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SUMMARY

This report reflects the findings of a high-level assessment of Statista for its conformance with the W3C Web Content Accessibility Guidelines version 2.1 (WCAG 2.1).

There are very few WCAG 2.1 compliance issues with Statista, and the few that are present are programmatic in nature and should be relatively easy to fix. However, creating an accessible platform is a constantly moving goalpost, so it is important to keep in mind that there are continual updates to the WCAG standards that may require more work in the future. Below are the most critical issues to focus on correcting to improve access for all potential users of the system.

Top Findings

1. **Contrast**: The biggest issue facing Statista is color contrast. Several color contrast issues were flagged by automatic analysis tools that should be further investigated. Many of these were confirmed on a manual analysis, and several color combinations that result in less than a 4.5:1 contrast ratio are listed below. Many of these issues will likely be solved by changing the color palette for these combinations, but a manual review will still be necessary to check text that is in front of an image or a gradient.

2. **Compatibility**: There are several issues with compatibility. While these are relatively minor in most instances, some will need further investigation. For an in-depth guide to ARIA implementation, please see the [WAI-ARIA Authoring Best Practices Guide from W3](https://www.w3.org/WAI/ARIA/Authoring-best-practices/).

3. **Information and Relationships**: Issues with labeling and information relationships were identified. This will need to be addressed in order to meet WCAG 2.1 AA compliance.
ACCESSIBILITY FINDINGS

This report was conducted against Statista and covers a selection of pages and features that were to be tested as a representative sample of the database’s conformance to the WCAG 2.1 AA standards.

The resource was reviewed using a combination of manual and automatic review tools and assistive technologies, including the WAVE Accessibility Assessment tool, Axe Accessibility Assessment tool, WCAG Color Contrast Checker, and NVDA screen reader. All problems identified by automatic tools were double checked manually. This evaluation was performed using Firefox on Windows 10.

Below are the findings revealed during the accessibility evaluation of Statista.

1. Initial Interface

**Test Case:** Test initial interface/landing page to ensure menus, sub-menus, search box, images, icons, etc. are accessible.

**SC 1.3.2:** Screen reader works but doesn’t read continuously when the page is opened. It reads the browser tab heading, then skips to the daily insights and reads the first card, then stops. Further investigation needed to determine if this is a bug on my end, or a problem with the system.
**SC 1.4.3**: Element has insufficient color contrast of 3.81 (foreground color: #0b85e5, background color: #ffffff, font size: 12.4pt (16.5px), font weight: normal).

**SC 1.4.3**: Element has insufficient color contrast of 1.9 (foreground color: #85c2f2, background color: #ffffff, font size: 12.4pt (16.5px), font weight: normal).

**SC 1.4.3**: Element has insufficient color contrast of 3.17 (foreground color: #7b94a3, background color: #ffffff, font size: 12.4pt (16.5px), font weight: normal).

**SC 1.4.3**: Element has insufficient color contrast of 2.82 (foreground color: #ffffff, background color: #599dea, font size: 10.5pt (14px), font weight: bold).

**SC 1.4.3**: Element has insufficient color contrast of 1.81 (foreground color: #ffffff, background color: #b2c2d3, font size: 10.5pt (14px), font weight: bold).

**SC 1.4.3**: Insufficient color contrast; 123 instances, further investigation needed. Ensure that all text over background images/gradients is contrast compliant.

**SC 1.4.13**: Menus and search bars that cover focusable content do not collapse when you tab away from them.

**SC 4.1.2**: Aria role should be appropriate for the element; location: .ot-host-expand. ARIA role “presentation” must be removed when the element is made visible, as it is not allowed for the element.

**SC 4.1.2**: Ensure aria-roledescription is only used on elements with an implicit or explicit role; 40 instances, further investigation needed. Check that the aria-roledescription is announced by supported screen readers.

**Best Practices**

- Document should have one main landmark.
- Landmarks should be unique.
- All page content should be contained by landmarks.
2. Search Results

**Test Case:** From the initial landing page, conduct a search for: "lightning strikes". Test search results page, including filters/refine search by filtering Region to Europe and sorting by Popularity.

**SC 1.3.1:** Screen Reader breaks logical flow when reading the page, moving from the “My Account” dropdown on the right side of the page to the main navigation area on the left.

**SC 1.3.1:** Aria hidden elements must not be focusable or contain focusable elements; 18 instances, further investigation needed.

**SC 1.3.1:** `<ul>` and `<ol>` must only directly contain `<li>`, `<script>`, or `<template>` elements; .margin-bottom-10:nth-child(1) > .entity__headline > .vueTooltip__trigger > .vueTooltip__wrap > .vueTooltip.animation--duration-500[role="tooltip"] > div > ul

**SC 1.3.5:** Autocomplete attribute must be used correctly; location: #isocountrySearch.

**SC 1.4.3:** Elements must have sufficient color contrast; 252 instances, further investigation needed.

**SC 2.4.9:** Links with the same name must have a similar purpose; location; .margin-bottom-10:nth-child(1) > .entity__headline > .vueTooltip__trigger > .vueTooltip__wrap > .vueTooltip.animation--duration-500[role="tooltip"] > div > ul

**SC 4.1.2:** Aria tooltip nodes must have an accessible name; 8 instances.

**SC 4.1.2:** Form elements must have labels; location: .font-size-s.text-color--gray > label > input[type="checkbox"]
Best Practices

- Heading levels should only increase by one.
- Aside should not be contained inside another landmark.
- Document should have one main landmark.

3. Individual Results

Test Case: Test individual search result landing page & test actual document (charts, PDF, etc.).

SC 1.1.1: Charts are not fully screen readable and equivalent information is not provided on the page.

SC 1.4.3: Elements must have sufficient color contrast; 49 instances, further investigation needed

Best Practices

- Document should have one main landmark.
- All page content should be contained by landmarks.
4. Advanced Search

Test Case: Test advanced search page: https://www.statista.com/search

SC 1.3.1: Screen Reader breaks logical flow when reading the page, moving from the “My Account” dropdown on the right side of the page to the main navigation area on the left.

SC 1.3.1: Aria hidden elements must not be focusable or contain focusable elements; 18 instances, further investigation needed.

SC 1.3.1: <ul> and <ol> must only directly contain <li>, <script>, or <template> elements;
.margin-bottom-10:nth-child(1) > .entity__headline > .vueTooltip__trigger > .vueTooltip__wrap > .vueTooltip.animation--duration-500[role="tooltip"] > div > ul

SC 1.3.5: Autocomplete attribute must be used correctly; location: #isocountrySearch.

SC 1.4.3: Elements must have sufficient color contrast; 277 instances, further investigation needed.

SC 2.4.9: Links with the same name must have a similar purpose; location;
.margin-bottom-10:nth-child(1) > .entity__headline > .vueTooltip__trigger > .vueTooltip__wrap > .vueTooltip.animation--duration-500[role="tooltip"] > div > ul

SC 4.1.2: Elements must only use allowed ARIA attributes; location:
.paginationRound__circlePrev. Aria-label attribute cannot be used on a span with no valid role attribute.

SC 4.1.2: Aria tooltip nodes must have an accessible name; 8 instances.
SC 4.1.2: Form elements must have labels; location: .font-size-s.text-color--gray > label > input[type="checkbox"]

Best Practices

- Heading levels should only increase by one.
- Aside should not be contained inside another landmark.
- Document should have one main landmark.

Disclaimer: This high-level evaluation was conducted for the Library Accessibility Alliance, and represents a good faith effort conducted within a limited time frame. It should not be assumed to be complete or free from error. No warranties or guarantees are implied. UT is not responsible for direct, indirect, or incidental damages based on this work; its use or interpretation by any individual, group, or organization; or on conditions beyond our control.