DrupalCamp NJ: 02/02/2019

What's new in WCAG 2.1?

Hi, there!

Kara Gaulrapp

Front-end Developer at Message Agency

Accessibility Advocate

We build better brands and websites for the greater good.

Message Agency is a social enterprise that helps nonprofits use technology to enlighten, educate, engage, and enact change.

MESSAGE >> AGENCY

Certified
B
Corporation

Hi, there!

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Outline

1. Overview

2. Who was the focus?

3. How does this affect me?

4. How long do I have?

5. Breakdown and additions

1. Overview

Overview

1. WCAG 2.1 is **an extension** of WCAG 2.0

Overview

1. WCAG 2.1 is **an extension** of WCAG 2.0

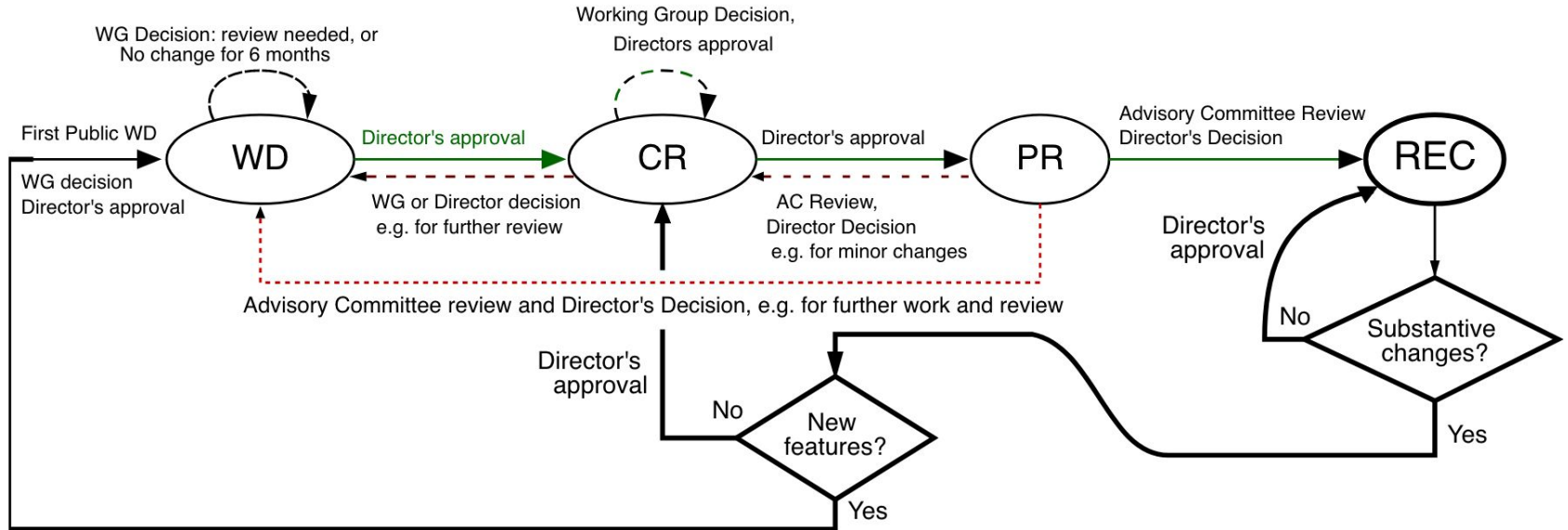2. WCAG 2.1 is an **official W3C Recommendation**

Overview

A W3C Recommendation is a Web Standard.

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Overview

1. WCAG 2.1 is **an extension** of WCAG 2.0

2. WCAG 2.1 is an **official W3C Recommendation**

Overview

1. WCAG 2.1 is **an extension** of WCAG 2.0

2. WCAG 2.1 is an **official W3C Recommendation**

3. Full Page Conformance Requirement now includes all variations **across all breakpoints**

2. Who was the focus?

Who was the focus?

Who was the focus?

Cognitive &
Learning Disabilities

Who was the focus?

Cognitive &
Learning Disabilities

Low-vision &
Senior Citizens

Who was the focus?

Cognitive &
Learning Disabilities

Low-vision &
Senior Citizens

Mobile
Device Users

3. How does this affect me?

How does this affect me?

1. Are you updating your accessibility policies?

How does this affect me?

1. Are you updating your accessibility policies?

2. **Are you working with organizations with requirements?**

How does this affect me?

1. Are you updating your accessibility policies?

2. Are you working with organizations with requirements?

3. **Are you redesigning a site in the near future?**

How does this affect me?

1. Are you updating your accessibility policies?

2. Are you working with organizations with requirements?

3. Are you redesigning a site in the near future?

4. **Are you auditing a site?**

4. How long do I have?

How long do I have?

It depends!

How long do I have?

1. Not required by Section 508

How long do I have?

1. Not required by Section 508

2. **Could vary by state, sector, or institution**

How long do I have?

1. Not required by Section 508

2. Could vary by state, sector, or institution

3. **3.0 or "Silver" due out in 2021**
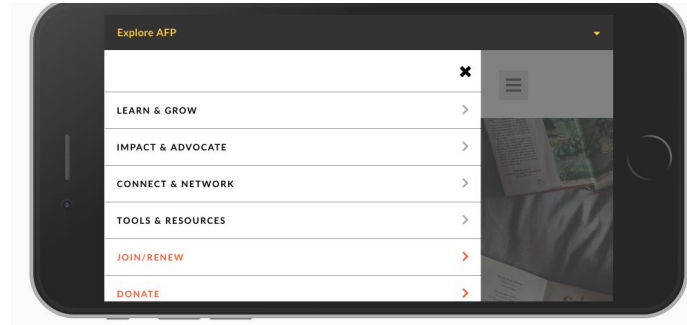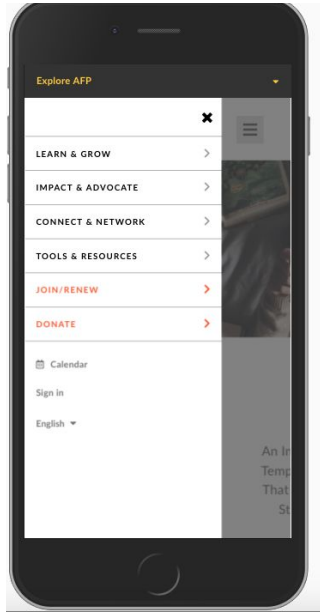
5. Breakdown & Additions

Breakdown

17 new standards

	Level A	Level AA	Level AAA
Perceivable	-	6	1
Operable	5	-	4
Understandable	-	-	-
Robust	-	1	-

1.3.4 Orientation (AA)

Sites can be used in both portrait and landscape orientations.

1.3.5 Identify Input Purpose (AA)

We should help browsers automatically fill out our forms.

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We should help browsers automatically fill out our forms.

```html
<label for="frmNameCC">Name on card</label>
<input name="ccname" id="frmNameCC" required placeholder="Full Name" autocomplete="cc-name">

<label for="frmCCNum">Card Number</label>
<input name="cardnumber" id="frmCCNum" required autocomplete="cc-number">

<label for="frmCCCVC">CVC</label>
<input name="cvc" id="frmCCCVC" required autocomplete="cc-csc">

<label for="frmCCExp">Expiry</label>
<input name="cc-exp" id="frmCCExp" required placeholder="MM-YYYY" autocomplete="cc-exp">
```
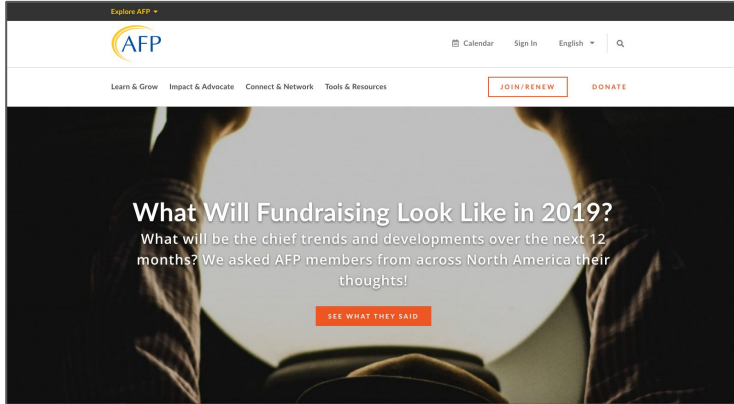
1.4.10 Reflow (AA)

Your website and its elements must be responsive.

AFP

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What Will Fundraising Look Like in 2019?

What will be the chief trends and developments over the next 12 months? We asked AFP members from across North America their thoughts!
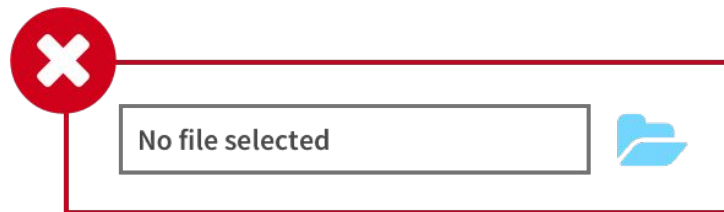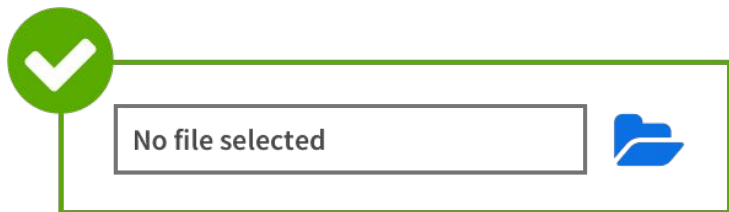
SEE WHAT THEY SAID

AFP

What Will Fundraising Look Like in 2019?

1.4.11 Non-text Contrast (AA)

Color contrast for all the things.

Health and Work
Spotlight on Mental Health

Public Health England

WORK FOUNDATION
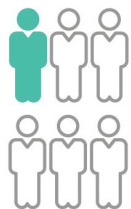
Almost **1 in 6** people of working age have a diagnosable **mental health condition**

In 2015, some **48%** of **Employment and Support Allowance recipients** had a '**Mental or Behavioural disorder**' as their primary condition

Each year mental ill-health costs the economy an estimated **£70bn** through lost productivity, social benefits and health care.

Mental health conditions are a leading cause of sickness absence in the UK

OVER **15m** days were lost to **stress, depression and anxiety'** in 2014 – an increase of 24% since 2009

Of people with physical long term conditions, **1 in 3** also have **mental illness,** most often depression or anxiety

Work can be a cause of stress and common mental health problems: in 2014/15 9.9m days were lost to **work-related stress, depression or anxiety**

19% **long-term sickness absence** in England **attributed to mental ill health**
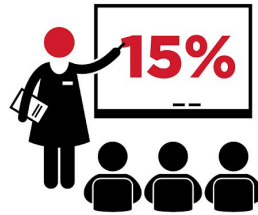
In 2016, **42.7% employment rate** for those who report mental illness as their main health problem (Mental illness, phobia, panics, nervous disorders (including depression, bad nerves or anxiety. **Compared to 74% of all population**
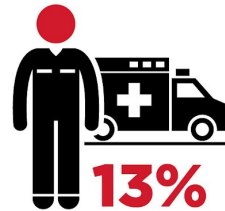
Work-related mental health

Occupations most at risk

16%
Defence force members, fire fighters and police

15%
School teachers

13%
Health and welfare support workers

Main causes of serious mental disorder claims

17% Exposure to workplace or occupational violence

20% Work related harassment or bullying

23% Work pressure*

On average each year (2010–11 to 2014–15)

6% of all workers compensation claims are for work-related mental disorders

7,020 Australians are compensated for work-related mental disorders

92% of mental disorder claims are attributed to work-related mental stress

Number of claims

59% women

42% men

Source: All statistics for the mental health at work infographic have been sourced from Safe Work Australia's National Data Set for Compensation based statistics.

* The work pressure category of mental stress includes work backlogs and deadlines, organisational restructures, interpersonal conflicts, disciplinary actions, performance counselling or promotion disappointment

safe work australia

1.4.12 Text Spacing (AA)

Users must be able increase text properties without losing content or functionality.

- **line height** to at least 1½ × the font size;

- **space below paragraphs** to at least 2 × the font size;

- **letter spacing** to at least 0.12 × the font size; or

- **word spacing** to at least 0.16 × the font size.

Tool: https://codepen.io/stevef/pen/YLMqbo

Juvenile Law Center

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RESET

REPORTS & PUBLICATIONS

Broken Bridges: How Juvenile Placements Cut Off Youth from Communities and Successful Futures

December 7, 2018

The United States incarcerates youth at more than double the rate of any other country in the world. On any given day, almost 50,000 young

Juvenile Law Center

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1.4.13 Content on Hover or Focus (AA)

If a user triggers content to appear, certain actions must be allowed.
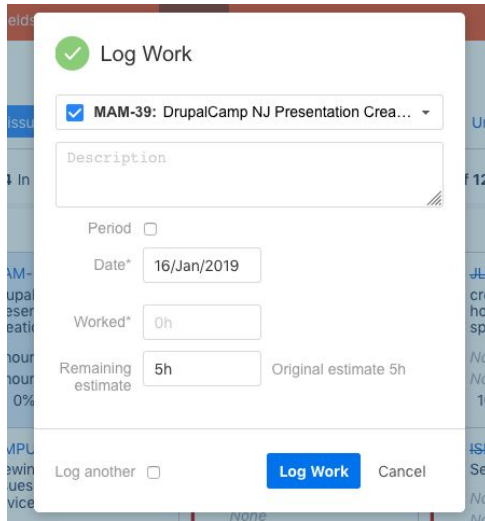
1.4.13 Content on Hover or Focus (AA)

If a user triggers content to appear, certain actions must be allowed.

- **Dismissable** without moving their pointer or tab onto some other element.

- **Visible** if the user moves their mouse over it

- **Visible** until the hover or focus trigger is removed, the user dismisses it, or the content is no longer valid.

2.1.4 Character Key Shortcuts (A)
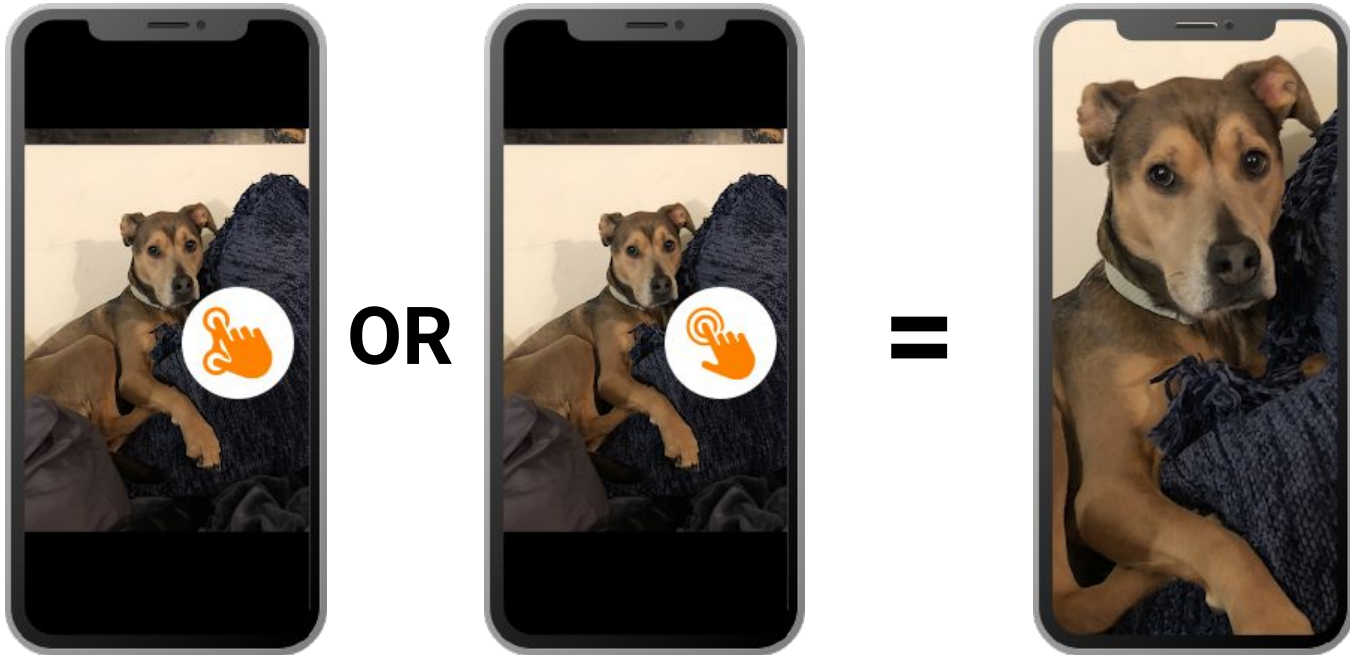
One key keyboard shortcuts must have additional abilities.

- Ability to **turn off**

- Ability to **be remapped**

- Ability to **only be active when the component has focus**

2.5.1 Pointer Gestures (A)

Multi-touch gestures must be able to be completed by a single gesture.

2.5.2 Pointer Cancellation (A)

Down-events cannot be used to complete a function.

SENDING...

2.5.2 Pointer Cancellation (A)

Down-events cannot be used to complete a function.

2.5.3 Label in Name (A)

Visible labels need to match accessible names.


```
<button
aria-label="Buy teapot
for
$24.99">Buy</button>
```

2.5.3 Label in Name (A)

Visible labels need to match accessible names.

Teapot
$24.99

BUY TEAPOT

Coffee Maker
$24.99

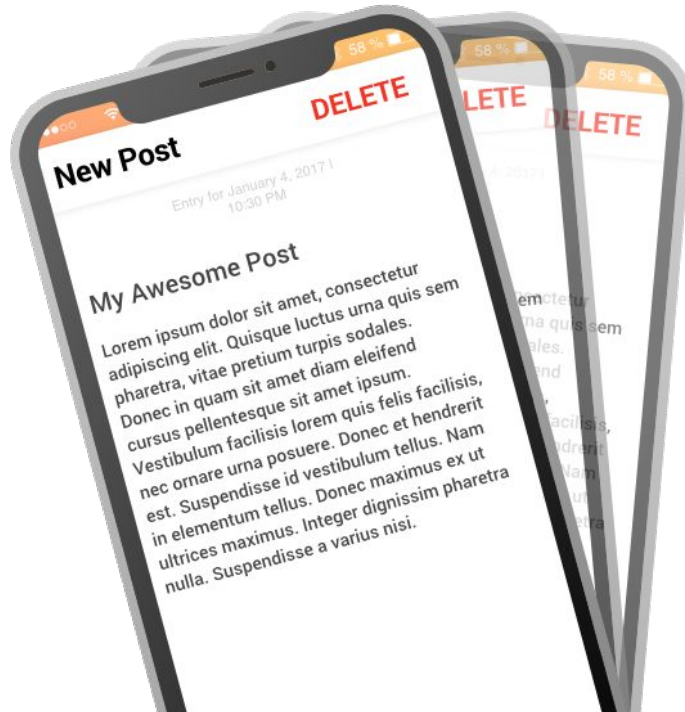**BUY COFFEE MAKER**

```
<button
aria-label="Buy teapot
for $24.99">Buy
Teapot</button>
```

2.5.4 Motion Actuation (A)

Your website is not a Shake Weight.

2.5.7 Status Messages (AA)

Alert the user, but don't interrupt them.

- Use `role="status"` for results of an actions, like a successful form submission.

- Use `role="alert"` or `aria-live="assertive"` to identify errors, like an incorrect value on a form.

- Use `role="progressbar"` to let users know where they are in a process.

1.3.6 Identify Purpose (AAA)

Our HTML could should provide context, purpose, and meaning.

Demo: https://rawgit.com/ayelet-seeman/coga.personalisation/demo/conactUs.html

Online Clothes

Contact Us

Name: your name

E-mail: your email

Phone: your phone number

Subject: your subject

Message: Write your message here

Submit   Reset

PERSONALISE (READ JSON)

The JavaScript file personalises the web page according to user settings specified in a JSON file, which trigger by the tag name, role, aria-importance attribute and aria-function attribute.
It makes the following changes:

- hides and displays elements that are less important
- adds/changes icon
- changes text
- changes style
- adds/changes tooltip
- adds/changes access key

Online Clothes

Contact Us

Name: your name

E-mail: your email

Subject: your subject

Message:
Write your message here

submit now

>> More Options

<< Less Options

2.2.6 Timeouts (AAA)

Store the user's data for 20 hours or warn the user in the beginning.

"Privacy regulations may require explicit user consent before user identification has been authenticated and before user data is preserved. In cases where the user is a minor, explicit consent may not be solicited in most jurisdictions, countries or regions. Consultation with privacy professionals and legal counsel is advised when considering data preservation as an approach to satisfy this success criterion."

2.2.6 Timeouts (AAA)

Store the user's data for 20 hours or warn the user in the beginning.

Call a lawyer.

2.3.3 Animation from Interactions (AAA)

Motion animation triggered by interaction can be disabled.

- Parallax

- Animated SVGS on scroll

2.3.3 Animation from Interactions (AAA)

Motion animation triggered by interaction can be disabled.

HTML 🔗

```
1  <div class="animation">animated box</div>
```

CSS 🔗

```
1  .animation {
2    -webkit-animation: vibrate 0.3s linear infinite both;
3    animation: vibrate 0.3s linear infinite both;
4  }
5
6  @media (prefers-reduced-motion: reduce) {
7    .animation {
8      animation: none;
9      -webkit-animation: none;
10   }
11 }
```

2.5.5 Target Size (AAA)

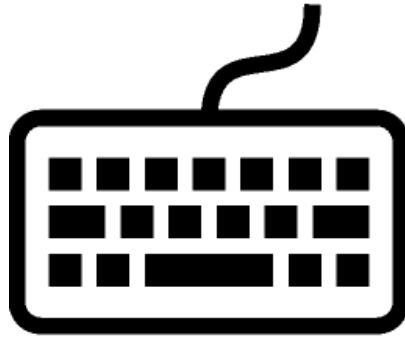Buttons need to be at least 44px by 44px.

SUBMIT

2.5.6 Concurrent Input Mechanisms (AAA)

Styluses, keyboards, voice input, OH MY!

Resources

For Planners & Content Editors:

508 Standards Refresh Toolkit - bit.ly/508toolkit

508 Standards Roadmap - bit.ly/508roadmap

Accessibility Audit Guides - bit.ly/wa-audit

Adobe Accessibility Blog - bit.ly/access-blog

Flowcharts & Concept Maps - http://accessibility.psu.edu/images/flowcharts/

Documentation Screen Captures - http://accessibility.psu.edu/images/docscreencaptures/

Long Descriptions - http://accessibility.psu.edu/images/longdescription/

WCAG-EM Report Tool - https://www.w3.org/WAI/eval/report-tool/#/

Resources

Accessibility Developer Tools (Google) - bit.ly/adt-google

WAVE Chrome & Firefox Extensions - bit.ly/wave-ext

The W3C Markup Validation Service - bit.ly/w3validate

Web Design References/How to Articles - bit.ly/access-howto

NV Access Screen Reader - bit.ly/nv-access

Text Spacing Bookmarklet - https://codepen.io/stevef/pen/YLMqbo

Resources

For Designers:

WCAG Contrast Checker - bit.ly/cc-checker

10 principles of inclusive web design - bit.ly/idx-principles

U.S. Web Design System - bit.ly/us-design