

The background features a detailed illustration of a scorpion, rendered in a light, textured style. The scorpion is positioned centrally, facing right. Overlaid on the entire image are faint, light-colored contour lines and numerical values, such as 310, 320, 330, 340, 350, 360, 370, 380, 390, and 400, which create a topographic or technical drawing effect.

WEB CONTENT ACCESSIBILITY GUIDELINES(WCAG)

COLO**R** **CO**NT**R**AST

The background features a detailed illustration of a scorpion, rendered in a light, textured style. The scorpion is positioned diagonally across the frame, with its head at the top right and its tail at the bottom left. The background is a dark red color with a faint, light-colored topographic map overlay, showing contour lines and numerical values such as 310, 320, 330, 340, 350, 360, 370, 380, 390, and 400.

WCAG LEVELS OF CONFORMANCE

A - AA - AAA

The background features a detailed illustration of a lobster, rendered in a light, sketch-like style. The lobster is positioned diagonally, facing towards the upper right. Overlaid on this illustration are faint, light-colored contour lines and numerical values, such as 310, 320, 330, 340, 350, 360, 370, 380, 390, and 400, which suggest a topographical or depth map. The overall color palette is a monochromatic, muted reddish-brown.

WCAG LEVELS OF CONFORMANCE

A - The minimum level of conformance that satisfies all Level A Success Criteria

AA - Satisfies all level A & AA conformance. Usually conform to Level AA

AAA - Satisfies **ALL** A, AA, & AAA conformance levels

There is more than just levels regarding requirements for conformance to WCAG

<https://www.w3.org/TR/UNDERSTANDING-WCAG20/conformance.html>

SUCCESS CRITERION 1.4.1

USE OF COLOR — LEVEL A

IF THE COLOR OF PARTICULAR WORDS, BACKGROUNDS, OR OTHER CONTENT IS USED TO INDICATE INFORMATION:

- Ensure that information conveyed by color differences are also available in text
 - error indicators in red, SVG diagram with text alternative elements
- Include a text cue for colored form control labels
 - red delete button, green submit/save button, required form fields
- Ensure that additional visual cues are available when text color differences are used to convey information.
 - Links, subway maps, color coded schedule

<https://www.w3.org/WAI/WCAG21/quickref/?showtechniques=141%2C143#use-of-color>

SUCCESS CRITERION 1.4.1

USE OF COLOR — LEVEL A

IF THE COLOR IS USED WITHIN AN IMAGE TO CONVEY INFORMATION:

- Using color or pattern
 - bar graphs/charts and legends
- Ensuring that information conveyed by color differences is also available in text
 - color-coded schedule with icons
 - asterisks for required form fields in red

<https://www.w3.org/WAI/WCAG21/quickref/?showtechniques=141%2C143#use-of-color>

SUCCESS CRITERION 1.4.1

USE OF COLOR — LEVEL A

BENEFITS

- Users with partial sight and/or limited color vision
- Older users who may not see color well
- Users with color-deficiencies (“color-blindness”)
- Text-only, limited color, or monochrome display users
- Users who have trouble distinguishing between colors
- People using Braille-display or other tactile interfaces

<https://www.w3.org/WAI/WCAG21/Understanding/use-of-color.html>

SUCCESS CRITERION 1.4.3

CONTRAST(MINIMUM) — LEVEL AA

- **TEXT IS < 18 PT (24 PX) IF NOT BOLD & < 14 PT (18.6666666666666664 PX) IF BOLD**
 - Ensure that a contrast ratio of at least **4.5 to 1** exists between text (and images of text) and background behind the text
 - Not specifying background color, text color, and not using technology features that change those defaults
 - The author does not specify text color nor background, and does not use CSS.
 - User can override browser defaults for colors and contrasts that work for the user
 - Providing a control with a sufficient color contrast ratio that allows users to switch to a presentation that uses sufficient contrast
 - A page with headings that do not meet the **3 to 1** contrast requirements has a high contrast **(5 to 1)** link at the top of the page that takes the user to a new version of the page with the minimum **4.5 to 1** ratio all text and images of text
 - Providing a style switcher to switch to High Contrast Mode

<https://www.w3.org/WAI/WCAG21/quickref/?showtechniques=141%2C143#contrast-minimum>

SUCCESS CRITERION 1.4.3 CONTRAST(MINIMUM) — LEVEL AA

- **TEXT IS AT LEAST 18 PT IF NOT BOLD & < 14 PT IF BOLD**
 - Ensure that a contrast ratio of at least **3 to 1** exists between text (and images of text) and background behind the text
 - Other sufficient techniques that are the same as previous slide

<https://www.w3.org/WAI/WCAG21/quickref/?showtechniques=141%2C143#contrast-minimum>



SUCCESS CRITERION 1.4.3

CONTRAST(MINIMUM) — LEVEL AA

- **BENEFITS**

- People with low vision who have difficulty reading text that does not have sufficient contrast with its background
- People with color deficiencies (Achromatopsia, Tritanopia, etc.)

**[https://www.w3.org/WAI/WCAG21/
Understanding/contrast-minimum.html](https://www.w3.org/WAI/WCAG21/Understanding/contrast-minimum.html)**

SUCCESS CRITERION 1.4.5

IMAGES OF TEXT — LEVEL AA

- **OTHER TECHNIQUES MAY ALSO BE SUFFICIENT IF THEY MEET THE SUCCESS CRITERION**

- Using CSS to control visual presentation of text
 - Using font-family, text-align, font-size to control text
- Using CSS to replace text with images of text and providing UI controls to switch
 - Using a style switcher to present home page in two different ways
 - Default home page uses images of text instead of heading text
 - Alternate version uses heading text instead of images of text

<https://www.w3.org/WAI/WCAG21/quickref/?showtechniques=141%2C143%2C145#images-of-text>

The background features a detailed illustration of a lobster, rendered in a light, textured style. Overlaid on this are faint, light-colored contour lines and numerical values (360, 350, 340, 330, 320, 310, 400, 390, 380, 370, 360, 400, 390, 400) that suggest a topographic or depth map overlay.

SUCCESS CRITERION 1.4.5

IMAGES OF TEXT — LEVEL AA

• BENEFITS

- People with low vision
- People with visual tracking problems
- People with cognitive disabilities that affect reading

<https://www.w3.org/WAI/WCAG21/Understanding/images-of-text.html>

SUCCESS CRITERION 1.4.6 CONTRAST(ENHANCED) — LEVEL AAA

- **IF TEXT IS < 18 PT IF NOT BOLD & < 14 PT IF BOLD**
 - Ensure that a contrast ratio of at least **7 to 1** exists between text (and images of text) and background behind the text (should be minimum to strive for **OR 10 to 1**)
 - Other situations and sufficient techniques same as SC 1.4.3 *Contrast(Minimum)*

<https://www.w3.org/WAI/WCAG21/quickref/?showtechniques=141%2C143%2C145%2C1411%2C146#contrast-enhanced>

The background features a detailed illustration of a scorpion, rendered in a light, textured style. The scorpion is positioned diagonally across the frame. Overlaid on this illustration are faint, light-colored contour lines that resemble a topographic map, with numerical values such as 360, 370, 380, 390, and 400 scattered across the background.

SUCCESS CRITERION 1.4.6

CONTRAST(ENHANCED) — LEVEL AAA

BENEFITS

- People with low vision who have difficulty reading text that does not have sufficient contrast with its background
- People with color deficiencies (Achromatopsia, Tritanopia, etc.)

<https://www.w3.org/WAI/WCAG21/Understanding/contrast-enhanced.html>

SUCCESS CRITERION 1.4.9

IMAGES OF TEXT(NO EXCEPTION) — LEVEL AAA

- **OTHER TECHNIQUES MAY ALSO BE SUFFICIENT IF THEY MEET THE SUCCESS CRITERION**

- Using CSS to control visual presentation of text
 - Using font-family, text-align, font-size to control text
- Using CSS to replace text with images of text and providing UI controls to switch
 - Using a style switcher to present home page in two different ways
 - Default home page uses images of text instead of heading text
 - Alternate version uses heading text instead of images of text

<https://www.w3.org/WAI/WCAG21/quickref/?showtechniques=141%2C143%2C145%2C146%2C148%2C1411%2C149#images-of-text-no-exception>



SUCCESS CRITERION 1.4.9

IMAGES OF TEXT(NO EXCEPTION) — LEVEL AAA

• BENEFITS

- People with low vision
- People with visual tracking problems
- People with cognitive disabilities that affect reading

**[https://www.w3.org/WAI/WCAG21/Understanding/
images-of-text-no-exception.html](https://www.w3.org/WAI/WCAG21/Understanding/images-of-text-no-exception.html)**

SUCCESS CRITERION 1.4.11

NON-TEXT CONTRAST — LEVEL AA

- **OTHER TECHNIQUES MAY ALSO BE SUFFICIENT IF THEY MEET THE SUCCESS CRITERION**

- **UI component contrast**

- Using an author-supplied, highly visible focus indicator

- **Graphics with sufficient contrast**

- Ensuring that a contrast ratio of 3 to 1 is provided for icons
- Provide sufficient contrast at the boundaries between adjoining colors

- **Text in or over graphics**

- Ensuring that a contrast ratio of at least **4.5 to 1** exists between text (and images of text) and background behind the text
- Ensuring that a contrast ratio of at least **3 to 1** exists between text (and images of text) and background behind the text
- Providing a control with a sufficient contrast ratio that allows users to switch to a presentation that uses sufficient contrast

<https://www.w3.org/WAI/WCAG21/Understanding/non-text-contrast.html>



SUCCESS CRITERION 1.4.11
NON-TEXT CONTRAST — LEVEL AA

- **BENEFITS**

- People with low vision often have difficulty perceiving graphics that have insufficient contrast.

<https://www.w3.org/WAI/WCAG21/Understanding/non-text-contrast.html>



THANKS!