# WCAG 2.2 A & AA Checklist

**Date:**

**Vendor:**

**Name of deliverable:**

## WCAG 2.2 Level A

| **Standard** | **Supports or N/A** | **Comments** |
| --- | --- | --- |
| **1.1.1 Non-text Content:** All [non-text content](http://www.w3.org/TR/WCAG20/#non-text-contentdef) that is presented to the user has a [text alternative](http://www.w3.org/TR/WCAG20/#text-altdef) that serves the equivalent purpose. (See exceptions) |  |  |
| **1.2.1 Audio-only and Video-only (Prerecorded):** For [prerecorded](http://www.w3.org/TR/WCAG20/#prerecordeddef) [audio-only](http://www.w3.org/TR/WCAG20/#audio-onlydef) and prerecorded [video-only](http://www.w3.org/TR/WCAG20/#video-onlydef) media, the following are true:* **Prerecorded Audio-only:** An [alternative for time-based media](http://www.w3.org/TR/WCAG20/#alt-time-based-mediadef) is provided that presents equivalent information for prerecorded audio-only content.
* **Prerecorded Video-only:** Either an alternative for time-based media or an audio track is provided that presents equivalent information for prerecorded video-only content.
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| **1.2.2 Captions (Prerecorded):** [Captions](http://www.w3.org/TR/WCAG20/#captionsdef) are provided for all [prerecorded](http://www.w3.org/TR/WCAG20/#prerecordeddef) [audio](http://www.w3.org/TR/WCAG20/#audiodef) content in [synchronized media](http://www.w3.org/TR/WCAG20/#synchronizedmediadef), except when the media is a [media alternative for text](http://www.w3.org/TR/WCAG20/#multimedia-alt-textdef) and is clearly labeled as such. |  |  |
| **1.2.3 Audio Description or Media Alternative (Prerecorded):** An [alternative for time-based media](http://www.w3.org/TR/WCAG20/#alt-time-based-mediadef) or [audio description](http://www.w3.org/TR/WCAG20/#audiodescdef) of the [prerecorded](http://www.w3.org/TR/WCAG20/#prerecordeddef) [video](http://www.w3.org/TR/WCAG20/#videodef) content is provided for [synchronized media](http://www.w3.org/TR/WCAG20/#synchronizedmediadef) (See exceptions) |  |  |
| **1.3.1 Info and Relationships:** Information, [structure](http://www.w3.org/TR/WCAG20/#structuredef), and [relationships](http://www.w3.org/TR/WCAG20/#relationshipsdef) conveyed through [presentation](http://www.w3.org/TR/WCAG20/#presentationdef) can be [programmatically determined](http://www.w3.org/TR/WCAG20/#programmaticallydetermineddef) or are available in text. |  |  |
| **1.3.2 Meaningful Sequence:** When the sequence in which content is presented affects its meaning, a [correct reading sequence](http://www.w3.org/TR/WCAG20/#correct-reading-sequencedef) can be [programmatically determined](http://www.w3.org/TR/WCAG20/#programmaticallydetermineddef). |  |  |
| **1.3.3 Sensory Characteristics:** Instructions provided for understanding and operating content do not rely solely on sensory characteristics of components such as shape, size, visual location, orientation, or sound. *Note:* For requirements related to color, refer to [Guideline 1.4](http://www.w3.org/TR/WCAG20/#visual-audio-contrast) |  |  |
| **1.4.1 Use of Color:** Color is not used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element. |  |  |
| **1.4.2 Audio Control:** If any audio on a Web page plays automatically for more than 3 seconds, either a [mechanism](http://www.w3.org/TR/WCAG20/#mechanismdef) is available to pause or stop the audio, or a mechanism is available to control audio volume independently from the overall system volume level. |  |  |
| **2.1.1 Keyboard:** All [functionality](http://www.w3.org/TR/WCAG20/#functiondef) of the content is operable through a [keyboard interface](http://www.w3.org/TR/WCAG20/#keybrd-interfacedef) without requiring specific timings for individual keystrokes. |  |  |
| **2.1.2 No Keyboard Trap:** If keyboard focus can be moved to a component of the page using a [keyboard interface](http://www.w3.org/TR/WCAG20/#keybrd-interfacedef), then focus can be moved away from that component using only a keyboard interface, and, if it requires more than unmodified arrow or tab keys or other standard exit methods, the user is advised of the method for moving focus away. |  |  |
| **2.1.4 Character Key Shortcuts:** If a [keyboard shortcut](https://www.w3.org/WAI/WCAG21/Understanding/character-key-shortcuts.html#dfn-keyboard-shortcut) is implemented in content using only letter (including upper- and lower-case letters), punctuation, number, or symbol characters, then at least one of the following is true:* **Turn off**: A [mechanism](https://www.w3.org/WAI/WCAG21/Understanding/character-key-shortcuts.html#dfn-mechanism) is available to turn the shortcut off;
* **Remap:** A mechanism is available to remap the shortcut to include one or more non-printable keyboard keys (e.g., Ctrl, Alt);
* **Active only on focus**: The keyboard shortcut for a [user interface component](https://www.w3.org/WAI/WCAG21/Understanding/character-key-shortcuts.html#dfn-user-interface-component) is only active when that component has focus.
 |  |  |
| **2.2.1 Timing Adjustable:** For each time limit that is set by the content, at least one of the following is true: * **Turn off:** The user is allowed to turn off the time limit before encountering it; or
* **Adjust:** The user is allowed to adjust the time limit before encountering it over a wide range that is at least ten times the length of the default setting; or
* **Extend:** The user is warned before time expires and given at least 20 seconds to extend the time limit with a simple action (for example, "press the space bar"), and the user is allowed to extend the time limit at least ten times.
 |  |  |
| **2.2.2 Pause, Stop, Hide:** For moving, [blinking](http://www.w3.org/TR/WCAG20/#blinksdef), scrolling, or auto-updating information, all of the following are true:* **Moving, blinking, scrolling:** For any moving, blinking or scrolling information that (1) starts automatically, (2) lasts more than five seconds, and (3) is presented in parallel with other content, there is a mechanism for the user to [pause](http://www.w3.org/TR/WCAG20/#pauseddef), stop, or hide it unless the movement, blinking, or scrolling is part of an activity where it is [essential](http://www.w3.org/TR/WCAG20/#essentialdef); and
* **Auto-updating:** For any auto-updating information that (1) starts automatically and (2) is presented in parallel with other content, there is a mechanism for the user to pause, stop, or hide it or to control the frequency of the update unless the auto-updating is part of an activity where it is essential.
 |  |  |
| **2.3.1 Three Flashes or Below Threshold:** [Web pages](http://www.w3.org/TR/WCAG20/#webpagedef) do not contain anything that flashes more than three times in any one second period, or the [flash](http://www.w3.org/TR/WCAG20/#flash-def) is below the [general flash and red flash thresholds](http://www.w3.org/TR/WCAG20/#general-thresholddef). |  |  |
| **2.4.1 Bypass Blocks:** A [mechanism](http://www.w3.org/TR/WCAG20/#mechanismdef) is available to bypass blocks of content that are repeated on multiple [Web pages](http://www.w3.org/TR/WCAG20/#webpagedef). |  |  |
| **2.4.2 Page Titled:** [Web pages](http://www.w3.org/TR/WCAG20/#webpagedef) have titles that describe topic or purpose. |  |  |
| **2.4.3 Focus Order:** If a [Web page](http://www.w3.org/TR/WCAG20/#webpagedef) can be [navigated sequentially](http://www.w3.org/TR/WCAG20/#nav-seqdef) and the navigation sequences affect meaning or operation, focusable components receive focus in an order that preserves meaning and operability. |  |  |
| **2.4.4 Link Purpose (In Context):** The [purpose of each link](http://www.w3.org/TR/WCAG20/#linkpurposedef) can be determined from the link text alone or from the link text together with its [programmatically determined link context](http://www.w3.org/TR/WCAG20/#pdlinkcontextdef). |  |  |
| **2.5.1 Pointer Gestures:** All [functionality](https://www.w3.org/WAI/WCAG21/Understanding/pointer-gestures.html#dfn-functionality) that uses multipoint or path-based gestures for operation can be operated with a [single pointer](https://www.w3.org/WAI/WCAG21/Understanding/pointer-gestures.html#dfn-single-pointer) without a path-based gesture, unless a multipoint or path-based gesture is [essential](https://www.w3.org/WAI/WCAG21/Understanding/pointer-gestures.html#dfn-essential). |  |  |
| **2.5.2 Pointer Cancellation:** For [functionality](https://www.w3.org/WAI/WCAG21/Understanding/pointer-cancellation.html#dfn-functionality) that can be operated using a [single pointer](https://www.w3.org/WAI/WCAG21/Understanding/pointer-cancellation.html#dfn-single-pointer), at least one of the following is true:* **No Down-Event:** The [down-event](https://www.w3.org/WAI/WCAG21/Understanding/pointer-cancellation.html#dfn-down-event) of the pointer is not used to execute any part of the function;
* **Abort or Undo:** Completion of the function is on the [up-event](https://www.w3.org/WAI/WCAG21/Understanding/pointer-cancellation.html#dfn-up-event), and a [mechanism](https://www.w3.org/WAI/WCAG21/Understanding/pointer-cancellation.html#dfn-mechanism) is available to abort the function before completion or to undo the function after completion;
* **Up Reversal:** The up-event reverses any outcome of the preceding down-event;
* **Essential:** Completing the function on the down-event is [essential](https://www.w3.org/WAI/WCAG21/Understanding/pointer-cancellation.html#dfn-essential).
 |  |  |
| **2.5.3 Label in Name:** For [user interface components](https://www.w3.org/WAI/WCAG21/Understanding/label-in-name.html#dfn-user-interface-component) with [labels](https://www.w3.org/WAI/WCAG21/Understanding/label-in-name.html#dfn-label) that include [text](https://www.w3.org/WAI/WCAG21/Understanding/label-in-name.html#dfn-text) or [images of text](https://www.w3.org/WAI/WCAG21/Understanding/label-in-name.html#dfn-image-of-text), the [name](https://www.w3.org/WAI/WCAG21/Understanding/label-in-name.html#dfn-name) contains the text that is presented visually. |  |  |
| **2.5.4 Motion Actuation:** [Functionality](https://www.w3.org/WAI/WCAG21/Understanding/motion-actuation.html#dfn-functionality) that can be operated by device motion or user motion can also be operated by [user interface components](https://www.w3.org/WAI/WCAG21/Understanding/motion-actuation.html#dfn-user-interface-component) and responding to the motion can be disabled to prevent accidental actuation, except when:* **Supported Interface:** The motion is used to operate functionality through an [accessibility supported](https://www.w3.org/WAI/WCAG21/Understanding/motion-actuation.html#dfn-accessibility-supported) interface;
* **Essential:** The motion is [essential](https://www.w3.org/WAI/WCAG21/Understanding/motion-actuation.html#dfn-essential) for the function and doing so would invalidate the activity.
 |  |  |
| **3.1.1 Language of Page:** The default [human language](http://www.w3.org/TR/WCAG20/#human-langdef) of each [Web page](http://www.w3.org/TR/WCAG20/#webpagedef) can be [programmatically determined](http://www.w3.org/TR/WCAG20/#programmaticallydetermineddef). |  |  |
| **3.2.1 On Focus:** When any component receives focus, it does not initiate a [change of context](http://www.w3.org/TR/WCAG20/#context-changedef). |  |  |
| **3.2.2 On Input:** Changing the setting of any [user interface component](http://www.w3.org/TR/WCAG20/#user-interface-componentdef) does not automatically cause a [change of context](http://www.w3.org/TR/WCAG20/#context-changedef). |  |  |
| **3.2.6 Consistent Help:** If a [Web page](https://www.w3.org/WAI/WCAG22/Understanding/consistent-help#dfn-web-page) contains any of the following help [mechanisms](https://www.w3.org/WAI/WCAG22/Understanding/consistent-help#dfn-mechanism), and those mechanisms are repeated on multiple Web pages within a [set of Web pages](https://www.w3.org/WAI/WCAG22/Understanding/consistent-help#dfn-set-of-web-pages), they occur in the same order relative to other page content, unless a change is initiated by the user:* Human contact details;
* Human contact mechanism;
* Self-help option;
* A fully automated contact mechanism.

Help mechanisms may be provided directly on the page, or may be provided via a direct link to a different page containing the information.For this Success Criterion, "the same order relative to other page content" can be thought of as how the content is ordered when the page is serialized. The visual position of a help mechanism is likely to be consistent across pages for the same page variation (e.g., CSS break-point). The user can initiate a change, such as changing the page's zoom or orientation, which may trigger a different page variation. This criterion is concerned with relative order across pages displayed in the same page variation (e.g., same zoom level and orientation). |  |  |
| **3.3.1 Error Identification:** If an [input error](http://www.w3.org/TR/WCAG20/#input-errordef) is automatically detected, the item that is in error is identified and the error is described to the user in text. |  |  |
| **3.3.2 Labels or Instructions:** [Labels](http://www.w3.org/TR/WCAG20/#labeldef) or instructions are provided when content requires user input. |  |  |
| **3.3.7 Redundant Entry:** Information previously entered by or provided to the user that is required to be entered again in the same [process](https://www.w3.org/WAI/WCAG22/Understanding/redundant-entry#dfn-process) is either:* auto-populated, or
* available for the user to select.

Except when:* re-entering the information is [essential](https://www.w3.org/WAI/WCAG22/Understanding/redundant-entry#dfn-essential),
* the information is required to ensure the security of the content, or
* previously entered information is no longer valid.
 |  |  |
| **4.1.2 Name, Role, Value:** For all [user interface components](http://www.w3.org/TR/WCAG20/#user-interface-componentdef) (including but not limited to: form elements, links and components generated by scripts), the [name](http://www.w3.org/TR/WCAG20/#namedef) and [role](http://www.w3.org/TR/WCAG20/#roledef) can be [programmatically determined](http://www.w3.org/TR/WCAG20/#programmaticallydetermineddef); states, properties, and values that can be set by the user can be [programmatically set](http://www.w3.org/TR/WCAG20/#programmaticallysetdef); and notification of changes to these items is available to [user agents](http://www.w3.org/TR/WCAG20/#useragentdef), including [assistive technologies](http://www.w3.org/TR/WCAG20/#atdef). |  |  |

## WCAG 2.2 Level AA

| **Standard** | **Supports or N/A** | **Comments** |
| --- | --- | --- |
| **1.2.4 Captions (Live):** [Captions](http://www.w3.org/TR/WCAG20/#captionsdef) are provided for all [live](http://www.w3.org/TR/WCAG20/#livedef) [audio](http://www.w3.org/TR/WCAG20/#audiodef) content in [synchronized media](http://www.w3.org/TR/WCAG20/#synchronizedmediadef). |  |  |
| **1.2.5 Audio Description (Prerecorded):** [Audio description](http://www.w3.org/TR/WCAG20/#audiodescdef) is provided for all [prerecorded](http://www.w3.org/TR/WCAG20/#prerecordeddef) [video](http://www.w3.org/TR/WCAG20/#videodef) content in [synchronized media](http://www.w3.org/TR/WCAG20/#synchronizedmediadef). |  |  |
| **1.3.4 Orientation:** Content does not restrict its view and operation to a single display orientation, such as portrait or landscape, unless a specific display orientation is [essential](https://www.w3.org/WAI/WCAG21/Understanding/orientation.html#dfn-essential). |  |  |
| **1.3.5 Identify Input Purpose:** The purpose of each input field collecting information about the user can be [programmatically determined](https://www.w3.org/WAI/WCAG21/Understanding/identify-input-purpose.html#dfn-programmatically-determined) when:* The input field serves a purpose identified in the [Input Purposes for User Interface Components section](https://www.w3.org/TR/WCAG21/#input-purposes); and
* The content is implemented using technologies with support for identifying the expected meaning for form input data.
 |  |  |
| **1.4.3 Contrast (Minimum):** The visual presentation of [text](http://www.w3.org/TR/WCAG20/#textdef) and [images of text](http://www.w3.org/TR/WCAG20/#images-of-textdef) has a [contrast ratio](http://www.w3.org/TR/WCAG20/#contrast-ratiodef) of at least 4.5:1. |  |  |
| **1.4.4 Resize text:** [Text](http://www.w3.org/TR/WCAG20/#textdef) can be resized without [assistive technology](http://www.w3.org/TR/WCAG20/#atdef) up to 200 percent without loss of content or functionality (see exceptions). |  |  |
| **1.4.5 Images of Text:** If the technologies being used can achieve the visual presentation, [text](http://www.w3.org/TR/WCAG20/#textdef) is used to convey information rather than [images of text](http://www.w3.org/TR/WCAG20/#images-of-textdef). |  |  |
| **1.4.10 Reflow:** Content can be presented without loss of information or functionality, and without requiring scrolling in two dimensions for:* Vertical scrolling content at a width equivalent to 320 [CSS pixels](https://www.w3.org/WAI/WCAG21/Understanding/reflow.html#dfn-css-pixel);
* Horizontal scrolling content at a height equivalent to 256 [CSS pixels](https://www.w3.org/WAI/WCAG21/Understanding/reflow.html#dfn-css-pixel).

Except for parts of the content which require two-dimensional layout for usage or meaning. |  |  |
| **1.4.11 Non-text Contrast:** The visual [presentation](https://www.w3.org/WAI/WCAG21/Understanding/non-text-contrast.html#dfn-presentation) of the following have a [contrast ratio](https://www.w3.org/WAI/WCAG21/Understanding/non-text-contrast.html#dfn-contrast-ratio) of at least 3:1 against adjacent color(s):* **User Interface Components:** Visual information required to identify [user interface components](https://www.w3.org/WAI/WCAG21/Understanding/non-text-contrast.html#dfn-user-interface-component) and [states](https://www.w3.org/WAI/WCAG21/Understanding/non-text-contrast.html#dfn-state), except for inactive components or where the appearance of the component is determined by the user agent and not modified by the author;
* **Graphical Objects:** Parts of graphics required to understand the content, except when a particular presentation of graphics is [essential](https://www.w3.org/WAI/WCAG21/Understanding/non-text-contrast.html#dfn-essential) to the information being conveyed.
 |  |  |
| **1.4.12 Text Spacing:** In content implemented using markup languages that support the following [text](https://www.w3.org/WAI/WCAG21/Understanding/text-spacing.html#dfn-text) [style properties](https://www.w3.org/WAI/WCAG21/Understanding/text-spacing.html#dfn-style-property), no loss of content or functionality occurs by setting all of the following and by changing no other style property:* Line height (line spacing) to at least 1.5 times the font size;
* Spacing following paragraphs to at least 2 times the font size;
* Letter spacing (tracking) to at least 0.12 times the font size;
* Word spacing to at least 0.16 times the font size.

Exception: Human languages and scripts that do not make use of one or more of these text style properties in written text can conform using only the properties that exist for that combination of language and script. |  |  |
| **1.4.13 Content on Hover or Focus:** Where receiving and then removing pointer hover or keyboard focus triggers additional content to become visible and then hidden, the following are true:* **Dismissible:** A [mechanism](https://www.w3.org/WAI/WCAG21/Understanding/content-on-hover-or-focus.html#dfn-mechanism) is available to dismiss the additional content without moving pointer hover or keyboard focus, unless the additional content communicates an [input error](https://www.w3.org/WAI/WCAG21/Understanding/content-on-hover-or-focus.html#dfn-input-error) or does not obscure or replace other content;
* **Hoverable:** If pointer hover can trigger the additional content, then the pointer can be moved over the additional content without the additional content disappearing;
* **Persistent:** The additional content remains visible until the hover or focus trigger is removed, the user dismisses it, or its information is no longer valid.

Exception: The visual presentation of the additional content is controlled by the user agent and is not modified by the author. |  |  |
| **2.4.5 Multiple Ways:** More than one way is available to locate a [Web page](http://www.w3.org/TR/WCAG20/#webpagedef) within a [set of Web pages](http://www.w3.org/TR/WCAG20/#set-of-web-pagesdef). |  |  |
| **2.4.6 Headings and Labels:** Headings and [labels](http://www.w3.org/TR/WCAG20/#labeldef) describe topic or purpose. |  |  |
| **2.4.7 Focus Visible:** Any keyboard operable user interface has a mode of operation where the keyboard focus indicator is visible. |  |  |
| **2.4.11 Focus Not Obscured (Minimum):** When a [user interface component](https://www.w3.org/WAI/WCAG22/Understanding/focus-not-obscured-minimum#dfn-user-interface-component) receives keyboard focus, the component is not entirely hidden due to author-created content.* Where content in a configurable interface can be repositioned by the user, then only the initial positions of user-movable content are considered for testing and conformance of this Success Criterion.
* Content opened by the *user* may obscure the component receiving focus. If the user can reveal the focused component without advancing the keyboard focus, the component with focus is not considered hidden due to author-created content.
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| **2.5.7 Dragging Movements:** All [functionality](https://www.w3.org/WAI/WCAG22/Understanding/dragging-movements#dfn-functionality) that uses a [dragging movement](https://www.w3.org/WAI/WCAG22/Understanding/dragging-movements#dfn-dragging-movement) for operation can be achieved by a [single pointer](https://www.w3.org/WAI/WCAG22/Understanding/dragging-movements#dfn-single-pointer) without dragging, unless dragging is [essential](https://www.w3.org/WAI/WCAG22/Understanding/dragging-movements#dfn-essential) or the functionality is determined by the [user agent](https://www.w3.org/WAI/WCAG22/Understanding/dragging-movements#dfn-user-agent) and not modified by the author.This requirement applies to web content that interprets pointer actions (i.e. this does not apply to actions that are required to operate the user agent or assistive technology). |  |  |
| **2.5.8 Target Size (Minimum):** The size of the [target](https://www.w3.org/WAI/WCAG22/Understanding/target-size-minimum#dfn-target) for [pointer inputs](https://www.w3.org/WAI/WCAG22/Understanding/target-size-minimum#dfn-pointer-input) is at least 24 by 24 [CSS pixels](https://www.w3.org/WAI/WCAG22/Understanding/target-size-minimum#dfn-css-pixel), except where:* Spacing: Undersized targets (those less than 24 by 24 CSS pixels) are positioned so that if a 24 CSS pixel diameter circle is centered on the [bounding box](https://www.w3.org/WAI/WCAG22/Understanding/target-size-minimum#dfn-minimum-bounding-box) of each, the circles do not intersect another target or the circle for another undersized target;
* Equivalent: The function can be achieved through a different control on the same page that meets this criterion;
* Inline: The target is in a sentence or its size is otherwise constrained by the line-height of non-target text;
* User agent control: The size of the target is determined by the [user agent](https://www.w3.org/WAI/WCAG22/Understanding/target-size-minimum#dfn-user-agent) and is not modified by the author;
* Essential: A particular [presentation](https://www.w3.org/WAI/WCAG22/Understanding/target-size-minimum#dfn-presentation) of the target is [essential](https://www.w3.org/WAI/WCAG22/Understanding/target-size-minimum#dfn-essential) or is legally required for the information being conveyed.

Targets that allow for values to be selected spatially based on position within the target are considered one target for the purpose of the success criterion. Examples include sliders, color pickers displaying a gradient of colors, or editable areas where you position the cursor.For inline targets the line-height should be interpreted as perpendicular to the flow of text. For example, in a language displayed vertically, the line-height would be horizontal. |  |  |
| **3.1.2 Language of Parts:** The [human language](http://www.w3.org/TR/WCAG20/#human-langdef) of each passage or phrase in the content can be [programmatically determined](http://www.w3.org/TR/WCAG20/#programmaticallydetermineddef). |  |  |
| **3.2.3 Consistent Navigation:** Navigational mechanisms that are repeated on multiple [Web pages](http://www.w3.org/TR/WCAG20/#webpagedef) within a [set of Web pages](http://www.w3.org/TR/WCAG20/#set-of-web-pagesdef) occur in the [same relative order](http://www.w3.org/TR/WCAG20/#samerelorderdef) each time they are repeated, unless a change is initiated by the user. |  |  |
| **3.2.4 Consistent Identification:** Components that have the [same functionality](http://www.w3.org/TR/WCAG20/#samefunctionalitydef) within a set of [Web pages](http://www.w3.org/TR/WCAG20/#webpagedef) are identified consistently. |  |  |
| **3.3.3 Error Suggestion:** If an [input error](http://www.w3.org/TR/WCAG20/#input-errordef) is automatically detected and suggestions for correction are known, then the suggestions are provided to the user. |  |  |
| **3.3.4 Error Prevention (Legal, Financial, Data):** For [Web pages](http://www.w3.org/TR/WCAG20/#webpagedef) that cause [legal commitments](http://www.w3.org/TR/WCAG20/#legalcommitmentsdef) or financial transactions for the user to occur, that modify or delete [user-controllable](http://www.w3.org/TR/WCAG20/#user-controllabledef) data in data storage systems, or that submit user test responses, at least one of the following is true:1. **Reversible:** Submissions are reversible.
2. **Checked:** Data entered by the user is checked for [input errors](http://www.w3.org/TR/WCAG20/#input-errordef) and the user is provided an opportunity to correct them.
3. **Confirmed:** A [mechanism](http://www.w3.org/TR/WCAG20/#mechanismdef) is available for reviewing, confirming, and correcting information before finalizing the submission.
 |  |  |
| **3.3.8 Accessible Authentication (Minimum):** A [cognitive function test](https://www.w3.org/WAI/WCAG22/Understanding/accessible-authentication-minimum#dfn-cognitive-function-test) (such as remembering a password or solving a puzzle) is not required for any step in an authentication [process](https://www.w3.org/WAI/WCAG22/Understanding/accessible-authentication-minimum#dfn-process) unless that step provides at least one of the following:**Alternative**Another authentication method that does not rely on a cognitive function test.**Mechanism**A [mechanism](https://www.w3.org/WAI/WCAG22/Understanding/accessible-authentication-minimum#dfn-mechanism) is available to assist the user in completing the cognitive function test.**Object Recognition**The cognitive function test is to recognize objects.**Personal Content**The cognitive function test is to identify [non-text content](https://www.w3.org/WAI/WCAG22/Understanding/accessible-authentication-minimum#dfn-non-text-content) the user provided to the Web site."Object recognition" and "Personal content" may be represented by images, video, or audio.Examples of mechanisms that satisfy this criterion include:1. support for password entry by password managers to reduce memory need, and

copy and paste to reduce the cognitive burden of re-typing. |  |  |
| **4.13 Status Messages:** In content implemented using markup languages, [status messages](https://www.w3.org/WAI/WCAG21/Understanding/status-messages.html#dfn-status-message) can be [programmatically determined](https://www.w3.org/WAI/WCAG21/Understanding/status-messages.html#dfn-programmatically-determined) through [role](https://www.w3.org/WAI/WCAG21/Understanding/status-messages.html#dfn-role) or properties such that they can be presented to the user by [assistive technologies](https://www.w3.org/WAI/WCAG21/Understanding/status-messages.html#dfn-assistive-technology) without receiving focus. |  |  |