

# Accessibility!



# Terms you may hear

**a11y**

– abbreviation for “accessibility”

**ADA**

– Americans with Disabilities Act

**ARI**

– Accessible Rich Internet Applications

**A, AA, AAA**

– ADA compliance standards

Snapdocs is currently held to AA standards

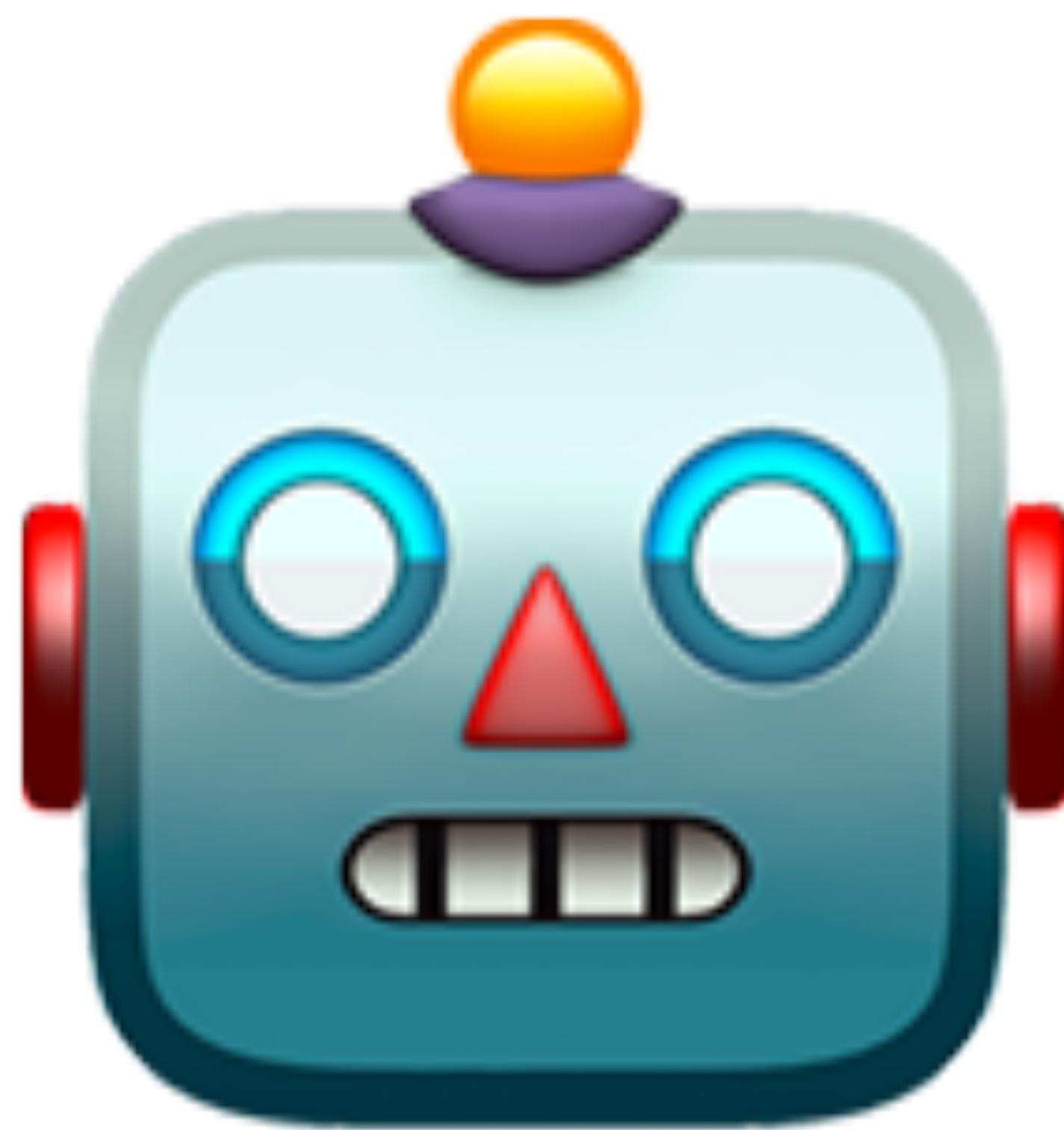
# A11y is for everyone



# A11y is for everyone online

- Semantic interfaces
- Headings with heirarchy
- Labelled forms
- Generous color contrast

# Today, we're talking about Screenreaders



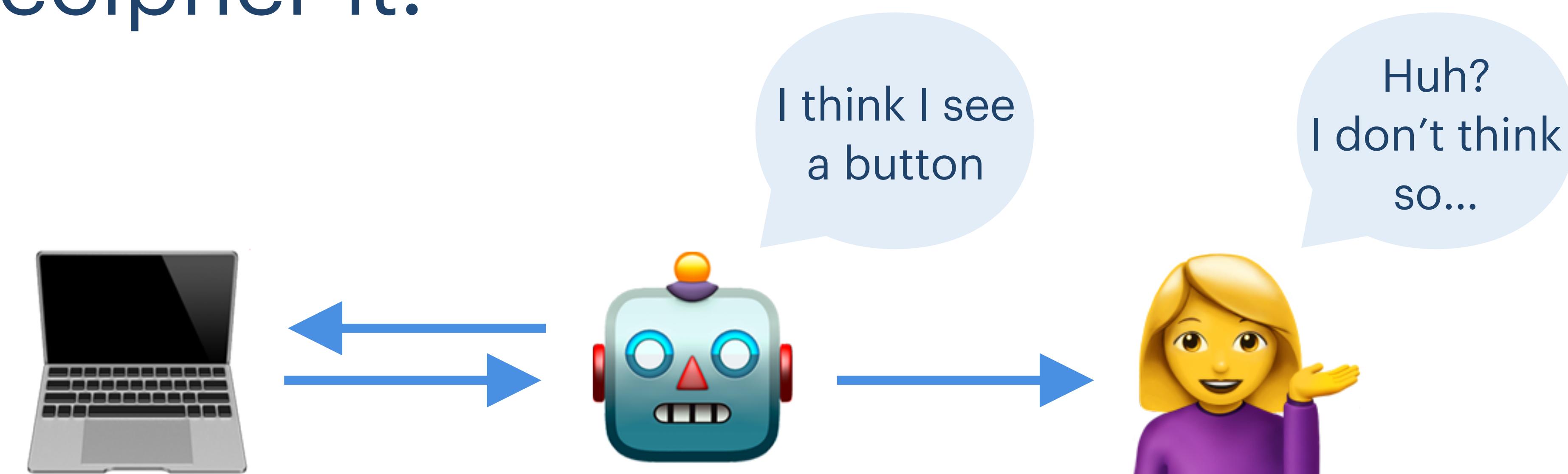
To enable your Mac screenreader:

Go to **System Preferences > Accessibility > VoiceOver**

OR press **TouchID 3 times** while holding **Command**

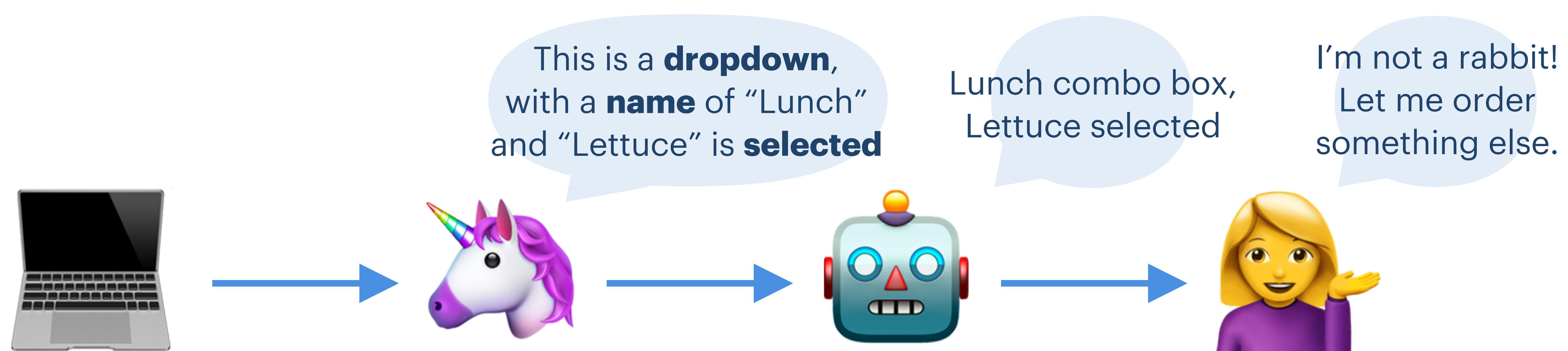
# Back when screenreaders first came out...

Screenreaders had to “look” at the screen  
and try to decipher it.



# Everything changed with Accessibility APIs

The Accessibility API lets applications talk directly to the screenreader.



# Working with the Accessibility API



For any given element, the unicorn wants to know...

**Role** – What kind of element is this?

**Name** – What is its name?

**State** – If this is interactive, what state is it in?

Then, it assembles a tree with all of this information, called the **Accessibility Tree**

# Role Name State



# Role Crosswalk! Name State



**Role  
Crosswalk!  
Name  
Mntgmry  
& Sutter  
State**



**Role  
Crosswalk!  
Name  
Mntgmry  
& Sutter  
State  
You can cross!**



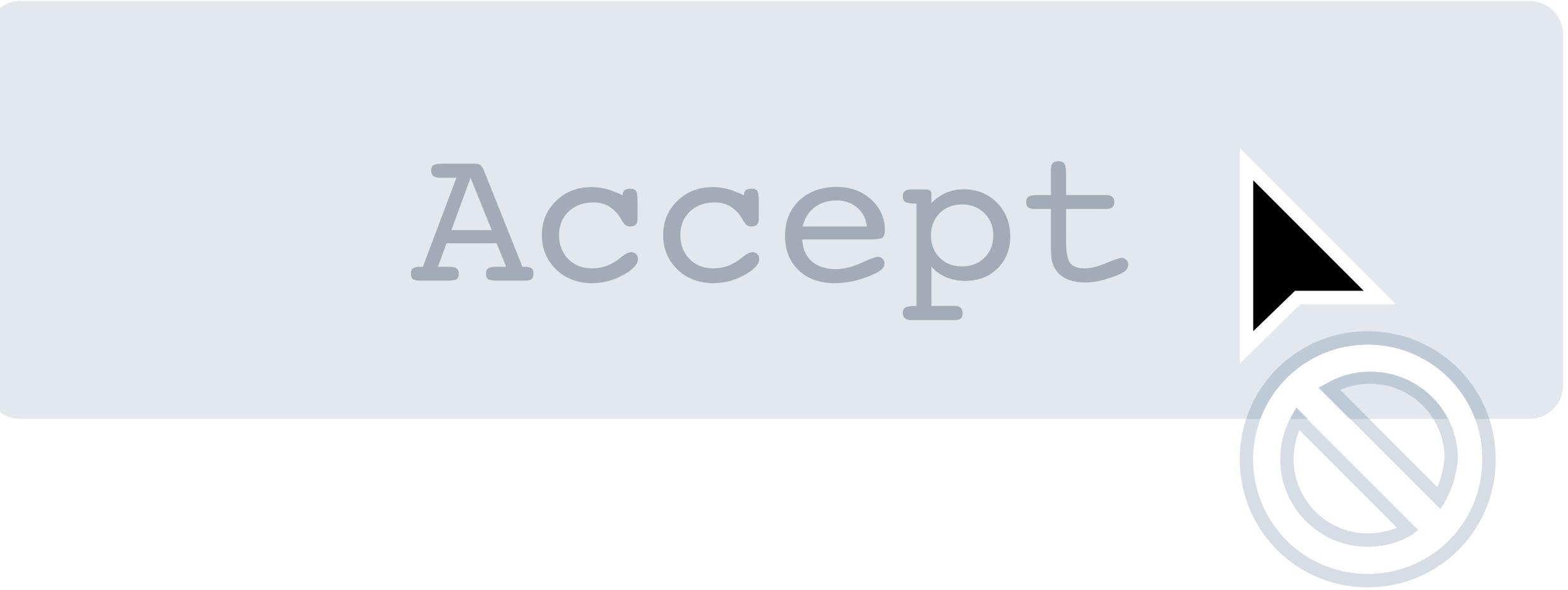
**Role**  
**Button**

**Name**

**Accept**

**State**

**Disabled**



**Let's put it to the test**

# Tools to make life easier

**eslint-plugin-jsx-a11y** Lint rules to catch basic a11y bugs.

**cypress-axe** Cypress integration to find a11y errors.

**Chrome Audits** Lets you run an a11y audit from your browser.

**WAVE Accessibility Extension** Browser extension with detailed audits.

**WCAG Color Contrast Checker** Foreground/background contrast ratios.

**The PC in our Office!** Has IE11, Firefox and NVDA to check different screenreaders.

# Further reading

**Accessibility APIs: A Key To Web Accessibility** Smashing Mag

**Accessibility | MDN** Mozilla

**Accessibility | React** ReactJS

**UX Accessibility for Teams** US General Services Administration

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