

This is a detailed account of the debugging and resolution process for a responsive slider issue. Here's a summary:

**\*\*Problem:\*\*** A slider on a website exhibited text overlap, misaligned buttons, and responsiveness issues across various devices.

**\*\*Process:\*\***

1. **\*\*Issue Identification:\*\*** The issue was verified across multiple mobile devices.
2. **\*\*Initial Investigation:\*\*** Examination of HTML and CSS revealed issues with @media queries and fixed image widths.
3. **\*\*First Fix:\*\*** CSS was updated to use relative units and refined @media queries. Images were made responsive.
4. **\*\*Continued Debugging:\*\*** Further testing identified issues with text size and navigation arrow positioning on smaller screens.
5. **\*\*Second Fix:\*\*** More specific @media queries, mobile-specific classes, and browser-specific CSS fixes were implemented to address text and navigation arrow issues.
6. **\*\*Performance Optimization:\*\*** Animation durations were reduced, easing functions were simplified, and unnecessary CSS properties were removed.
7. **\*\*Lazy Loading:\*\*** Lazy loading was implemented for slider images to improve initial page load time on mobile devices.
8. **\*\*Navigation Arrow Issue:\*\*** A JavaScript race condition was discovered, causing navigation arrows to disappear on some Android devices.
9. **\*\*JavaScript Fix:\*\*** The JavaScript code was refactored to debounce the window resize event listener.
10. **\*\*Error Tracking:\*\*** Console logging was added for easier future troubleshooting.
11. **\*\*Final Testing:\*\*** Thorough testing across multiple devices and browsers confirmed the resolution of all issues.

**\*\*Outcome:\*\*** The slider is now fully responsive, animations are smooth, and all navigation elements remain visible. The ticket was closed as resolved.