

Web Development

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Introduction to Web and Database Concepts

HTML & CSS WEB DEVELOPMENT

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DATA & INFORMATION SYSTEMS

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Introduction

The report demonstrates the design and development of a fictional video game website Newbie Gaming designed using HTML and CSS design techniques. Hyper Text Markup Language (HTML) is a markup language used for creating web pages to allow web servers to display multimedia web pages [1]. Cascading style sheets (CSS) instruct how HTML code is displayed. It enables the developer to control the layout of multiple pages with one CSS stylesheet [2]

The report also includes the result of using a code validation tool to highlight errors within the HTML/CSS. The validation section outlines how mistakes have been corrected to ensure the website is optimised for the web. The abstract includes the entire code that makes up the Newbie Gaming website.

Finally, the report documents research undertaken into website accessibility, search engine optimisation techniques and usability research and how these were considered when designing and developing the Newbie Gaming website.

Requirements

A vital part of website design and development is gathering the requirements. This section outlines the requirements needed to implement a successful gaming website.

Newbie Gaming is a fictional video game website providing users with news and reviews from the video game industry. The initial prototype will be limited in size, comprised of five pages, with a view to expanding as popularity and usage increase.

The website will consist of the following:

Home Page: Landing page for visitors, describing what to expect from the website and highlighting recent news and reviews.

Content pages: Three pages consist of the top three game consoles and reviews and news relating to these consoles. These will be accessible through the website menu.

Subscription This page will use an HTML form to allow the user to subscribe to a newsletter outlining all the monthly news highlights.

The website will target the video games industry, Statista indicates the market is worth over 178 billion, increasing rapidly from 14.4% since 2020 [3]. This will help the website succeed, with a large audience to target and benefit from the website's content.

The website will link to its corresponding social media pages; this will help expand the reach of the site and brand through the end user's social networks.

With the increased popularity of mobile devices and tablets, all screen sizes will be considered within the HTML/CSS code allowing the website to be viewed from any device.

The image below shows the site diagram design and how page linking will work.

Newbie Gamer Site Diagram

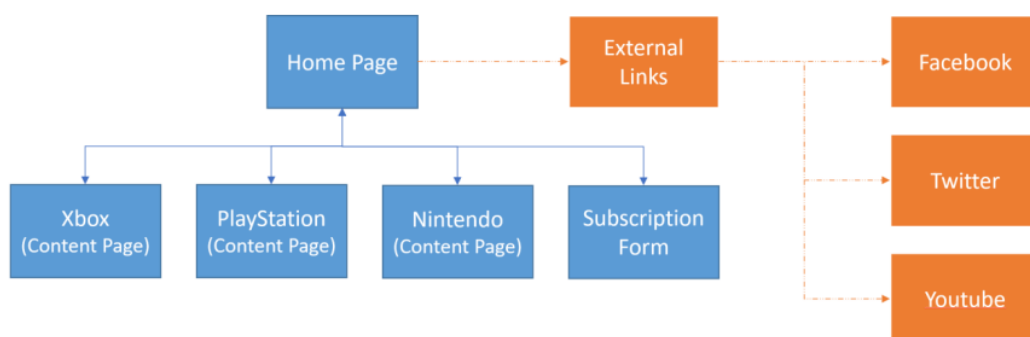


Figure 1 – Newbie Gaming site diagram created in Microsoft Visio

Below is the wireframe design used for the website. A wireframe is a diagram \ blueprint used to aid developers when implementing a website design [4]

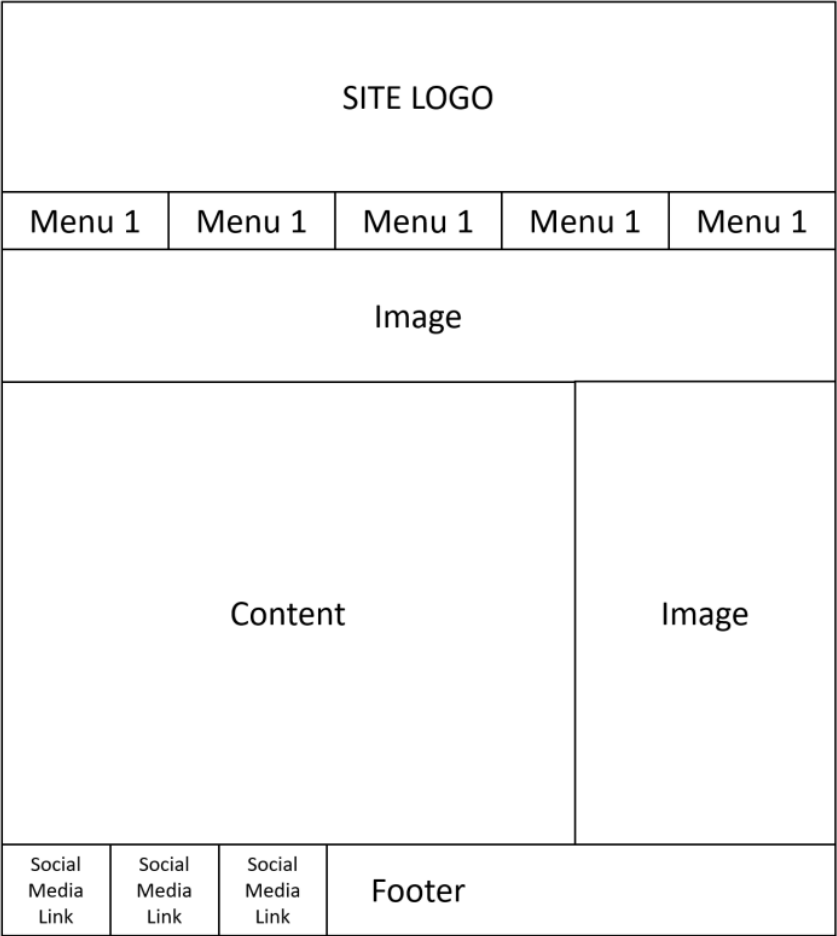


Figure 2 – Newbie Gaming wireframe design created in PowerPoint

Implementation

The following section demonstrates each page of the completed website with a brief description. The HTML and CSS code can be found in Appendix 1.

Home Page

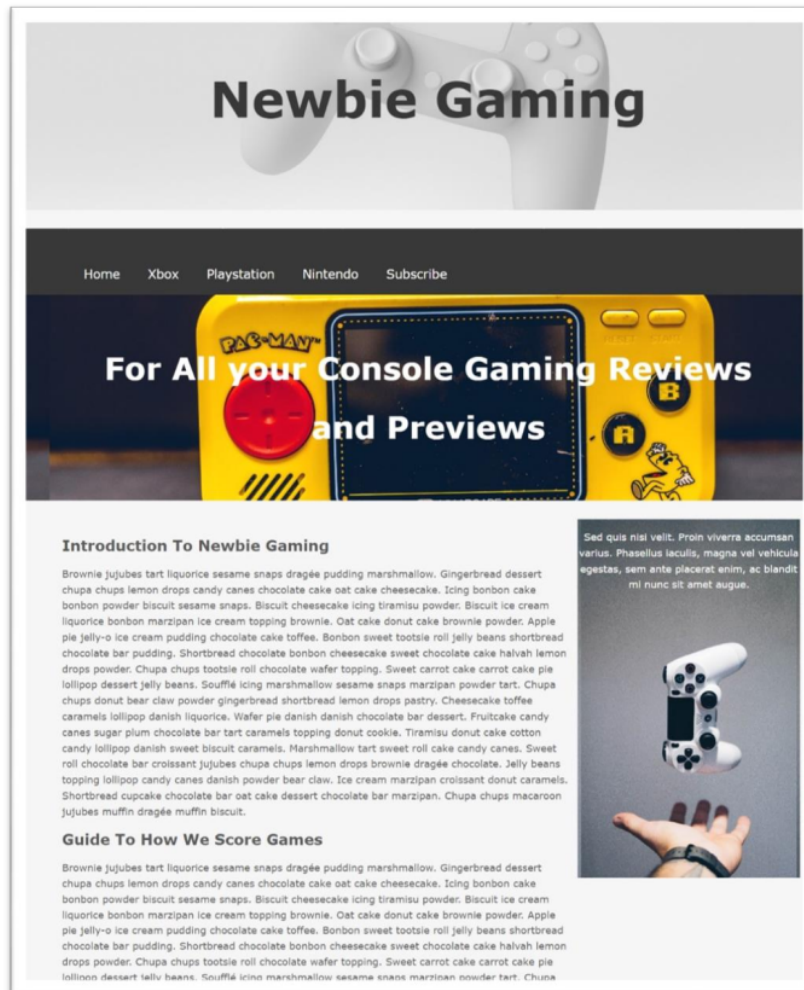


Figure 3 – Newbie Gaming home page created in Notepad ++

The above image shows the landing page for the website. It utilises a banner logo with a horizontal interactive menu. There is a large image under the menu to highlight the purpose and theme of the site. A content section describes how the site works, for example, how games are scored and rated. With related images shown on the right.



Figure 4 – Newbie Gaming content page for Xbox created in Notepad ++

One of three content pages describing information about the video game console Xbox. The page includes a top 10 games image (created in Photoshop). This page lets users get recent reviews and list the top 10 games.



Figure 5 – Newbie Gaming content page for PlayStation created in Notepad ++

One of three content pages describing information about the video game console Playstation. The page includes a top 10 games image (created in Photoshop). This page lets users get recent reviews and list the top 10 games.

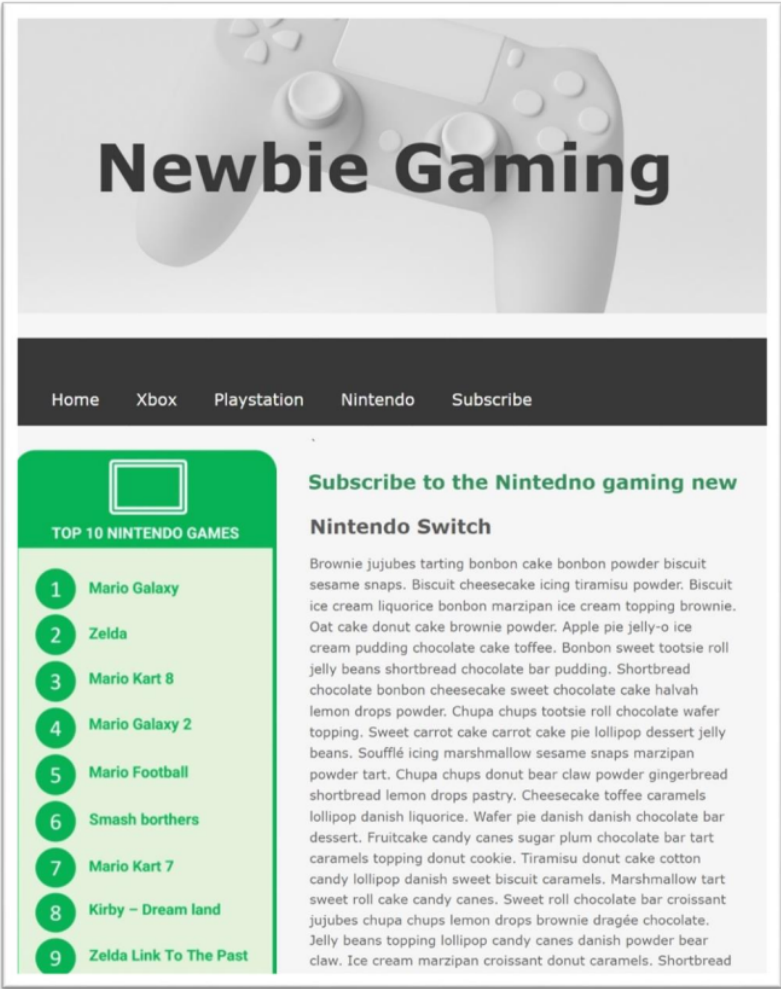
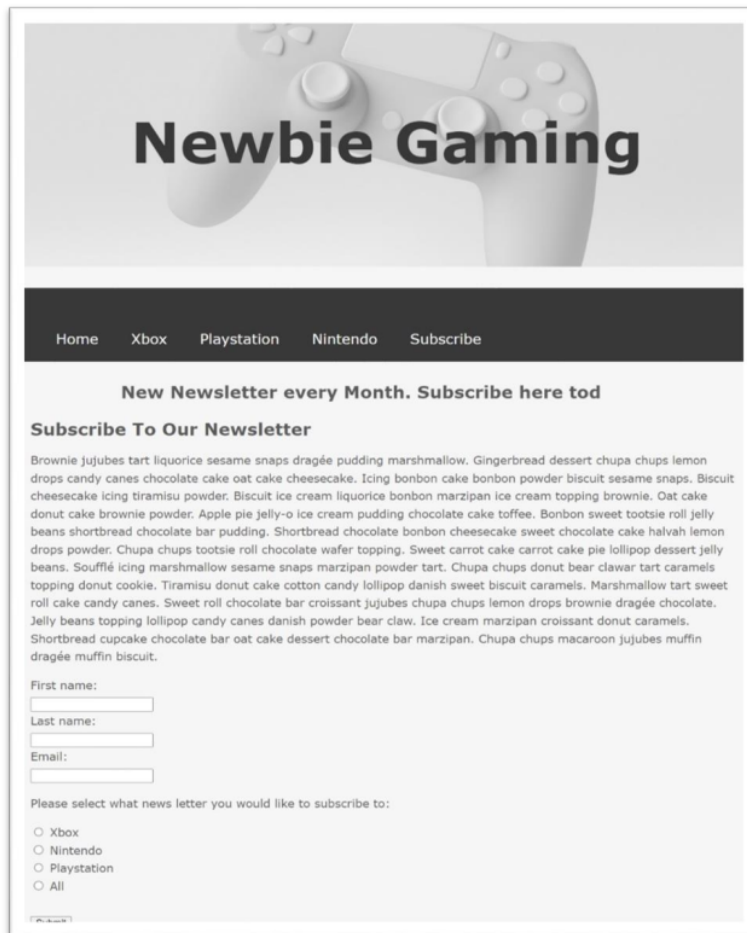


Figure 6 – Newbie Gaming content page for Nintendo created in Notepad ++

One of three content pages describing information about the video game console Nintendo. The page includes a top 10 games image (created in Photoshop). This page lets users get recent reviews and list the top 10 games.

Subscription Page



The image shows a web page design for 'Newbie Gaming'. At the top, there's a header with a background image of a game controller and the text 'Newbie Gaming'. Below the header is a navigation bar with links: Home, Xbox, Playstation, Nintendo, and Subscribe. The main content area has a heading 'New Newsletter every Month. Subscribe here tod' (note the typo 'tod'). Below this is a section titled 'Subscribe To Our Newsletter'. It contains a long paragraph of placeholder text (Lorem Ipsum). Underneath the text are three input fields for 'First name:', 'Last name:', and 'Email:'. Below these is a section titled 'Please select what news letter you would like to subscribe to:' with four radio button options: 'Xbox', 'Nintendo', 'Playstation', and 'All'. At the bottom of the form is a small 'Submit' button.

Figure 7 – Newbie Gaming subscription page created in Notepad ++

The subscription page allows users to complete an HTML form to subscribe to a monthly newsletter. The form consists of input fields and radio buttons to select areas of interest. As this is a prototype, the form does not currently function. If the site were uploaded to a web server, the form would submit the data to the server and add users to a newsletter mailing list.

Footer Design

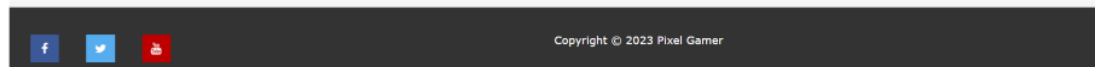


Figure 8 – Newbie Gaming footer design

The image above shows the footer design used on each page, the footer links to external social media sites when images are clicked.

Media

The graphics on the website were obtained from pexels.com [5], all images are royalty-free. On the content pages top 10 pictures were created in PowerPoint and output in PNG format. To ensure the photos were fit for a website, they were compressed and cropped using Windows image editor. The screenshot below shows the image designs in the editing tool.

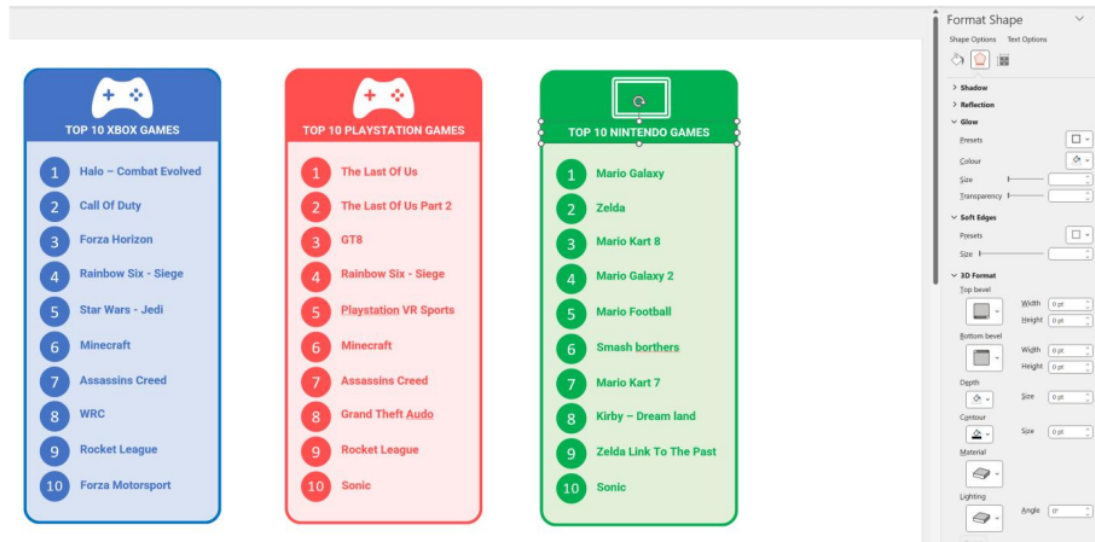


Figure 9 – PNG images created in PowerPoint.

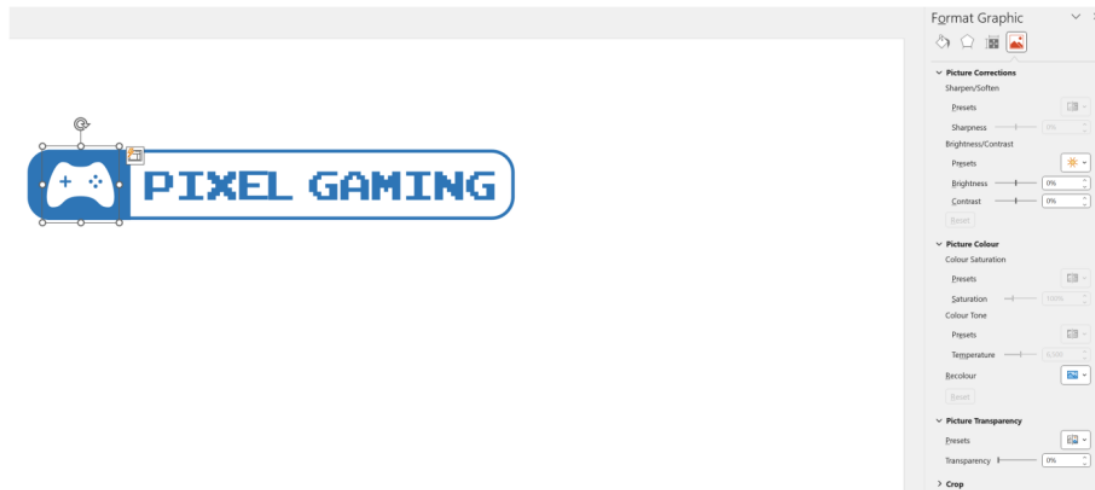


Figure 10 – PNG Logo Image for Newbie Gaming created in PowerPoint.

As the website is a prototype, an Ipsum text generator called "cupcake Ipsum" was used [6]. This allowed for a faster development time and to fill space where content will ultimately sit.

Validation

Code validation is vital when developing a website; finding issues within the code is often complex, as the page may look normal in your browser. Different browsers can display a website differently. Validation tools can help identify problems without needing to check each browser individually.

The Newbie Gaming website has been validated using the following websites. The results are discussed below.

HTML Validation - <http://validator.w3.org/>

CSS Validation - <http://jigsaw.w3.org/css-validator/>

HTML Validation



Figure 11 – HTML Error 1 – Non-space character found.

Error 1 A blank symbol was found after the last HTML closure tag. To resolve this the blank character was removed. I had to do this on all pages, probably because the code was copied and pasted between pages.

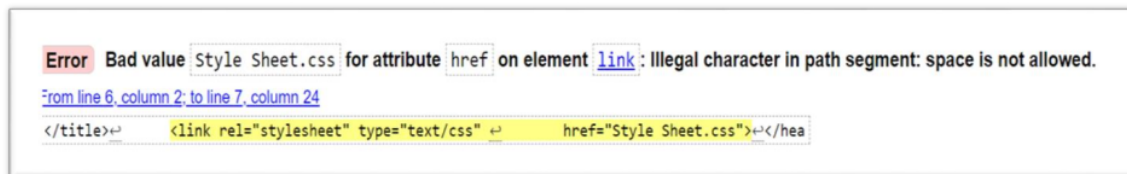


Figure 12 – HTML Error 2 – style sheet wrong value

Error 2 The style sheet Href contained a space in the title. Although this did not seem to affect the website in the Chrome browser, I removed the space in the style sheet name and updated the code on each page. This will now ensure there are no problems in other browsers.



Figure 13 – HTML Error 3 – the value of for attribute

Error 3 The label "first name" from the input did not match the control name label. Both have now been corrected to match

CSS validation

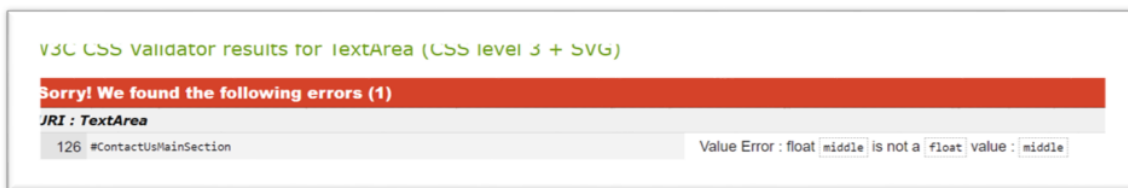


Figure 14 – CSS Error 1 – float error

Error 1 The float value was set to the middle; this is not an accepted value. Value has been corrected to show inherited, meaning it will copy its parent container's definition.

Evaluation

Website usability

Usability measures how users rate the ease of use and experience when using a website [7]. A website needs to be easily usable. A Recent poll conducted by Sweor.com indicated that 88% of website users are less likely to return to a site after having a bad experience [8].

Users should be able to navigate and find the information they need. The newbie gaming website has implemented a clear top menu navigation structure. All pages are accessible through the menu, which is clearly visible on each page. Each page is clearly titled to allow users to recognise where they are within the site's design.

The look and feel of a website are very important for the visitors. For example, if a website is cluttered or different colours don't complement each other, this can be unsatisfying for the end user. The Newbie Gaming site has been implemented with a simplistic approach with limited consistent colours, enabling text and graphics to stand out clearly from the background.

Consistency throughout a website is also essential to ensure the user is familiar with how the content is presented, and this allows the user to find what they are looking for quickly. Newbie Gaming has been created with a consistent similarity between the pages; for example, the top 10 lists are consistent with related pages, and menus and headers are found in the same sections on each page.

Alignment of the content is also essential to give a sense of order to a web page. A recent web flow blog article describes how people use two eye-reading patterns when they scan content, F and Z-shaped patterns [9]. The F-shaped design pattern is best used on text-heavy sites such as news sites, whereas the z pattern is commonly used on landing pages and storefronts. The Newbie Gaming site has been implemented with the F-shaped layout as the site is predominantly news and review based with a lot of text.

Content is consumed on various screen sizes, from mobile phones to large monitors. The Newbie Gaming site was created to be responsive to the browser size; for example, the content will behave differently on smaller screens by stacking the content and compressing the menu from horizontal to vertical, making a better user experience on all devices.

If the website were to be developed further, as more pages are added, I would recommend adding a sub menu drop down to the menu bar, grouping similar sections to the site. Also, with more pages, I would include a site map page to allow the user the option for direct access to the content they are looking for without the need to navigate through the menus.

It is recommended that before any future developments, user testing and feedback is carried out to gather any further requirements for improvements.

Search Engine Optimisation (SEO)

Search Engine Optimisation (SEO) is a technique used when designing a site to ensure they are search engine friendly, increasing website traffic [10]. There are two parts to an efficient SEO approach, off page and on page optimisation. The web developer controls on-page and can incorporate several techniques to help search engines recognise the website's contents. Below outlines some of these methods and how they have been applied to the Newbie Gaming website.

Title HTML Tags - This is one of the most important aspects of SEO. A search engine will look at title tags to determine if the website matches the search engine search. The tag should be descriptive and relevant to the website to drive relevant users to the site [11]. The Newbie Gamer website includes descriptive title tags on each page describing the page contents.

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8" />
  <title>Pixel Gamer - The Home Of Xbox \ Playstation and nintendo previews and reviews</title>
  <link rel="stylesheet" type="text/css" href="StyleSheet.css">
</head>
<body>
```

Figure 15 – Newbie Gaming HTML title tag (Home Page)

Images - Search engines scan all the text on a website, including any alt text associated with images. Alt text is not only crucial for the visually impaired, but it also provides additional keyword text for search engines to recognise. The Newbie gaming site includes alt\title text on each image to provide additional keywords to drive more traffic and search engine results. When testing, it was identified alt text functioning was not working within the Chrome browser; however, adding a title element within the CSS ID acts as an alt tag for background pictures linked in the CSS file.

```
<section id="Header" title="Newbie Gaming - Logo with Playstation Control Pad Background">
  <div class="container">
    <h1>Newbie Gaming
    </h1>
  </div>
</section>
```

Figure 16 – Example of the Alt\Title header text used on the index page.

Navigation - It is vital to have an effective internal link structure to allow search engines can crawl the site efficiently. The Newbie Gaming site uses descriptive links and easily identifiable anchor text to help improve the search engine ranking.

Content: Ultimately, the website's content needs to be of a high standard for search engines to link relevant information to user searches. Although the Newbie Gaming site uses "dummy text", if the site was developed further, the content would need to be high-quality with information relevant to the subject matter. Adding more media would also drive more search results, such as videos, sound clips, images, and text content.

Accessibility

Website accessibility refers to the technologies and tools used by developers to allow people with disabilities to be able to observe, navigate and interact with the content [12]. A recent paper showed a study that over 80 per cent of visually impaired people are dependent on someone else for online transactions, and this means the majority of visually impaired users tend not to use E-commerce websites [13]

Many types of disabilities must be considered when developing a website, including vision, hearing, mobility and learning difficulties. WCAG 2.1 from gov.uk describes guidelines for four principles for web accessibility [14]. Below describes each principle and how it has been applied to the Newbie Gaming website.

Perceivable: To meet this principle, the end users will need to be able to recognise and use the site with the senses available to them. To comply with this principle, the Newbie Gamer has been implemented with the following:

Alt \ Title Text has been included on images and logos to ensure screen readers can audibly describe the contents of any images.

Structure: The site is constructed logically, allowing for easy navigation and screen readers to navigate.

Markup Language: The HTML has been implemented correctly and consistently and validated

The colours\text: used are consistent, and text can be easily viewed against background colours/images.

Responsive design: The website has been designed to be responsive to the user's device; for example, the website adjusts to the device's screen size.

Contrast: Using the contrast checker by Acat Communications [15], the website has been developed with a foreground and background, which is suitable for most users.

For further development, a transcript could be added for any audio or video used within the website; also, captions would need to be included.

Operable: To successfully meet this requirement, the end users need to be able to access content using various methods, for example, keyboard, touch screen or speech commands. To ensure the Newbie Gamer sites comply, the following has been implemented:

Descriptive Links: All links are descriptive to allow the users to identify where the link will navigate.

Descriptive Titles: Page titles are descriptive and informative, describing the page's contents or section.

Content Structure: The pages of Newbie Gaming have been designed to be straightforward, simplistic, and easily navigated. For example, the menu bar is constantly on the top of each page, with easy navigation around the website.

Keyboard Tab: The web pages allow a keyboard tab press to enable the user to navigate around the available links without needing a mouse.

For further development, documentation could be added to the site to instruct users on how to customise the browser settings to help with any accessibility issues. For example, how to disable\enable and customise shortcut keys.

Understandability

Language is Clear and Consistent: Each page has been marked up with the English language label within the HTML

Forms: the contact us form has been implemented using meaningful labels to allow the user to understand what is expected.

Robust is an important principle as it ensures a user's assistive technology, such as a screen reader, can read the website's coding. The Newbie Gamer site has included the following:

HTML The site has been developed using HTML to ensure assistive technologies can interpret the content

Conclusion

The Newbie Gaming website demonstrates a prototype for a video games review and preview website, providing the customer with up-to-date information from the gaming industry. From initially gathering requirements, wireframes and site design were planned. Using the requirements a prototype website has been developed using HTML and CSS technologies.

The website was designed using the WCAG 2.1 principal guidelines to ensure accessibility is a priority. From conducting research, design recommendations have been made for any future prototypes to improve usability, search engine optimisation and accessibility features.

The final website design is a prototype; if this were commissioned for full development, relevant content and text would need to be added. Further improvements could also include adding more media and quality written content to drive more traffic to the site. Adding user logins, accounts and message boards is also recommended to encourage users to return to the site.

References

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- [13] S. Santoki and N. Patvardhan, "An examination on 'website accessibility' for active engagement of visually impaired e-commerce customers," *Technology and disability*, vol. 33, no. 3, pp. 187–193, 2021, doi: 10.3233/TAD-200293.
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Abbreviations

Abbreviation	Definition
HTML	Hypertext Markup Language
CSS	Cascading Style Sheets
WWW	World Wide Web
PNG	Portable Network Graphic
SEO	Search Engine Optimisation
WCAG	Web Content Accessibility Guidelines

Appendix A – HTML & CSS Code

Home Page HTML Code

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8" />
  <title>Pixel Gamer - The Home Of Xbox \ Playstation and nintendo previews and reviews</title>
  <link rel="stylesheet" type="text/css" href="StyleSheet.css">
</head>
<body>

  <section id="Header" title="Newbie Gaming - Logo with Playstation Control Pad Background">
    <div class="container">
      <h1>Newbie Gaming
      </h1>
    </div>
  </section>

  <nav id="Navigation_Bar">
    <div class="container">
      <ul>
        <li><a href="index.html">Home</a></li>
        <li><a href="Xbox.html">Xbox</a></li>
        <li><a href="Playstation.html">Playstation</a></li>
        <li><a href="nintendo.html">Nintendo</a></li>
        <li><a href="Subscribe.html">Subscribe</a></li>
      </ul>
    </div>
  </nav>

  <section id="TopPic" title="Game Console Picture - shwoing pac man game">
    <div class="container" >
      <h1>For All your Console Gaming Reviews and Previews
      </h1>
    </div>
  </section>

  <div class="container">
    <section id="main_Section">
      <h1>Introduction To Newbie Gaming</h1>
      <p>Brownie jujubes tart liquorice sesame snaps dragée pudding marshmallow.
      Gingerbread dessert chupa chups lemon drops candy canes chocolate cake oat cake cheesecake. Icing
      bonbon cake bonbon powder biscuit sesame snaps. Biscuit cheesecake icing tiramisu powder. Biscuit
      ice cream liquorice bonbon marzipan ice cream topping brownie. Oat cake donut cake brownie
      powder. Apple pie jelly-o ice cream pudding chocolate cake toffee. Bonbon sweet tootsie roll jelly
```

beans shortbread chocolate bar pudding. Shortbread chocolate bonbon cheesecake sweet chocolate cake halvah lemon drops powder. Chupa chups tootsie roll chocolate wafer topping. Sweet carrot cake carrot cake pie lollipop dessert jelly beans. Soufflé icing marshmallow sesame snaps marzipan powder tart.

Chupa chups donut bear claw powder gingerbread shortbread lemon drops pastry. Cheesecake toffee caramels lollipop danish liquorice. Wafer pie danish danish chocolate bar dessert. Fruitcake candy canes sugar plum chocolate bar tart caramels topping donut cookie. Tiramisu donut cake cotton candy lollipop danish sweet biscuit caramels. Marshmallow tart sweet roll cake candy canes. Sweet roll chocolate bar croissant jujubes chupa chups lemon drops brownie dragée chocolate. Jelly beans topping lollipop candy canes danish powder bear claw. Ice cream marzipan croissant donut caramels. Shortbread cupcake chocolate bar oat cake dessert chocolate bar marzipan. Chupa chups macaroon jujubes muffin dragée muffin biscuit.

</p>

<h1>Guide To How We Score Games</h1>

<p>Brownie jujubes tart liquorice sesame snaps dragée pudding marshmallow. Gingerbread dessert chupa chups lemon drops candy canes chocolate cake oat cake cheesecake. Icing bonbon cake bonbon powder biscuit sesame snaps. Biscuit cheesecake icing tiramisu powder. Biscuit ice cream liquorice bonbon marzipan ice cream topping brownie. Oat cake donut cake brownie powder. Apple pie jelly-o ice cream pudding chocolate cake toffee. Bonbon sweet tootsie roll jelly beans shortbread chocolate bar pudding. Shortbread chocolate bonbon cheesecake sweet chocolate cake halvah lemon drops powder. Chupa chups tootsie roll chocolate wafer topping. Sweet carrot cake carrot cake pie lollipop dessert jelly beans. Soufflé icing marshmallow sesame snaps marzipan powder tart.

Chupa chups donut bear claw powder gingerbread shortbread lemon drops pastry. Cheesecake toffee caramels lollipop danish liquorice. Wafer pie danish danish chocolate bar dessert. Fruitcake candy canes sugar plum chocolate bar tart caramels topping donut cookie. Tiramisu donut cake cotton candy lollipop danish sweet biscuit caramels. Marshmallow tart sweet roll cake candy canes. Sweet roll chocolate bar croissant jujubes chupa chups lemon drops brownie dragée chocolate. Jelly beans topping lollipop candy canes danish powder bear claw. Ice cream marzipan croissant donut caramels. Shortbread cupcake chocolate bar oat cake dessert chocolate bar marzipan. Chupa chups macaroon jujubes muffin dragée muffin biscuit.

</p>

</section>

<aside id="Right_sidebar" title="side picture, playstation control pad background">

<p>Sed quis nisi velit. Proin viverra accumsan varius. Phasellus iaculis, magna vel vehicula egestas, sem ante placerat enim, ac blandit mi nunc sit amet augue.</p>

</aside>

</div>

<footer id="footer">


```
        
    </a>
    <a href="https://www.Twitter.com/">
        
    </a>
    <a href="https://www.Youtube.com/">
        
    </a>
```

```
    <p> Copyright &copy; 2023 Pixel Gamer</p>
```

```
</footer>
```

```
</body>
```

```
</html>
```

Content Page 1 - Xbox Page HTML Code

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8" />
  <title>Pixel Gamer - Xbox</title>
  <link rel="stylesheet" type="text/css"
    href="StyleSheet.css">
</head>
<body>

  <section id="Header">
    <div class="container">
      <h1>Newbie Gaming
      </h1>
    </div>
  </section>

  <nav id="Navigation_Bar">
    <div class="container">
      <ul>
        <li><a href="index.html">Home</a></li>
        <li><a href="Xbox.html">Xbox</a></li>
        <li><a href="Playstation.html">Playstation</a></li>
        <li><a href="nintendo.html">Nintendo</a></li>
        <li><a href="Subscribe.html">Subscribe</a></li>
      </ul>
    </div>
  </nav>

  <div class="container">

    <section id="TopPicXbox">
      <div class="container">

      </div>
    </section>

    <aside id="Top10_sidebar">

    </aside>

    <section id="main_Section_Right">
      <marquee style="color: DodgerBlue" width="100%" direction="left"
height="50px">
```

today!!</h1>
</marquee>

<h1>Microsoft Xbox</h1>
<p>Brownie jujubes tarting bonbon cake bonbon powder biscuit sesame snaps. Biscuit cheesecake icing tiramisu powder. Biscuit ice cream liquorice bonbon marzipan ice cream topping brownie. Oat cake donut cake brownie powder. Apple pie jelly-o ice cream pudding chocolate cake toffee. Bonbon sweet tootsie roll jelly beans shortbread chocolate bar pudding. Shortbread chocolate bonbon cheesecake sweet chocolate cake halvah lemon drops powder. Chupa chups tootsie roll chocolate wafer topping. Sweet carrot cake carrot cake pie lollipop dessert jelly beans. Soufflé icing marshmallow sesame snaps marzipan powder tart.
Chupa chups donut bear claw powder gingerbread shortbread lemon drops pastry. Cheesecake toffee caramels lollipop danish liquorice. Wafer pie danish danish chocolate bar dessert. Fruitcake candy canes sugar plum chocolate bar tart caramels topping donut cookie. Tiramisu donut cake cotton candy lollipop danish sweet biscuit caramels. Marshmallow tart sweet roll cake candy canes. Sweet roll chocolate bar croissant jujubes chupa chups lemon drops brownie dragée chocolate. Jelly beans topping lollipop candy canes danish powder bear claw. Ice cream marzipan croissant donut caramels. Shortbread cupcake chocolate bar oat cake dessert chocolate bar marzipan. Chupa chups macaroon jujubes muffin dragée muffin biscuit.
</p>

<h1>Game Review April 2023 - Call Of Duty</h1>

<p>Brownie jujubes tart liquorice sesame snaps dragée pudding marshmallow. Gingerbread dessert chupa chups lemon drops candy canes chocolate cake oat cake cheesecake. Icing bonbon cake bonbon powder biscuit sesame snaps. Biscuit cheesecake icing tiramisu powder. Biscuit ice cream liquorice bonbon marzipan ice cream topping brownie. Oat cake donut cake brownie powder. Apple pie jelly-o ice cream pudding chocolate cake toffee. Bonbon sweet tootsie roll jelly beans shortbread chocolate bar pudding. Shortbread chocolate bonbon cheesecake sweet chocolate cake halvah lemon drops powder. Chupa chups tootsie roll chocolate wafer topping. Sweet carrot cake carrot cake pie lollipop dessert jelly beans. Soufflé icing marshmallow sesame snaps marzipan powder tart.
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</p>

<h1>Games Coming Next Month</h1>

<p>Brownie jujubes tart liquorice sesame snaps dragée pudding marshmallow. Gingerbread dessert chupa chups lemon drops candy canes chocolate cake oat cake cheesecake. Icing bonbon cake bonbon powder biscuit sesame snaps. Biscuit cheesecake icing tiramisu powder. Biscuit ice cream liquorice bonbon marzipan ice cream topping brownie. Oat cake donut cake brownie powder. Apple pie jelly-o ice cream pudding chocolate cake toffee. Bonbon sweet tootsie roll jelly beans shortbread chocolate bar pudding. Shortbread chocolate bonbon cheesecake sweet chocolate cake halvah lemon drops powder. Chupa chups tootsie roll chocolate wafer topping. Sweet carrot cake carrot cake pie lollipop dessert jelly beans. Soufflé icing marshmallow sesame snaps marzipan powder tart.

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</p>

</section>

</div>

<footer id="footer">

<p> Copyright © 2023 Pixel Gamer</p>

</footer>

</body>

</html>

Content Page 2 – PlayStation Page HTML Code

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8" />
  <title>Pixel Gamer - Playstation</title>
  <link rel="stylesheet" type="text/css"
    href="StyleSheet.css">
</head>
<body>

  <section id="Header">
    <div class="container">
      <h1>Newbie Gaming
      </h1>
    </div>
  </section>

  <nav id="Navigation_Bar">
    <div class="container">
      <ul>
        <li><a href="index.html">Home</a></li>
        <li><a href="Xbox.html">Xbox</a></li>
        <li><a href="Playstation.html">Playstation</a></li>
        <li><a href="nintendo.html">Nintendo</a></li>
        <li><a href="Subscribe.html">Subscribe</a></li>
      </ul>
    </div>
  </nav>

  <div class="container">

    <aside id="Top10_sidebarPS">

    </aside>

    <section id="main_Section_Right">
      <h1>
        <marquee style="color:Crimson" width="100%" direction="left"
height="30px">
        Subscribe to the Playstation gaming newsletter. Click Subscribe here
today!!
        </marquee>
      </h1>

      <h1>Sony Playstation</h1>
```

<p>Brownie jujubes tarting bonbon cake bonbon powder biscuit sesame snaps. Biscuit cheesecake icing tiramisu powder. Biscuit ice cream liquorice bonbon marzipan ice cream topping brownie. Oat cake donut cake brownie powder. Apple pie jelly-o ice cream pudding chocolate cake toffee. Bonbon sweet tootsie roll jelly beans shortbread chocolate bar pudding. Shortbread chocolate bonbon cheesecake sweet chocolate cake halvah lemon drops powder. Chupa chups tootsie roll chocolate wafer topping. Sweet carrot cake carrot cake pie lollipop dessert jelly beans. Soufflé icing marshmallow sesame snaps marzipan powder tart.

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</p>

<h1>Game Review April 2023 - The Last Of Us</h1>

<p>Brownie jujubes tart liquorice sesame snaps dragée pudding marshmallow. Gingerbread dessert chupa chups lemon drops candy canes chocolate cake oat cake cheesecake. Icing bonbon cake bonbon powder biscuit sesame snaps. Biscuit cheesecake icing tiramisu powder. Biscuit ice cream liquorice bonbon marzipan ice cream topping brownie. Oat cake donut cake brownie powder. Apple pie jelly-o ice cream pudding chocolate cake toffee. Bonbon sweet tootsie roll jelly beans shortbread chocolate bar pudding. Shortbread chocolate bonbon cheesecake sweet chocolate cake halvah lemon drops powder. Chupa chups tootsie roll chocolate wafer topping. Sweet carrot cake carrot cake pie lollipop dessert jelly beans. Soufflé icing marshmallow sesame snaps marzipan powder tart.

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</p>

<h1>Games Coming Next Month</h1>

<p>Brownie jujubes tart liquorice sesame snaps dragée pudding marshmallow. Gingerbread dessert chupa chups lemon drops candy canes chocolate cake oat cake cheesecake. Icing bonbon cake bonbon powder biscuit sesame snaps. Biscuit cheesecake icing tiramisu powder. Biscuit ice cream liquorice bonbon marzipan ice cream topping brownie. Oat cake donut cake brownie powder. Apple pie jelly-o ice cream pudding chocolate cake toffee. Bonbon sweet tootsie roll jelly

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</p>

</section>

</div>

<footer id="footer">

<p> Copyright © 2023 Pixel Gamer</p>

</footer>

</body>

</html>

Content Page 3 - Nintendo HTML Code

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8" />
  <title>Pixel Gamer - Nintendo</title>
  <link rel="stylesheet" type="text/css"
    href="StyleSheet.css">
</head>
<body>

  <section id="Header">
    <div class="container">
      <h1>Newbie Gaming
      </h1>
    </div>
  </section>

  <nav id="Navigation_Bar">
    <div class="container">
      <ul>
        <li><a href="index.html">Home</a></li>
        <li><a href="Xbox.html">Xbox</a></li>
        <li><a href="Playstation.html">Playstation</a></li>
        <li><a href="nintendo.html">Nintendo</a></li>
        <li><a href="Subscribe.html">Subscribe</a></li>
      </ul>
    </div>
  </nav>

  <div class="container">

    <aside id="Top10_sidebarNin">

    </aside>

    <section id="main_Section_Right">
      <h1>
        <marquee style="color:SeaGreen" width="100%" direction="left"
height="30px">
        Subscribe to the Nintedno gaming newsletter. Click Subscribe here
today!!
        </marquee>
      </h1>

      <h1>Nintendo Switch</h1>
```

<p>Brownie jujubes tarting bonbon cake bonbon powder biscuit sesame snaps. Biscuit cheesecake icing tiramisu powder. Biscuit ice cream liquorice bonbon marzipan ice cream topping brownie. Oat cake donut cake brownie powder. Apple pie jelly-o ice cream pudding chocolate cake toffee. Bonbon sweet tootsie roll jelly beans shortbread chocolate bar pudding. Shortbread chocolate bonbon cheesecake sweet chocolate cake halvah lemon drops powder. Chupa chups tootsie roll chocolate wafer topping. Sweet carrot cake carrot cake pie lollipop dessert jelly beans. Soufflé icing marshmallow sesame snaps marzipan powder tart.

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</p>

<h1>Game Review April 2023 - Mario Football</h1>

<p>Brownie jujubes tart liquorice sesame snaps dragée pudding marshmallow. Gingerbread dessert chupa chups lemon drops candy canes chocolate cake oat cake cheesecake. Icing bonbon cake bonbon powder biscuit sesame snaps. Biscuit cheesecake icing tiramisu powder. Biscuit ice cream liquorice bonbon marzipan ice cream topping brownie. Oat cake donut cake brownie powder. Apple pie jelly-o ice cream pudding chocolate cake toffee. Bonbon sweet tootsie roll jelly beans shortbread chocolate bar pudding. Shortbread chocolate bonbon cheesecake sweet chocolate cake halvah lemon drops powder. Chupa chups tootsie roll chocolate wafer topping. Sweet carrot cake carrot cake pie lollipop dessert jelly beans. Soufflé icing marshmallow sesame snaps marzipan powder tart.

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</p>

<h1>Games Coming Next Month</h1>

<p>Brownie jujubes tart liquorice sesame snaps dragée pudding marshmallow. Gingerbread dessert chupa chups lemon drops candy canes chocolate cake oat cake cheesecake. Icing bonbon cake bonbon powder biscuit sesame snaps. Biscuit cheesecake icing tiramisu powder. Biscuit ice cream liquorice bonbon marzipan ice cream topping brownie. Oat cake donut cake brownie powder. Apple pie jelly-o ice cream pudding chocolate cake toffee. Bonbon sweet tootsie roll jelly

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</p>

</section>

</div>

<footer id="footer">

<p> Copyright © 2023 Pixel Gamer</p>

</footer>

</body>

</html>

Subscription Page HTML Code

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8" />
  <title>Pixel Gamer - Subscribe</title>
  <link rel="stylesheet" type="text/css"
    href="StyleSheet.css">
</head>
<body>

  <section id="Header">
    <div class="container">
      <h1>Newbie Gaming
      </h1>
    </div>
  </section>

  <nav id="Navigation_Bar">
    <div class="container">
      <ul>
        <li><a href="index.html">Home</a></li>
        <li><a href="Xbox.html">Xbox</a></li>
        <li><a href="Playstation.html">Playstation</a></li>
        <li><a href="nintendo.html">Nintendo</a></li>
        <li><a href="Subscribe.html">Subscribe</a></li>
      </ul>
    </div>
  </nav>

  <div class="container">
    <section id="ContactUsMainSection">

      <h1>
        <marquee width="80%" direction="left" height="30px">
          New Newsletter every Month. Subscribe here today!!
        </marquee>
      </h1>

      <h1>Subscribe To Our Newsletter</h1>
      <p>Brownie jujubes tart liquorice sesame snaps dragée pudding marshmallow.
      Gingerbread dessert chupa chups lemon drops candy canes chocolate cake oat cake cheesecake. Icing
      bonbon cake bonbon powder biscuit sesame snaps. Biscuit cheesecake icing tiramisu powder. Biscuit
      ice cream liquorice bonbon marzipan ice cream topping brownie. Oat cake donut cake brownie
      powder. Apple pie jelly-o ice cream pudding chocolate cake toffee. Bonbon sweet tootsie roll jelly
      beans shortbread chocolate bar pudding. Shortbread chocolate bonbon cheesecake sweet chocolate
      cake halvah lemon drops powder. Chupa chups tootsie roll chocolate wafer topping. Sweet carrot cake
```

carrot cake pie lollipop dessert jelly beans. Soufflé icing marshmallow sesame snaps marzipan powder tart.

Chupa chups donut bear claw tart caramels topping donut cookie. Tiramisu donut cake cotton candy lollipop danish sweet biscuit caramels. Marshmallow tart sweet roll cake candy canes. Sweet roll chocolate bar croissant jujubes chupa chups lemon drops brownie dragée chocolate. Jelly beans topping lollipop candy canes danish powder bear claw. Ice cream marzipan croissant donut caramels. Shortbread cupcake chocolate bar oat cake dessert chocolate bar marzipan. Chupa chups macaroon jujubes muffin dragée muffin biscuit.

```
<form action="#">
  <label for="firstname">First name:</label><br>
  <input type="text" id="firstname" name="firstname" value=""><br>
  <label for="lastName">Last name:</label><br>
  <input type="text" id="lastName" name="lastName" value=""><br>
  <label for="Email">Email:</label><br>
  <input type="text" id="Email" name="Email" value=""><br>

  <p>Please select what news letter you would like to subscribe to:</p>

  <input type="radio" id="Xbox" name="Xbox" value="Xbox">
  <label for="Xbox">Xbox</label><br>
  <input type="radio" id="Nintendo" name="Nintendo"
value="Nintendo">
  <label for="Nintendo">Nintendo</label><br>
  <input type="radio" id="Playstation" name="Playstation"
value="Playstation">
  <label for="Playstation">Playstation</label><br>
  <input type="radio" id="All" name="All" value="All">
  <label for="All">All</label><br><br>
  <input type="submit" value="Submit">
</form>

<p>The submit button currently does not work on this prototype
website.</p>
</section>
</div>

<footer id="footer">

  <a href="https://www.facebook.com/">
    
  </a>
  <a href="https://www.Twitter.com/">
    
  </a>
  <a href="https://www.Youtube.com/">
```

```
                
            </a>
```

```
        <p> Copyright &copy; 2023 Pixel Gamer</p>
```

```
    </footer>
```

```
</body>
```

```
</html>
```

CSS Style Sheet

```
/* CSS Style Sheet For Pixel Gamer*/
/* Settings for page body*/
body{
    background-color:#f4f4f4;
    color:#555;
    font-family: Arial, Geneva, Helvetica, sans-serif;
    font-size:16px;
    line-height:1.6em;
    margin:0;
}

/* Set width of page body*/
.container{
    width:90%;
    margin:auto;
    overflow:hidden;
}

/* Settings for Header image*/
#Header{
    background-image:url("./images/header.jpg"); /* Link to image*/
    background-size: 1400px;
    opacity:1.0;
    background-position:center;
    min-height:100px;
    margin-bottom:30px;
    text-align:center;
    font-family: verdana;
}

/* Settings for Header image back ground text*/
#Header h1{
    color:#333;
    font-size:80px;
    line-height:1.6em;
    padding:50px;
}

/* navigation bar settings*/
#Navigation_Bar{
    background-color:#333;
    color:#fff;
    font-family: verdana;
}

#Navigation_Bar li{
```

```

        display:inline;
    }

    #Navigation_Bar ul{
        padding:25px;
        list-style:none;
    }

    #Navigation_Bar li{
        display:inline;
    }

    #Navigation_Bar a{
        font-size:20px;
        padding-right:25px;
    }

    /* Set anchor link settings*/
    a{
        color:white;
        text-decoration: none;
        float: left; /* Make sure that the links stay side-by-side */
        display: block; /* Change the display to block, for responsive reasons (see below) */
        color: white; /* White text color */
        text-align: Center; /* Center the text */
        padding: 20px 20px; /* Add some padding */
        text-decoration: none; /* Remove underline */
    }

    /* Set button mouse over on hover*/
    a:hover{
        background-color: white; /* Grey background color */
        color: black; /* Black text color */
    }

    /* Top picture background settings and link*/
    #TopPic{
        background-image:url("./images/homebanner.jpg"); /* Link to image*/
        background-size: 1280px;
        opacity:1.0;
        background-position:center right;
        min-height:200px;
        margin-bottom:30px;
        text-align:center;
    }

```

```

/* Top picture text overlay settings*/
#TopPic h1{
    color:white;
    font-family: verdana;
    font-size:50px;
    line-height:1.9em;
    padding:30px;
}

/* main section left settings*/
#main_Section{
    float:left; /* float left*/
    vertical-align: top;
    width:70%; /* use 70 percent of screen*/
    padding:10px;
    box-sizing: border-box;
    font-family: verdana;
}

#TopPicXbox{
    background-image:url("../images/MainPage.jpg"); /* Link to image*/
    background-size: 1280px;
    opacity:1.0;
    background-position:center right;
    min-height:200px;
    margin-bottom:30px;
    text-align:center;
}

#ContactUsMainSection{
    float:inherit;
    vertical-align: top;
    width:100%; /* use 70 percent of screen*/
    padding:10px;
    box-sizing: border-box;
    font-family: verdana;
}

/* right sidebar section settings*/
#Right_sidebar{
    float:right;
    width:30%; /* use 20 percent of screen*/
    background-image:url("../images/Long.jpg"); /* Link to picture*/
    background-size: 350px;
    background-position:center;
    min-height:580px;
    margin-bottom:30px;
}

```

```

        text-align:center;
        color:white;
        font-family: verdana;
    }

    #main_Section_Right{
        float:left; /* float right*/
        width:60%; /* use 70 percent of screen*/
        padding:10px;
        box-sizing: border-box;
        font-family: verdana;
    }

    /* Left sidebar section settings*/
    #Top10_sidebar{
        float:left;
        vertical-align: top;
        width:30%; /* use 30 percent of screen*/
        background-image:url("./images/Xbox_Side.png"); /* Link to picture*/
        background-position:center;
        background-size: 320px;
        max-width: 320px;
        width: 320px;
        height: 746px;
        margin: auto;
        display: block;
        margin-top: 20px;
        margin-right: 30px;
    }

    #Top10_sidebarPS{
        float:left;
        vertical-align: top;
        width:30%; /* use 30 percent of screen*/
        background-image:url("./images/Sony_Side.png"); /* Link to picture*/
        background-position:center;
        background-size: 320px;
        max-width: 320px;
        width: 320px;
        height: 746px;
        margin: auto;
        display: block;
        margin-top: 20px;
        margin-right: 30px;
    }

```

```

#Top10_sidebarNin{
    float:left;
    vertical-align: top;
    width:30%; /* use 30 percent of screen*/
    background-image:url("../images/Nintendo_Side.png"); /* Link to picture*/
    background-position:center;
    background-size: 320px;
    max-width: 320px;
width: 320px;
height: 746px;
    margin: auto;
    display: block;
    margin-top: 20px;
    margin-right: 30px;
}

/* footer section settings*/
#footer {

    background:#333;
    color:#fff;
    text-align:center;
    padding:20px;
    margin-top:10px;
    font-family: verdana;
}

/* media settings for mobile phone, max width 600PX*/
@media(max-width:400px){
    #main_Section{
        width:100%;
        float:none;
    }

    #Right_sidebar{
        width:100%;
        float:none;
    }

    #Top10_sidebar{
        width:100%;
        float:none;
    }

    #main_Section_Right{
        width:100%;

```

```
        float:none;
    }

    #navbar li{
        display:block;
        float: none;
        width: 100%;
    }
}
```

Web Development

GRADEMARK REPORT

FINAL GRADE

GENERAL COMMENTS

Instructor

78/100

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JONATHAN WILCOX

315

ENGAGEMENT WITH LITERATURE



An excellent range of research material cited

80

KNOWLEDGE AND UNDERSTANDING



Very comprehensive with all required aspects covered

80

COGNITIVE AND INTELLECTUAL

PRACTICAL APPLICATION



A really good attempt at hand coding a site with the course material as a base, but additional input provided.

Good to see the site diagram and wireframes. Pity media queries weren't included to make a more responsive site, but otherwise, a sterling effort.

75

TRANSFERABLE SKILLS



Very well laid out and presented.

80