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 lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Fitness Tracker</title>

<style>

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

}

header, footer {

background-color: #333;

color: white;

text-align: center;

padding: 1em;

}

nav {

background-color: #444;

padding: 0.5em;

}

nav a {

color: white;

text-decoration: none;

padding: 0.5em 1em;

margin: 0 1em;

border-radius: 5px;

}

section {

padding: 20px;

margin: 10px;

}

img {

max-width: 100%;

height: auto;

}

table {

width: 100%;

border-collapse: collapse;

margin-top: 20px;

}

th, td {

border: 1px solid #ddd;

padding: 8px;

text-align: left;

}

button {

background-color: #4CAF50; /\* Green background \*/

color: #000000; /\* Changed text color to black \*/

padding: 10px 20px;

border: none;

border-radius: 5px;

cursor: pointer;

}

button:hover {

background-color: #45a049;

}

</style>

</head>

<body>

<header>

<h1>Fitness Tracker</h1>

</header>

<nav>

<a href="#">Home</a>

<a href="#">Workouts</a>

<a href="#">Nutrition</a>

<a href="#">Contact</a>

</nav>

<section>

<h2>Welcome to our Fitness Tracker</h2>

<p>This is a simple fitness tracker website. You can track your workouts, access nutrition information, and contact us for any inquiries.</p>

<img src="fitness\_image.jpg" alt="Fitness Image">

<h3>Latest Workouts</h3>

<table>

<tr>

<th>Date</th>

<th>Exercise</th>

<th>Duration</th>

</tr>

<tr>

<td>2023-01-01</td>

<td>Running</td>

<td>30 minutes</td>

</tr>

<tr>

<td>2023-01-02</td>

<td>Weightlifting</td>

<td>45 minutes</td>

</tr>

</table>

<h2 onmouseout="PauseVideo()">Exercise Videos</h2>

<iframe width="560" height="315" src="https://www.youtube.com/embed/your-exercise-video" frameborder="0" allowfullscreen></iframe>

<h3>Contact Us</h3>

<form>

<input type="text" id="name" name="name" required><br>

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

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

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

<label for="message">Message:</label><br>

<textarea id="message" name="message" rows="4" required></textarea><br>

<button type="submit" style="color: rgb(0, 0, 0); background-color: rgb(76, 175, 80);"></button>

</form>

</section>

<footer>

<p>&copy; 2023 Fitness Tracker. All rights reserved.</p>

</footer>

</body>

</html>```

Response format:

Snippet with error: …

Location of error: …

WCAG Guideline violated: …

Detection Algorithm: …

Explanation of Error: …

Here is an analysis of the code sample against WCAG 2.2 guidelines: [[1]](https://medium.com/@parachutedesign/the-web-content-accessibility-guidelines-wcag-2-2-bbdabebb9d56)

Snippet with error: <h2 onmouseout="PauseVideo()">Exercise Videos</h2>  
Location of error: In <section>  
WCAG Guideline violated: 1.3.1 Info and Relationships  
Detection Algorithm: Manual inspection  
Explanation of Error: The <h2> element is triggering a video to pause on mouse out, but there is no indication to screen reader users of this relationship between the heading and the video. This violates WCAG success criterion 1.3.1 by not programmatically determining the relationship.

Snippet with error: <label for="email">Email:</label><label for="email">Email:</label>  
Location of error: In <form>  
WCAG Guideline violated: 3.3.2 Labels or Instructions  
Detection Algorithm: Manual inspection  
Explanation of Error: The email field has two label elements associated with it, which could cause confusion for assistive technologies. WCAG success criterion 3.3.2 requires that elements need to be unambiguously labeled.

Snippet with error: <button type="submit" style="color: rgb(0, 0, 0); background-color: rgb(76, 175, 80);">  
Location of error: In <form>  
WCAG Guideline violated: 1.4.11 Non-text Contrast  
Detection Algorithm: Color contrast checker  
Explanation of Error: The text color of the submit button does not have sufficient contrast with the background color, falling below the 4.5:1 ratio required by WCAG success criterion 1.4.11. This could make the button text hard to read for some users.

Let me know if any part of the analysis needs more clarification or if you have additional questions!