

# WCAG 2.2



What's coming

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Carolyn Shannon  
DrupalCamp Colorado 2020

# I am not Laura Ingalls Wilder

Grew up in the  
Midwestern US

Have siblings



image: two young girls in early-American-style bonnets

# Carolyn Shannon

Manager of Technical  
Documentation @ [Pantheon](#)

12+yr Drupalista

[@chicagomom](#) 

She/her pronouns



image: profile image of presenter Carolyn Shannon

# Identity, Context, Features

We make assumptions  
about the features of  
those who use  
our sites and content



image: two young girls in early-American-style bonnets

## Who is this talk for?

- Building, migrating, upgrading a site or UI
- Care about accessibility
- Want to expand your user base
- Compliance needs

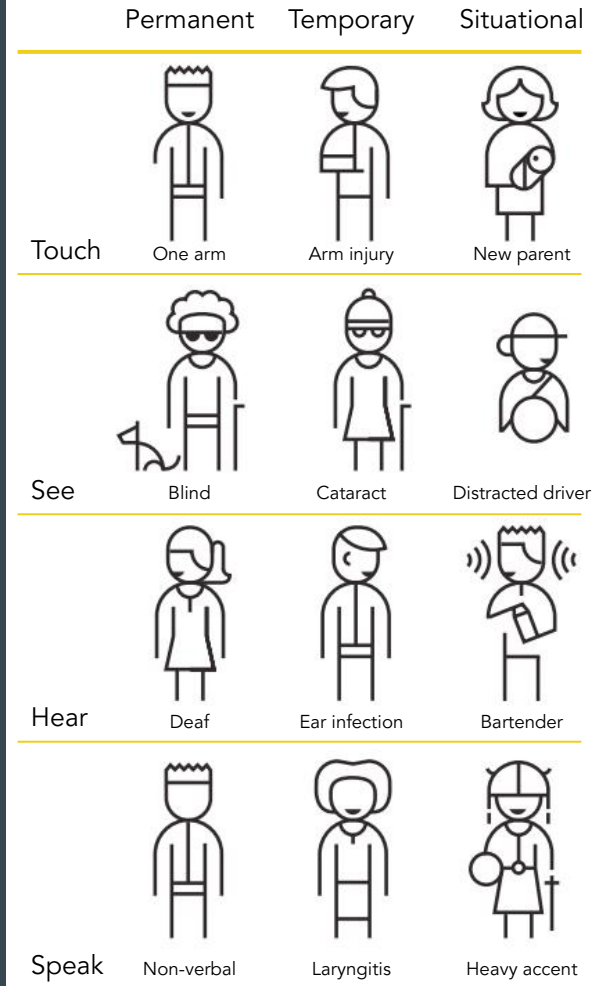


# accessibility targets in WCAG 2.2

- cognitive and learning
- low vision
- disabilities using mobile applications

People with learning and cognitive disabilities have accessibility challenges using certain types of website/application controls and interfaces.

image: chart with people figures illustrating disability types speak, hear, see, touch, and categories permanent, temporary, situational



M1 +



image: knitting on a knitting needle, with increases that shape the fabric

# Overview of W3C WCAG

World Wide Web Consortium

Web Content Accessibility Group

Accessibility Guidelines Working  
Group (AG WG)

- Current version: 2.1
- Conformance levels A, AA, AAA

**Perceivable**

**Operable**

**Understandable**

**Robust**



# WCAG Recommendations Roadmap

- Nothing new will be added. Some things may be removed.
- Working Draft
- **Wide Review Working Draft - Aug 2020**
- Candidate Recommendation
- Proposed Recommendation
- W3C Recommendation - mid-2021

# Key documents

- [WCAG 2.2 Guidelines](#) (working draft, for wide review 11 Aug 2020)
  - [Overview blog post](#) | w3.org
  - [Making Content Usable for People with Cognitive and Learning Disabilities](#) | Working Draft Note 17 Jul 2020
  - [COGA TF Gap Analysis](#)
- 

Submit comments through 18 Sep 2020

- via GitHub issue - <https://github.com/w3c/wcag/issues>
- via email - [public-agwg-comments@w3.org](mailto:public-agwg-comments@w3.org)

# Overview of WCAG 2.2

## Nine new success criteria

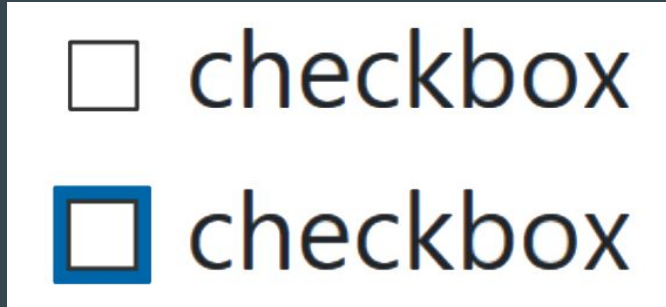
- 2.5.7 Dragging
- 2.5.8 Pointer Target Spacing
- 2.4.11 Focus Appearance (Minimum)
- 2.4.12 Focus Appearance (Enhanced)
- 2.4.13 Fixed Reference Points
- 3.2.6 Findable Help
- 3.2.7 Hidden Controls
- 3.3.7 Accessible Authentication
- 3.3.8 Redundant Entry

## One criteria promoted

- 2.4.7 Focus Visible promoted from Level AA to Level A

# Focus Visible

Purpose: Make it easier to know where you are when using keyboard navigation

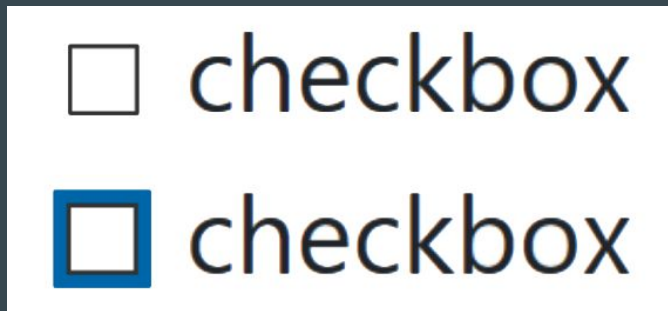


Level A [promoted]  
[Success Criterion 2.4.7](#)

Any keyboard operable user interface has a mode of operation where the keyboard focus indicator is visible.

# Focus Appearance (Minimum)

Purpose: Make it easier to see which component has focus



WCAG 2.2 Draft

Level AA [new]

[Success Criterion 2.4.11](#)

For the keyboard focus indicator of each UI Component, all of the following are true:

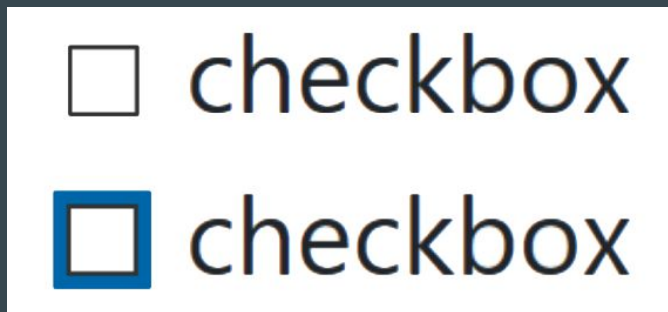
Minimum area:  $\geq 1$  CSS px

Change of contrast: at least 3:1

Unobscured: item with focus is not entirely hidden by author-created content.

# Focus Appearance (Enhanced)

Purpose: Make component that has focus **highly** visible



WCAG 2.2 Draft

Level AAA [new]

[Success Criterion 2.4.12](#)

For the keyboard focus indicator of each UI Component, all of the following are true:

Minimum area:  $\geq 2$  CSS px

Change of contrast: at least 4.5:1

Unobscured: item with focus is not entirely hidden by author-created content.

# Fixed Reference Points

Purpose: On e-pubs, page links exist and the table of contents links always point to the same locator.

```
<nav role="doc-pagelist" aria-labelledby="pglist">
```

```
<span id="pg1" role="doc-pagebreak" aria-label="page 1">
```

EPUB 2 and DAISY 3

```
<nav epub:type="page-list" role="doc-pagelist" aria-labelledby="pglist">
```

Level A

## Success Criterion 2.4.13

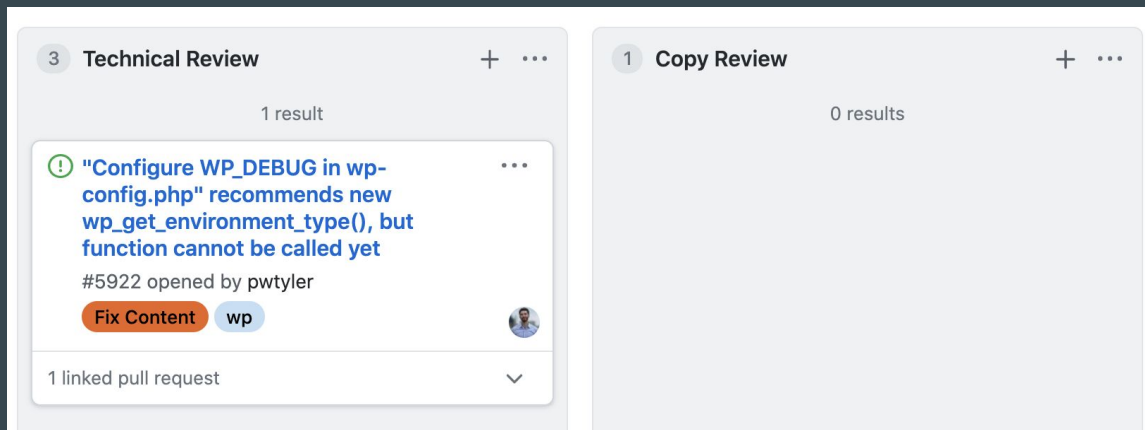
For e-publications with pagebreak locators,

- a mechanism is available to navigate to each locator
- locator maintains its place in the flow of content, even when the formatting or platform change.
- Page numbers can change, as long as page contents list enables user to **get to the right spot**.

# Dragging

Purpose: moving, re-ordering, sliders

Alternatives: click-to-move



WCAG 2.2 Draft

Level AA [new]

Success Criterion 2.5.7

Provide an alternative

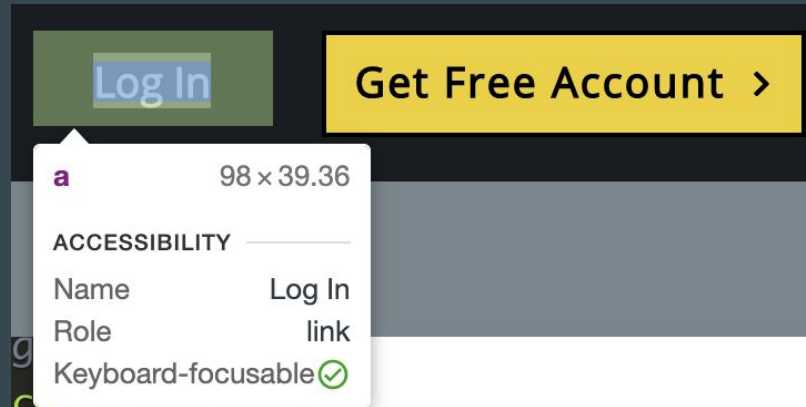
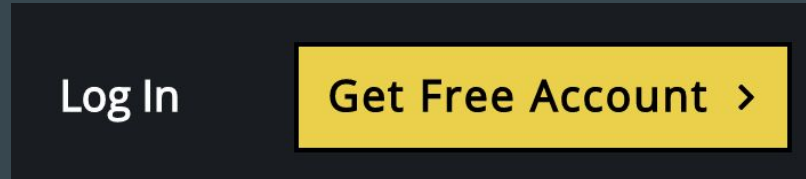
All functionality that uses a dragging movement for operation can be operated by a single pointer without dragging, unless dragging is essential.

W3C: Understanding dragging



# Pointer Target Spacing

Purpose: increase the hit/tap area of targets



Level AA [new]

[Success Criterion 2.5.8](#)

For each target, there is an area with a width and height of at least **44 CSS pixels** that includes it, and no other targets, unless

- in a block of text
- enlargeable by user

# Findable Help

Purpose: Consistent placement!



WCAG 2.2 Draft

Level A [new]

[Success Criterion 3.2.6](#)

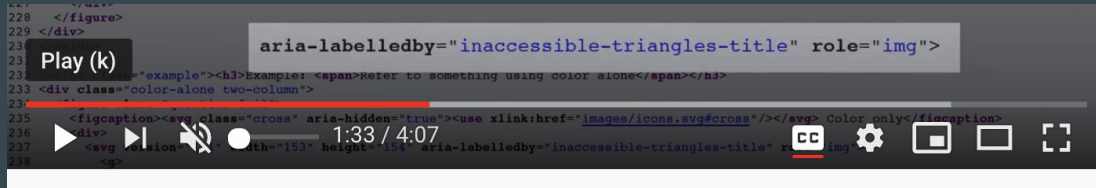
For SPAs or Web pages, if one of these is available, access to at least one option is included in the same relative order on each page:

- Human contact details;
- Human contact mechanism;
- Self-help option;
- A fully automated contact mechanism.

# Hidden Controls

Purpose: Don't hide things I need to complete the current task.

Examples: auto-hiding multimedia controls, inline edit icons



Level AA [new]

[Success Criterion 3.2.7](#)

Controls needed to progress or complete a process are visible at the time they are needed without requiring pointer hover or keyboard focus, or a mechanism is available to make them persistently visible.

# Accessible Authentication

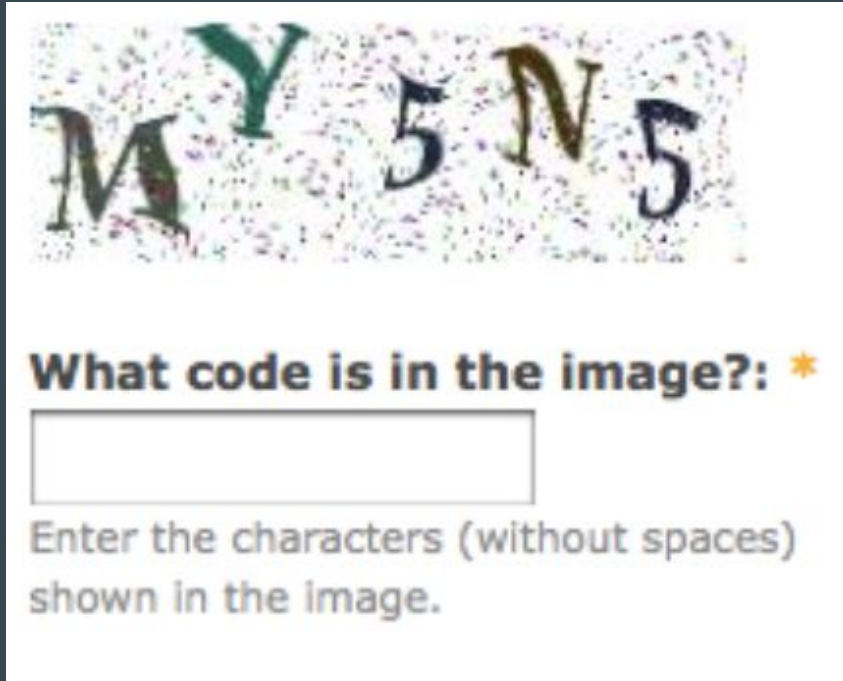
Alternatives: [Honeypot](#), [Antibot](#) (JS), 2FA, tokens, keygen, biometric

Level A [new]

[Success Criterion 3.3.7](#)

If an authentication process relies on a **cognitive function test**, at least one other method must also be available that does not rely on a cognitive function test.

- remembering a username, password, set of characters, images, or patterns
- transcription / typing in characters
- spelling, calculations, puzzles



# Redundant Entry

Purpose: Help users avoid and correct mistakes.

Examples: re-entering the same information on a multi-part form

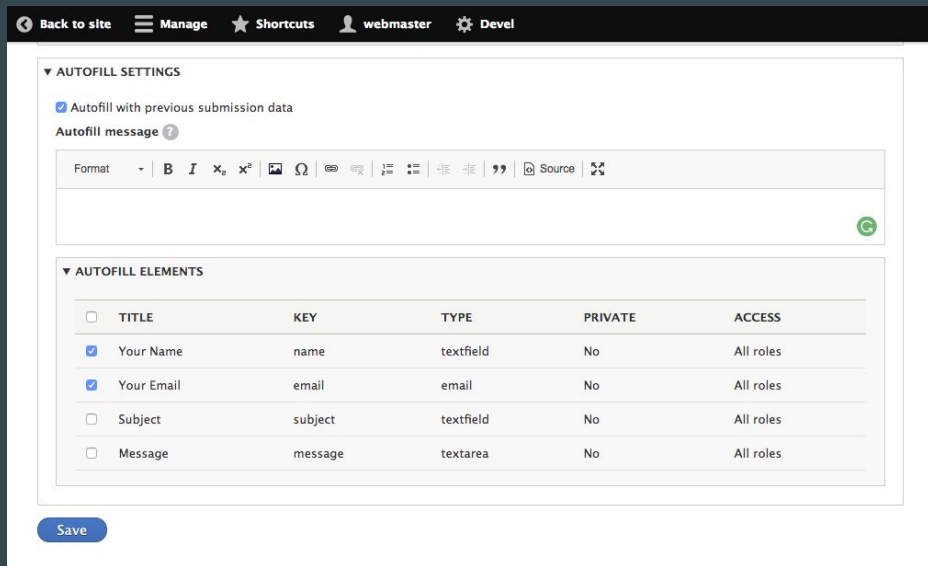
WCAG 2.2 Draft

Level A [new]

[Success Criterion 3.3.8](#)

For steps in a process, information previously entered by or provided to the user that is required on subsequent steps is either:

- auto-populated, or
- available for the user to select
- Exception: it's essential (example - re-enter password)



The screenshot shows a web application interface with a dark header bar containing navigation links: 'Back to site', 'Manage', 'Shortcuts', 'webmaster', and 'Devel'. Below the header is a section titled 'AUTOFILL SETTINGS' with a dropdown arrow. It contains a checked checkbox for 'Autofill with previous submission data' and a text area labeled 'Autofill message' with a help icon. Below this is a rich text editor toolbar with options for bold, italic, underline, strikethrough, link, unlink, bulleted list, numbered list, indent, outdent, quote, source, and fullscreen. A green circular refresh icon is on the right. The 'AUTOFILL ELEMENTS' section features a table with columns for selection, title, key, type, private status, and access.


<input type="checkbox"/>	TITLE	KEY	TYPE	PRIVATE	ACCESS
<input checked="" type="checkbox"/>	Your Name	name	textfield	No	All roles
<input checked="" type="checkbox"/>	Your Email	email	email	No	All roles
<input type="checkbox"/>	Subject	subject	textfield	No	All roles
<input type="checkbox"/>	Message	message	textarea	No	All roles

At the bottom left, there is a blue 'Save' button.

# Plan Ahead: Incorporate WCAG 2.2

The cheapest, easiest time to do accessibility work is during design and site building.

Incorporate WCAG 2.2 principles into your site design and testing now; you'll be prepared for success.



**It doesn't have to be  
perfect. It just has to be a  
little bit better than  
yesterday.**

**— Léonie Watson**



**Thank you!**

**— Carolyn Shannon**