

Principle 1: Perceivable

Web content is made available to the senses - sight, hearing, and/or touch

Guideline 1.1 Text Alternatives

Provide text alternatives for any non-text content

Success Criteria	Recommendations
<u>1.1.1 Non-text Content</u> (Level A)	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Images, form image buttons, and image map hot spots have appropriate, equivalent <u>alternative text</u>. <input checked="" type="checkbox"/> Images that do not convey content, are decorative, or contain content that is already conveyed in text are given null alt text (alt="") or implemented as CSS backgrounds. Linked images have descriptive alternative text. <input checked="" type="checkbox"/> Equivalent alternatives to complex images are provided in context or on a separate linked page. <input checked="" type="checkbox"/> Form buttons have a descriptive value. <input checked="" type="checkbox"/> Form inputs have associated <u>text labels</u>. <input type="checkbox"/> Embedded multimedia is identified via accessible text. <input type="checkbox"/> Frames and iframes are appropriately <u>titled</u>.

Guideline 1.2 Time-based Media

Provide alternatives for time-based media

NOTE: If the audio or video is designated as an alternative to web content (e.g., an audio or sign language version of a web page, for example), then the web content itself serves as the alternative.

Success Criteria	Recommendations
<u>1.2.1 Prerecorded Audio-only and Video-only</u> (Level A)	<ul style="list-style-type: none"> <input type="checkbox"/> A transcript of relevant content is provided for non-live audio-only (audio podcasts, MP3 files, etc.). <input type="checkbox"/> A transcript or audio description of relevant content is provided for non-live video-only, unless the video is decorative.
<u>1.2.2 Captions (Prerecorded)</u> (Level A)	<ul style="list-style-type: none"> <input type="checkbox"/> <u>Synchronized captions</u> are provided for non-live video (YouTube videos, etc.).
<u>1.2.3 Audio Description or Media Alternative (Prerecorded)</u> (Level A)	<ul style="list-style-type: none"> <input type="checkbox"/> A <u>transcript</u> OR <u>audio description</u> is provided for non-live video. NOTE: Only required if there is relevant visual content that is not presented in the audio. .
<u>1.2.4 Captions (Live)</u> (Level AA)	<ul style="list-style-type: none"> <input type="checkbox"/> Synchronized captions are provided for live media that contains audio (audio-only broadcasts, web casts, video conferences, etc.)
<u>1.2.5 Audio Description (Prerecorded)</u> (Level AA)	<ul style="list-style-type: none"> <input type="checkbox"/> Audio descriptions are provided for non-live video. NOTE: Only required if there is relevant visual content that is not presented in the audio.. <input type="checkbox"/> While not required at level AA, for optimal accessibility WebAIM recommends descriptive transcripts in addition to audio descriptions.
<u>1.2.6 Sign Language (Prerecorded)</u> (Level AAA)	<ul style="list-style-type: none"> <input type="checkbox"/> A sign language video is provided for media that contains audio.

<u>1.2.7 Extended Audio Description (Prerecorded)</u> (Level AAA)	<input type="checkbox"/> When audio description cannot be added to video due to audio timing (e.g., insufficient pauses in the audio), an alternative version of the video with pauses that allow audio descriptions is provided.
<u>1.2.8 Media Alternative (Prerecorded)</u> (Level AAA)	<input type="checkbox"/> A transcript is provided for pre-recorded media that has a video track. For optimal accessibility, WebAIM strongly recommends transcripts for all multimedia.
<u>1.2.9 Audio-only (Live)</u> (Level AAA)	<input type="checkbox"/> A descriptive text transcript (e.g., the script of the live audio) is provided for live content that has audio.

Guideline 1.3 Adaptable:

Create content that can be presented in different ways (e.g., simpler layout) without losing information or structure

Success Criteria	Recommendations
<u>1.3.1 Info and Relationships</u> (Level A)	<input checked="" type="checkbox"/> <u>Semantic markup</u> is used to designate headings (<h1>), regions/landmarks, lists (, , and <dl>), emphasized or special text (, <code>, <abbr>, <blockquote>, for example), etc. Semantic markup is used appropriately. <input type="checkbox"/> <u>Tables</u> are used for tabular data and data cells are associated with their headers. Data table captions, if present, are associated to data tables. <input checked="" type="checkbox"/> <u>Text labels</u> are associated with form input elements. Related form elements are grouped with fieldset/legend. ARIA labelling may be used when standard HTML is insufficient.
<u>1.3.2 Meaningful Sequence</u> (Level A)	<input checked="" type="checkbox"/> The <u>reading and navigation order</u> (determined by code order) is logical and intuitive.
<u>1.3.3 Sensory Characteristics</u> (Level A)	<input checked="" type="checkbox"/> Instructions do not rely upon shape, size, or visual location (e.g., "Click the square icon to continue" or "Instructions are in the right-hand column"). <input checked="" type="checkbox"/> Instructions do not rely upon sound (e.g., "A beeping sound indicates you may continue.").
<u>1.3.4 Orientation</u> (WCAG 2.1 Level AA)	<input checked="" type="checkbox"/> Orientation of web content is not restricted to only portrait or landscape, unless a specific orientation is necessary.
<u>1.3.5 Identify Input Purpose</u> (WCAG 2.1 Level AA)	<input checked="" type="checkbox"/> Input fields that collect <u>certain types of user information</u> have an appropriate autocomplete attribute defined.
<u>1.3.6 Identify Purpose</u> (WCAG 2.1 Level AAA)	<input checked="" type="checkbox"/> HTML5 regions or ARIA landmarks are used to identify page regions. <input type="checkbox"/> ARIA is used, where appropriate, to enhance HTML semantics to better identify the purpose of interface components.

Guideline 1.4 Distinguishable:

Make it easier for users to see and hear content including separating foreground from background

Success Criteria	Recommendations
<u>1.4.1 Use of Color</u> (Level A)	<input checked="" type="checkbox"/> Color is not used as the sole method of conveying content or distinguishing visual elements. <input checked="" type="checkbox"/> Color alone is not used to distinguish <u>links</u> from surrounding text unless the <u>contrast ratio between the link and the surrounding text is at least 3:1</u> and an additional distinction (e.g., underline) is provided when the link is hovered and receives focus.
<u>1.4.2 Audio Control</u> (Level A)	<input type="checkbox"/> A mechanism is provided to stop, pause, mute, or adjust volume for audio that automatically plays on a page for more than 3 seconds.

<u>1.4.3 Contrast (Minimum)</u> (Level AA)	<input checked="" type="checkbox"/> Text and images of text have a contrast ratio of at least 4.5:1. <input checked="" type="checkbox"/> Large text - at least 18 point (typically 24px) or 14 point (typically 18.66px) and bold - has a contrast ratio of at least 3:1.
<u>1.4.4 Resize text</u> (Level AA)	<input checked="" type="checkbox"/> The page is readable and functional when the page is zoomed to 200%. NOTE: 1.4.10 (below) introduces a much higher requirement for zoomed content.
<u>1.4.5 Images of Text</u> (Level AA)	<input checked="" type="checkbox"/> If the same visual presentation can be made using text alone, an image is not used to present that text.
<u>1.4.6 Contrast (Enhanced)</u> (Level AAA)	<input checked="" type="checkbox"/> Text and images of text have a contrast ratio of at least 7:1. <input checked="" type="checkbox"/> Large text - at least 18 point (typically 24px) or 14 point (typically 18.66px) bold - has a contrast ratio of at least 4.5:1.
<u>1.4.7 Low or No Background Audio</u> (Level AAA)	<input type="checkbox"/> Audio with speech has no or very low background noise so the speech is easily distinguished.
<u>1.4.8 Visual Presentation</u> (Level AAA)	<p>Blocks of text over one sentence in length:</p> <input type="checkbox"/> Are no more than 80 characters wide. <input checked="" type="checkbox"/> Are NOT fully justified (aligned to both the left and the right margins). <input checked="" type="checkbox"/> Have adequate line spacing (at least 1/2 the height of the text) and paragraph spacing (1.5 times line spacing). <input checked="" type="checkbox"/> Have a specified foreground and background color. These can be applied to specific elements or to the entire page using CSS (and thus inherited by all other elements). <input checked="" type="checkbox"/> Do NOT require horizontal scrolling when the text size is doubled.
<u>1.4.9 Images of Text (No Exception)</u> (Level AAA)	<input checked="" type="checkbox"/> Text is used within an image only for decoration (image does not convey content) OR when the information cannot be presented with text alone.
<u>1.4.10 Reflow</u> (WCAG 2.1 Level AA)	<input checked="" type="checkbox"/> No loss of content or functionality occurs and horizontal scrolling is avoided when content is presented at a width of 320 pixels. <ul style="list-style-type: none"> o This requires responsive design for most web sites. This is best tested by setting the browser window to 1280 pixels wide and then zooming the page content to 400%. <input checked="" type="checkbox"/> Content that requires horizontal scrolling, such as data tables, complex images (such as maps and charts), toolbars, etc. are exempted.
<u>1.4.11 Non-text Contrast</u> (WCAG 2.1 Level AA)	<input checked="" type="checkbox"/> A contrast ratio of at least 3:1 is present for differentiating graphical objects (such as icons and components of charts or graphs) and author-customized interface components (such as buttons, form controls, and focus indicators/outlines). <input checked="" type="checkbox"/> At least 3:1 contrast must be provided in the various states (focus, hover, active, etc.) of author-customized interactive components.
<u>1.4.12 Text Spacing</u> (WCAG 2.1 Level AA)	<input checked="" type="checkbox"/> No loss of content or functionality occurs when the user adapts paragraph spacing to 2 times the font size, text line height/spacing to 1.5 times the font size, word spacing to .16 times the font size, and letter spacing to .12 times the font size. <input checked="" type="checkbox"/> This is best supported by avoiding pixel height definitions for elements that contain text.
<u>1.4.13 Content on Hover or Focus</u> (WCAG 2.1 Level AA)	<input checked="" type="checkbox"/> When additional content is presented on hover or keyboard focus: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> The newly revealed content can be dismissed (generally via the Esc key) without moving the pointer or keyboard focus, unless the content presents an input error or does not obscure or interfere with other page content. <input checked="" type="checkbox"/> The pointer can be moved to the new content without the content disappearing. <input checked="" type="checkbox"/> The new content must remain visible until the pointer or keyboard focus is moved away from the triggering control, the new content is dismissed, or the new content is no longer relevant.

Principle 2: Operable

Interface forms, controls, and navigation are operable

Guideline 2.1 Keyboard Accessible:

Make all functionality available from a keyboard

Success Criteria	Recommendations
<u>2.1.1 Keyboard</u> (Level A)	<input checked="" type="checkbox"/> All page functionality is available using the <u>keyboard</u> , unless the functionality cannot be accomplished in any known way using a keyboard (e.g., free hand drawing). <input checked="" type="checkbox"/> Page-specified shortcut keys and accesskeys (accesskey should typically be avoided) do not conflict with existing browser and screen reader shortcuts.
<u>2.1.2 No Keyboard Trap</u> (Level A)	<input checked="" type="checkbox"/> Keyboard focus is never locked or trapped at one particular page element. The user can navigate to and from all navigable page elements using only a keyboard.
<u>2.1.3 Keyboard (No Exception)</u> (Level AAA)	<input checked="" type="checkbox"/> All page functionality is available using the keyboard.
<u>2.1.4 Character Key Shortcuts</u> (WCAG 2.1 Level A)	<input checked="" type="checkbox"/> If a keyboard shortcut uses printable character keys, then the user must be able to disable the key command, change the defined key to a non-printable key (Ctrl, Alt, etc.), or only activate the shortcut when an associated interface component or button is focused.

Guideline 2.2 Enough Time:

Provide users enough time to read and use content

Success Criteria	Recommendations
<u>2.2.1 Timing Adjustable</u> (Level A)	<input type="checkbox"/> If a page or application has a time limit, the user is given options to turn off, adjust, or extend that time limit. This is not a requirement for real-time events (e.g., an auction), where the time limit is absolutely required, or if the time limit is longer than 20 hours.
<u>2.2.2 Pause, Stop, Hide</u> (Level A)	<input type="checkbox"/> Automatically moving, blinking, or scrolling content (such as carousels, marquees, or animations) that lasts longer than 5 seconds can be paused, stopped, or hidden by the user. <input type="checkbox"/> Automatically updating content (e.g., a dynamically updating news ticker, chat messages, etc.) can be paused, stopped, or hidden by the user or the user can manually control the timing of the updates.
<u>2.2.3 No Timing</u> (Level AAA)	<input type="checkbox"/> The content and functionality have no time limits or constraints.
<u>2.2.4 Interruptions</u> (Level AAA)	<input checked="" type="checkbox"/> Interruptions (alerts, page updates, etc.) can be postponed or suppressed by the user.
<u>2.2.5 Re-authenticating</u> (Level AAA)	<input checked="" type="checkbox"/> If an authentication session expires, the user can re-authenticate and continue the activity without losing any data from the current page.
<u>2.2.6 Timeouts</u> (WCAG 2.1 Level AAA)	<input type="checkbox"/> Users must be warned of any timeout that could result in data loss, unless the data is preserved for longer than 20 hours of user inactivity.

Guideline 2.3 Seizures:

Do not design content in a way that is known to cause seizures or physical reactions

Success Criteria	Recommendations
<u>2.3.1 Three Flashes or Below Threshold</u> (Level A)	<input checked="" type="checkbox"/> No page content flashes more than 3 times per second unless that flashing content is sufficiently small and the flashes are of low contrast and do not contain too much red.
<u>2.3.2 Three Flashes</u> (Level AAA)	<input checked="" type="checkbox"/> No page content flashes more than 3 times per second.
<u>2.3.3 Animation from Interactions</u> (WCAG 2.1 Level AAA)	<input checked="" type="checkbox"/> Users can disable non-essential animation and movement that is triggered by user interaction.

Guideline 2.4 Navigable:

Provide ways to help users navigate, find content, and determine where they are

Success Criteria	Recommendations
<u>2.4.1 Bypass Blocks</u> (Level A)	<input checked="" type="checkbox"/> A link is provided to skip navigation and other page elements that are repeated across web pages. <input checked="" type="checkbox"/> A proper heading structure and/or identification of page regions/landmarks may be considered a sufficient technique. Because navigating by headings or regions is not supported in most browsers, WebAIM recommends a "skip" link (in addition to headings and regions) to best support sighted keyboard users.
<u>2.4.2 Page Titled</u> (Level A)	<input checked="" type="checkbox"/> The web page has a descriptive and informative page title.
<u>2.4.3 Focus Order</u> (Level A)	<input checked="" type="checkbox"/> The navigation order of links, form elements, etc. is logical and intuitive.
<u>2.4.4 Link Purpose (In Context)</u> (Level A)	<input checked="" type="checkbox"/> The purpose of each link (or form image button or image map hotspot) can be determined from the link text alone, or from the link text and its context (e.g., surrounding text, list item, previous heading, or table headers). <input checked="" type="checkbox"/> Links (or form image buttons) with the same text that go to different locations are readily distinguishable.
<u>2.4.5 Multiple Ways</u> (Level AA)	<input checked="" type="checkbox"/> Multiple ways are available to find other web pages on the site - at least two of: a list of related pages, table of contents, site map, site search, or list of all available web pages.
<u>2.4.6 Headings and Labels</u> (Level AA)	<input checked="" type="checkbox"/> Page headings and labels for form and interactive controls are informative. Avoid duplicating heading (e.g., "More Details") or label text (e.g., "First Name") unless the structure provides adequate differentiation between them.
<u>2.4.7 Focus Visible</u> (Level AA)	<input checked="" type="checkbox"/> It is visually apparent which page element has the current keyboard focus (i.e., as you tab through the page, you can see where you are).
<u>2.4.8 Location</u> (Level AAA)	<input checked="" type="checkbox"/> If a web page is part of a sequence of pages or within a complex site structure, an indication of the current page location is provided, for example, through breadcrumbs or specifying the current step in a sequence (e.g., "Step 2 of 5 - Shipping Address").
<u>2.4.9 Link Purpose (Link Only)</u> (Level AAA)	<input checked="" type="checkbox"/> The purpose of each link (or form image button or image map hotspot) can be determined from the link text alone. <input checked="" type="checkbox"/> There are no links (or form image buttons) with the same text that go to different locations.

2.4.10 Section Headings (Level AAA)	<input checked="" type="checkbox"/> Beyond providing an overall document structure, individual sections of content are designated using headings, where appropriate.
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Guideline 2.5 Input Modalities:

Make it easier for users to operate functionality through various inputs beyond keyboard

Success Criteria	Recommendations
2.5.1 Pointer Gestures (WCAG 2.1 Level A)	<input checked="" type="checkbox"/> If multipoint or path-based gestures (such as pinching, swiping, or dragging across the screen) are not essential to the functionality, then the functionality can also be performed with a single point activation (such as activating a button).
2.5.2 Pointer Cancellation (WCAG 2.1 Level A)	<input type="checkbox"/> To help avoid inadvertent activation of controls, avoid non-essential down-event (e.g., onmousedown) activation when clicking, tapping, or long pressing the screen. Use onclick, onmouseup, or similar instead. If onmouseup (or similar) is used, you must provide a mechanism to abort or undo the action performed.
2.5.3 Label in Name (WCAG 2.1 Level A)	<input checked="" type="checkbox"/> If an interface component (link, button, etc.) presents text (or images of text), the accessible name (label, alternative text, aria-label, etc.) for that component must include the visible text.
2.5.4 Motion Actuation (WCAG 2.1 Level A)	<input type="checkbox"/> Functionality that is triggered by moving the device (such as shaking or panning a mobile device) or by user movement (such as waving to a camera) can be disabled and equivalent functionality is provided via standard controls like buttons.
2.5.5 Target Size (WCAG 2.1 Level AAA)	<input checked="" type="checkbox"/> Clickable targets are at least 44 by 44 pixels in size unless an alternative target of that size is provided, the target is inline (such as a link within a sentence), the target is not author-modified (such as a default checkbox), or the small target size is essential to the functionality.
2.5.6 Concurrent Input Mechanisms (WCAG 2.1 Level AAA)	<input checked="" type="checkbox"/> Content does not restrict input to a specific modality, such as touch-only or keyboard-only, but must support alternative inputs (such as using a keyboard on a mobile device).

Principle 3: Understandable

Information and the operation of user interface must be understandable.

Guideline 3.1 Readable:

Make text content readable and understandable

Success Criteria	Recommendations
3.1.1 Language of Page (Level A)	<input checked="" type="checkbox"/> The language of the page is identified using the HTML lang attribute (e.g., <html lang="en">).
3.1.2 Language of Parts (Level AA)	<input type="checkbox"/> The language of page content that is in a different language is identified using the lang attribute (e.g., <blockquote lang="es">).
3.1.3 Unusual Words (Level AAA)	<input type="checkbox"/> <u>Words</u> that may be ambiguous, unfamiliar, or used in a very specific way are defined through adjacent text, a definition list, a glossary, or other suitable method.
3.1.4 Abbreviations (Level AAA)	<input type="checkbox"/> The meaning of an unfamiliar abbreviation is provided by expanding it the first time it is used, using the <abbr> element, or linking to a definition or glossary.

3.1.5 Reading Level (Level AAA)	<input checked="" type="checkbox"/> A more understandable alternative is provided for content that is more advanced than can be reasonably read by a person with roughly 9 years of primary education.
3.1.6 Pronunciation (Level AAA)	<input checked="" type="checkbox"/> If the pronunciation of a word is vital to understanding that word, its pronunciation is provided immediately following the word or via a link or glossary.

Guideline 3.2 Predictable:

Make Web pages appear and operate in predictable ways

Success Criteria	Recommendations
3.2.1 On Focus (Level A)	<input checked="" type="checkbox"/> When a page element receives focus, it does not result in a substantial change to the page, the spawning of a pop-up window, an additional change of keyboard focus, or any other change that could confuse or disorient the user.
3.2.2 On Input (Level A)	<input checked="" type="checkbox"/> When a user inputs information or interacts with a control, it does not result in a substantial change to the page, the spawning of a pop-up window, an additional change of keyboard focus, or any other change that could confuse or disorient the user unless the user is informed of the change ahead of time.
3.2.3 Consistent Navigation (Level AA)	<input checked="" type="checkbox"/> Navigation links that are repeated on web pages do not change order when navigating through the site.
3.2.4 Consistent Identification (Level AA)	<input checked="" type="checkbox"/> Elements that have the same functionality across multiple web pages are consistently identified. For example, a search box at the top of the site should always be labeled the same way.
3.2.5 Change on Request (Level AAA)	<input checked="" type="checkbox"/> Substantial changes to the page, the spawning of pop-up windows, uncontrolled changes of keyboard focus, or any other change that could confuse or disorient the user must be initiated by the user. Alternatively, the user is provided an option to disable such changes.

Guideline 3.3 Input Assistance:

Help users avoid and correct mistakes

Success Criteria	Recommendations
3.3.1 Error Identification (Level A)	<input checked="" type="checkbox"/> Required form elements or form elements that require a specific format, value, or length provide this information within the element's label. <input checked="" type="checkbox"/> Form validation errors are efficient, intuitive, and accessible. The error is clearly identified, quick access to the problematic element is provided, and the user can easily fix the error and resubmit the form.
3.3.2 Labels or Instructions (Level A)	<input checked="" type="checkbox"/> Sufficient labels, cues, and instructions for required interactive elements are provided via instructions, examples, properly positioned form labels, and/or fieldsets/legends.
3.3.3 Error Suggestion (Level AA)	<input checked="" type="checkbox"/> If an input error is detected (via client-side or server-side validation), suggestions are provided for fixing the input in a timely and accessible manner.
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	<input checked="" type="checkbox"/> If the user can change or delete legal, financial, or test data, the changes/deletions can be reversed, verified, or confirmed.
3.3.5 Help (Level AAA)	<input checked="" type="checkbox"/> Instructions and cues are provided in context to help in form completion and submission.
3.3.6 Error Prevention (All) (Level AAA)	<input checked="" type="checkbox"/> If the user can submit information, the submission is reversible, verified, or confirmed.

Principle 4: Robust

Content can be used reliably by a wide variety of user agents, including assistive technologies

Guideline 4.1 Compatible:

Maximize compatibility with current and future user agents, including assistive technologies

Success Criteria	Recommendations
<u>4.1.1 Parsing</u> (Level A)	<input checked="" type="checkbox"/> Significant HTML/XHTML validation/parsing errors are avoided.
<u>4.1.2 Name, Role, Value</u> (Level A)	<input checked="" type="checkbox"/> Markup is used in a way that facilitates accessibility. This includes following the HTML/XHTML specifications and using forms, form labels, frame titles, etc. <input type="checkbox"/> ARIA is used appropriately to enhance accessibility when HTML is not sufficient.
<u>4.1.3 Status Messages</u> (WCAG 2.1 Level AA)	<input type="checkbox"/> If an important status message is presented and focus is not set to that message, the message must be announced to screen reader users, typically via an ARIA alert or live region.

Available online at: webaim.org/standards/wcag/checklist