

GIS Accessibility Testing Checklist



Dynamic Maps

Color

- ✓ Map colors are compatible with color deficiencies. Patterns and shapes are used where colors aren't distinct
- ✓ Colors don't have extreme ranges.
- ✓ Layer fill and outline have a contrast of at least 3:1.
- ✓ Layer outline and basemap have a contrast of at least 3:1.
- ✓ Large text has a contrast of at least 3:1.
- ✓ Small text has a contrast of at least 4.5:1.
- ✓ Color is not the only communication method (ex: several patterns are included).

Typography

- ✓ An accessible font is used.
- ✓ Bold is used only to convey important information.
- ✓ Water features are always italicized.
- ✓ Underlining is only used for hyperlinks.
- ✓ Uses hierarchical text levels.
- ✓ Standard capitalization is used when possible (all caps should be avoided).
- ✓ Minimum font size is 12pt (16px).
- ✓ Line height is 1.5.
- ✓ Text is not center-aligned.
- ✓ No Loss of content or functionality when user overrides page for paragraph spacing to 200% of the font size, text line height/spacing to 150% of the font size, word spacing to 16% of the font size, and letter spacing to 12% of the font size.

Labels

- ✓ Minimum label size is 6pt.
- ✓ Labels are not at an extreme angle.
- ✓ Halos (outlines) are around text if contrast is too low.
- ✓ The text (or halo) and background color have a 4.5:1 contrast level for small text and 3:1 for large text.

Cartography

- ✓ Symbology imitates real-world symbols wherever possible.
- ✓ Map utilizes visual hierarchy (the most important information is conveyed first).
- ✓ Include a basemap gallery with the light and dark Enhanced Contrast basemaps.

Text

- ✓ Text is plain (no metaphors or slang, etc.).
- ✓ Sentences are straightforward and use an active tone.
- ✓ Words are common everyday words.
- ✓ Buttons have useful titles.
- ✓ Acronyms are spelled out at least once.
- ✓ Pop ups, tables and layer titles are clear and understandable.

Alternative Text

- ✓ All non-text content has a text alternative that serves an equal purpose (including the map itself).
- ✓ If alternative text is not possible, the user is aware of constraints through other text and a description of the item is given.
- ✓ Complicated graphs and charts have alternative text.
- ✓ Popups contain information that adds helpful context to the map.
- ✓ Popups are easily understandable and formatted in a readable way.
- ✓ A legend is included.
- ✓ A cognitive function test (such as remembering a password or solving a puzzle) is not required for any step in an authentication process.

Zoom Tools

- ✓ All important elements and text are still visible when zoom is 200%.
- ✓ Able to navigate without a mouse when zoom is 200%.
- ✓ All important elements and text are still visible when zoom is 400%.
- ✓ Able to navigate without a mouse when zoom is 400%.

Navigation

- ✓ Able to access all elements of the web map without using your mouse (including any maps or apps in an iframe).
- ✓ Links open in the app window unless it will disrupt a multi-step process.
- ✓ User is able to close out of any splash screens and is able to access the full app without getting trapped.
- ✓ Tooltips close when the mouse moves off.

Checklist courtesy of: Colorado OIT-GIS Website

- ✓ Map data is available in another format outside the map itself (ex: table).
- ✓ All targets for user input (buttons, hyperlinks, etc.) must be at least 24 by 24 CSS pixels (px).
- ✓ All keyboard-operable elements must have a visible and (at least partially) unobscured keyboard focus indicator.
- ✓ All functionality that uses a dragging movement for operation can be achieved by a single pointer without dragging.
- ✓ Maintain consistency by providing contact information, tutorials, and any help mechanisms in the same order as other page content created by the same organization, author, or group.
- ✓ Information already given by the user required to be entered again in the same

Static Maps

- ✓ There is alternative text for the map.
- ✓ There is metadata for the document.
- ✓ There are appropriate tags.
- ✓ The reading order of the PDF makes sense.
- ✓ North arrows, legends, and scales do not have alternative text and are not tagged.
- ✓ If possible, a description of the map is on the page.
- ✓ Another format of the data is available, either by table or hyperlink.
- ✓ A human contact is provided.
- ✓ Minimum font size for labels should be 6pt, and the minimum font size for explanatory text should be 12pt (or 16px). For inset maps, keep labels at least 6pt.

Other ArcGIS Resources:

- ✓ [Colorado GIS Mapping Accessibility Guidelines](#)
- ✓ [State of Missouri Dynamic Map Accessibility Resources](#)