    <ul class="nav">
        <li>
            <a href="index.html">Home</a>
        </li>
        <li>
            <a href="titles.html">Titles</a>
        </li>
```
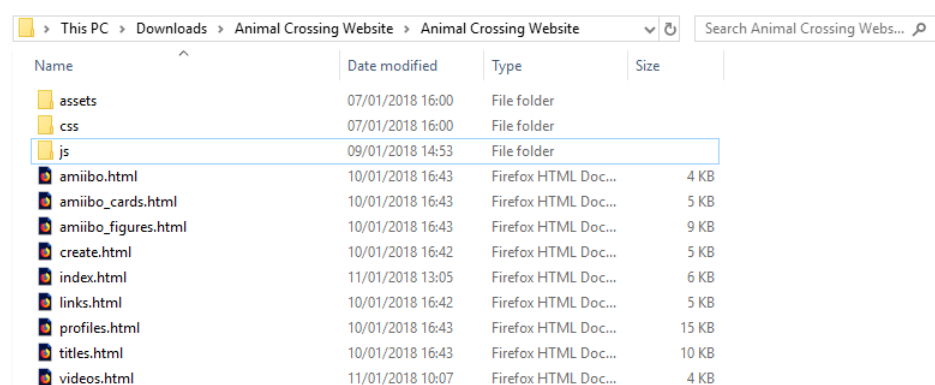
In order to keep up with the web standard of the use of stylesheets, all styles have been placed in a stylesheet (as opposed to embedded within the HTML) and linked to the Markup:

```html
<head>
    <title>Animal Crossing - Home</title>
    <meta charset="utf-8">
    <link rel="stylesheet" type="text/css" href="css/fonts/arvo/arvoregular.css">
    <link rel="stylesheet" type="text/css" href="css/fonts/robotoslab/robotoslab.css">
    <link rel="stylesheet" href="css/styles.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
    <script src="https://cdn.rawgit.com/nnattawat/flip/master/dist/jquery.flip.min.js"></script>
    <script src="js/script.js"></script>
</head>
```

Media queries are also an important method used in this website which helps it to reach the web standards. With the help of media queries, the pages are much more compatible with different types of screen, and will display differently on monitors, laptops, tablets, and smartphones. The way these queries have been styled makes effective use of the way a page's contents are spread out; monitors tend to have more space horizontally, whereas on a smartphone the elements flow downwards due to the longer vertical side.

Additionally, the website has been tested in multiple browsers to ensure interoperability, and works in the popular browsers Mozilla Firefox, Google Chrome, Microsoft Edge, and Opera. A demonstration of this can be viewed in the demonstration video, available at the link given on the cover page of this document.

The file structure for the different pages, assets, and linked documents was carefully considered. With this layout, it is easy to link all of the documents (such as scripts and stylesheets) and keep files of the same type in one place.

Name	Date modified	Type	Size
assets	07/01/2018 16:00	File folder	
css	07/01/2018 16:00	File folder	
js	09/01/2018 14:53	File folder	
amiibo.html	10/01/2018 16:43	Firefox HTML Doc...	4 KB
amiibo_cards.html	10/01/2018 16:43	Firefox HTML Doc...	5 KB
amiibo_figures.html	10/01/2018 16:43	Firefox HTML Doc...	9 KB
create.html	10/01/2018 16:42	Firefox HTML Doc...	5 KB
index.html	11/01/2018 13:05	Firefox HTML Doc...	6 KB
links.html	10/01/2018 16:42	Firefox HTML Doc...	5 KB
profiles.html	10/01/2018 16:43	Firefox HTML Doc...	15 KB
titles.html	10/01/2018 16:43	Firefox HTML Doc...	10 KB
videos.html	11/01/2018 10:07	Firefox HTML Doc...	4 KB

W3C Validation

Showing results for index.html

Checker Input

Show ☐ source ☑ outline ☐ image report   Options...

Check by [file upload ▾] [Browse...] No file selected.

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check]

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

[Message Filtering]

Document checking completed. No errors or warnings to show.

Validation for index.html

Validation for titles.html

It was not considered necessary to define the language as suggested.

...lish. Consider adding `lang="en"` (or variant) to the `html` start tag.

...page and Choosing language tags.
...ent, please file an issue report or send e-mail to report the problem.

Validation for amiibo.html

Due to the purpose and layout of this section it was not considered necessary to use a header.

...g `h2 - h6` **elements to** add identifying headings to all sections.

...all_about_amiibo">↵   <d

Validation for amiibo_figures.html

Options...

Check by [file upload ▾] [Browse...] No file selected.

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check]

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

[Message Filtering]

Document checking completed. No errors or warnings to show.

Showing results for amiibo_cards.html

Checker Input

Show ☐ source ☑ outline ☐ image report   Options...

Check by [file upload ▾] Browse... No file selected.

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

Check

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

Document checking completed. No errors or warnings to show.

Validation for amiibo_cards.html

Showing results for profiles.html

Checker Input

Show ☐ source ☑ outline ☐ image report   Options...

Check by [file upload ▾] Browse... No file selected.

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

Check

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

1. **Warning** Section lacks heading. Consider using `h2` - `h6` elements to add identifying headings to all sections.
    From line 518, column 3; to line 518, column 32
    `ion>↵`   `↵`   `<section id="profile_details">↵`   `<p`

Validation for profiles.html

Due to the purpose and layout of this section it was not considered necessary to use a header.

Showing results for links.html

Checker Input

Show ☐ source ☑ outline ☐ image report   Options...

Check by [file upload ▾] Browse... No file selected.

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

Check

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

Document checking completed. No errors or warnings to show.

Showing results for videos.html

Checker Input

Show ☐ source ☑ outline ☐ image report   Options...

Check by [file upload ▾] Browse... No file selected.

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

Check

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

1. **Warning** Section lacks heading. Consider using `h2` - `h6` elements to add identifying headings to all sections.
    From line 80, column 3; to line 80, column 24
    `ion>↵`   `↵`   `<section id="myvideo">↵`   `↵`

Validation for videos.html

Due to the purpose and layout of this section it was not considered necessary to use a header.

Validation for
create.html

Issues

An issue that was encountered while designing this site was to do with the security on different browsers. In some cases, browsers do not allow scripts that they identify as 'not secure' run automatically. This is remedied by allowing the scripts to run within the browser, or clicking 'see all content'. This is mainly due to GitHub's policy of only running secure scripts.

Another issue was due to the fact that most browsers, as a security measure, would not render the canvas with the user's own design of cover plate (available on the 'create' page), and instead would produce a blank page. This issue is resolved on Firefox, however to ensure maximum interoperability, more work would need to be done to find a work-around for these security measures. Luckily, this does not detract from the usability of the site, as users can still create their design as desired, and the local storage element (which tells the user how many times they have completed a cover plate) remains intact and functional in each tested browser.

References & Asset References

Romjon, Web Standards:

http://romjon.com/briefing/web-standards

w3, Homepage:

https://www.w3.org/

Gotechark, Advantages of HTML5:

https://gotechark.com/blog/advantages-html5/

Thoughco, CSS2 vs CSS3:

https://www.thoughtco.com/css2-vs-css3-3466978

amiibo_cards/isabelle.png:

https://amiibo.life/amiibo/animal-crossing-cards-series-1/isabelle

amiibo_cards/series1.png:

https://store.nintendo.co.uk/amiibo/animal-crossing-amiibo-cards-pack-series-1/11155586.html

amiibo_cards/series2.png:

https://store.nintendo.co.uk/amiibo/animal-crossing-amiibo-cards-pack-series-2/11190024.html

amiibo_cards/series3.png:

https://store.nintendo.co.uk/amiibo/animal-crossing-amiibo-cards-pack-series-3/11246282.html

amiibo_cards/series4.png:

https://store.nintendo.co.uk/amiibo/animal-crossing-amiibo-cards-pack-series-4/11271242.html

amiibo_figures/blathers.png:

http://animalcrossingworld.com/animal-crossing-amiibo-festival-figures-list/

amiibo_figures/celeste.png:

http://animalcrossingworld.com/animal-crossing-amiibo-festival-figures-list/

amiibo_figures/cyrus.png:

http://animalcrossingworld.com/animal-crossing-amiibo-festival-figures-list/

amiibo_figures/digby.png:

http://animalcrossingworld.com/animal-crossing-amiibo-festival-figures-list/

amiibo_figures/isabelle.png:

http://animalcrossingworld.com/animal-crossing-amiibo-festival-figures-list/

amiibo_figures/kappn.png:

http://animal-crossing.com/amiibo/collections/amiibo-figures

amiibo_figures/kicks.png:

http://animalcrossingworld.com/animal-crossing-amiibo-festival-figures-list/

amiibo_figures/kk_slider.png:

http://animalcrossingworld.com/animal-crossing-amiibo-festival-figures-list/

amiibo_figures/lottie.png:

http://animalcrossingworld.com/animal-crossing-amiibo-festival-figures-list/

amiibo_figures/mable.png:

http://animalcrossingworld.com/animal-crossing-amiibo-festival-figures-list/

amiibo_figures/reese.png:

http://animalcrossingworld.com/animal-crossing-amiibo-festival-figures-list/

amiibo_figures/resetti.png:

http://animalcrossingworld.com/animal-crossing-amiibo-festival-figures-list/

amiibo_figures/rover.png:

http://animal-crossing.com/amiibo/collections/amiibo-figures

amiibo_figures/tom_nook.png:

http://animalcrossingworld.com/animal-crossing-amiibo-festival-figures-list/

amiibo_figures/tommy_timmy.png:

http://animal-crossing.com/amiibo/collections/amiibo-figures