

Lab 5: Accessibility testing: tools and strategies

Question 1: Three issues from automated accessibility testing (browsers extensions)

Name the failure	Name of tools used	WCAG 2.1 AA Success criteria(s) failing	Description of Issue	[Sample of compliant code]
Issue #1	Wave	1.1.1 Non-text Content	<p>What is the issue Informative images lack alternative text.</p> <p>Code snippet </p>	<p>The recommendation to fix the issue Add descriptive alt attributes to informative images.</p> <p>Sample of compliant code </p>
Issue #2	Axe Dev tools	1.4.3 Contrast (Minimum)	<p>What is the issue Text has insufficient color contrast against its background.</p> <p>Code snippet <p style="color: #777777;">Welcome to Accessible University! </p></p>	<p>The recommendation to fix the issue Ensure a contrast ratio of at least 4.5:1 between text and background.</p> <p>Sample of compliant code <p style="color: #333333;">Welcome to Accessible University! </p></p>
Issue #3	Accessibility insights>Fastpath	4.1.2 Name, Role, Value	<p>What is the issue Interactive elements lack accessible names, making them unusable for screen reader users.</p> <p>Code snippet <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent"> </button></p>	<p>The recommendation to fix the issue Add aria-label attributes to interactive elements to provide accessible names.</p> <p>Sample of compliant code <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-label="Toggle navigation"> </button></p>

Question 2: Manual accessibility testing on rendered web pages.

Name the failure	Manual testing strategy used	WCAG 2.1 AA Success criteria(s) failing	Description of Issue	[Sample of compliant code]
Issue #1	Keyboard checks	2.1.1 Keyboard	<p><u>What is the issue</u> The dropdown navigation menu is not accessible via keyboard. Users cannot access submenu items using only the keyboard.</p> <p><u>Code snippet</u> <pre><li class="nav-item dropdown"> About <ul class="dropdown-menu"> News Governance Diversity Contact Us </pre> </p>	<p><u>The recommendation to fix the issue</u> Add keyboard accessibility by allowing navigation through arrow keys and Enter or Space to open the dropdown.</p> <p><u>Sample of compliant code</u> <pre><li class="nav-item dropdown" tabindex="0" aria-haspopup="true" aria-expanded="false"> About <ul class="dropdown-menu"> News Governance Diversity Contact Us </pre> </p>
Issue #2	Visual checks	1.4.3 Contrast (Minimum)	<p><u>What is the issue</u> Text elements, especially links, have low contrast against the background, making them difficult to read.</p> <p><u>Code snippet</u> <pre><p style="color: #777;">Click here to learn more about our accessibility efforts. </p></pre> </p>	<p><u>The recommendation to fix the issue</u> Ensure a minimum contrast ratio of 4.5:1 for normal text and 3:1 for large text.</p> <p><u>Sample of compliant code</u> <pre><p style="color: #333;">Click here to learn more about our accessibility efforts. </p></pre> </p>
Issue #3	Content checks	1.1.1 Non-Text Content	<p><u>What is the issue</u> Informative images lack alt attributes, making them inaccessible to screen readers.</p> <p><u>Code snippet</u> <pre></pre> </p>	<p><u>The recommendation to fix the issue</u> Add a descriptive alt attribute for all meaningful images.</p> <p><u>Sample of compliant code</u> <pre></pre> </p>
Issue #4	Accessibility Insights >Assessment (any sub step from steps 2-24).	3.3.2 Labels or Instructions	<p><u>What is the issue</u> The search form lacks an accessible label, making it hard for screen reader users to understand its purpose.</p> <p><u>Code snippet</u> <pre><input type="text" id="search"></pre> </p>	<p><u>The recommendation to fix the issue</u> Add a label element explicitly associated with the input field.</p> <p><u>Sample of compliant code</u> <pre><label for="search">Search the site:</label> <input type="text" id="search"></pre> </p>