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Front End Web Design

Assignment 3

Accessibility Audit

U3141006

This accessibility audit will outline the importance of web accessibility and test the accessibility of my website on the Tocumwal Archive.

Web accessibility is incredibly important as more than 86% of Australians have access to the internet in a growing digital world. The internet has the ability to connect, inform and engage audiences across the globe. However, it is important to remember that not everyone accessing the web have the same ability to do so. It is a vital tool to ensure all levels of ability can get the optimum level of experience.

Accessibility is the idea that a website can be accessed by everyone regardless of disability. There are different groups of people or restrictions that can have an impact on the way they access a site. According to the Guzman y Gomez accessibility executive summary, these groups include:

* A slow or limited internet (especially on mobile sites where users will most likely be using capped mobile data)
* Older or slower devices (especially those who can’t afford to keep up with technology
* Mobile devices (smaller screen means less room for content – size of content is also something to look for)
* Limited time (they have better things to do than aimlessly wonder around your beautiful website)
* A language barrier (allowing your website to be either easily translated or have proper translated versions of your website)
* People with disabilities including; blindness, deafness, physical disabilities, dyslexia, epileptic fits, autism etc.

To ensure my website meets the criteria and aid the process of accessibility I used the following websites and tools:

* WebAIM’s Wave tool – A general accessibility checker for automatically finding many WCAG failures   
  <https://wave.webaim.org/>
* Hemingway App – Helps to figure out whether the text/copy of the site is grammatically well structured, making it as comprehensible  
  <http://www.hemingwayapp.com/>
* NoCoffee – A chrome extension that allows you to simulate various visual impairments. Handy for seeing whether the site’s small/fine details display well enough for users with these issues.

I found the NoCoffee tool to be of interest to me as I have a vision impairment. I did the colourblind test for all types of colour deficiency and strongly believe this site is accessible for these people. The images changed slightly, but the blue back ground with black font remained the same throughout the testing process.

**WCAG Accessibility test and results**

[1.1.1 (Links to an external site.)Links to an external site.](https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#non-text-content) – Non-text Content - Provide text alternatives for non-text content  
  
RESULT: PASS

WCAG description: All non-text content that is presented to the user has a text alternative that serves the equivalent purpose.

Images and non-text content on this website provided a text content description if the image does not work properly. The text alternative provides a description of the non-text element. Non-text elements of a website are used to create a sensory experience, if this does not work the text element as least provides a descriptive identification of the missing non-text content.   
  
[1.3.1 (Links to an external site.)Links to an external site.](https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#info-and-relationships) – Info and Relationships - Logical structure

RESULT: PASS

WCAG description: Information, structure, and relationships conveyed through presentation can be programmatically determined or are available in text.

The information, structure and relationships conveyed on this website is done so through the use of separate pages for each section for example:

Page 1: Home page

Page 2: Tocumwal Background

Page 3: Heritage Listing

Page 4: Origins

Page 5: From Tocumwal to Canberra

Page 6: Early Years

Page 7: Parties and Pastimes

Within these pages, the information is laid out and determined through the use of headings and sub headings and broken up using images. Within the <p> tags, there are no lists displayed in order to use correct layout and markup.

[1.3.2 (Links to an external site.)Links to an external site.](https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#meaningful-sequence) – Meaningful Sequence - Present content in a meaningful order

RESULT: PASS

WCAG description: When the sequence in white content is presented affects its meaning, a correct reading sequence can be programmatically determined.

The website does produce meaningful sequence as the navigation bar is in the top left hand corner of the page which promotes left to right, top to bottom reading for users.

[1.4.1 (Links to an external site.)Links to an external site.](https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#use-of-color) – Use of Colour - Don’t use presentation that relies solely on colour

RESULT: PASS

WCAG description: Colour is not used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.

This website does not use colour as the only visual means. The website hosts many images to aid with the visual experience while on the website. The navigation buttons do not change colour as a visual means but instead take you to another page which is displayed using headings as a visual means. Colour is used for the background of this website due to it being the best option for visually impaired users, however this does not play the role as the only visual means.

[1.4.2 (Links to an external site.)Links to an external site.](https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#audio-control) – Audio Control - Don’t play audio automatically

RESULT: N/A not present PASS

WCAG description: If any audio on a Web page plays automatically for more than three seconds, either a mechanism is available to pause or stop the audio, or a mechanism is available to control audio volume level.

This website does not contain any audio component therefore this accessibility test is not applicable.

[2.1.1 (Links to an external site.)Links to an external site.](https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#keyboard) – Keyboard - Accessible by keyboard only

RESULT: PASS

WCAG description: All functionality of the content is operable through a keyboard interface without requiring specific timings for individual keystrokes, except where the underlying function requires input that depend on the path pf the user’s movement and not just the endpoints.

This website passes this accessibility test as the whole website can be accessed and used using the keyboard function only. This can be seen when using the “tab” and “enter” buttons on a keyboard. Navigation on this website is easy with a keyboard and all options on the website are accessible by using only the keyboard.

[2.1.2 (Links to an external site.)Links to an external site.](https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#no-keyboard-trap) – No Keyboard Trap - Don’t trap keyboard users

RESULT: PASS   
  
WCAG description: If keyboard focus can be moved to a component of the page using a keyboard interface, then focus can be moved away from that component using only a keyboard interface, and, if it requires more than unmodified arrow or tab keys or other standard exit methods, the user is advised of the method for moving focus away.

Navigation on this website is user friendly for those with a keyboard. You cannot get stuck inside elements without the ability to go back. It is easy to enter and exit sections of the page, return to the top of the page, and return to the home page.

[2.3.1 (Links to an external site.)Links to an external site.](https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#three-flashes-or-below-threshold) – Three Flashes or Below - No content flashes more than three times per second

RESULT: N/A not present PASS

WCAG description: Web pages do not contain anything that flashes more than three times in any one second period, or the flash is below the general flash and red plash thresholds.

This website does not contain flashes.

[2.4.2 (Links to an external site.)Links to an external site.](https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#page-titled) – Page Titled - Use helpful and clear page titles

RESULTS: PASS

WCAG description: Web pages have titles that describe topic or purpose.

All pages on this website are appropriately and descriptively titled.

[2.4.3 (Links to an external site.)Links to an external site.](https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#focus-order) – Focus Order - Logical order

RESULT: PASS  
  
WCAG description: If a Web page can be navigated sequentially and the navigation sequences affect meaning or operation, focusable components receive focus in an order that preserves meaning and operability.

This website maintains meaning throughout when elements are focused. The website layout also contributes to preserving this meaning.

[2.4.4 (Links to an external site.)Links to an external site.](https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#link-purpose-in-context) – Link Purpose (In Context) - Every link’s purpose is clear from its context

RESULT: PASS

WCAG description: The purpose of each link can be determined from the link text alone or from the link text together with its programmatically determined link context, except where the purpose of the link would be ambiguous to users in general.

The links on this website determine their purpose clearly.   
[3.1.1 (Links to an external site.)Links to an external site.](https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#language-of-page) – Language of Page - Page has a language assigned

RESULT: PASS

WCAG description: The default human language of each Web page can be programmatically determined.

The English language of this Web page is defined within the html code   
<html lang=”en”>

[4.1.1 (Links to an external site.)Links to an external site.](https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#parsing) – Parsing - No major code errors

RESULT: PASS

WCAG description: In content implemented using markup languages, elements have complete start and end tags, elements are nested according to their specifications, elements do not contain duplicate attributes, and any IDs are unique, except where the specifications allow these features.

When using the W3C Markup Validation Service, this website does not display any errors in the code.

**References:**

<https://www.w3.org/WAI/WCAG21/quickref/?versions=2.0#non-text-content>

Provided on Canvas:  
Example of an Accessibility Audit (1)

Example of an Accessibility Audit (2)