Focus Appearance reboot Take 2

Focus Appearance

Focus Not Obscured

Definitions [new]

encompasses

focus indicator

Focus Appearance reboot Take 3

Focus Appearance

Focus Appearance reboot Take 4

Focus Appearance

Focus Appearance reboot Take 5

Focus Appearance

Examples for assessing

Focus Appearance reboot Take 1

Working from <u>current editor's draft</u>. Goals: 1) reswizzle so focus indicator becomes measure instead of UIC; 2) as with move from Target Offset to Target Size, lead with the desired outcome and put the complexity in the exception; 3) work in exceptions for unadulterated user agent focus indicators

Focus Appearance

When the keyboard focus indicator is visible, all of the following are true:

- The focus indicator encompasses the <u>user interface component</u>
- The focus indicator has a contrast ratio of at least 3:1 against the same pixels in the unfocused states
- The indicator has a contrast ratio of least 3:1 against adjacent colors.

Exceptions:

- The focus indicator and its background color are determined by the user agent and not modified by the author, or
- The focus indicator is defined by the user-agent and cannot be adjusted by the author, or
- An area of the focus indicator, at least as large as a 4 CSS pixel thick line along the shortest side of a minimum bounding box of the unfocused component, and no thinner than 2 CSS pixels, has a contrast ratio of at least 3:1 against the same pixels in the unfocused state and against adjacent colors.

Focus Not Obscured

When a user interface component receives keyboard focus, the component is not [entirely] hidden by author-created content.

focus indicator

pixels that are changed to visually indicate when a user interface component is in a focused state.

Encompasses

Surrounds, bounds or includes the whole of

Goals: 1) update preamble based on agwg responses; 2) attempt to trim verbage; 3) polish separated Focus Not Obscured SC

Focus Appearance

When a user interface component has keyboard focus, the focus indicator:

- encompasses the user interface component
- has a contrast ratio of at least 3:1 between its pixels in the focused and unfocused states
- has a contrast ratio of at least 3:1 against adjacent colors.

Exceptions:

- The focus indicator is defined by the user-agent and cannot be adjusted by the author, or
- The focus indicator and its background color are not modified by the author, or
- An area of the focus indicator, at least as large as a 4 CSS pixel thick line along the shortest side of a minimum bounding box of the unfocused component, and no thinner than 2 CSS pixels, has a contrast ratio of at least 3:1 against the same pixels in the unfocused state and against adjacent colors.

Focus Not Obscured

When a user interface component receives keyboard focus, the component is not hidden by author-created content.

Definitions [new]

encompasses

surrounds, bounds or includes the whole of

focus indicator

pixels that are changed to visually indicate when a user interface component is in a focused state.

Goals: 1) try to allow for gradations, etc in the focus indicator

Focus Appearance

When a user interface component has keyboard focus, the focus indicator:

- encompasses the user interface component
- has a majority of pixels that contrast at least 3:1 between the focused and unfocused states
- has a contrast ratio of at least 3:1 against adjacent colors.

Exceptions:

- The focus indicator is defined by the user-agent and cannot be adjusted by the author, or
- The focus indicator and its background color are not modified by the author, or
- An area of the focus indicator, at least as large as a 4 CSS pixel thick line along the shortest side of a minimum bounding box of the unfocused component, and no thinner than 2 CSS pixels, has a contrast ratio of at least 3:1 against the same pixels in the unfocused state and against adjacent colors.

Goals: 1) friendly amendment by David MacDonald to address gradient focus indicators, by removing "majority" from take 3 and including a 4th exception for minimum size to remove ambiguity of "majority of pixels"

Focus Appearance

When a user interface component has keyboard focus, the focus indicator:

- encompasses the user interface component
- has a contrast at least 3:1 between the focused and unfocused states
- has a contrast ratio of at least 3:1 against adjacent colors.

Exceptions:

- The focus indicator is defined by the user-agent and cannot be adjusted by the author, or
- The focus indicator and its background color are not modified by the author,
- The focus indicator is at least as large as a 4 CSS pixel thick line along the shortest side of a minimum bounding box of the unfocused component, and no thinner than 2 CSS pixels, has a contrast ratio of at least 3:1 against the same pixels in the unfocused state and against adjacent colors, or
- The focus indicator is at least the area of a 1 CSS pixel thick perimeter of the unfocused component and has a contrast ratio of at least 3:1 against the same pixels in the unfocused state and against adjacent colors.

Goals: 1) an attempt to simplify the 3rd bullet exception to accommodate a focus indicator that includes but is not just comprised of a contrasting 1 css pixel perimeter

Focus Appearance

When a user interface component has keyboard focus, the focus indicator:

- encompasses the <u>user interface component</u>
- has a contrast at least 3:1 between the focused and unfocused states
- has a contrast ratio of at least 3:1 against adjacent colors.

Exceptions:

- The focus indicator is defined by the user-agent and cannot be adjusted by the author, or
- The focus indicator and its background color are not modified by the author,
- An area of the focus indicator is at least as large as a 1 CSS pixel minimum bounding box of the unfocused component, and has a contrast ratio of at least 3:1 against the same pixels in the unfocused state and against adjacent colors

Examples for assessing

https://alastairc.uk/tests/wcag22-examples/focus-more-visible-6.html

Key things we are looking for:

- Decorative effects (box shadows on the component, gradients on the indicators) do not create loopholes or over-burden.
- Non-outline approaches can still work if they are thick & contrasting.
- A short-thick indicator on one side doesn't fail depending on the amount of text in a button.
- The user's perception of where the focus should be is key (i.e. it applies to active-descendant type controls).
- Flipping colours can still work (e.g. changing a button with white background & black text to black background and white text).

Primary = the first part of version 2 of the SC text above. Exception = any of the exceptions.

The exception for sizing is: "An area of the focus indicator, at least as large as a 4 CSS pixel thick line along the shortest side of a minimum bounding box of the unfocused component, and no thinner than 2 CSS pixels, has a contrast ratio of at least 3:1 against the same pixels in the unfocused state and against adjacent colors."

Example (not-focused / focused)	Pass primary?	Pass exception?	Notes
Default button in FF: Button, Button,	N	Y	The border changes from grey to blue (1.3:1), and is 1px thicker. I don't think that would meet the adjacent color clause. Passes as it is the un-altered browser default.
Select drop-down in focus: :Please choose an option :Please choose an option .	Y	Y	Change of contrast (grey to black) of >4:1.
Select>option in focus: :Please choose an option Please choose an option Dog : Dog Please choose an option Dog FF:	Y	Y	Note that this isn't style-able, so passes the user-agent exception.

Example (not-focused / focused)	Pass primary?	Pass exception?	Notes
✓Please choose an option Dog			
Dark-background button in Edge: Button, Button,	N	N	Subtle change of border color is practically invisible. Background of focus indicator changed, therefore doesn't fit exception. NB: The location of focus indicators varies between browsers, some put it around the item (outline) some change border colors.
Link with white text on white background in FF:	N	N	Changing the color of the text has changed the color of the focus indicator to match the background (which is not changed).
Extreme border-radius in Edge: Border radius , Border radius ,	N	Y	No change of focus indicator or background color from the default, just use of border-radius.
Box shadow, 1px white outline: Box-shadow , Box-shadow ,	Y?	Y	If "encompasses" excludes decorative content like shadows, this passes. Otherwise it would have to fall through to the exception, where for a 89x21px button + 5px box-shadow = 250px. 4 x 31px = 124px, therefore pass.
Inner outline, Inner outline,	N	Y	93 x 35px button with outline-offset of -5px, so (93-10) + (35-10) * 2 = 216. The exception requires 4 * 25 = 140px area. Pass.

Example (not-focused / focused)	Pass primary?	Pass exception?	Notes
Circle with 1px black border, outset by 1px; Border radius, Border radius	Y	N	Encompassing should work here for a 1px offset outline; Diameter of 80px, so the exception would require 80px * 4 = 320px. Perimeter = Pie * D+2, = 257px It is an unusual case of the maths making this pass the primary clause, but fail the exception. A 1px outline without adjacent contrast would fail.
Border radius , a Border radius , a	Y	Y	Black outline contrasts with the grey border, so has adjacent contrast. When the button is wider and less radius it does pass the exception as well. Button is 98x32px, the straight lines are 80px wide and verticals must be over 32px therefore totals >224px area. 4 * 32 = 128.
2px non-contrasting outline: 2px outline 2px outline	N	Y	Doesn't pass the adjacent color requirement. Plenty of surface area and meets the exception.
Thin control ,	N	Y	Matches the min requirement
Square , Square , control	N	Y	Matches the min requirement
<u>i</u> , <u>i</u> ,	N	Y	Matches the min requirement

Example (not-focused / focused)	Pass primary?	Pass exception?	Notes
Color reversal	N	Y	Way more than 4px in width.
Text moves . Text moves .	N	N	The text moves 4px to the right, within the component. You could compare the pixels and check the thickness, but I think this fails (and should fail!).
Massively expanded button area beyond the visual area. This button fails numed proposed Front Appearance SC because the author dared to try and make a clidable area much larger than the apparent visual size of the button. This button fails numeral proposed Front Appearance SC because the author dared to by and make a clidable area much larger than the apparent visual size of the button.	Y?	Y	Assume that the outline has contrast, the key to this example is that the visible button is way smaller than the actual button and hit-area. If encompasses is tied to the UIC definition (based on perception), then I think this would pass. #UIC-SIzing
Art Visually Above Heading This looks perfect. Just Photoshop out the dog, add a baby, and make the curtains blue. There are more projects lined up; charge extra the next time. Can you make the logo bigger? Yes, bigger. Bigger still. The logo is too big. Art Visually Above Heading This looks perfect. Just Photoshop out the dog, add a baby, and make the curtains blue. There are more projects lined up; charge extra the next time. Can you make the logo bigger? Yes, bigger. Bigger still. The logo is too big.	Y	Y	In the HTML the blue text is the link, and the outline goes around the parent. This version should pass (with contrast) both.

Example (not-focused / focused)	Pass primary?	Pass exception?	Notes
Art Visually Above Heading This looks perfect. Just Photoshop out the dog, add a baby, and make the curtains blue. There are more projects lined up; charge extra the next time. Can you make the logo bigger? Yes, bigger. Bigger still. The logo is too big. Art Visually Above Heading This looks perfect. Just Photoshop out the dog, add a baby, and make the curtains blue. There are more projects lined up; charge extra the next time. Can you make the logo bigger? Yes, bigger. Bigger still. The logo is too big.	Y?	Y?	If you take the blue text as the UIC, this passes. If you were taking the whole card as the UIC, I don't think it passes either. I think this is ok if we allow the focus indicator to be a hint as to what the UIC is. #UIC-SIzing
Input with expanded focus/select styling: Test 1 Additional text goes here more into. More text could go here to further explain this particular thing.	Y	Y	You could take either the circle (radio button) or the box as the UIC, and it still works. #UIC-SIzing
Combined control, both the box and the arrow work to expand the accordion. Product name 90 n/a > Product name 90 n/a >	Y?	Y	For sizing, there are multiple interpretations of what the UIC could be. For example, using the arrow on the right does the same function as the button on the left, and mousing over the arrow highlights the button. However, if you are guided by what 'thing' is associated with the focus indicator, then it is clearly the button. #UIC-SIzing (The black outline does contrast with with the grey border.)
Selectable table rows Name	N	Y	The 'thing' which gains focus is a hidden radio button, but it is the row that highlights focus. The links are separately focusable, but visually nested inside the row. Doesn't pass the adjacent sizing, but plenty of area & 2px thickness for the sizing exception.

Example (not-focused / focused)	Pass primary?	Pass exception?	Notes
			#UIC-SIzing
ARIA checkboxes My custom checkbox My custom checkbox	Y	Y	There is no default-interactive control, it is using attributes & aria to create checkboxes.
Separated focus indicator: Markus Chloe currently signed in Ash	Y	Y	When you first focus on the radio buttons there is no 'selection' indicator, the focus indicator is the dark area to the right of the radio buttons. Again, if you consider the focus indicator a guide to the 'thing', then this as a UIC passes. #UIC-SIzing
ARIA grid items: Date Type Description 01-Jan-16 Deposit Cash Deposit 02-Jan-16 Debit Down Town Grocery 03-Jan-16 Debit Hot Coffee 04-Jan-16 Debit The Filling Station	Y	Y	The indicator is 3px thick dotted, which is 50% of a solid line, so 50% more than a 1px solid outline. The whole table does not show focus, but each item within it does (like a radio button group). #UIC-SIzing
ARIA combobox State Wyoming State Wyoming V State Alaska Alabama Alaska	Y	Y	The component (text input) gets focus, but typing anything and arrowing down highlights an option (with a 2px thick outline).
ARIA menu	Υ	Υ	The 'component' doesn't get focus at all, it's the descendant elements.

Example (not-focused / focused)	Pass primary?	Pass exception?	Notes
Home About ▼ Admissions ▼ Home About ▲ Admissions ▼ Acad Overview Home Administration Facts ▶ d			
Google docs tooltips: Print (%P)	Y	Y	Not a traditional indicator, but plenty of size & visibility. (Note that some you need to arrow to, rather than tab.)
ARIA treegrid **R: Trengride are awares. Type are great for showing a tot of dat	Υ	Υ	The 'component' doesn't get focus at all, it's the descendant elements.