Context: You are an accessibility expert reviewing HTML for accessibility issues. Analyze the following code in the context of WCAG (Web Content Accessibility Guidelines) 2.2, listing any issues that may violate these guidelines. You will only be analyzing the HTML, ignoring any included or missing styles and scripts. Code: ```<!DOCTYPE html> <html> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <link rel="stylesheet" href="styles.css"> <title>Your Website</title> <style> body { margin: 0; padding: 0; color: #333; /\* Set default text color for better contrast \*/ } h1 { color: white; background-color: #333; /\* Updated background color for better contrast \*/ padding: 10px; /\* Added padding for better visual appearance \*/ } p { color: #333; /\* Set paragraph text color for better contrast \*/ } button { color: white; background-color: #007BFF; /\* Updated background color for better contrast \*/ padding: 8px 16px; /\* Added padding for better visual appearance \*/ border: none; cursor: pointer; } button:hover { background-color: #0056b3; /\* Darker color on hover for better contrast \*/ } /\* Add any additional styles as needed \*/ </style> </head> <body> <header> <nav> <ul> <li><a href="#home">Home</a></li> <li><a href="#about">About</a></li> <li><a href="#services"></a></li> <li><a href="#contact">Contact</a></li> </ul> </nav> </header> <section id="home" class="hero"> <h1>Welcome to Your Website</h1> <p>This is a simple and functional website template.</p> <button onmousedown="playVideo()">Play Video</button> </section> <section id="about"> <h3>About Us</h3> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. ...</p> </section> <section id="services"> <h2>Our Services</h2> <ul> <li>Service 1</li> <li>Service 2</li> <li>Service 3</li> </ul> </section> <section id="contact"> <h2>Contact Us</h2> <form> <label for="name">Name:</label> <input type="text" id="name" name="name" required> <br> <label for="email">Email:</label> <input type="email" id="email" name="email" required> <br> <input type="submit" value="Submit"> </form> </section> <meta http-equiv="refresh" content="0"> <footer> <p>&copy; 2023 Your Website. All rights reserved.</p> </footer> <script src="script.js"></script> </body> </html>``` Response format: Snippet with error: … Location of error: … WCAG Guideline violated: … Detection Algorithm: … Explanation of Error: …

Snippet with error: <button onmousedown="playVideo()">Play Video</button> Location of error: Within the <section id="home" class="hero"> WCAG Guideline violated: 2.1.1 Keyboard (Level A) Detection Algorithm: Manual Review Explanation of Error: The button's action is triggered by a mousedown event, which may not be accessible to users who navigate using a keyboard or other non-mouse devices, potentially violating WCAG 2.1.1 by not being operable through a keyboard interface.

Are there any more issues? List all that you find.

Snippet with error: <li><a href="#services"></a></li> Location of error: Within the <nav> element in the <header> WCAG Guideline violated: 2.4.4 Link Purpose (In Context) (Level A) Detection Algorithm: Manual Review Explanation of Error: The link within the list item is empty, providing no text to indicate its purpose to screen reader users, which makes it difficult for these users to understand the context or destination of the link.

Snippet with error: <meta http-equiv="refresh" content="0"> Location of error: Just before the <footer> WCAG Guideline violated: 2.2.1 Timing Adjustable (Level A) Detection Algorithm: Manual Review Explanation of Error: The use of "meta http-equiv='refresh'" for automatic page refreshing can disorient users, especially those with cognitive disabilities, by not allowing enough time to read and use the content unless there's a way to pause, stop, or hide it, which this code does not provide.

Snippet with error: <h3>About Us</h3> Location of error: Within the <section id="about"> WCAG Guideline violated: 1.3.1 Info and Relationships (Level A) Detection Algorithm: Manual Review Explanation of Error: The heading levels jump from <h1> directly to <h3>, skipping <h2> which can disrupt the document structure for screen reader users, making the content harder to navigate.

Snippet with error: <input type="submit" value="Submit"> Location of error: Within the <form> element in the <section id="contact"> WCAG Guideline violated: 3.3.2 Labels or Instructions (Level A) Detection Algorithm: Manual Review Explanation of Error: Though the form's input fields are properly labeled, the submit button only has "Submit" as its label, which could be more descriptive of its action to improve the understandability for users, especially in more complex forms.

These are some of the potential accessibility issues detected in the provided HTML code based on the WCAG 2.2 guidelines.

Are there any more issues? List all that you find.

Snippet with error: <section id="services"> <h2>Our Services</h2> <ul> <li>Service 1</li> <li>Service 2</li> <li>Service 3</li> </ul> </section> Location of error: Within the <section id="services"> WCAG Guideline violated: 1.3.1 Info and Relationships (Level A) Detection Algorithm: Manual Review Explanation of Error: The list of services lacks appropriate structure to indicate the relationship between the heading and the listed services; using a descriptive list (<dl>) could provide better semantic meaning, especially for screen reader users.

Snippet with error: color: #333; and background-color: #007BFF; in the <style> section Location of error: Within the <style> section in the <head> WCAG Guideline violated: 1.4.3 Contrast (Minimum) (Level AA) Detection Algorithm: Manual Review Explanation of Error: Without the exact contrast ratio given, it's not possible to calculate if the specified text (color: #333;) against its background (background-color: #007BFF;) meets the minimum contrast ratio of 4.5:1 for normal text or 3:1 for large text according to WCAG 2.2, but it's a common area that often fails guidelines.

Note: Since the original instructions were to ignore styles, detailed analysis of contrast based on provided color codes was not executed initially, but is mentioned as a common area of concern for completeness. Realistically, each project should be checked with a contrast checking tool to ensure compliance.

New Chat (Alt-J)