



INTRODUCTION TO WEB AND DATABASE CONCEPTS – ACCA4023

HTML and CSS Web Development

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Introduction

This report introduces a website that was developed using HTML and CSS, about a fictional company “Aperture Science”. It will cover the design and structure of the website, and its validity through testing. Web development concepts such as usability, accessibility and search engine optimisation will be defined, followed up by an evaluation to see how the website aligns with these.

Requirements

To demonstrate coding of HTML and CSS, the website is a fictional webpage for Aperture Science, a satirical technology and research corporation from the video game series Portal made by Valve. The site contains a number of webpages including Home, About US, R&D Division, Gallery and Recruitment. The design is simple and sleek to imitate a professional tech company, and introduces an overview to what Aperture Science is and what it achieves.

The purpose of the website is to produce a mock-up webpage, as if Aperture Science was a real-world corporation for entertainment value. This is creative way to implement and show web development skills. The intended target audience is for those who are familiar with the portal series, sci-fi fans and to people who appreciate fictional immersive experiences.

Implementation

Throughout the development of the website, I frequently used W3Schools and MDN Web Docs, as learning resources for understanding and implementing HTML and CSS structuring, layout techniques and styling.[1][2]

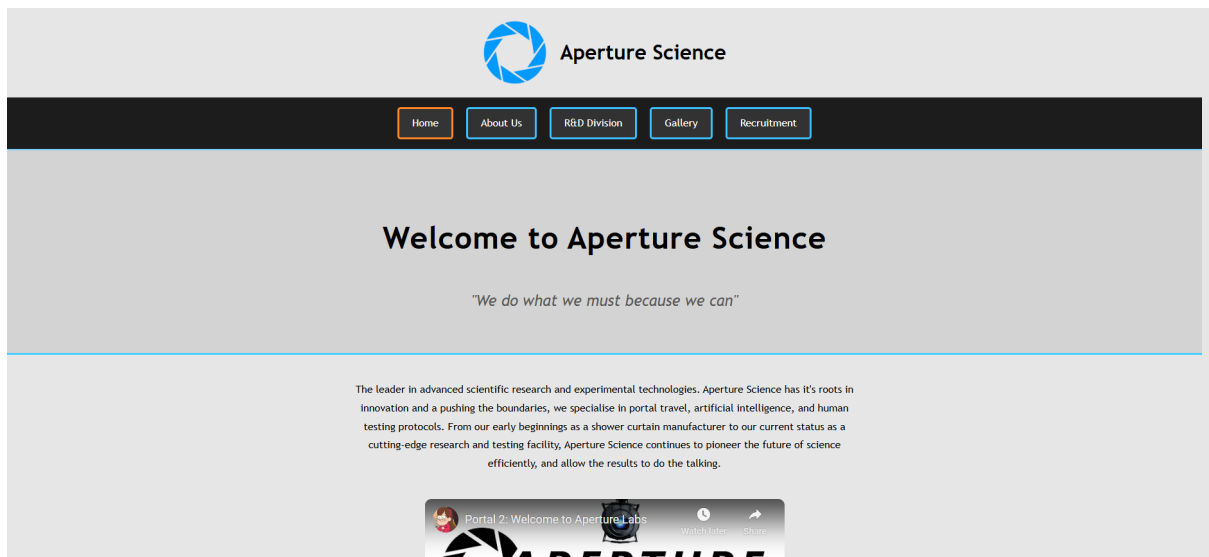


Fig.1, Screenshot of Home page from Aperture Science website

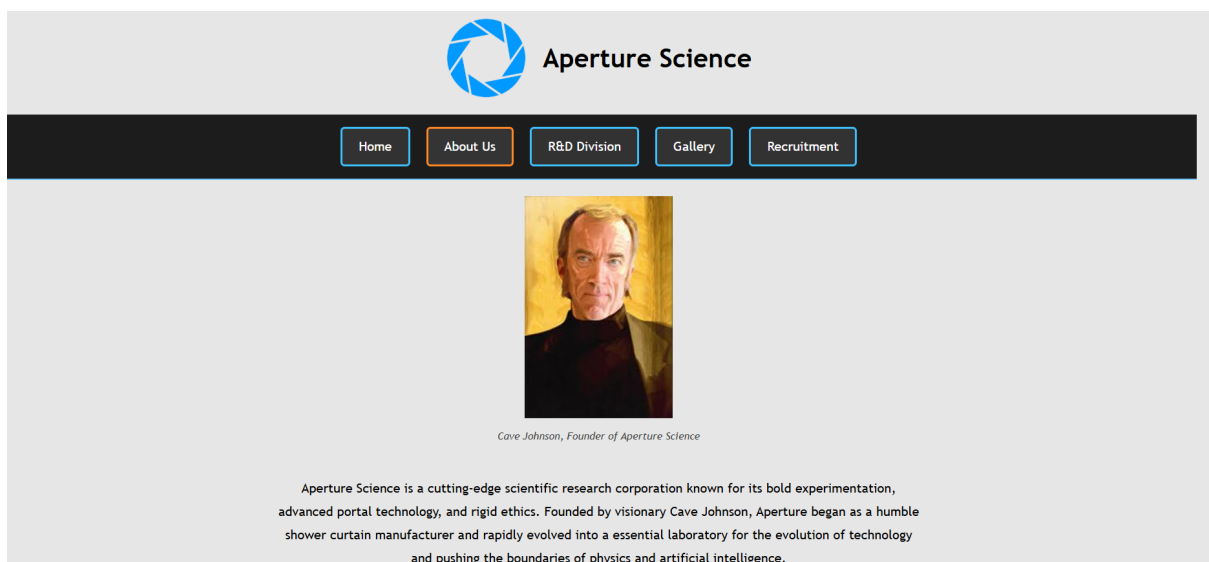


Fig.2, Screenshot of About Us page from Aperture Science website

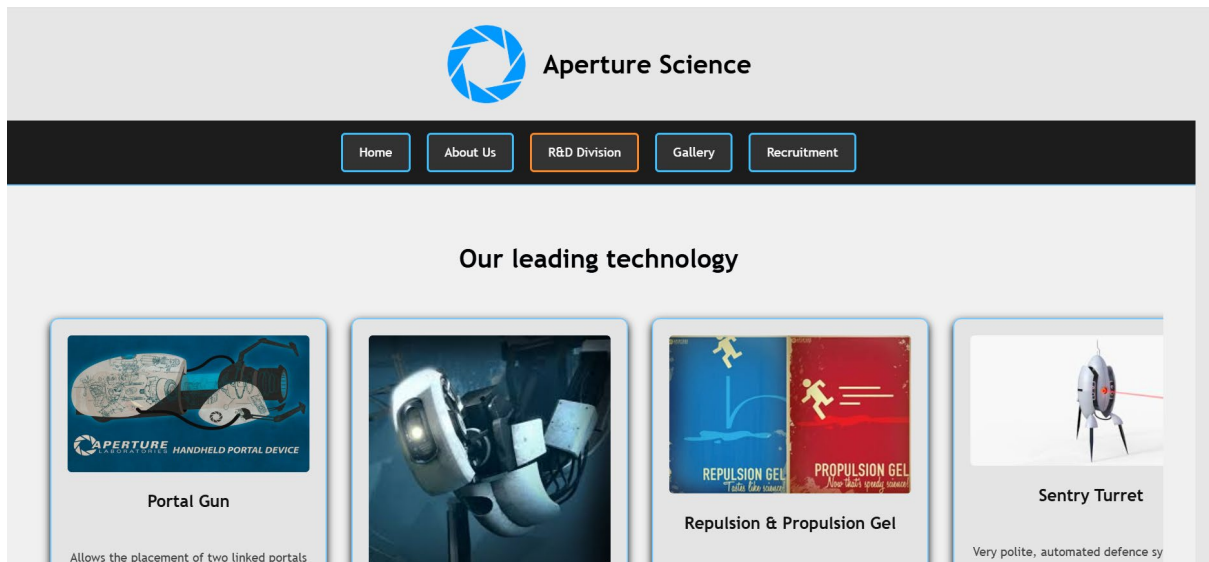


Fig. 3, Screenshot of R&D page from Aperture Science website

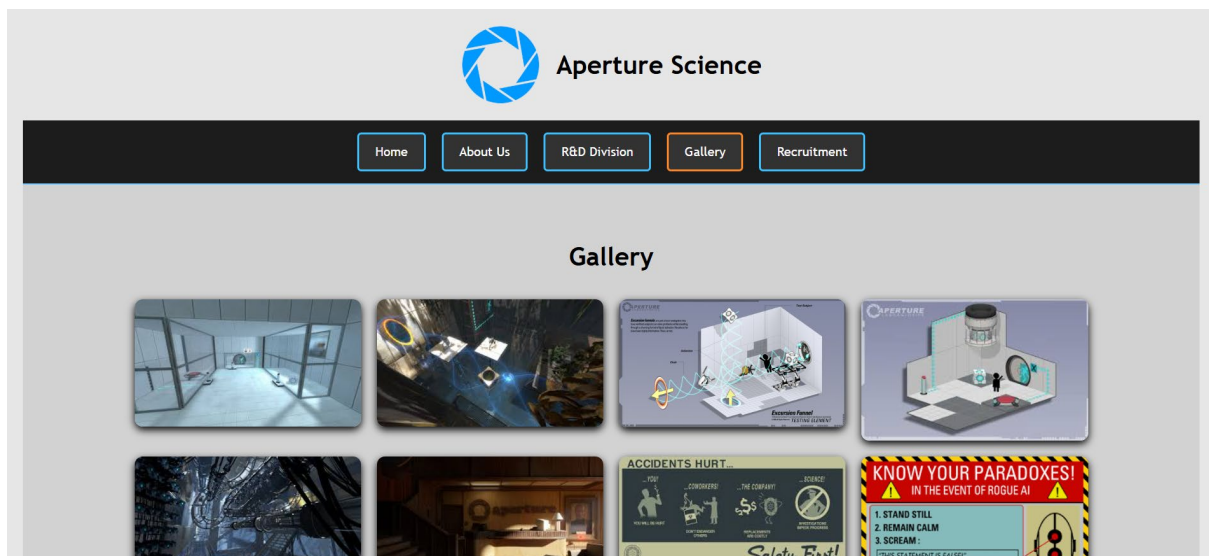


Fig. 4, Screenshot of Gallery page from Aperture Science website

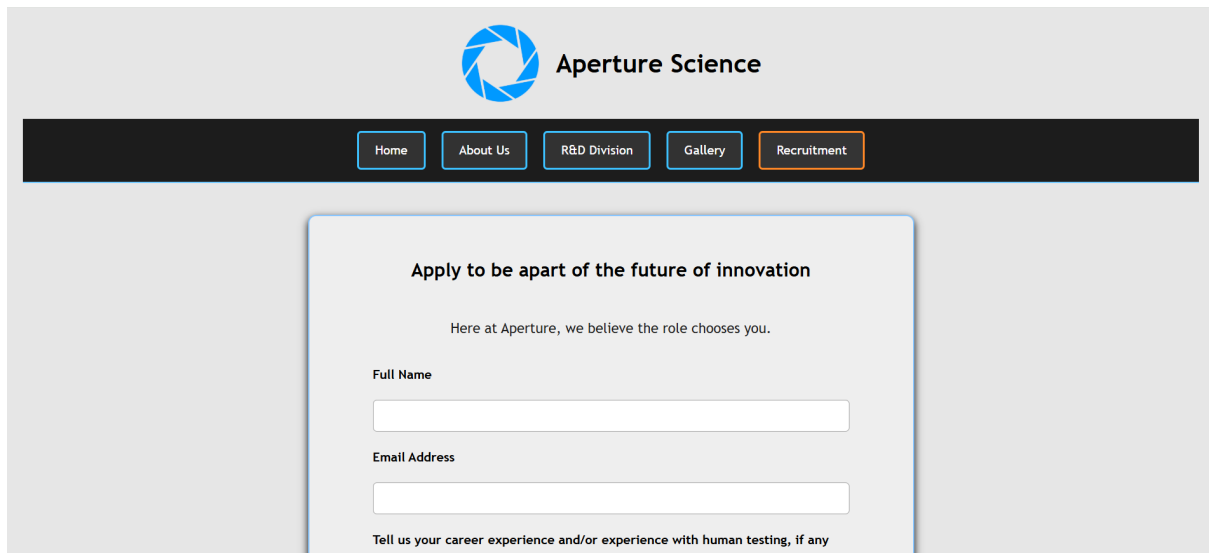


Fig. 5, Screenshot of Recruitment page from Aperture Science website

HTML Validation

To validate my HTML code, I used <http://validator.w3.org/>. I uploaded the HTML file of the home page, the result was:

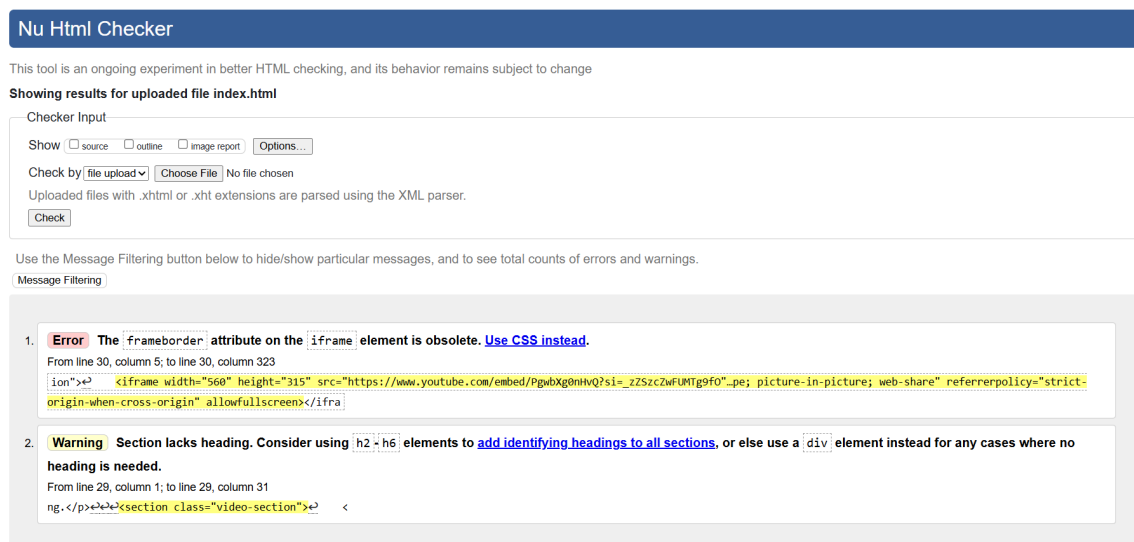


Fig. 6, Screenshot of Home page HTML validation results

Only one error was present about an obsolete element. To correct this, the “`frameborder = 0`” attribute was deleted within the `iframe` tag, that was copied from the embedded video. A warning was outlined due to my video section not having a heading. I decided to include a heading for improved context and HTML structure.

CSS Validation

To validate my CSS code, I used <http://jigsaw.w3.org/css-validator/>. The CSS file was uploaded, and the result was:

 The W3C CSS Validation Service
W3C CSS Validator results for style.css (CSS level 3 + SVG)

Jump to: Validated CSS

W3C CSS Validator results for style.css (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#) !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTML you could use to add this icon to your Web page:



```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>
```



```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>
```

Fig. 7, Screenshot of CSS file validation results

No errors or warnings were displayed in the CSS validation.

Evaluation (a)

Usability

Usability refers to how frictionless the experience of navigating a website, and how easy it is to understand it's purpose and reach a desired outcome. High usability starts with the structure of the webpages, clarity of the presented content and how direct the language used is. The time and energy a user spends pondering about the function or meaning of specific content needs to be minimised, and the effort that is required for a user to achieve their desired outcome needs to be minimised. [3]

Usability is important in the web development process because of the impact it has on the user experience. The layout and design of a website determine whether it is intuitive to navigate and easy to understand. When usability is prioritised, webpages are structured to be more self-explanatory, reducing user frustration and preventing confusion. This not only improves overall engagement but also helps retain users by allowing them to achieve the desired outcome with minimal effort. [3]

Website usability has a key role in web development due to the impact it has on user satisfaction. Belanche et al [4], conducted a study to identify the correlation between usability, user satisfaction and the intent to use a website. Their finding show that usability increases user satisfaction which in turn influences user intent to use the website. Additionally, the study shows that when personal sensitive data is involved, usability helps lower perceived risk and reinforce trust, highlighting its importance for engagement and retention. These findings show that usability is not just about readability, but also building user confidence and minimising friction.

Accessibility

Web accessibility umbrellas all disabilities and how they affect a user's ability to interact with the web or a website, such as, mental, physical, visual etc. Even though the key focus for accessibility are people with disabilities, a fully accessible website enables people of all abilities, regardless of disabilities, can digest and navigate with ease. Generally, the Web Content Accessibility Guidelines (WCAG) are followed during the development process to sufficiently cover all needs. [5]

Accessibility is vital in the web development process to ensure an inclusive digital environment for everyone. Implementing techniques such as semantic HTML, alt text, clear headings and keyboard navigation helps fulfil legal obligations but also overlaps with usability to benefit everyone. Applying accessibility can also have broader benefits such as interoperability, allowing a wider range of devices and browsers access, and also search engine optimisation (SEO) since some of the techniques align. [5]

A study from Schmutz et al.[6], included non-disabled users interacting with websites of different levels of accessibility that follow WCAG 2.0. The findings show that that websites with high accessibility improved task completion rate, perceived usability and trustworthiness when comparing to low accessibility websites. These findings support that accessibility is beneficial to usability for everyone.

Search Engine Optimisation (SEO)

Search engine optimisation, widely known as SEO, refers to refining a websites content and structure to be displayed higher on search engine results, therefore increasing its visibility. The purpose is to make the website easier to discover and improve organic unpaid traffic. [7]

On-page SEO plays an important role in the web development process by structuring a website's HTML to improve visibility in search engine results. High SEO makes sure that a website's content is easily discoverable and relevant. This includes techniques such as keyword optimisation, descriptive URL's, internal linking, and meta tags. On-page SEO also improves the user experience by ensuring content is clear, engaging, and supported by multimedia elements with appropriate alt text. Implementing SEO into web development, helps create websites that are user friendly, highly visible and have fast loading times.[7]

A study from International Burch University was conducted to see the impacts of implementing targeted SEO on business performance. On-page techniques such as optimised meta tags, structured headings, descriptive URL's, image alt attributes and sitemaps were used. These improved the website's search engine rankings, organic traffic and user engagement, resulting in a higher student enrolment. These findings support that optimising SEO improves website visibility, organic traffic and improves user experience. [8]

Evaluation (b)

Usefulness

The website achieves its goal to introduce users to the fictional universe of Portal, presenting satirical content alongside a range of images. The design includes a consistent navigation bar with clearly labelled internal links, allowing the user to easily navigate between pages. All pages follow a logical structure with clear headings and spaced content that increases readability. Visual transition effects have also been included to increase the user navigation.

The layout and colour scheme is simple and consistent making the readability intuitive and fit the theme of the webpage. In conjunction with spaced content, direct language and font sizing is purposeful, allowing the content to be easily digestible. Due to the nature of the website leaning more towards entertainment value, I included an embedded video, image gallery and a fake recruitment form to improve the engagement form.

For future improvement, I would include a mobile dropdown menu, so smaller screens have better usability within the website.

On-Page Search Engine Optimisation (SEO)

A variety of on-page SEO techniques were used throughout the webpage. Title tags were added in the head section to outline the content of the specific page, which help search engine indexing. Appropriate heading tags were applied on each page to structure the content and improve reading order, and additionally, the internal links were added to the navigation bar, so both users and the search engines may easily access different pages.

Meaningful alt attributes were applied to the included images to support image indexing and accessibility. Within the content, language relevant to the theme is used, e.g. “technology”, so the keywords can improve the search query ranking. Semantic HTML elements for sections were used to improve reading structure for accessibility and search engines. Lastly, a descriptive heading is included with the embedded video for added context.

Accessibility

To evaluate the accessibility of the website with respect to the four principles, the WCAG 2.1 guidelines will be referred to. [9].

Perceivable

This principle is to ensure that all content is perceivable to all types of users. To check the readability of my website, Contrast Checker [10] was used to evaluate the colour contrast of the text and background. The image below (Fig. 8), shows the outcome, resulting in passing the guideline. Alt text has also been implemented for all images, which will be used for screen readers. In future, more accessibility context could be added for the embedded video, as there is only a heading above it.

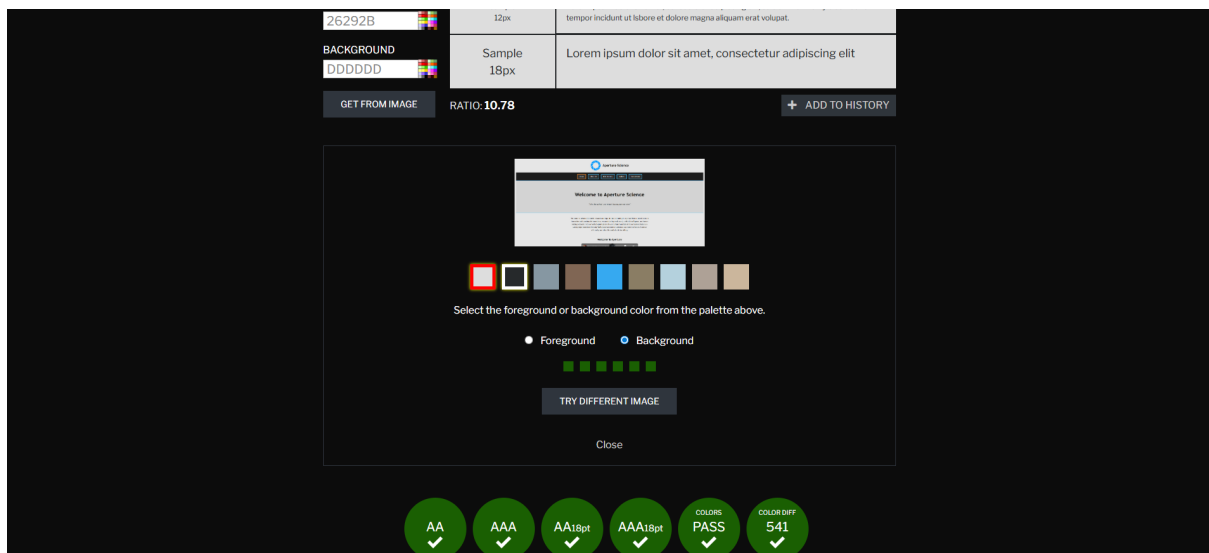


Fig. 8, Screenshot of colour contrast result

Operable

Operable is to ensure users are able to navigate the website without restriction from the method it was accessed. WAVE chrome browser extension resulted in no errors across all pages, indicating a functional navigation structure. Any alerts that were present, did not impact accessibility. Axe DevTools identified one issue, regarding to a scrollable region not having keyboard access. For future improvement, it would be essential for this issue to be amended to allow full keyboard functionality.

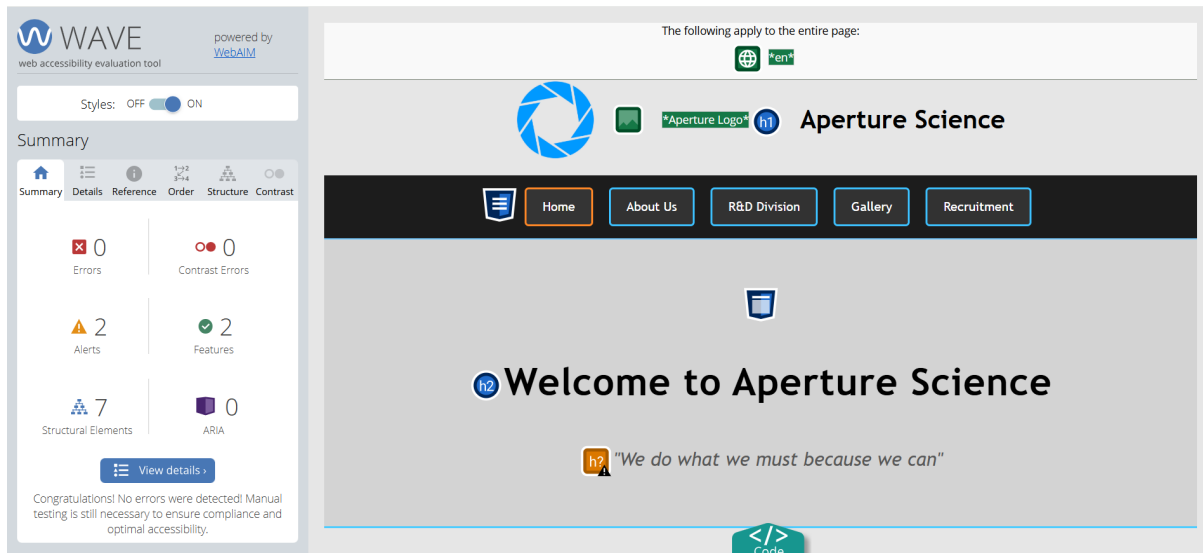


Fig. 9, Screenshot of WAVE tool used on Home page

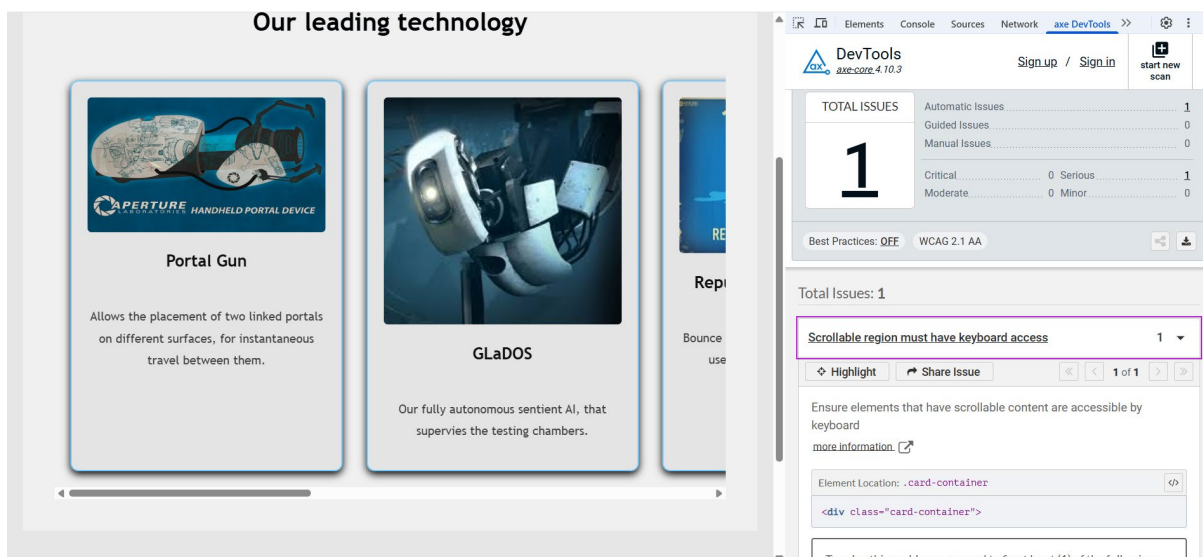


Fig. 10, Screenshot of aXe DevTools scan

Understandable

As this principle suggests, it refers to how effortless the content and the website's functionality is to understand. Foundationally, the website is simple, with consistent navigation and no layout issues. The language used is not complex and reasonably direct, allowing users to follow the information easily. Based on personal review and previously used tools, the website can confidently be judged as understandable to a wide range of people.

Robust

Robust is to make sure the content structure is robust enough to handle various user agents. From previously using the validators and correcting, it confirms my website follows web standards. No major issues were outlined from accessibility testing tools, confirming the website is robust enough with no foundational issues.

References

- [1] "HTML Tutorial." W3Schools, <https://www.w3schools.com/html/default.asp>. Accessed July 23, 2025.
- [2] "CSS Tutorial." MDN Web Docs, <https://developer.mozilla.org/en-US/docs/Web/CSS>. Accessed July 23, 2025.
- [3] S. Krug, *Don't Make Me Think: A Common Sense Approach to Web Usability*, 3rd ed. Berkeley, CA: New Riders, 2013
- [4] D. Belanche, L. V. Casaló, and M. Guinalíu, "Website usability, consumer satisfaction and the intention to use a website: The moderating effect of perceived risk," *Journal of Retailing and Consumer Services*, vol. 19, no. 1, pp. 124–132, 2012, doi: 10.1016/j.jretconser.2011.11.001.
- [5] J. Thatcher et al., *Web Accessibility: Web Standards and Regulatory Compliance*, 1st ed. Berkeley, CA: FriendsofED, 2006. Online. Available: <https://doi.org/10.1007/978-1-4302-0188-5>
- [6] S. Schmutz, A. Sonderegger, and J. Sauer, "Implementing recommendations from web accessibility guidelines: Would they also provide benefits to nondisabled users," *Human Factors*, vol. 58, no. 4, pp. 611–629, 2016, doi: 10.1177/0018720816640962.
- [7] C. Mmeje, "What is SEO?", Moz, Apr. 14, 2025. Online. Available: <https://moz.com/learn/seo/what-is-seo>
- [8] M. Poturak, D. Keco, and E. Tutnic, "Influence of search engine optimization (SEO) on business performance: Case study of private university in Sarajevo," *International Journal of Research in Business and Social Science*, vol. 11, no. 4, pp. 59–68, 2022.
- [9] "Web Content Accessibility Guidelines (WCAG) 2.1," W3C, <https://www.w3.org/TR/WCAG21/>. Accessed July 23, 2025.
- [10] "Contrast Checker." ContrastChecker.com. <https://contrastchecker.com/>. Accessed July 23, 2025.

Appendicies

Home

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Aperture Science - Home</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<div class="header-container">

    <h1>Aperture Science</h1>

</div>

<nav>

<a href="index.html" class="active">Home</a>

<a href="about.html">About Us</a>

<a href="research.html">R&D Division</a>

<a href="gallery.html">Gallery</a>

<a href="recruitment">Recruitment</a>

</nav>

<header class="homepage-header">

    <h2>Welcome to Aperture Science</h2>

    <p>"We do what we must because we can"</p>

</header>

<p>The leader in advanced scientific research and experimental technologies. Aperture Science has it's roots in innovation and a pushing the boundaries, we specialise in portal travel, artificial intelligence, and human testing protocols. From our early beginnings as a shower curtain manufacturer to our current status as a cutting-edge research and testing facility,
```

Aperture Science continues to pioneer the future of science efficiently, and allow the results to do the talking.</p>

<section class="video-section">

<h2>Welcome To Aperture</h2>

<iframe width="560" height="315"
src="https://www.youtube.com/embed/PgwbXg0nHvQ?si=_zZSzcZwFUMTg9fO" title="YouTube
video player" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope;
picture-in-picture; web-share" referrerpolicy="strict-origin-when-cross-origin"
allowfullscreen></iframe>

</section>

<footer>

<p>© 2025 Aperture Science</p>

<p>Pushing science, one experiment at a time.</p>

</footer>

</body>

</html>

About Us

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Aperture Science - About</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<div class="header-container">

<h1>Aperture Science</h1>

</div>

<nav>

Home

About Us

R&D Division

Gallery

Recruitment

</nav>

<figure>

<figcaption>Cave Johnson, Founder of Aperture Science</figcaption>

</figure>

<p>Aperture Science is a cutting-edge scientific research corporation known for its bold experimentation, advanced portal technology, and rigid ethics. Founded by visionary Cave Johnson, Aperture began as a humble shower curtain manufacturer and rapidly evolved into a essential laboratory for the evolution of technology and pushing the boundaries of physics and artificial intelligence.

From creating the iconic Handheld Portal Device to developing the advanced AI GLaDOS, our mission is simple, to innovate with relentless testing. Whether you're here to change your future with career opportunity or just learn more about our groundbreaking work, welcome to science done right, the Aperture way.</p>

<footer>

<p>© 2025 Aperture Science</p>

<p>Pushing science, one experiment at a time.</p>

</footer>

</body>

</html>

R&D Division

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Aperture Science - Research</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<div class="header-container">

  <h1>Aperture Science</h1>

</div>


<nav>

<a href="index.html">Home</a>

<a href="about.html">About Us</a>

<a href="research.html" class="active">R&D Division</a>

<a href="gallery.html">Gallery</a>

<a href="recruitment.html">Recruitment</a>

</nav>

<section class="tech-section">

  <h2>Our leading technology</h2>

  <div class="card-container">

    <div class="card">

      <h3>Portal Gun</h3>

      <p>Allows the placement of two linked portals on different surfaces, for instantaneous travel between them. </p>

    </div>
```

```
<div class="card">

  <h3>GLaDOS</h3>

  <p>Our fully autonomous sentient AI, that supervises the testing chambers. </p>

</div>
```

```
<div class="card">

  <h3>Repulsion & Propulsion Gel</h3>

  <p>Bounce and speed enhancement gels to be used to in certain test chambers. </p>

</div>
```

```
<div class="card">

  <h3>Sentry Turret</h3>

  <p>Very polite, automated defence system, to be used as an obstacle within certain test chambers. </p>

</div>
```

```
<div class="card">

  <h3>Aerial Faith Plate</h3>
```

```
<p>Safely launches test subjects to greater heights. </p>
</div>
```

```
<div class="card">
  
  <h3>Companion Cube</h3>
  <p>Inanimate object that can potentially provide emotional support to test subjects. </p>
</div>
```

```
</div>
```

```
</section>
```

```
<footer>
```

```
<p>&copy; 2025 Aperture Science</p>
```

```
<p>Pushing science, one experiment at a time.</p>
```

```
</footer>
```

```
</body>
```

```
</html>
```

Gallery

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<title>Aperture Science - Gallery</title>
```

```
<link rel="stylesheet" href="style.css">
```

```
</head>
```

```
<body>
```

```
<div class="header-container">
```

```


<h1>Aperture Science</h1>

</div>


<nav>

<a href="index.html">Home</a>

<a href="about.html">About Us</a>

<a href="research.html">R&D Division</a>

<a href="gallery.html" class="active">Gallery</a>

<a href="recruitment.html">Recruitment</a>

</nav>

<section class="gallery-section">

  <h2>Gallery</h2>

  <div class="gallery-grid">

  </div>

</section>

<footer>

  <p>&copy; 2025 Aperture Science</p>

  <p>Pushing science, one experiment at a time.</p>

</footer>

</body>

</html>
```

Recruitment

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Aperture Science - Recruitment</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<div class="header-container">

  <h1>Aperture Science</h1>

</div>


<nav>

<a href="index.html">Home</a>

<a href="about.html">About Us</a>

<a href="research.html">R&D Division</a>

<a href="gallery.html">Gallery</a>

<a href="recruitment.html" class="active">Recruitment</a>

</nav>

<section class="recruitment-section">

  <h1>Apply to be apart of the future of innovation</h1>

  <p>Here at Aperture, we believe the role chooses you.</p>

  <form class="recruitment-form">

    <label for="fullname">Full Name</label>

    <input type="text" id="fullname" name="fullname" required>
```

<label for="email">Email Address</label>

<input type="email" id="email" name="email" required>

<label for="experience">Tell us your career experience and/or experience with human testing, if any</label>

<textarea id="experience" name="experience" rows="5"></textarea>

<label for="department">Preferred Department (Optional)</label>

<select id="department" name="department">

<option value="">None (Default)</option>

<option value="testing">Test Subject</option>

<option value="r&d">Research & Development</option>

<option value="maintenance">General Maintenance</option>

<option value="security">Security</option>

</select>

<button type="submit">Submit Application</button>

</form>

</section>

<footer>

<p>© 2025 Aperture Science</p>

<p>Pushing science, one experiment at a time.</p>

</footer>

</body>

</html>

Style CSS

```
h1,h2,h3 {  
    text-align: center;  
    font-weight: 700;  
    color: rgb(0, 0, 0);  
}
```

```
body {  
    background-color: #e6e6e6;  
    font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans', Arial, sans-serif;  
    margin: 0;  
    padding: 20px;  
    line-height: 1.5;  
  
}
```

```
.homepage-header {  
    background-color: lightgray;  
    padding: 60px 20px;  
    text-align: center;  
    border-bottom: 3px solid rgb(75, 204, 255);  
  
}
```

```
.homepage-header h2 {  
    font-size: 3rem;  
    color: black;  
    margin-bottom: 10px;
```

```
letter-spacing: 1px;

}

.homepage-header p {
  font-size: 1.5rem;
  color: rgb(88, 88, 88);
  font-style: italic;
}
```

```
p {
  color: rgb(0, 0, 0);
  text-align: center;
  line-height: 1.8;
  max-width: 800px;
  margin: auto;
  margin-top: 40px;
}
```

```
figure {
  text-align: center;
  margin: 20px 0;
}
```

```
figcaption {
  font-style: italic;
  font-size: 0.8rem;
  color: rgb(68, 68, 68);
  margin-top: 6px;
}
```

```
.video-section {  
  text-align: center;  
  padding: 40px 0;  
  
}
```

```
.video-section iframe {  
  max-width: 100%;  
  border-radius: 10px;  
}
```

```
footer {  
  background-color: rgb(35, 35, 35);  
  
  text-align: center;  
  padding: 15px 20px;  
  font-size: 0.9rem;  
  border-top: 2px solid rgb(62, 167, 224);  
  margin-top: 60px;  
}
```

```
footer p {  
  color: rgb(71, 149, 218);  
}
```

```
nav {  
  background-color: #1c1c1c;  
  padding: 15px;  
  display: flex;
```

```
justify-content: center;

margin-top: 20px;

border-bottom: 2px solid #75caff;


}
```

```
nav a {

  color: white;

  background-color: rgb(50, 50, 50);

  margin: 0 10px;

  padding: 10px 20px;

  text-decoration: none;

  border-radius: 5px;

  transition: 0.3s;

  border: 3px solid rgb(61, 193, 255);


}
```

```
nav a:hover {

  background-color: rgb(255, 255, 255);

  color: #000;


}
```

```
nav a.active {

  background-color: rgb(52, 52, 52);

  border-color: rgb(255, 136, 39);

}
```

```
}
```

```
.header-container {  
  display: flex;  
  align-items: center;  
  justify-content: center;  
}
```

```
.header-container img {  
  width: 100px;  
  height: auto;  
  margin-right: 20px;  
}
```

```
.center-image {  
  display: block;  
  margin-left: auto;  
  margin-right: auto;  
  max-width: 100%;  
  height: auto;  
}
```

```
.tech-section {  
  padding: 40px;  
  text-align: center;  
  background-color: #f0f0f0;  
}
```

```
.tech-section h2 {  
  font-size: 2rem;
```

```
margin-bottom: 30px;
color: rgb(0, 2, 4);
}
```

```
.card-container {
  display: flex;
  flex-wrap: nowrap;
  overflow-x: auto;
  justify-content: flex-start;
  gap: 30px;
  padding: 20px;
}
```

```
.card {
  flex: 0 0 auto;
  background-color: rgb(228, 228, 228);
  border: 2px solid #75c9ff;
  border-radius: 10px;
  width: 300px;
  padding: 20px;
  box-shadow: 0 4px 10px rgba(0,0,0,1);
  transition: 0.3s;
}
```

```
.card img {
  width: 100%;
  height: auto;
  border-radius: 5px;
}
```

```
.card:hover {  
  transform: scale(1.05);  
  box-shadow: 0 6px 20px rgba(0,0,0,0.2);  
  border: 2px solid rgb(246, 175, 43);  
}
```

```
.card h3 {  
  margin-top: 15px;  
  font-size: 1.3rem;  
  color: #111;  
}
```

```
.card p {  
  font-size: 0.95rem;  
  color: #444;  
}
```

```
.recruitment-section {  
  max-width: 700px;  
  margin: 40px auto;  
  padding: 30px;  
  background-color: rgb(238, 238, 238);  
  border: 2px solid rgb(135, 197, 255);  
  border-radius: 10px;  
  box-shadow: 0 4px 10px black;  
  text-align: left;  
}
```

```
.recruitment-section h1 {  
  text-align: center;
```

```
    color: black;
}
```

```
.recruitment-section p {
    font-size: 1.1rem;
    margin-bottom: 30px;
    color: rgb(30, 30, 30);
}
```

```
.recruitment-form {
    max-width: 600px;
    margin: 0 auto;
    display: flex;
    flex-direction: column;
    gap: 20px;
}
```

```
.recruitment-form label {
    font-weight: bold;
    text-align: left;
    color: black;
}
```

```
.recruitment-form input,
.recruitment-form textarea,
.recruitment-form select {
    padding: 10px;
    font-size: 1rem;
    border: 1px solid rgb(166, 166, 166);
    border-radius: 5px;
}
```

```
.recruitment-form button {  
    background-color: rgb(204, 204, 204);  
    color: rgb(0, 0, 0);  
    padding: 10px;  
    font-size: 1rem;  
    border: none;  
    border-radius: 5px;  
    cursor: pointer;  
}
```

```
.recruitment-form button:hover {  
    background-color: rgb(37, 151, 211);  
}
```

```
.gallery-section {  
    padding: 40px;  
    background-color: #d2d2d2;  
    text-align: center;  
}
```

```
.gallery-section h2 {  
    font-size: 2rem;  
    margin-bottom: 30px;  
    color: black;  
}
```

```
.gallery-grid {  
    display: grid;  
    grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));  
    gap: 20px;
```

```
max-width: 1200px;
margin: 0 auto;

}

.gallery-grid img {
width: 100%;
height: auto;
border-radius: 10px;
box-shadow: 0 4px 10px black;
transition: ease 0.3s;
}

.gallery-grid img:hover {
transform: scale(1.5);
}
```