

Summary and Checklist: Images, Canvas, SVG, and Other Non-Text Content

Summary

All non-text content must be represented in a text format in one way or another, whether in the form of an alt attribute for an image, an alternative representation of non-HTML objects, or within the accessibility API methods of non-HTML objects.

Checklist

Image Alt Text

Informative Images

- Images that convey content MUST have programmatically-discernible alternative text.
- The alternative text for informative images MUST be meaningful (accurately conveying the purpose of the image and the author's intent in a way that is useful to those who cannot see the image).
- Alternative text SHOULD NOT include words that identify the element as a graphic or image.
- The length of the alternative text for informative images SHOULD be concise (no more than about 250 characters).

Decorative or Redundant Images

 Images that do not convey content, are decorative, or are redundant to content that is already conveyed in text MUST be given null alternative text (alt=""), ARIA role="presentation", or implemented as CSS backgrounds.

Actionable Images

- All actionable images (e.g., links, buttons, controls)
 MUST have alternative text.
- The alternative text for actionable images MUST be meaningful (accurately conveying the purpose or result of the action).
- Alternative text SHOULD NOT include words that identify the element as a link, graphic, or image.
- The length of the alternative text for actionable images SHOULD be concise (no more than about 250 characters).

Form Inputs type="image"

- Form inputs with type="image" MUST have alternative text.
- The alternative text for form inputs with type="image" MUST accurately convey the purpose or result of the input action.
- The length of the alternative text for inputs with type="image" SHOULD be concise (no more than about 250 characters).

Animated Images

- A method MUST be provided to pause, stop, or hide any prerecorded video-only content that begins playing automatically and which lasts more than 5 seconds.
- Animated images MUST NOT flash or flicker more than 3 times per second.

Complex Images - Extended Descriptions

- Complex images MUST be briefly described using alt text AND MUST have a more complete long description.
- The long description (or a link or button to access the long description) SHOULD be visible to sighted users.
- The long description SHOULD be programmatically associated with the image.

Images of Text

- An image MUST NOT include informative text if an equivalent visual presentation of the text can be rendered using real text.
- Images MUST NOT include informative text, unless the text is essential (such as a logo), or the font, size, color, and background are customizable.

CSS Background Images

- Purely decorative or redundant CSS images SHOULD NOT have a text alternative in the HTML content.
- The alternative text for informative or actionable CSS images MUST be available as programmaticallydiscernible text in the HTML content.
- The alternative text (in the HTML content) for informative or actionable CSS images MUST adequately and accurately describe the purpose of the image.



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Image Alt Text (continued)

Image Maps

- The alternative text for the of a client-side image map MUST be available as programmaticallydiscernible text.
- The alternative text for the element of a client-side image map MUST be meaningful (accurately describing the purpose or author's intent in a way that is useful to people who cannot see the image).
- The length of the alternative text for the element of client-side image maps SHOULD be concise (no more than about 250 characters).
- The alternative text for the <area> of a client-side image map MUST be available as programmaticallydiscernible text.
- The alternative text for the actionable <area>
 element of a client-side image map MUST be
 meaningful (accurately describing the purpose or
 result of the action in a way that is useful to people
 who cannot see the image).
- The length of the alternative text for the <area> element of client-side image maps SHOULD be concise (no more than about 250 characters).
- Server-side image maps SHOULD NOT be used when a client-side image map (or other method) can accomplish the same functionality.

SVG

SVG as img src

- All SVG elements SHOULD be set to role="img".
- All informative or actionable SVG elements
 MUST have meaningful, concise alternative text (via alt, aria-label, or aria-labelledby).

Inline SVGs

- All <svq> elements MUST be set to role="imq".
- All informative or actionable <svg> elements MUST have meaningful alternative text (via the <title> element).
- The alternative text (<title>) of an <svg> element MUST be programmatically associated with the <svg> element via aria-labelledby.
- All text within the image that needs to be spoken by a screen reader MUST be associated with the <svg> element using aria-labelledby.

Inline SVGs (continued)

 The total number of characters of alt text associated with the <svg> element SHOULD NOT exceed 250 characters.

Embedded SVGs

• SVG SHOULD NOT be embedded via <object> or <iframe>.

Complex Alternative Text

- Complex <svg> images MUST have meaningful, concise alternative text AND MUST have a more complete long description.
- A <desc> element MUST be used to provide a
 detailed description of a complex <svg> if it is not
 provided in any other way.
- The <desc> attribute of an <svg> element MUST be programmatically associated with the <svg> element (via aria-labelledby).
- The length of all associated alternative text (including <title> and <desc>) for the <svg> element SHOULD be concise (no more than about 250 characters).

Text in SVGs

- Text within <svg> elements SHOULD be eliminated
 OR SHOULD be kept to a minimum.
- All informative <text> elements inside <svg>
 elements MUST be referenced in the alternative text
 of the <svg> element, or in a long description.

SVG Color Contrast

- SVG images SHOULD include a base background color behind the important parts of the image, at a minimum.
- SVG images SHOULD be styled to ensure compatibility with Windows High Contrast Mode

Animated SVG Content

- SVG animations SHOULD use JavaScript, rather than the <animate> element.
- SVG animations MUST not flash or blink at a rate of 3 times per second or more.
- SVG animations MUST NOT auto-play for more than 5 seconds.
- SVG animations MUST allow users to pause the animation.
- SVG animations SHOULD NOT distract the user from the main purpose of the web content.



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SVG (continued)

Interactive SVGs

- Interactive <svg> objects MUST be fully keyboardaccessible.
- Interactive <svg> objects MUST be fully touchscreen-accessible.
- Interactive <svg> objects MUST communicate the applicable name, role, and value of controls, events, and semantic elements within the <svg> object.

Icon Fonts

- Informative icon fonts without accompanying visible text SHOULD be assigned role="img".
- Informative icon fonts without accompanying visible text MUST have a text alternative.
- Actionable icon fonts without accompanying visible text MUST have a text alternative.
- The alternative text for informative icon fonts MUST be meaningful.
- Decorative or redundant icon fonts SHOULD be set to aria-hidden="true".

HTML 5 <canvas>

- When <canvas> elements are used to display graphics, they MUST be assigned role="img".
- All <canvas> elements MUST have a text alternative.
- The alternative text for <canvas> elements MUST be meaningful.
- All <canvas> elements with complex images MUST have a detailed text alternative.
- All <canvas> elements SHOULD have a background fill.
- If text is required in a graphic, it MAY be more appropriate to use SVG instead of <canvas>.
- A <canvas> element operable with mouse MUST also be keyboard accessible.

Multimedia

- All prerecorded video MUST have synchronized captions.
- Prerecorded audio MAY have synchronized captions.
- All live video with dialog and/or narration MUST have synchronized captions.
- Live audio consisting mainly of dialog and/or narration SHOULD have synchronized captions.
- All prerecorded video and audio MUST have text transcripts.
- Videos MUST include audio descriptions of important visual content that is not conveyed through the audio.

Plug-ins

- All <object> elements MUST have alternative text.
- A full-featured HTML alternative SHOULD be provided for Silverlight and Flash objects.
- Accessible Silverlight and Flash objects MUST use the accessibility API.
- Silverlight and Flash objects MUST adhere to basic content accessibility principles.
- Silverlight and Flash objects MUST adhere to multimedia accessibility principles.
- Silverlight and Flash objects MUST adhere to basic interactive accessibility principles.

Documents

- An HTML version of non-HTML content SHOULD be made available to users.
- Non-HTML documents MUST adhere to basic accessibility principles.
- PDF files MUST be in tagged PDF format.
- EPUB files MUST adhere to HTML accessibility principles, and the accessibility principles of any other technologies used within the EPUB document.
- EPUB files SHOULD be in EPUB 3 format.
- EPUB documents SHOULD adhere to the additional accessibility principles in the EPUB Accessibility specification.