[Issue #9](#) (open): [REVIEW] [Accessibility]

@domoritz on
Mar 20, 2025 21:34: [opened]

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Mar 20, 2025 21:34:

Reviewed version

2adabc4

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
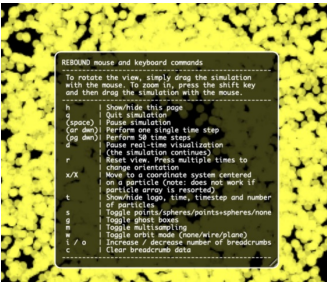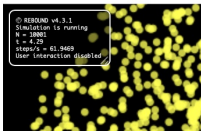- ☐ Firefox

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Comments on Perceivable

The alt text of the flowchart isn't describing the content of the flowcharts but should.

The alt text for the animation just says "Frame 0".

The font size of the info panel and help are too small.

visualization but using O

Please disable tooltips for citations because of 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

There are instructions.

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.

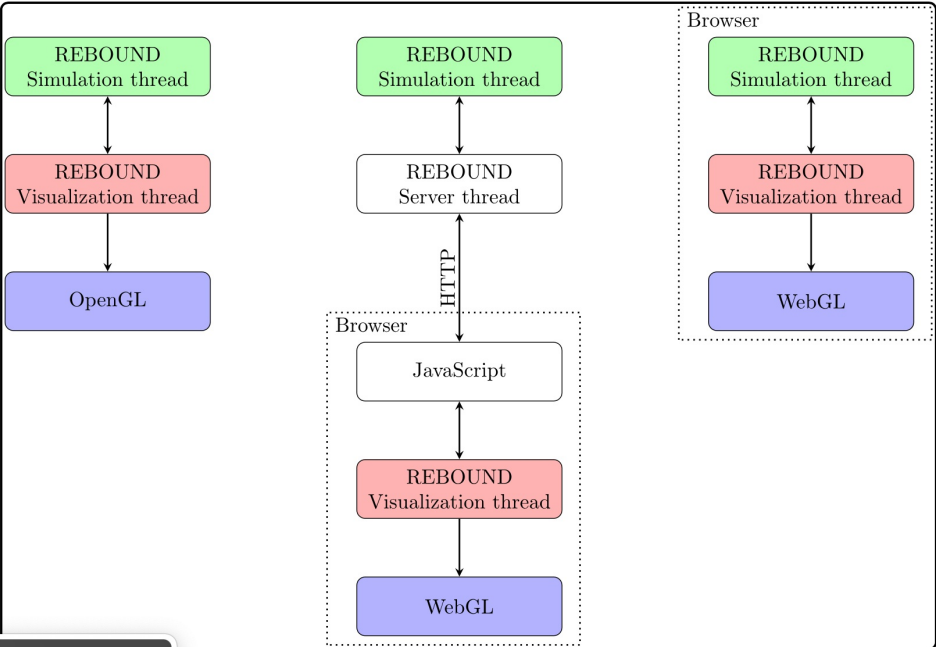## Comments on Flexible

All good

ORCID

0000-0002-3110-1053

@hannorein on Apr 26, 2025 12:33: I just saw this now. Sorry. I'll get onto it...

@hannorein on May 02, 2025 14:22: I think I've now made all the requested changes.

@domoritz on Jun 11, 2025 21:02: Did you deploy the changes. This still says "image" for me. No alt text.

that is needed by the browser (HTML, CSS, JavaScript, WebAssembly, image data) into one single HTML file that can then be served as a static website or directly be opened locally with a web browser.

Schematic of the three different operating modes. In the standalone mode (left), the visualization is provided by ... mode (middle), the browser streams data from a web server which is then visualized using WebGL. In

Also, can you disable poups for refs. It doesn't work well with screen readers as they auto open and then the screenreader cursor jumps into them. It's a known issue with quarto and we are still waiting for a fix. Until then, disable the popups.

@hannorein on Jun 11, 2025 21:46:

I thought I did all that. See https://github.com/journalovi/2024-rein-rebound/commits/main/

When I go to https://www.journalovi.org/2024-rein-rebound/, I do see the alt-text in the source code.

Am I missing something?

@domoritz on Jun 16, 2025 15:18:

Looking at the source, it seems to use `data-fig.alt`, not `alt`. At least VoiceOver in Safari doesn't seem to pick it up. Did you try a screen reader?

https://quarto.org/docs/authoring/figures.html#alt-text says that you need to use `fig-alt` instead of `fig.alt`. Did tyou try that?

@hannorein on Jun 18, 2025 18:45:

Thanks for catching the typo! That did the trick.

@domoritz on Jun 19, 2025 17:52:

Great. Of course the galaxy visualization is hard to make fully accessible but you have alt text so that's good.

All good now!

@domoritz on Jun 19, 2025 17:52:

[closed]

@floe on Oct 29, 2025 14:55:

Reopening to keep reviews visible on the main page.