Accessibility Standard: WCAG 2.0

Web Content Accessibility Guidelines 2.0 (WCAG 2.0 - 2008)

WCAG 2.0 was published in 2008, and covers a wide range of recommendations for making web content more accessible. It covers a wider range of disabilities than WCAG 1.0 including: blindness and low vision, deafness and hearing loss, learning disabilities, cognitive limitations, limited movement, speech disabilities, photosensitivity and combinations of these.

Rules

This section lists the 309 rules covering 39 checkpoints for WCAG 2.0 supported by the current version of the product.

1.1 Text Alternatives

1.1.1 A Non-text Content - 22 rules

<u>applet</u> <u>elements must contain alternative content.</u>

area elements must have an alt attribute.

img elements must have an alt attribute.

alt text should not be an image file name.

<u>input type=image</u> <u>elements must have a descriptive</u> <u>alt</u> <u>at...</u>

<u>object</u> elements should contain alternative content. <u>img alt text must not use ASCII art (which includes</u>

<u>img alt text must not use ASCII art (which includes smileys).</u>

<u>alt</u> text should not contain placeholders like 'picture' or...

Figures and images in PDF documents should have non blank ALT...

button elements containing only an img must have an alt ...

<u>Provide redundant text links for each active region of a</u> server-side...

<u>Use client-side image maps instead of server-side image maps,...</u>

The alt text of this image mentions a color, which isn't useful...

This image has been updated without updating the alt attribute...

Do not use filenames, placeholders or empty text as text alternatives...

<u>Decorative and spacer images must have a null alt</u> attribute.

Decorative and spacer images must not use descriptive alt

An image with a null <u>alt</u> attribute should not have <u>title</u>,... This page has words made of Unicode characters that look like...

<u>Using the same alt text on adjacent images results in screen...</u>

Using alt text which duplicates link text in the same link...

Word document contains a graphic without ALT text.

1.2 Time Based Media

1.2.1 A Audio-only and Video-only (Prerecorded) - 1 rule

<u>Do not use filenames, placeholders or empty text as text</u> alternatives...

- 1.2.2 A Captions (Prerecorded) No rules
- **1.2.3 A** Audio Description or Media Alternative (Prerecorded) No rules
- 1.2.4 AA Captions (Live) No rules
- **1.2.5 AA** Audio Description (Prerecorded) No rules
- **1.2.6 AAA** Sign Language (Prerecorded) No rules

- 1.2.7 AAA Extended Audio Description (Prerecorded) No rules
- 1.2.8 AAA Media Alternative (Prerecorded) No rules
- 1.2.9 AAA Audio-only (Live) No rules

1.3 Adaptable

1.3.1 A Info and Relationships - 33 rules

Headings should not contain other headings.

Mark up lists and list items properly. Avoid using images as...

Identify row and column headers in data tables using the elements,...

For data tables that have two or more logical levels of row or...

If a table is used for layout, do not use any structural markup...

Do not provide a <u>summary</u> attribute or <u>caption</u> for layout...

All <u>fieldset</u> elements should be labeled with <u>legend</u>
elements.

<u>label</u> elements should be attached to the controls they <u>label</u>.

The label element is blank.

PDFs must be tagged to be accessible by screen readers.

PDF security on the document prevents screen readers accessing...

<u>Use HTML headings instead of applying CSS heading styles</u> to ...

An image of text has been used as a heading instead of using...

<u>Use semantic markup like strong instead of using the CSS font-weight ...</u>

<u>Using spaces to create multiple columns results in screen</u> readers...

This element uses JavaScript to behave like a link. Links like...

A fieldset element has been used to give a border to text.

This form control has no label and no programmatically determined...

The aria-labelledby attribute references a non-existent element...

The aria-labelledby attribute references a blank element.

This form control has a blank label or title.

This input button has no value attribute and no programmatically...

This button element is empty and has no programmatically determined...

Content inserted with CSS is not read by some screen readers,...

The headers attribute references a non-existent table header...

Important content has been hidden from screen readers using ...

<u>Identify row and column headers in Word tables.</u>

Attribute aria-activedescendant value should either refer to...

The aria-controls attribute must point to IDs of elements in...

The <u>aria-describedby</u> attribute must point to IDs of <u>elements...</u>

The aria-flowto attribute must point to IDs of elements in...

The aria-labelledby attribute must point to IDs of elements...

The <u>aria-owns</u> attribute must point to IDs of elements in the...

1.3.2 A Meaningful Sequence - 7 rules

The lang attribute specifies a language written right-to-left,

•••

The dir attribute does not match the writing direction of the...

Absolute CSS positioning can make pages unreadable when style...

<u>Inserting spaces between letters in a word means screen</u> readers...

Using spaces to create multiple columns results in screen readers...

This page uses nested tables, which do not make sense when read...

Word document contains a non-inline graphic or object.

1.3.3 A Sensory Characteristics - 1 rule

<u>frame title</u> <u>must describe function rather than visual</u> relationship...

1.4 Distinguishable

1.4.1 A Use of Color - 2 rules

The <u>alt</u> text of this image mentions a color, which isn't useful...

Removing the underline from links makes it hard for colorblind...

1.4.2 A Audio Control - 2 rules

A sound plays longer than 3 seconds, without a way to turn it...

An HTML5 media element automatically plays sound, without a way...

1.4.3 AA Contrast (Minimum) - 2 rules

If you set any of the colors on the body or a elements you...

Ensure that text and background colors have enough contrast.

1.4.4 AA Resize Text - 1 rule

Use relative units in CSS property values when zoom is disabled...

1.4.5 AA Images of Text - 1 rule

Equations rendered as images should be marked up with MathML....

1.4.6 AAA Contrast (Enhanced) - 2 rules

If you set any of the colors on the body or a elements you...

Ensure that text and background colors have a 7:1 contrast ratio.

- 1.4.7 AAA Low or No Background Audio No rules
- 1.4.8 AAA Visual Presentation 2 rules

If you set any of the colors on the body or a elements you...

Many people with cognitive disabilities (including dyslexia)...

1.4.9 AAA Images of Text (No Exception) - 1 rule

Equations rendered as images should be marked up with MathML....

2.1 Keyboard Accessible

2.1.1 A Keyboard - 14 rules

<u>Provide redundant text links for each active region of a</u> server-side...

For SCRIPTs and APPLETs, ensure that event handlers are input...

<u>Use client-side image maps instead of server-side image maps,...</u>

<u>All onmouseup handlers should have an equivalent onkeyup...</u>

<u>All onmouseover handlers should have an equivalent onfocus ...</u>

All onmouseout handlers should have an equivalent onblur...

All onmousedown handlers should have an equivalent onkeydown...

All onclick handlers should have an equivalent onkeypress ...

All ondblclick handlers should have an equivalent onkey ... select lists cannot be operated from the keyboard if they have...

onkey handlers on static elements like div and span cannot...

This form automatically submits when focus changes making it...

This element uses JavaScript to behave like a link. Links like...

This field removes focus when tabbed to making it impossible...

2.1.2 A No Keyboard Trap - No rules

2.1.3 AAA Keyboard (No Exception) - 14 rules

Provide redundant text links for each active region of a server-side...

For SCRIPTs and APPLETs, ensure that event handlers are input...

<u>Use client-side image maps instead of server-side image maps,...</u>

All onmouseup handlers should have an equivalent onkeyup ...

<u>All onmouseover handlers should have an equivalent onfocus ...</u>

All onmouseout handlers should have an equivalent onblur...

All onmousedown handlers should have an equivalent onkeydown...

All onclick handlers should have an equivalent onkeypress ...

All ondblclick handlers should have an equivalent onkey ...

select lists cannot be operated from the keyboard if they have...

onkey handlers on static elements like div and span cannot...

This form automatically submits when focus changes making it...

This element uses JavaScript to behave like a link. Links like...

This field removes focus when tabbed to making it impossible...

2.2 Enough Time

2.2.1 A Timing Adjustable - 3 rules

Do not use the meta tag to automatically refresh a page as...

Do not use meta refresh with a non-zero timeout to automatically...

<u>Do not use the Refresh HTTP header to automatically refresh a...</u>

2.2.2 A Pause, Stop, Hide - 8 rules

<u>Don't use CSS animations that run for more than 5 seconds</u> without...

Scrolling marquee text is very hard to read for low vision...

The blink element can trigger epileptic seizures and cause...

Avoid animated images over 5 seconds long that can't be paused...

Avoid using Flash movies that run for more than 5 seconds and...

A video plays longer than 5 seconds, without a way to pause it.

CSS has been used to make an element blink, and there's no way...

This page uses script to create a blinking effect.

2.2.3 AAA No Timing - No rules

2.2.4 AAA Interruptions - 2 rules

Do not use the meta tag to automatically refresh a page as...

Do not use meta refresh with a non-zero timeout to automatically...

2.2.5 AAA Re-authenticating - No rules

2.3 Seizures

2.3.1 A Three Flashes or Below Threshold - 1 rule

Web pages must not contain large images that flash more than...

2.3.2 AAA Three Flashes - 1 rule

Web pages must not contain any images that flash more than three...

2.4 Navigable

2.4.1 A Bypass Blocks - 3 rules

<u>iframe</u> and <u>frame</u> elements must have <u>title</u> attributes. Frame title must not be the same as the frame src file

name.

This skip link is broken. The target anchor does not exist or...

2.4.2 A Page Titled - 4 rules

Document must have a title.

Document title must not be blank.

<u>Document title must not contain placeholder text like</u> 'Untitled'...

Some pages have the same title, so the title cannot be used...

2.4.3 A Focus Order - 1 rule

The tab order does not follow logical sequences on the page.

2.4.4 A Link Purpose (In Context) - 4 rules

<u>Provide redundant text links for each active region of a server-side...</u>

Each a element must contain text or an img with an alt...

Link uses general text like 'Click Here' with no surrounding...

Using alt text which duplicates link text in the same link...

2.4.5 AA Multiple Ways - 1 rule

Provide information about the general layout of a site using...

2.4.6 AA Headings and Labels - 4 rules

Headings should not be empty.

The label element is blank.

Form field labels should be unique on a page, or enclosed in...

Radio buttons with very generic labels need to be enclosed in...

2.4.7 AA Focus Visible - 2 rules

This field removes focus when tabbed to making it impossible...

The CSS outline or border style on this element makes it difficult...

2.4.8 AAA Location - No rules

2.4.9 AAA Link Purpose (Link Only) - 4 rules

Each a element must contain text or an img with an alt ...

Link uses general text like 'Click Here' which doesn't explain...

Several links on a page share the same link text, but go to different...

Using alt text which duplicates link text in the same link...

2.4.10 AAA Section Headings - 1 rule

Each section of content should begin with a heading element (h1,...

3.1 Readable

3.1.1 A Language of Page - 1 rule

Use the lang attribute to identify the language of the page.

3.1.2 AA Language of Parts - 1 rule

Phrases in a different language should be in a span or div ...

- 3.1.3 AAA Unusual Words No rules
- 3.1.4 AAA Abbreviations 1 rule

Specify the expansion of each abbreviation or acronym in a document...

3.1.5 AAA Reading Level - 1 rule

This page is hard to read for users with learning disabilities...

3.1.6 AAA Pronunciation - No rules

3.2 Predictable

3.2.1 A On Focus - 2 rules

The page shows a popup when the page is loaded. This field removes focus when tabbed to making it impossible...

3.2.2 A On Input - 3 rules

select lists cannot be operated from the keyboard if they have...

This form automatically submits when focus changes making it...

This element uses JavaScript to launch a new window without warning...

- 3.2.3 AA Consistent Navigation No rules
- 3.2.4 AA Consistent Identification No rules
- **3.2.5 AAA** Change on Request 8 rules

Do not use the meta tag to automatically refresh a page as...

Do not use meta refresh with a non-zero timeout to automatically...

Avoid specifying a new window as the target of a link with

Avoid specifying a new window as the target of a link using ...

This input control submits the form when the user tabs out of it.

The page shows a popup when the page is loaded.

Do not popup windows as users enter text into input fields.

This page uses script to periodically refresh the entire page...

3.3 Input Assistance

- 3.3.1 A Error Identification No rules
- 3.3.2 A Labels or Instructions 2 rules

All fieldset elements should be labeled with legend elements.

A group of phone numbers fields needs a label or instructions...

3.3.3 AA Error Suggestion - No rules

- **3.3.4 AA** Error Prevention (Legal, Financial, Data) No rules
- 3.3.5 AAA Help No rules
- 3.3.6 AAA Error Prevention (All) No rules

4.1 Robust

4.1.1 A Parsing - 180 rules

This page has markup errors, causing screen readers to miss ...

This page has duplicate IDs which cause problems in screen r...

The element form must not appear as a descendant of the form...

The element progress must not appear as a descendant of the...

The element meter must not appear as a descendant of the meter...

The element dfn must not appear as a descendant of the dfn ...

The element noscript must not appear as a descendant of the...

The element label must not appear as a descendant of the label ...

The element address must not appear as a descendant of the...

The element section must not appear as a descendant of the...

The element nav must not appear as a descendant of the address ...

The element <u>article</u> must not appear as a descendant of the...

The element header must not appear as a descendant of the header...

The element header must not appear as a descendant of the footer...

The element header must not appear as a descendant of the address ...

The element footer must not appear as a descendant of the header...

The element footer must not appear as a descendant of the footer...

The element header must not appear as a descendant of the dt...

The element footer must not appear as a descendant of the dt...

The element article must not appear as a descendant of the...

The element nav must not appear as a descendant of the dt...

The element section must not appear as a descendant of the...

The element h1 must not appear as a descendant of the dt...

The element h2 must not appear as a descendant of the dt...

The element h3 must not appear as a descendant of the dt ...

The element h4 must not appear as a descendant of the dt...

The element h5 must not appear as a descendant of the dt...

The element h6 must not appear as a descendant of the dt...

The element hgroup must not appear as a descendant of the dt...

The element header must not appear as a descendant of the th...

The element footer must not appear as a descendant of the th...

The element <u>article</u> must not appear as a descendant of the...

The element nav must not appear as a descendant of the th...

The element section must not appear as a descendant of the...

The element h1 must not appear as a descendant of the th...

The element h2 must not appear as a descendant of the th...

The element h3 must not appear as a descendant of the th...

The element h4 must not appear as a descendant of the th...

The element h5 must not appear as a descendant of the th...

The element h6 must not appear as a descendant of the th...

The element hgroup must not appear as a descendant of the th...

The element footer must not appear as a descendant of the address ...

The element h1 must not appear as a descendant of the address...

The element h2 must not appear as a descendant of the address...

The element h3 must not appear as a descendant of the address...

The element h4 must not appear as a descendant of the address ...

The element h5 must not appear as a descendant of the address...

The element h6 must not appear as a descendant of the address ...

The element table must not appear as a descendant of the caption...

The element a must not appear as a descendant of the a e...

The element a must not appear as a descendant of the button ...

The element button must not appear as a descendant of the a...

The element button must not appear as a descendant of the button...

The element details must not appear as a descendant of the...

The element details must not appear as a descendant of the...

The element embed must not appear as a descendant of the a...

The element embed must not appear as a descendant of the button...

The element iframe must not appear as a descendant of the a...

The element iframe must not appear as a descendant of the button...

The element label must not appear as a descendant of the a...

The element label must not appear as a descendant of the button ...

The element select must not appear as a descendant of the a...

The element select must not appear as a descendant of the button ...

The element textarea must not appear as a descendant of the...

The element textarea must not appear as a descendant of the...

The element main must not appear as a descendant of the a...

The element main must not appear as a descendant of the address ...

The element main must not appear as a descendant of the article...

The element main must not appear as a descendant of the aside ...

The element main must not appear as a descendant of the audio ...

The element main must not appear as a descendant of the blockquote ...

The element main must not appear as a descendant of the canvas ...

The element main must not appear as a descendant of the caption ...

The element main must not appear as a descendant of the dd...

The element main must not appear as a descendant of the del ...

The element main must not appear as a descendant of the details ...

The element main must not appear as a descendant of the dialog ...

The element main must not appear as a descendant of the dt...

The element main must not appear as a descendant of the fieldset...

The element main must not appear as a descendant of the figure ...

The element main must not appear as a descendant of the footer...

The element main must not appear as a descendant of the header ...

The element main must not appear as a descendant of the ins...

The element main must not appear as a descendant of the li...

The element main must not appear as a descendant of the main ...

The element main must not appear as a descendant of the map ...

The element main must not appear as a descendant of the nav ...

The element main must not appear as a descendant of the noscript...

The element main must not appear as a descendant of the object...

The element main must not appear as a descendant of the section ...

The element main must not appear as a descendant of the slot ...

The element main must not appear as a descendant of the td...

The element main must not appear as a descendant of the th...

The element main must not appear as a descendant of the video ...

The a element must not appear as a descendant of an element...

The a element must not appear as a descendant of an element...

The button element must not appear as a descendant of an element...

The button element must not appear as a descendant of an element...

The details element must not appear as a descendant of an element...

The details element must not appear as a descendant of an element...

The embed element must not appear as a descendant of an element...

The embed element must not appear as a descendant of an element...

The iframe element must not appear as a descendant of an element...

The iframe element must not appear as a descendant of an element...

The label element must not appear as a descendant of an element...

The label element must not appear as a descendant of an element...

The select element must not appear as a descendant of an element...

The select element must not appear as a descendant of an element...

The textarea element must not appear as a descendant of an...

The textarea element must not appear as a descendant of an...

An element with the attribute tabindex must not appear as a...

An element with the attribute tabindex must not appear as a...

The audio element with the attribute controls must not appear...

The audio element with the attribute controls must not appear...

The img element with the attribute usemap must not appear...

The img element with the attribute usemap must not appear...

The input element must not appear as a descendant of an element...

The input element must not appear as a descendant of an element...

The menu element with the attribute toolbar must not appear...

The menu element with the attribute toolbar must not appear...

The object element with the attribute usemap must not appear...

The object element with the attribute usemap must not appear...

The video element with the attribute controls must not appear...

The video element with the attribute controls must not appear...

An element with role=button must not appear as a descendant...

An element with role=button must not appear as a descendant...

An element with role=checkbox must not appear as a descendant...

An element with role=checkbox must not appear as a descendant...

An element with role=combobox must not appear as a descendant...

An element with role=combobox must not appear as a descendant...

An element with role=grid must not appear as a descendant of...

An element with role=grid must not appear as a descendant of...

An element with role=gridcell must not appear as a descendant...

An element with role=gridcell must not appear as a descendant...

An element with role=listbox must not appear as a descendant...

An element with role=listbox must not appear as a descendant...

An element with role=menu must not appear as a descendant of...

An element with role=menu must not appear as a descendant of...

An element with role=menubar must not appear as a descendant...

An element with role=menubar must not appear as a descendant...

An element with role=menuitem must not appear as a descendant...

An element with role=menuitem must not appear as a descendant...

An element with role=menuitemcheckbox must not appear as a...

An element with role=menuitemcheckbox must not appear as a...

An element with role=menuitemradio must not appear as a descendant...

An element with role=menuitemradio must not appear as a descendant...

An element with role=option must not appear as a descendant...

An element with role=option must not appear as a descendant...

An element with role=radio must not appear as a descendant...

An element with role=radio must not appear as a descendant...

An element with role=scrollbar must not appear as a descendant...

An element with role=scrollbar must not appear as a descendant...

An element with role=searchbox must not appear as a descendant...

An element with role=searchbox must not appear as a descendant...

An element with role=slider must not appear as a descendant...

An element with role=slider must not appear as a descendant...

An element with role=spinbutton must not appear as a descendant...

An element with role=spinbutton must not appear as a descendant...

An element with role=switch must not appear as a descendant...

An element with role=switch must not appear as a descendant...

An element with role=tab must not appear as a descendant of...

An element with role=tab must not appear as a descendant of...

An element with role=textbox must not appear as a descendant...

An element with role=textbox must not appear as a descendant...

An element with role=treeitem must not appear as a descendant...

An element with role=treeitem must not appear as a descendant...

An element with role=cell must be contained in, or owned by,...

An element with role=option must be contained in, or owned...

An element with role=menuitem must be contained in, or owned...

An element with role=menuitemcheckbox must be contained in,...

An element with role=menuitemradio must be contained in, or...

An element with role=tab must be contained in, or owned by,...

An element with role=treeitem must be contained in, or owned...

An element with role=listitem must be contained in, or owned...

An element with role=gridcell must be contained in, or owned...

An element with role=columnheader must be contained in, or...

An element with role=rowheader must be contained in, or owned...

An element with role=row must be contained in, or owned by,...

An element with role=rowgroup must be contained in, or owned...

HTML5 Parse Error.

4.1.2 A Name, Role, Value - 16 rules

<u>iframe</u> and <u>frame</u> <u>elements must have title</u> <u>attributes.</u>

<u>Frame title</u> <u>must not be the same as the frame src file</u> name.

label elements should be attached to the controls they label.

The label element is blank.

Each a element must contain text or an img with an alt ...

This image has been updated without updating the alt attribute...

This element uses JavaScript to make a div or span behave like...

This form control has no label and no programmatically determined...

The <u>aria-labelledby</u> attribute references a non-existent <u>element...</u>

The aria-labelledby attribute references a blank element.

This form control has a blank label or title.

This input button has no value attribute and no programmatically...

This button element is empty and has no programmatically determined...

Flash 6 and earlier does not expose the focus location to screen...

All fields in a group of input fields (for example phone numbers)...

This page has a Flash movie which references Flash version 5...