

Issue #8 (open): [REVIEW] [Accessibility]

@domoritz on
Mar 20, 2025 22:01: [opened]

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Reviewed version

c97a8dc

Perceivable

- ☒ Contrast of all text and elements is sufficient. Geometries and large text must have >3:1 contrast against background. Regular text must have >4.5:1.
- ☐ Content has non-visual alternatives. All figures have alt text and videos have transcripts. Equations are screen reader accessible.
- ☒ Font sizes for all texts are sufficiently large. Text must not be smaller than 9pt/12px in size. Ideally only minor text is rendered at 9pt (e.g., axis labels) while all other text is larger.
- ☒ Where possible within reason, the article works even if I could not perceive colors. Colors should be augmented with patterns, textures, other visual cues, or tooltips if possible.
- ☒ The article can be navigated comfortably with a screen reader. There are no unnecessary accessibility elements (e.g., axis ticks and labels) that clutter the screen reader experience.

Screen reader

- ☒ VoiceOver on macOS
- ☐ VoiceOver on iOS
- ☐ NVDA on Windows
- ☐ JAWS on Windows
- ☐ Not tested with a screen reader (explain below why not)

Browser

- ☒ Safari or other WebKit-based browser
- ☐ Chrome or other Chromium-based browser
- ☐ Firefox

Comments on Perceivable

Alt texts are missing for all figures. Please also disable tooltips for references as they are broken with screen readers. See <https://github.com/quarto-dev/quarto-cli/issues/6500>.

Operable

- ☒ If there are interactive elements in the article, they can be operated with a keyboard.
- ☒ If there are interactive elements in the article, there are textual instructions for how to use them or it's reasonable to assume that it's clear how to use them.

- ☒ When navigating over the article with a keyboard, the focus indicator is always visible.
- ☒ Interactions that work with a mouse also work on a touch screen (unless explicitly called out).

Comments on Operable

All good.

Understandable

- ☒ All charts have a title and a description.
- ☒ Changes in animated or interactive elements are easy to follow.
- ☒ All axes have clear labels (either explicit or implicitly given the context).
- ☒ There are legends for all charts that need them.

Comments on Understandable

All good.

Robust

- ☒ All buttons use the `button` tag.
- ☒ Headings, paragraphs, and figures are tagged correctly.

Comments on Robust

All good.

Assistive

- ☒ The data density of all charts is appropriate. Use clustering or other data reduction techniques if elements compete for space but explain the method.
- ☒ Navigation and interaction feels intuitive with all interaction methods (mouse, keyboard, touch).
- ☒ All visually apparent features and relationships are described.
- ☒ Formatting makes values human-readable. Use , or space to separate thousands. Align numbers to the right. Use the smallest, appropriate number of significant digits.

Comments on Assistive

All good.

Flexible

- ☒ The article is readable on a phone.
- ☒ The article can be zoomed and font-sizes change appropriately. The layout of the page does not break when zooming in or changing the font size (e.g., using CMD + or CMD - on macOS).
- ☒ Long animations (if they exist) can be paused or stopped. Animations should be videos, not GIFs as they cannot be paused.
- ☒ Style and charts use a consistent and familiar design (fonts, colors, etc). Interaction defaults should be consistent for all interactive elements.

Comments on Flexible

All good. It's nice how the composed figures wrap automatically.

ORCID

0000-0002-3110-1053

[@chatchavan](#) on
Mar 26, 2025 11:26:

@TeemuSailynoja Please consider updating your articles according to the feedback from the accessibility review above.

[@TeemuSailynoja](#) on
Mar 26, 2025 11:53:

Thank you, @chatchavan and @domoritz. I will add the missing alt-texts and disable the popup from the references as soon as possible. I hope the light box feature on the figures was not problematic with screen reader use, as I haven't got any personal experience in using one.

[@TeemuSailynoja](#) on
Apr 11, 2025 08:05:

Hi @chatchavan, to make the workflow easiest for everyone, should I make a PR on per-issue basis and then ask the reviewer who requested the changes to review the PR?

[@chatchavan](#) on
Apr 11, 2025 12:18:

If it's not much more work for you, you can do that.

I suspect that each of the JoVI chairs (accessibility and open-practices) will use their requests as the starting point and test those aspects on the rendered version of the paper. So, the changes in the source code might not be seen.

[@domoritz](#) on
Apr 11, 2025 14:27:

You can go ahead and merge the fixes. Please get familiar with the basics of a screen reader to test your article. Without some tight feedback loop, it'll be harder to get this right.

[@TeemuSailynoja](#) on
Apr 14, 2025 08:28:

@domoritz, thank you for the feedback. I have now merged the changes to the main branch in [#9](#). Also learned to use the windows screen reader and the alt-text is coming out well.

[@domoritz](#) on
Apr 20, 2025 02:49:

Awesome. The alt texts look good.

[@domoritz](#) on
Apr 20, 2025 02:49:

[closed]

[@floe](#) on
Apr 12, 2026 09:07:

Reopening so it remains visible on the main issue page.
