[Issue #15](#) (open): [REVIEW] [Accessibility]

@domoritz on
Dec 08, 2025 23:03:

[opened]

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Reviewed version

ec13d0a

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
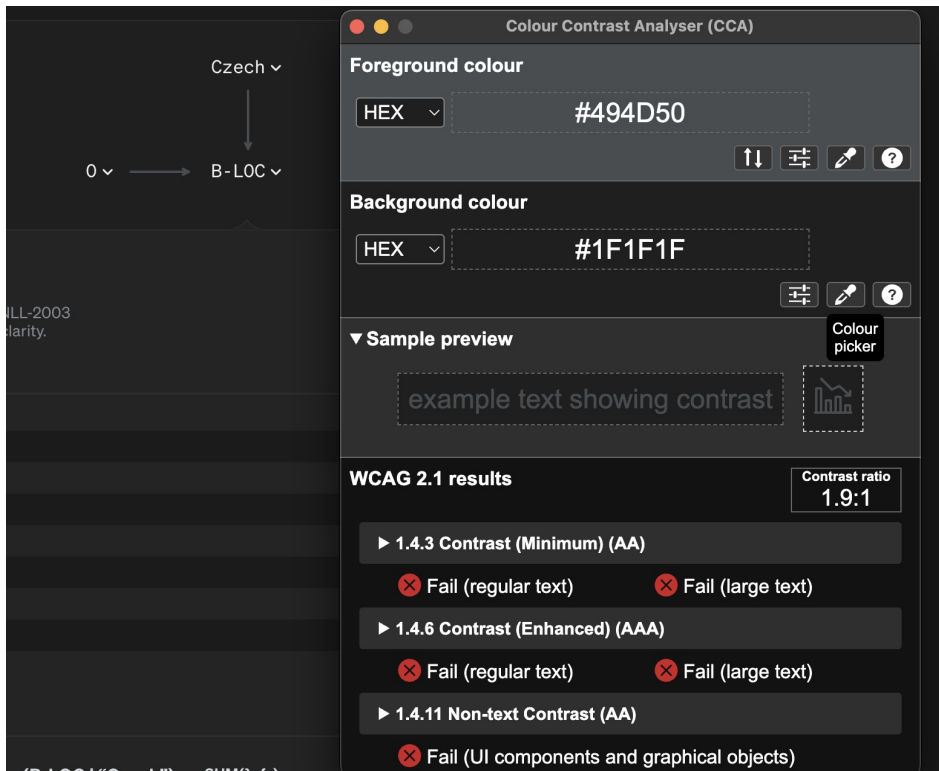- ☐ Firefox

Comments on Perceivable

Great alt texts overall and great to see that formulas are described nicely as well.

There seems to be an issue with the `\in` symbol which is very small.
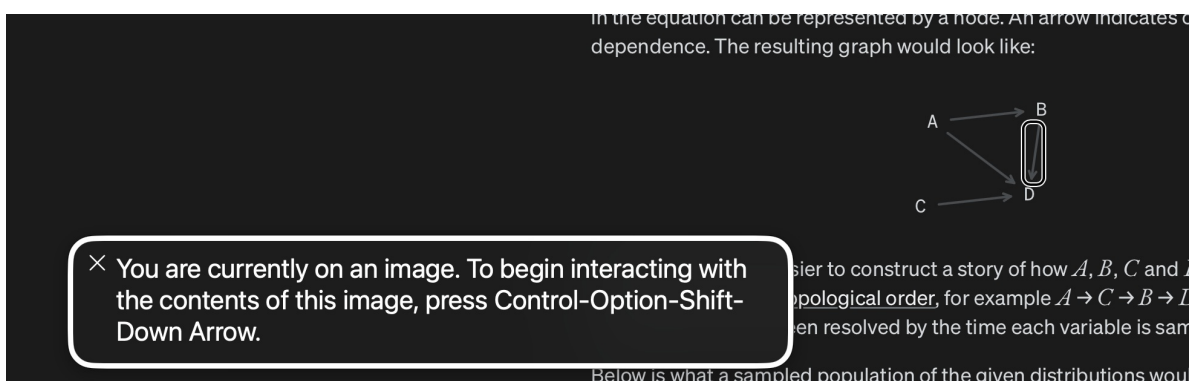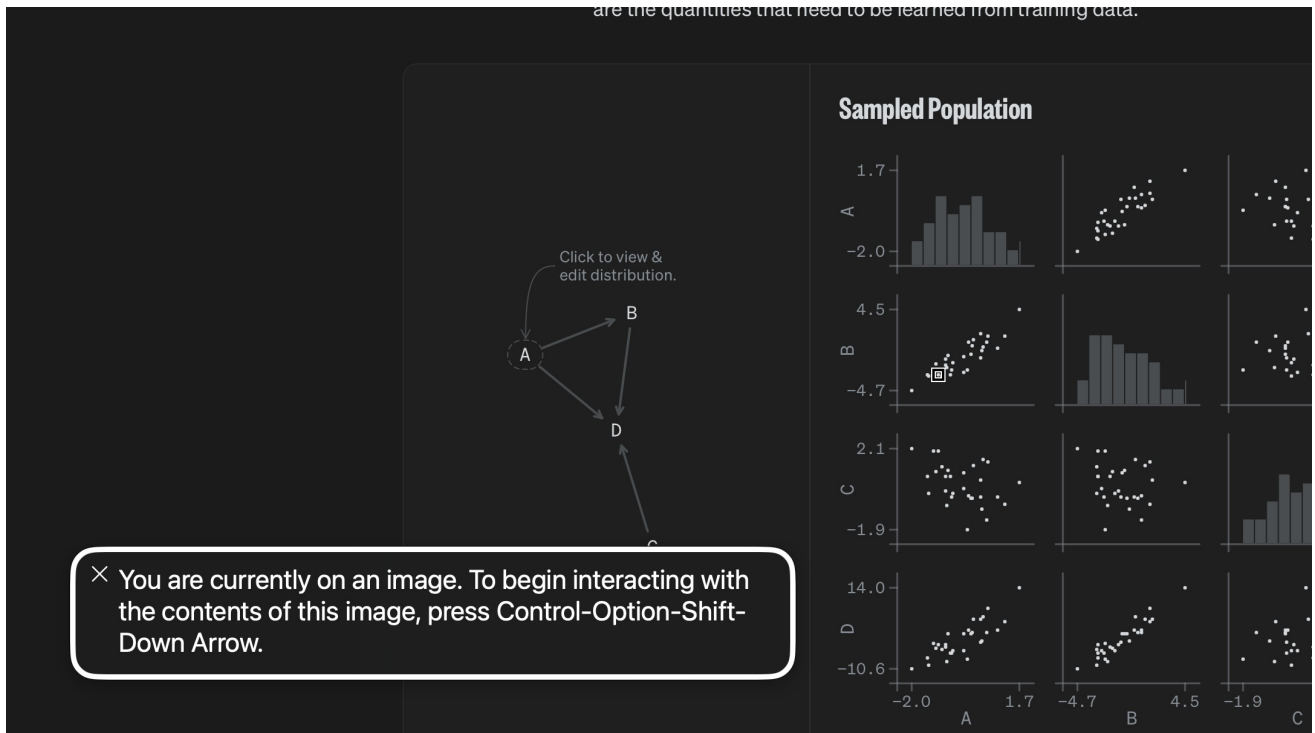
$$p(s_i|s_1, s_2, \ldots, s_{i-1}) = p(s_i|s_{i-1})$$
$$\text{for all } i \in \{2, \ldots, N\}$$

Some of the contrasts are very low. For example, the arrows in this image fail contrast checks to the background.

The graphs and charts have a lot of elements exposed to the screen reader that are just read out as "image". I'd suggest hiding them with aria-hidden.

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

The nodes in the node-link-diagrams are accessible with a screen reader but not with a keyboard. Would be great to set a tab index so that they can be activated with just a keyboard.

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

Great.

Robust

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

Comments on Robust

Great

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

Great

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

Great

ORCID

0000-0002-3110-1053