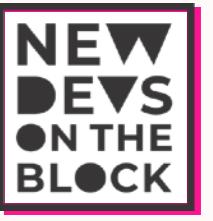
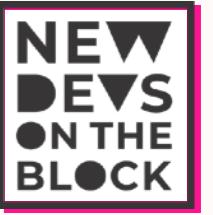


A11y - Accessibility

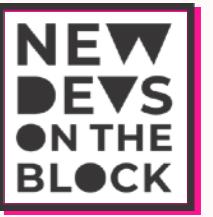


a11y



accessibility

bit.ly/a11y-numeronym



a11y

bit.ly/a11y-numeronym

accessibility

degree to which an environment is
usable by as many people as possible

web accessibility

degree to which a website is usable
by as many people as possible

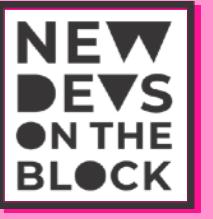
bit.ly/a11yfore

1,000,000,000

— *World Health Organization*

bit.ly/who-at

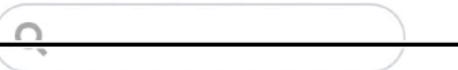
How people interact with the web



Assistive technology

Screen readers

- JAWS - job access with speech
- Apple's VoiceOver
- Microsoft's Narrator



So you want to learn GraphQL?

Learning new tech we know, so we are here to help you.

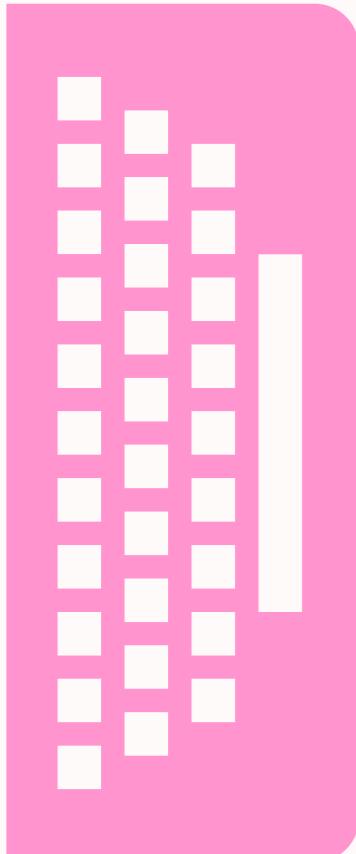
First question: Do you Know what GraphQL is?

[Yes](#)

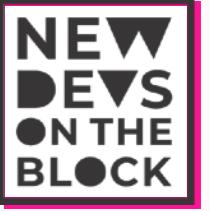
[No](#)

X visited, link, <https://so-you-want-to-learn-graphql.now.sh/>

Keyboard navigation



- Tab
- Shift + Tab
- Enter

The background of the page features a white surface with a grid of small grey dots. Overlaid on this are several large, semi-transparent 3D-style geometric shapes in shades of blue, purple, and pink, creating a sense of depth and motion.

shopify developers

DOCS WAYS TO BUILD COMMUNITY

API changelog Log in Sign up

Power the world's entrepreneurs

Build for 600,000 businesses that are transforming the world of commerce.

Enter your email

Sign up

Sign up as a Shopify Partner to get a free API key.

Docs
Read our API documentation and step-by-step guides.

App development
Create apps to earn regular income on the Shopify

Custom development
Work with clients to get them started on Shopify and solve

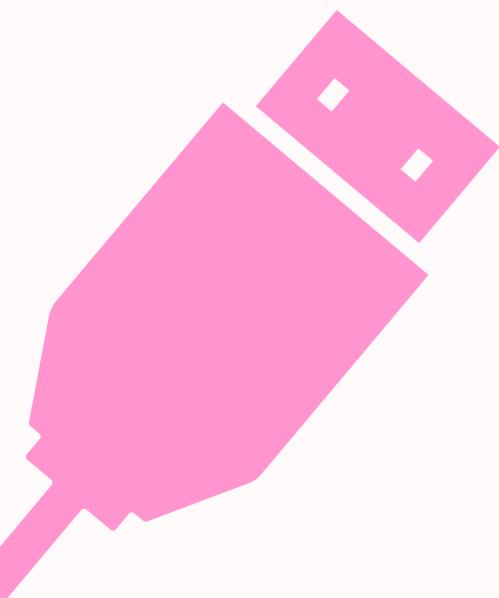
bit.ly/shopify-dp

Navigation hardware



- Touchscreens
- Mouth sticks
- Foot-operated mice

Switch inputs

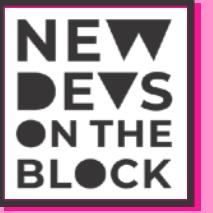


- Mechanical buttons
- Foot plates
- Electronic sensors

Trackers



- Eye
- Head
- Dwell Control



Accessibility can be intimidating

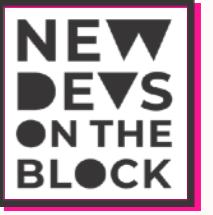
“Accessibility is often viewed as making your site work on screen readers. In reality, web accessibility is a subset of UX focused on making your websites usable by the widest range of people possible, including those who have disabilities.”

Dave Rupert, The A11y Project

bit.ly/a11y-myths

- Visual
- Auditory
- Motor
- Cognitive

bit.ly/a11y-myths



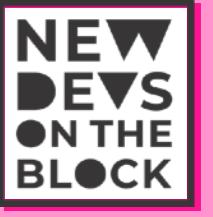
There's also a
business case for a11y

bit.ly/w3-bcase

Structure and hierarchy



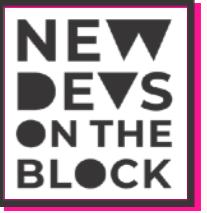




HTML - HyperText Markup Language

bit.ly/a11yfore

- h1
- nav
- aside
- ul / ol



Getting Started

This page is an overview of the React documentation and related resources.

React is a JavaScript library for building user interfaces. Learn what React is all about on [our homepage](#) or [in the tutorial](#).

-
- [Try React](#)
 - [Learn React](#)
 - [Staying Informed](#)
 - [Versioned Documentation](#)
 - [Something Missing?](#)
-

INSTALLATION ^

Getting Started

[Add React to a Website](#)

[Create a New React App](#)

[CDN Links](#)

MAIN CONCEPTS ▾

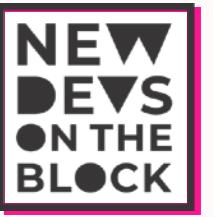
ADVANCED GUIDES ▾

API REFERENCE ▾

CONTRIBUTING ▾

FAQ ▾

bit.ly/react-gs



 [React](#)
[Docs](#) [Tutorial](#) [Community](#) [Blog](#)

[v16.5.0](#) [GitHub](#) 

Getting Started

This page is an overview of the React documentation and related resources.

React is a JavaScript library for building user interfaces. Learn what React is all about on [our homepage](#) or [in the tutorial](#).

-
- [Try React](#)
 - [Learn React](#)
 - [Staying Informed](#)
 - [Versioned Documentation](#)
 - [Something Missing?](#)

Try React

React has been designed from the start for gradual adoption, and **you can use as little or as much React as you need**. Whether you want to get a taste of React, add some interactivity to a simple HTML page, or start a complex React-powered app, the links in this section will help you get started.

Online Playgrounds

If you're interested in playing around with React, you can use an online code playground. Try a Hello World template on [CodePen](#) or [CodeSandbox](#).

If you prefer to use your own text editor, you can also [download this HTML file](#), edit it, and open it from the local filesystem in your browser. It does a slow runtime code transformation, so we'd only recommend using this for simple demos.

Add React to a Website

You can [add React to an HTML page in one minute](#). You can then either gradually expand its presence, or keep it contained to a few dynamic widgets.

bit.ly/react-gs

Avoid `<div>` and ``
elements when possible

Focus indicators

stripe docs

-  Home
-  Payments
-  Billing
-  Connect

 Search documentation...

Connect Overview

Learn how to use [Connect](#), our solution for any business that needs to work with multiple parties.

bit.ly/stripe-connect

- Links
- Form fields
- Widgets
- Buttons
- Menu items

Welcome to GOV.UK

The best place to find government services and information

Simpler, clearer, faster

Search GOV.UK



Popular on GOV.UK

[Find a job](#)

[Renew vehicle tax](#)

[Log in to student finance](#)

[Book your theory test](#)

[Personal tax account](#)

[**Benefits**](#)

Includes eligibility, appeals, tax credits and Universal Credit

[**Births, deaths, marriages and care**](#)

Parenting, civil partnerships, divorce and Lasting Power of Attorney

[**Business and self-employed**](#)

Tools and guidance for businesses

[**Childcare and parenting**](#)

Includes giving birth, fostering, adopting, benefits for children, childcare and schools

[**Citizenship and living in the UK**](#)

Voting, community participation, life in the UK, international projects

[**Crime, justice and the law**](#)

Legal processes, courts and the police

[**Disabled people**](#)

Includes carers, your rights, benefits and the Equality Act

[**Driving and transport**](#)

Includes vehicle tax, MOT and driving licences

[**Education and learning**](#)

Includes student loans, admissions and apprenticeships

[**Employing people**](#)

Includes pay, contracts and hiring

[**Environment and countryside**](#)

Includes flooding, recycling and wildlife

[**Housing and local services**](#)

Owning or renting and council services

[**Money and tax**](#)

Includes debt and Self Assessment

[**Passports, travel and living abroad**](#)

Includes renewing passports and travel advice by country

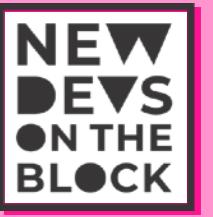
[**Visas and immigration**](#)

Visas, asylum and sponsorship

[**Working, jobs and pensions**](#)

Includes holidays and finding a job

- Can I tab through the page without getting lost?
- Do all focusable elements have focus states?
- Can I operate menus, forms, buttons, etc with just my keyboard?



Images

alt tags

Sat Jan 6	Sun Jan 7	Mon Jan 8	Tue Jan 9
Mainly sunny	A few flurries	Scattered flurries	A mix of sun and clouds
			
-17 °C	-7 °C	2 °C	-1 °C

bit.ly/robothugs-tweet

Sat Jan 6	Sun Jan 7	Mon Jan 8	Tue Jan 9
Mainly sunny	A few flurries	Scattered flurries	A mix of sun and clouds
			
-17 °C	-7 °C	2 °C	-1 °C

Forecast for Toronto temperatures, showing -18 C today improving to -1 C by Tuesday.

bit.ly/robothugs-tweet



Joe Barone
Head of Brand Safety,
Americas | GroupM



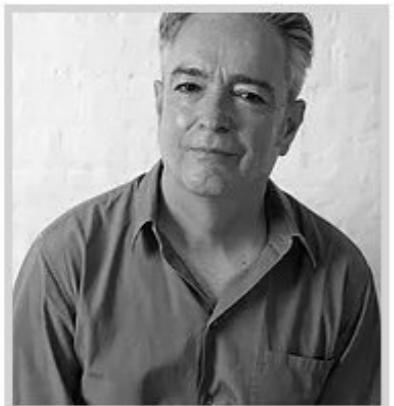
Rob Beeler
Founder | Beeler.Tech



Richard Bush
Chief Product & Technology
Officer | NYIAX



Tim Cadogan
CEO | OpenX



Malcolm Cox
Marketing Director |
Grapeshot



Andy Evans
CMO | Sovrn



Marc Goldberg
CEO | Trust Metrics



Jim Hirshfield
Head of Sales, Americas |
GeoEdge

bit.ly/robothugs-tweet



Joe Barone
Head of Brand Safety,
Americas | GroupM



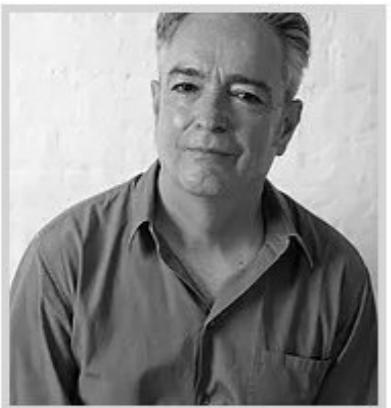
Rob Beeler
Founder | Beeler.Tech



Richard Bush
Chief Product & Technology
Officer | NYIAX



Tim Cadogan
CEO | OpenX



Malcolm Cox
Marketing Director |
Grapeshot



Andy Evans
CMO | Sovrn



Marc Goldberg
CEO | Trust Metrics



Jim Hirshfield
Head of Sales, Americas |
GeoEdge

8 headshots of featured conference
speakers that are all white and male.

bit.ly/robothugs-tweet

- Don't say 'Image of' or 'Photo of'
- Describe what the image is conveying
- Keep it short
- Any description is better than no description

bit.ly/robothugs-tweet



Is there Uber in _____ ?

Search by **algolia**

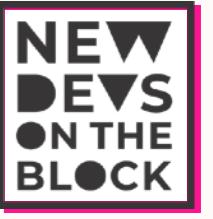
isthereuber.in



Is there Uber in _____ ?

Search by algolia

isthereuber.in



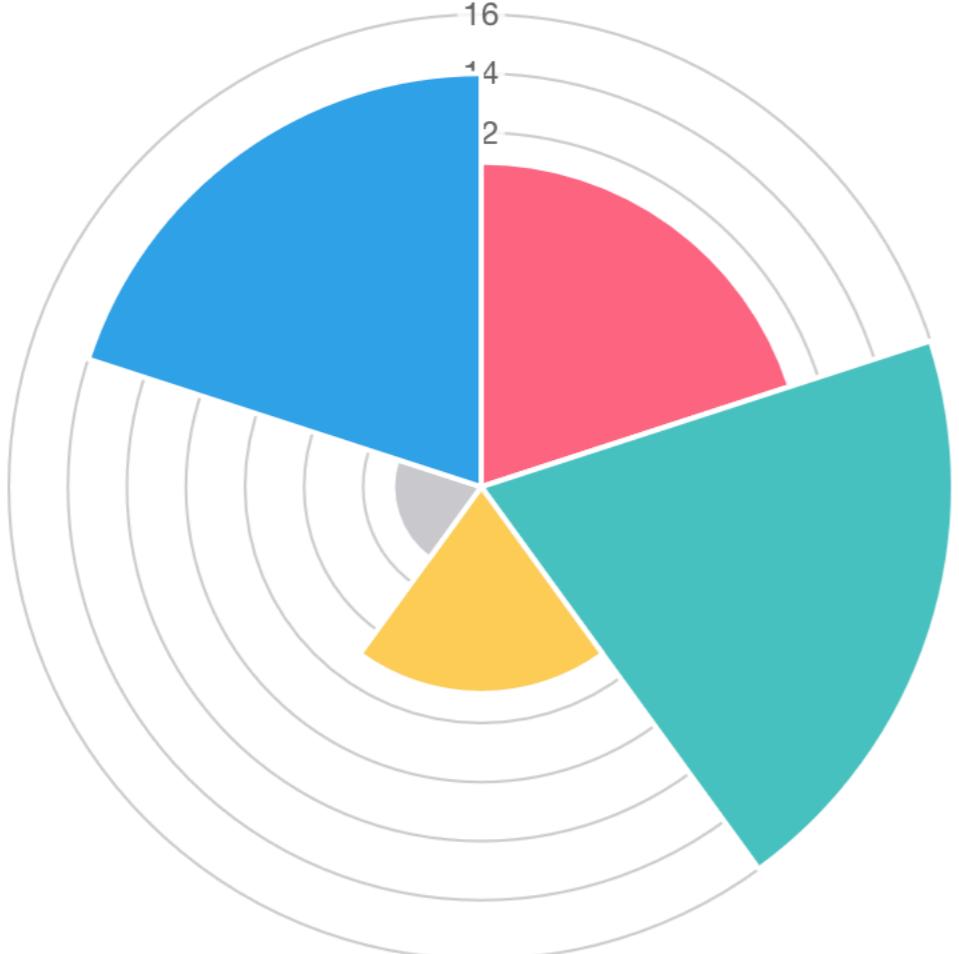
918e15484df8b5806ef5
612f985260e9.svg

```

```

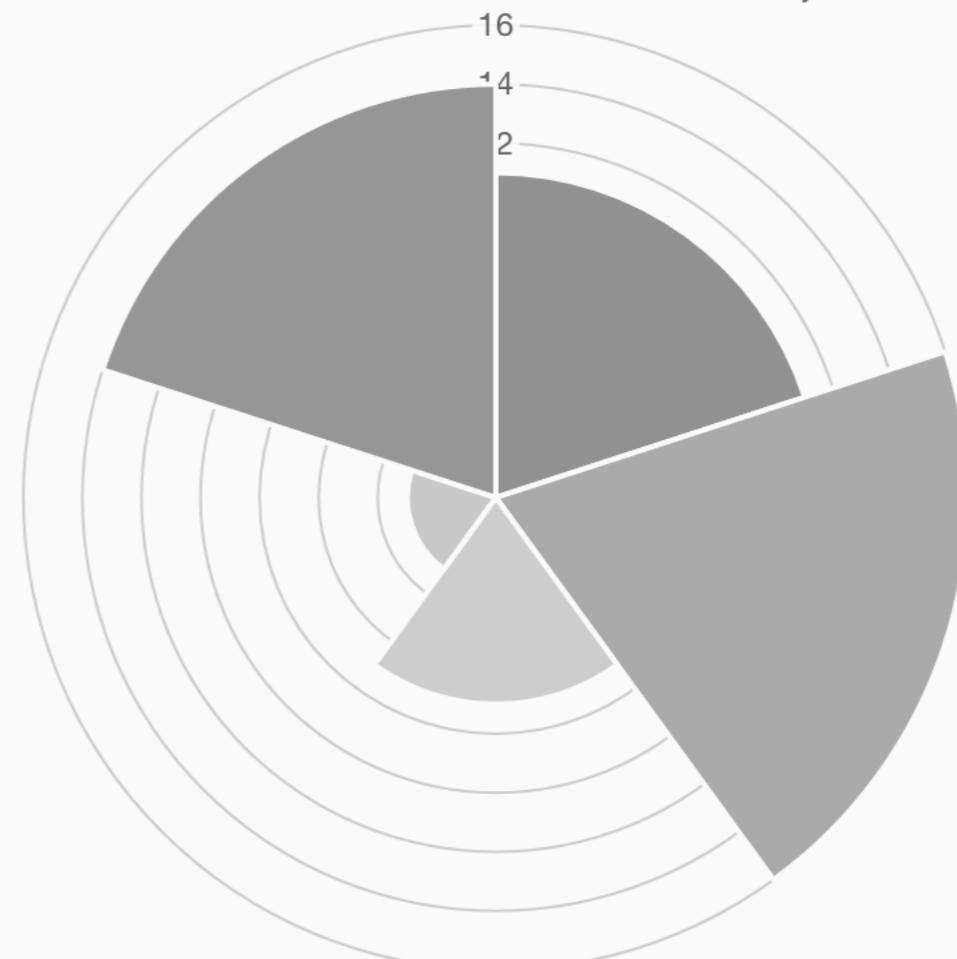
Colors

Red Green Yellow Grey Blue



NEW
DEVS
ON THE
BLOCK

Red Green Yellow Grey Blue



Labels X

Search labels...

Improvement

Yellow

Orange

Red

New idea

Housekeeping

[Create a new label](#)

[Disable color blind friendly mode.](#)

Labels X

Search labels...

Improvement

Yellow

Orange

Red

New idea

Housekeeping

[Create a new label](#)

[Disable color blind friendly mode.](#)

Color Oracle

https://colororacle.org

Color Oracle Usage Manual Design Tips Links

Color Oracle

Design for the Color Impaired



Color Oracle is a free color blindness simulator for Windows, Mac and Linux. It takes the guesswork out of designing for color blindness by showing you in real time what people with common color vision impairments will see.

Color Oracle applies a full screen color filter to art you are designing, independently of the software in use. Eight percent of all males are affected by color vision impairment – make sure that your graphical work is readable by the widest possible audience.

Download
Version 1.3, May 5, 2018.
[macOS](#) [Windows](#) [Linux](#)
Colour Oracle for Windows and Linux requires [Java 6 or higher](#).

Read this article for more information: [Color Design for the Color Vision Impaired](#)

About
Development: [Bernie Jenny](#), Monash University, Australia.
Ideas, testing and icon: [Nathaniel Vaughn Kelso](#), California.

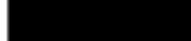
Feedback

WebAIM: Color Contrast Checker X +

https://webaim.org/resources

Color Contrast Checker

Home > Resources > Color Contrast Checker

Foreground Color #000000 
Lightness 

Background Color #FF94CF 
Lightness 

Contrast Ratio **10.38:1** [permalink](#)

Normal Text

WCAG AA: **Pass**

WCAG AAA: **Pass**

The five boxing wizards jump quickly.

Large Text

WCAG AA: **Pass**

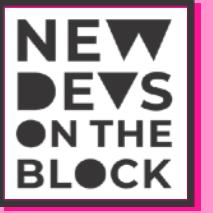
WCAG AAA: **Pass**

The five boxing wizards jump quickly.

Graphical Objects and User Interface Components

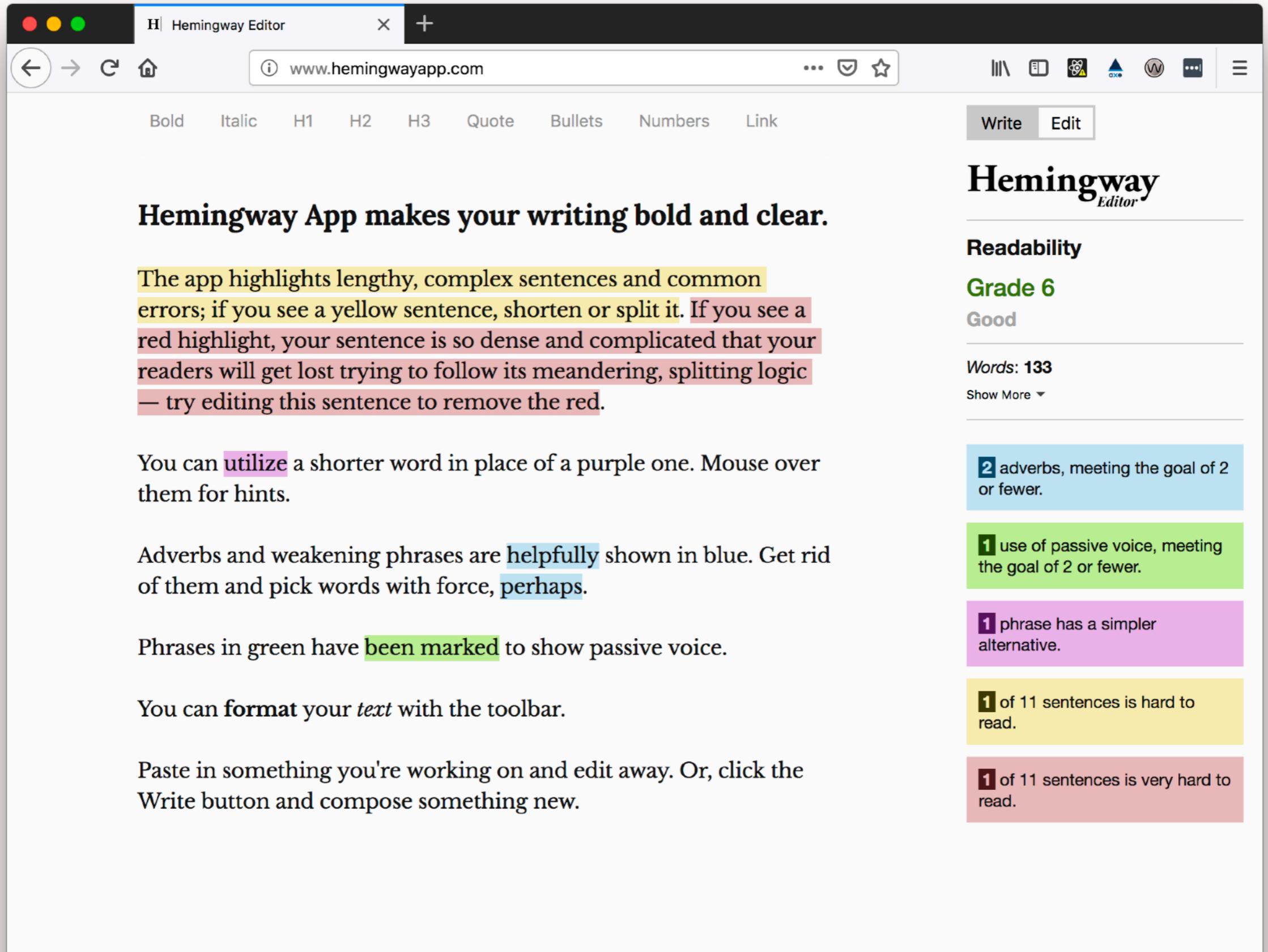
WCAG AA: **Pass**





Inclusive writing

Plain language



The screenshot shows the Hemingway Editor application running in a web browser. The title bar reads "Hemingway Editor". The toolbar includes standard browser controls (back, forward, search, etc.) and a set of writing tools: Bold, Italic, H1, H2, H3, Quote, Bullets, Numbers, Link, Write (selected), and Edit.

Hemingway App makes your writing bold and clear.

The app highlights lengthy, complex sentences and common errors; if you see a yellow sentence, shorten or split it. If you see a red highlight, your sentence is so dense and complicated that your readers will get lost trying to follow its meandering, splitting logic — try editing this sentence to remove the red.

You can utilize a shorter word in place of a purple one. Mouse over them for hints.

Adverbs and weakening phrases are helpfully shown in blue. Get rid of them and pick words with force, perhaps.

Phrases in green have been marked to show passive voice.

You can format your *text* with the toolbar.

Paste in something you're working on and edit away. Or, click the Write button and compose something new.

Hemingway
Editor

Readability

Grade 6

Good

Words: 133

Show More ▾

2 adverbs, meeting the goal of 2 or fewer.

1 use of passive voice, meeting the goal of 2 or fewer.

1 phrase has a simpler alternative.

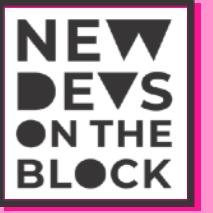
1 of 11 sentences is hard to read.

1 of 11 sentences is very hard to read.

“No one has ever complained that something was too easy to read”

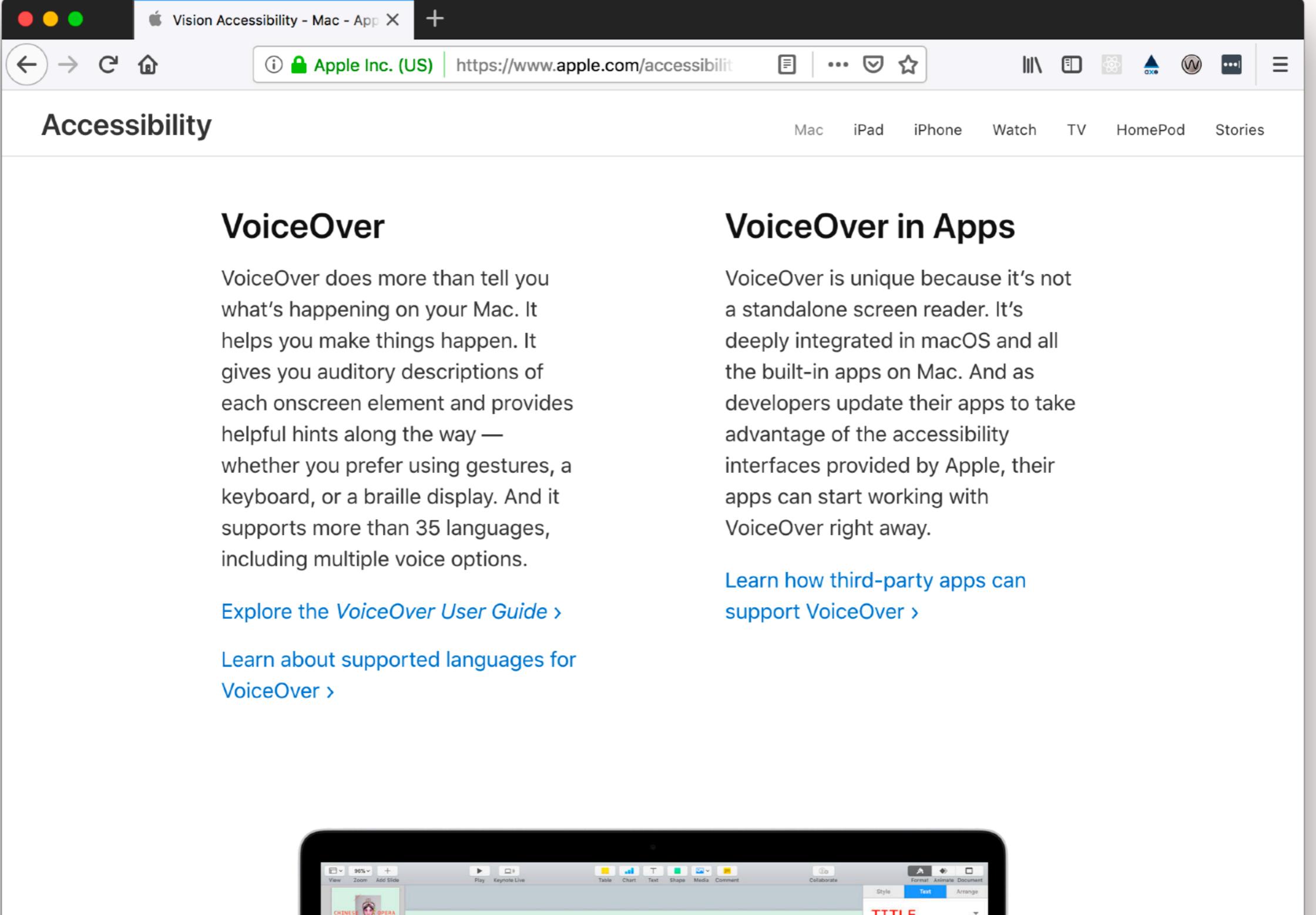
Ashley Bischoff, copy editor at The Paciello Group

bit.ly/ashley-fronteers



Testing for accessibility

Most assistive
technologies are
free or inexpensive



The screenshot shows a web browser window with the title "Vision Accessibility - Mac - App X". The URL in the address bar is <https://www.apple.com/accessibility>. The page content is about VoiceOver accessibility features.

Accessibility

VoiceOver

VoiceOver does more than tell you what's happening on your Mac. It helps you make things happen. It gives you auditory descriptions of each onscreen element and provides helpful hints along the way — whether you prefer using gestures, a keyboard, or a braille display. And it supports more than 35 languages, including multiple voice options.

[Explore the VoiceOver User Guide >](#)

[Learn about supported languages for VoiceOver >](#)

VoiceOver in Apps

VoiceOver is unique because it's not a standalone screen reader. It's deeply integrated in macOS and all the built-in apps on Mac. And as developers update their apps to take advantage of the accessibility interfaces provided by Apple, their apps can start working with VoiceOver right away.

[Learn how third-party apps can support VoiceOver >](#)

A small image at the bottom shows a Mac screen displaying a presentation slide titled "CHINESE OPERA".

A screenshot of a web browser displaying the NV Access website at <https://www.nvaccess.org/about-nvda>. The page features a dark header with the NV Access logo and navigation links for Home, About, Download, Get Help, Corporate / Government, News, Support Us, and Shop. A large teal banner on the left promotes the NV Access screen reader, highlighting its speed, functionality, and free nature. To the right of the banner is a video thumbnail showing a woman speaking.

NV Access

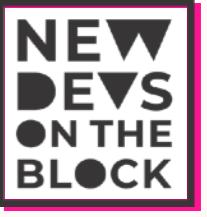
Empowering lives through non-visual access to technology

Home About Download Get Help Corporate / Government News

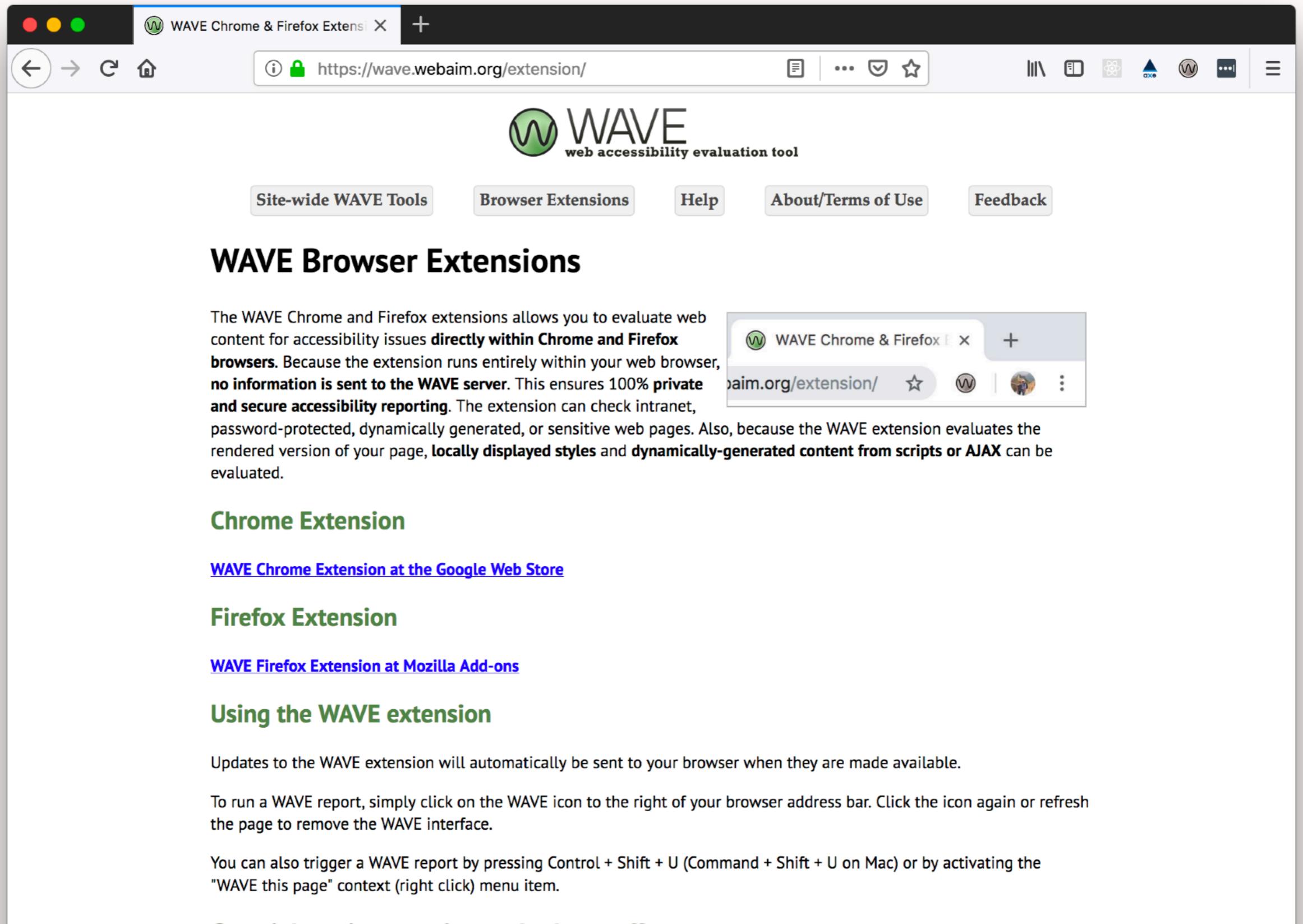
Support Us Shop

Join the NV Access REVOLUTION!
Finally, a FAST, FUNCTIONAL & Totally Free SCREEN READER.

DONATE



Free **extensions**
and validators



The screenshot shows a web browser window with the title bar "WAVE Chrome & Firefox Extensi X". The address bar displays the URL "https://wave.webaim.org/extension/". The main content area features the WAVE logo and the text "web accessibility evaluation tool". Below the logo are five navigation buttons: "Site-wide WAVE Tools", "Browser Extensions", "Help", "About/Terms of Use", and "Feedback". A large section titled "WAVE Browser Extensions" contains text explaining the extension's purpose and how it works. To the right of this text is a smaller screenshot of a browser toolbar with the WAVE icon.

The WAVE Chrome and Firefox extensions allows you to evaluate web content for accessibility issues **directly within Chrome and Firefox browsers**. Because the extension runs entirely within your web browser, **no information is sent to the WAVE server**. This ensures **100% private and secure accessibility reporting**. The extension can check intranet, password-protected, dynamically generated, or sensitive web pages. Also, because the WAVE extension evaluates the rendered version of your page, **locally displayed styles** and **dynamically-generated content from scripts or AJAX** can be evaluated.

Chrome Extension

[WAVE Chrome Extension at the Google Web Store](#)

Firefox Extension

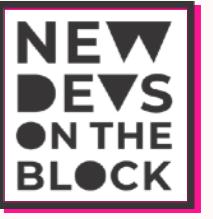
[WAVE Firefox Extension at Mozilla Add-ons](#)

Using the WAVE extension

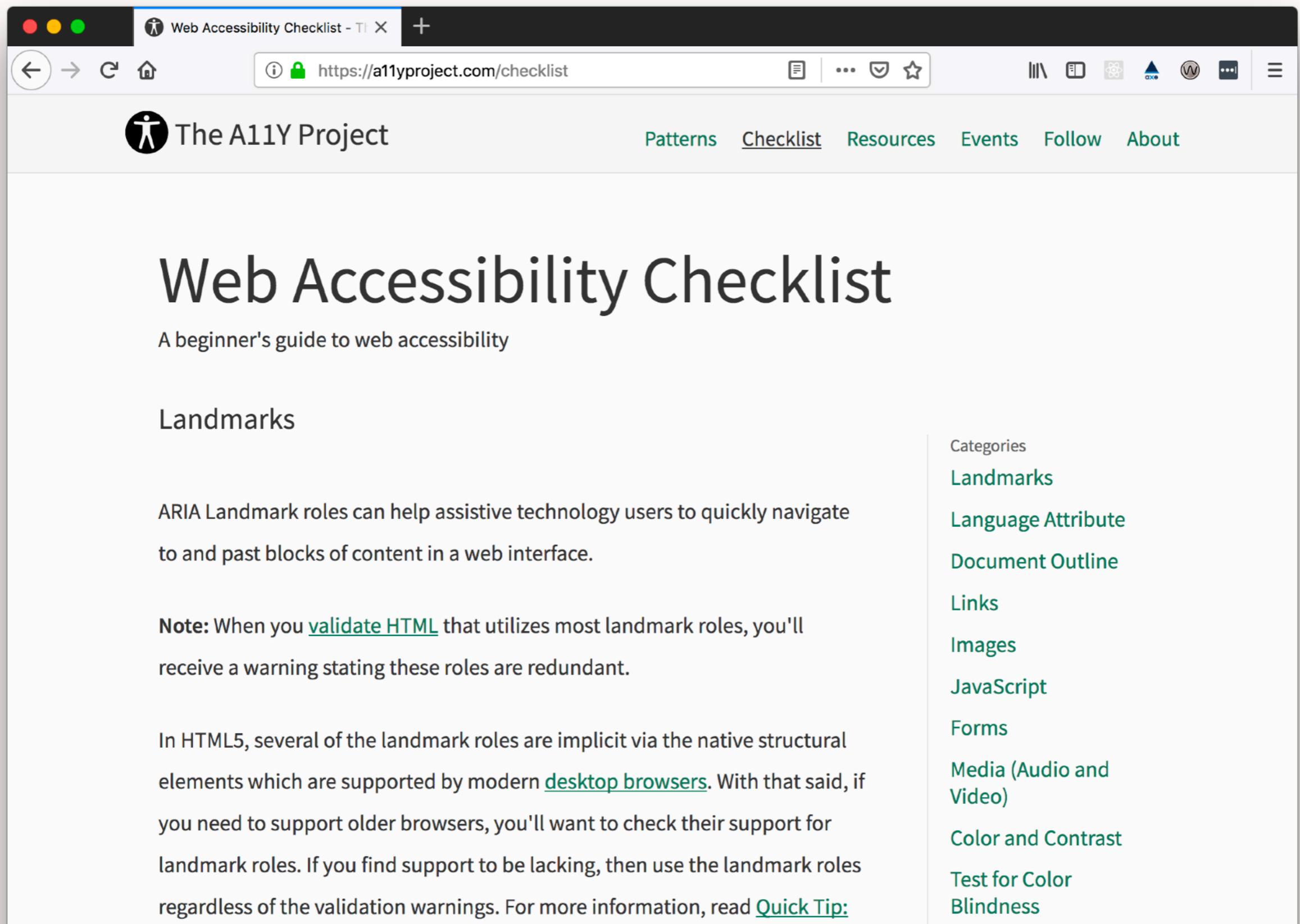
Updates to the WAVE extension will automatically be sent to your browser when they are made available.

To run a WAVE report, simply click on the WAVE icon to the right of your browser address bar. Click the icon again or refresh the page to remove the WAVE interface.

You can also trigger a WAVE report by pressing Control + Shift + U (Command + Shift + U on Mac) or by activating the "WAVE this page" context (right click) menu item.



Use a checklist

A screenshot of a web browser displaying the "Web Accessibility Checklist" page from "The A1Y Project". The browser interface includes a title bar, a toolbar with icons for back, forward, search, and refresh, and a navigation bar with links for Patterns, Checklist, Resources, Events, Follow, and About. The main content area features a large heading "Web Accessibility Checklist" and a subtitle "A beginner's guide to web accessibility". Below this, there is a section titled "Landmarks" with a note about ARIA Landmark roles and validation. Another section discusses HTML5 landmark roles and their support in desktop browsers. To the right, a sidebar lists various categories: Categories, Landmarks, Language Attribute, Document Outline, Links, Images, JavaScript, Forms, Media (Audio and Video), Color and Contrast, Test for Color Blindness, and Quick Tip. The URL in the address bar is https://a11yproject.com/checklist.

The A1Y Project

Patterns Checklist Resources Events Follow About

Web Accessibility Checklist

A beginner's guide to web accessibility

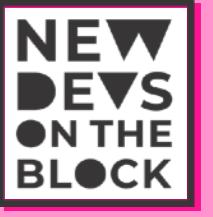
Landmarks

ARIA Landmark roles can help assistive technology users to quickly navigate to and past blocks of content in a web interface.

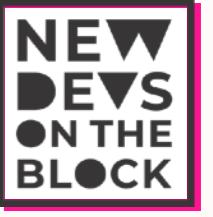
Note: When you [validate HTML](#) that utilizes most landmark roles, you'll receive a warning stating these roles are redundant.

In HTML5, several of the landmark roles are implicit via the native structural elements which are supported by modern [desktop browsers](#). With that said, if you need to support older browsers, you'll want to check their support for landmark roles. If you find support to be lacking, then use the landmark roles regardless of the validation warnings. For more information, read [Quick Tip](#):

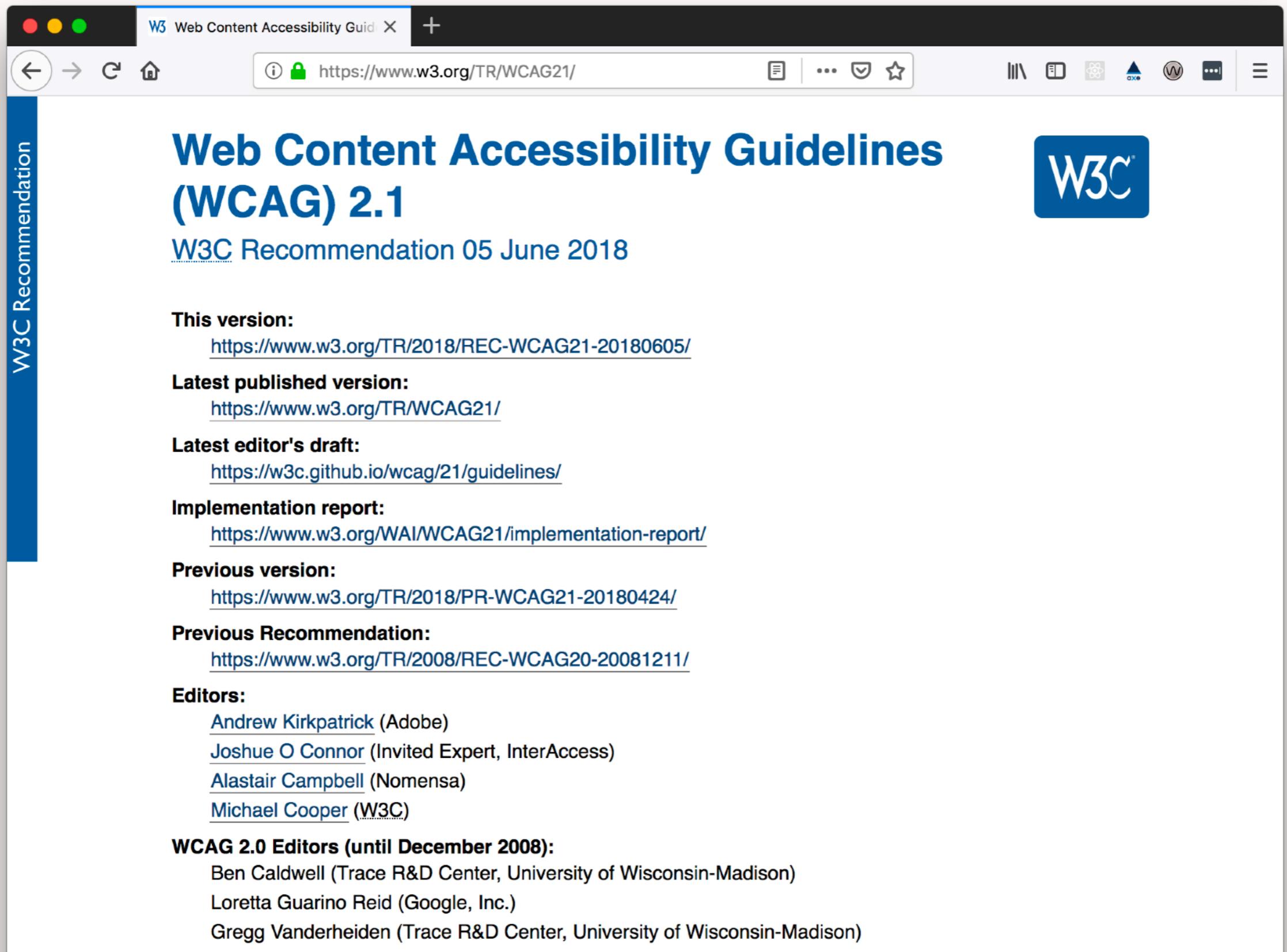
- Categories
- Landmarks
- Language Attribute
- Document Outline
- Links
- Images
- JavaScript
- Forms
- Media (Audio and Video)
- Color and Contrast
- Test for Color Blindness
- Quick Tip



Terms to know



WCAG - Web Content Accessibility Guidelines



A screenshot of a web browser displaying the W3C Web Content Accessibility Guidelines (WCAG) 2.1 page. The browser interface includes a title bar with the URL "https://www.w3.org/TR/WCAG21/", a toolbar with various icons, and a sidebar on the left labeled "W3C Recommendation". The main content area features the title "Web Content Accessibility Guidelines (WCAG) 2.1" in large blue text, followed by "W3C Recommendation 05 June 2018". A blue "W3C" logo is positioned to the right of the title. Below the title, there are links to different versions and resources, such as "This version", "Latest published version", "Latest editor's draft", "Implementation report", "Previous version", "Previous Recommendation", and a list of "Editors". At the bottom, there is a section for "WCAG 2.0 Editors (until December 2008)".

W3C Recommendation

Web Content Accessibility Guidelines (WCAG) 2.1

W3C Recommendation 05 June 2018

This version:

<https://www.w3.org/TR/2018/REC-WCAG21-20180605/>

Latest published version:

<https://www.w3.org/TR/WCAG21/>

Latest editor's draft:

<https://w3c.github.io/wcag/21/guidelines/>

Implementation report:

<https://www.w3.org/WAI/WCAG21/implementation-report/>

Previous version:

<https://www.w3.org/TR/2018/PR-WCAG21-20180424/>

Previous Recommendation:

<https://www.w3.org/TR/2008/REC-WCAG20-20081211/>

Editors:

[Andrew Kirkpatrick \(Adobe\)](#)
[Joshue O Connor \(Invited Expert, InterAccess\)](#)
[Alastair Campbell \(Nomensa\)](#)
[Michael Cooper \(W3C\)](#)

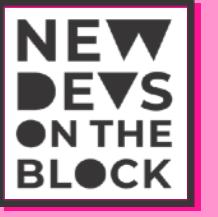
WCAG 2.0 Editors (until December 2008):

Ben Caldwell (Trace R&D Center, University of Wisconsin-Madison)
Loretta Guarino Reid (Google, Inc.)
Gregg Vanderheiden (Trace R&D Center, University of Wisconsin-Madison)

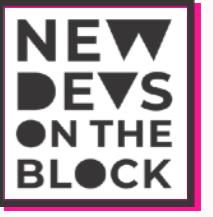
ARIA - Accessible Rich Internet Applications

ARIA example

```
<div role="status">  
  Your changes were automatically saved.  
</div>
```



A11y community



Follow Joschi Kuphal

@jkphl



Accessibility Club

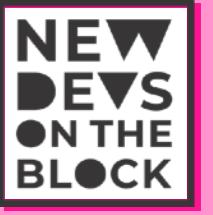
Community events
around web accessibility
& assistive technology

accessibility-club.org

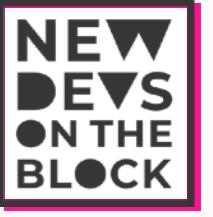
Developer Roadshow 2019



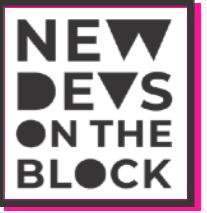
Monday, August 26 - FREE



Make accessibility a priority



Browse the web from
a different perspective



Accessibility | MDN

https://developer.mozilla.org/en-US/docs/Web/Accessibility

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Accessibility

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Accessibility (often abbreviated to **A11y**—as in "a" then 11 characters then "y") in Web development means enabling as many people as possible to use Web sites, even when those people's abilities are limited in some way.

For many people, technology makes things easier. For people with disabilities, technology makes things possible. Accessibility means developing content to be as accessible as possible no matter an individual's physical and cognitive abilities and no matter how they access the web.

"**The Web is fundamentally designed to work for all people**, whatever their hardware, software, language, culture, location, or physical or mental ability. When the Web meets this goal, it is accessible to people with a diverse range of hearing, movement, sight, and cognitive ability." [1]

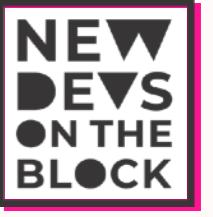
Key tutorials

The MDN Accessibility Learning Area contains modern,

Other documentation

Understanding the Web Content Accessibility

Final thoughts



This is for everyone

bit.ly/govuk-dp