What’s new in WCAG 2.1?
Hi, there!

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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.
Hi, there!

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Front-end Developer at Message Agency
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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

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2. WCAG 2.1 is an official W3C Recommendation
Overview

A W3C Recommendation is a Web Standard.
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Source: https://www.w3.org/2018/Process-20180201/
Overview

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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

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

<table>
<thead>
<tr>
<th></th>
<th>Level A</th>
<th>Level AA</th>
<th>Level AAA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perceivable</td>
<td>-</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Operable</td>
<td>5</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Understandable</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Robust</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
</tbody>
</table>
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.
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
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

Almost 1 in 6 people of working age have a diagnosable mental health condition.

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

Over 15 million days were lost due to stress, depression and anxiety in 2014, an increase of 24% since 2009.

19% long-term sickness absence in England attributed to mental ill health.

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.

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 9.9 million days were lost to work-related stress, depression or anxiety.

In 2016, 42.7% employment rate for those who report mental illness as their main health problem (Mental illness, phobia, panic, nervous disorders including depression, bad nerves or anxiety. Compared to 74% of all population.

Work-related mental health

Occupations most at risk

- Defence force members, fire fighters and police: 16%
- School teachers: 15%
- Health and welfare support workers: 13%

Main causes of serious mental disorder claims

- Exposure to workplace or occupational violence: 17%
- Work related harassment or bullying: 20%
- Work pressure: 23%

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
1.4.12 Text Spacing (AA)

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

- **line height** to at least $1\frac{1}{2} \times$ the font size;
- **space below paragraphs** to at least $2 \times$ the font size;
- **letter spacing** to at least $0.12 \times$ the font size; or
- **word spacing** to at least $0.16 \times$ the font size.

Tool: [https://codepen.io/stevef/pen/YLMqbo](https://codepen.io/stevef/pen/YLMqbo)
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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
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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 world average, leaving many young people unable to connect with their families and communities. This report documents the far-reaching harms of its current juvenile justice system and offers practical solutions to meaningfully reduce youth placements and help youth find pathways to healthy futures.
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.
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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

Coffee Maker
$24.99

<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/contactUs.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
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
<div class="animation">animated box</div>
```

```css
.animation {
  -webkit-animation: vibrate 0.3s linear infinite both;
  animation: vibrate 0.3s linear infinite both;
}
@media (prefers-reduced-motion: reduce) {
  .animation {
    animation: none;
    -webkit-animation: none;
  }
}
```
2.5.5 Target Size (AAA)

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

For Developers:
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