

Accessibility



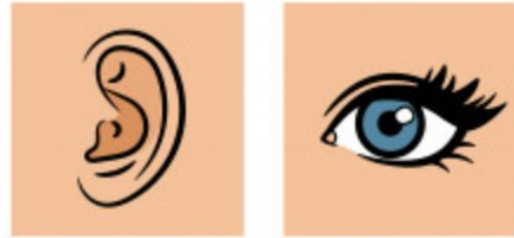
Crash Course

What is accessibility?

Digital accessibility is the ability of a website, mobile application or electronic document to be **easily navigated** and **understood** by a wide range of users, **including** those users who have **visual, auditory, motor** or **cognitive** disabilities.






Multiple sensory channels (sound and sight) allow for **alternative means of navigation** and **interactivity** beyond the typical point-and-click interface.

- Keyboard based control
- Voice-based navigation



The combination of multisensory approach allows **all users** to access the same information.

There is value in making apps and websites accessible.

-  Ensure that all your users have a decent experience and are able to easy access information/use features.
-  Better search results
-  Reduced maintenance (better to start since the beginning)
-  Increases audience reach
-  If working for the government, it's a must

- Identify official resources about accessibility
- List ways in which we can start incorporating it to our projects
- Identify tools for web and mobile
- Evaluate websites using ChromeVox

The **Web Content Accessibility Guidelines** are published by the World Wide Web Consortium (W3C).

They are recommendations for making content more accessible for all users in all devices.

[At a glance](#)

[Quick reference](#)



How can I start?

10 min

Check out [this article](#)

Seven easy-to-implement guidelines to design
a more accessible web ❤️

and discuss in groups the
seven principles:

- Come up with an
application for each

Chrome Vox



ChromeVox Classic Extension

Offered by: chrome.google.com

★★★★★ 898 | [Developer Tools](#) |  100,000+ users

 By Google


axe-coconut



axe-coconut - Web Accessibility Testing

Offered by: Deque Systems

★★★★★ 10 | [Accessibility](#) |  4,000+ users

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By using our site, you acknowledge that you have read and understand our

div#intercom-css-container 469 x 0 of Service.

Elements Console Sources Network >> 31 7

```
conversion.loadPixels&tw document href=https%3A%2F%2Fwww.makeschool.com%2F"
type="text/javascript"></script>
▶<div id="intercom-container" class="intercom-namespace">...</div>
... ▶<div id="intercom-css-container">...</div> == $0
</body>
</html>
```

html body#js-landing-index-view.homepage div#intercom-css-container

Styles Event Listeners DOM Breakpoints Properties Accessibility

▼ Accessibility Tree

▼ WebArea "Computer Science College for the 21st Century | Make School"

▼ GenericContainer

GenericContainer

▼ ARIA Attributes

No ARIA attributes

▼ Computed Properties

▼ Name: ""

aria-labelledby: Not specified

aria-label: Not specified

title: Not specified

Role: GenericContainer

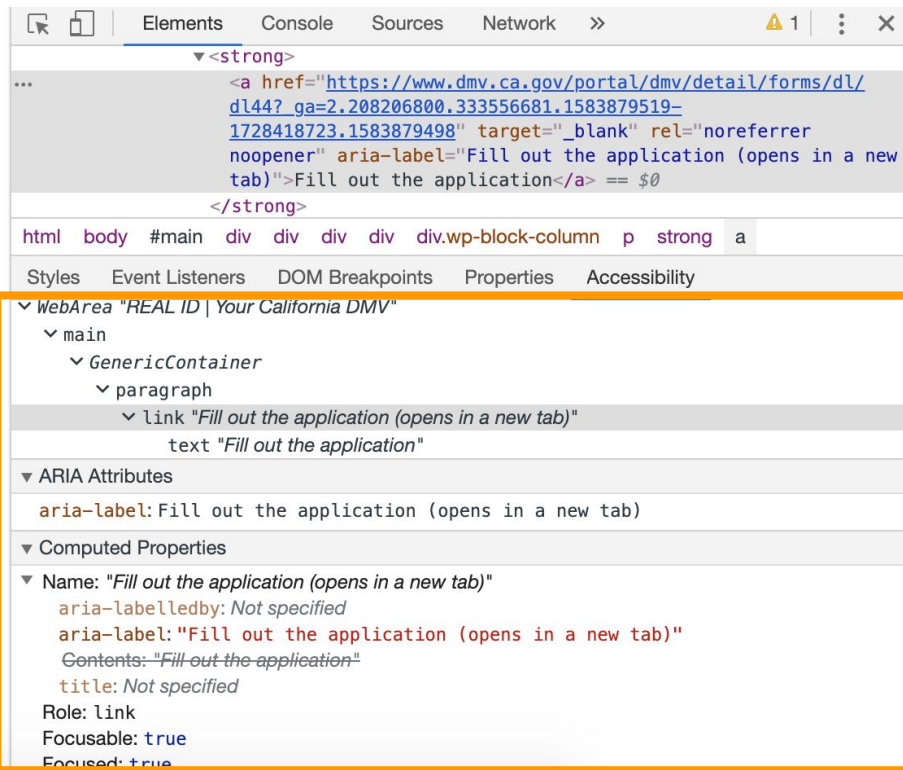
Need a REAL ID? Here's how!

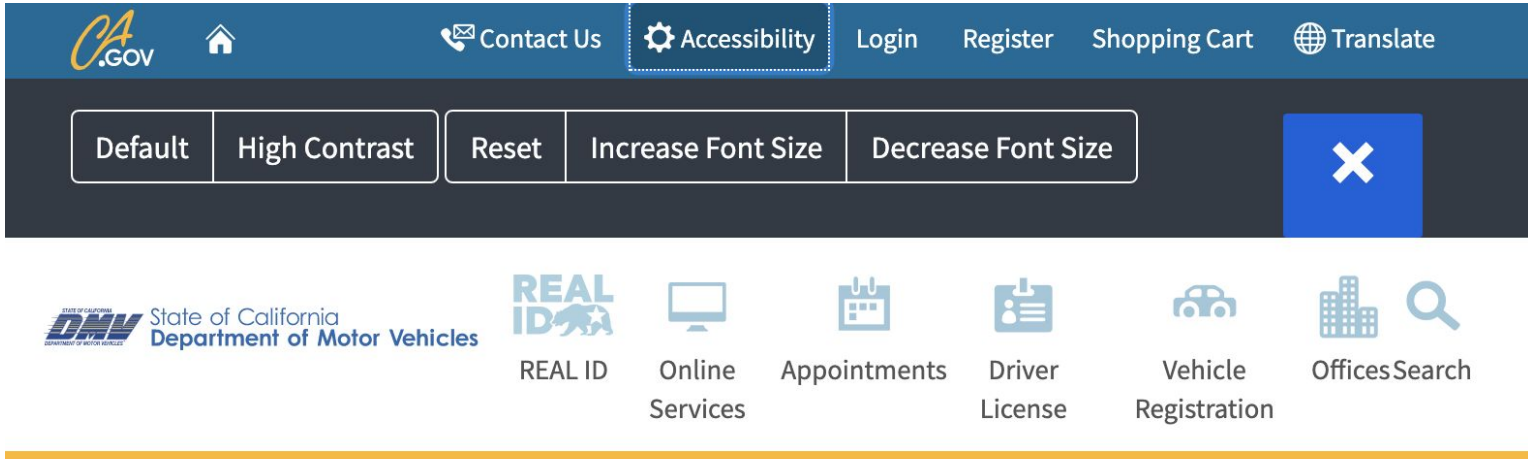
STEP
1

Fill out the application

STEP
2

Gather DMV documents





DMV Service Options

Demo

Using ChromeVox

Watch [this video](#) of Adriana trying to apply for an ID in the DMV website.

- How easy was it to get where she needed to be?
- What are some challenges navigating this way?
- What were the most common mistakes?

Your turn

10 min

Install [ChromeVox](#)

Use [make.sc](#) to get info for new applicants. Notice if it's an easy task.

Ctrl + Cmd + AA
To enable/disable

What about native mobile?

iOS provides built-in accessibility features, accessibility APIs, and developer tools.

- **VoiceOver** - screen reader for blind and low vision users
- **Switch Control**
- Playback of closed **captioned** or **audio** described video
- **Text to Speech**
- **Accessibility Inspector**

[Accessibility by Apple](#)

[A tutorial to get started](#)



Evaluating your work

8 min

Use ChromeVox to evaluate your capstone site.

- Are you using ARIA attributes?
- Is it easy to navigate?

It's ok if it's not great at the moment, but from now on keep accessibility in mind and do this type of evaluation. 😊

<https://www.usability.gov/what-and-why/accessibility.html>

<https://uxdesign.cc/designing-for-accessibility-is-not-that-hard-c04cc4779d94>

<https://developer.apple.com/accessibility/ios/>

https://en.wikipedia.org/wiki/Web_Content_Accessibility_Guidelines

<https://www.lullabot.com/articles/what-heck-aria-beginners-guide-aria-accessibility>

https://www.youtube.com/watch?v=0hqhAljE_8I