

a11y-friendly documentation

bit.ly/a11y-docs-resources

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a11y

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accessibility

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bit.ly/a11y-numeronym

a11y

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bit.ly/a11y-numeronym



The A11Y Project

A community-driven effort to make web accessibility easier.

[Learn more](#)

[Contribute on Github](#)

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a11yproject.com

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

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bit.ly/a11yfore

1,000,000,000

 *World Health Organization*

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bit.ly/who-at

how people interact
with the web

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assistive technology

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screen readers



- jaws - job access with speech
- apple's voiceover
- microsoft's narrator

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 **Hello**

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

 **Hello**

So you want to learn GraphQL?

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

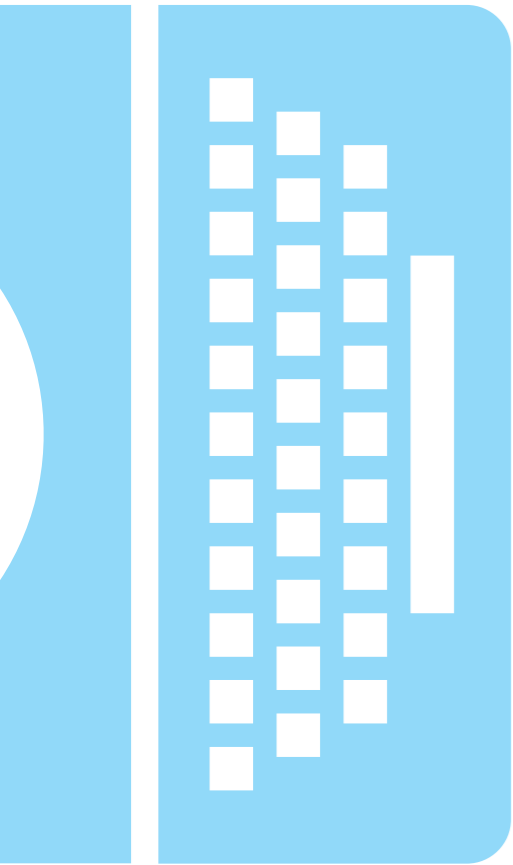
First question: Do you Know what GraphQL is?

Yes

No

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

keyboard navigation



- specialist
- custom
- on-screen

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Power the world's entrepreneurs

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

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

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bit.ly/shopify-dp

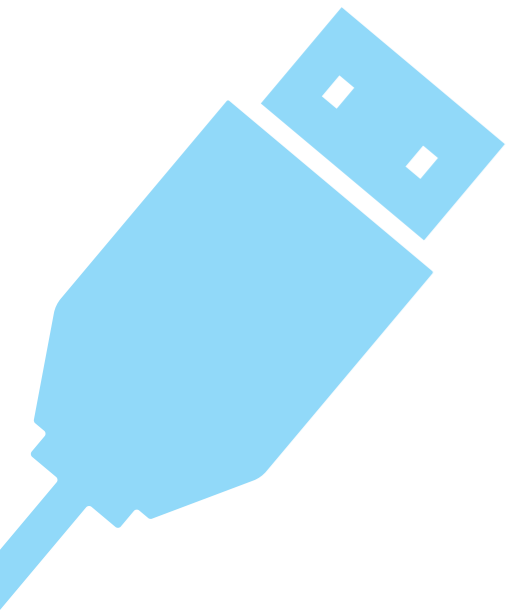
navigation hardware



- touchscreens
- mouth sticks
- foot-operated mice

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switch inputs



- mechanical buttons
- foot plates
- electronic sensors

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trackers



- eye
- head
- dwell control

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there's a **business**
case for a11y

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bit.ly/w3-bcase

but documentation
is left out

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“documentation is
for developers”

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One out of every 66
software developers is
blind or hard of sight

——— *StackOverflow Developer Survey*

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bit.ly/so-devsurvey

“The tutorials are undoubtedly good, but were **completely unreadable** for me”

———— *Florian Beijers, freeCodeCamp*

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bit.ly/fcc-florian

most of us are
already doing it

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- logical layouts
- user journeys
- localization
- cross-browser testing

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this is our
responsibility

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“We may or may not be responsible for writing the HTML, but if the developers we’re working with don’t produce semantic structure, then they’re not actually **representing the structures** that we’re building in our designs”

————— *Anne Gibson, independent consultant*

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bit.ly/pfa-anne

structure and hierarchy

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[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

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[Redacted]

[Redacted]

[Redacted]

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[Redacted text block]

[Redacted text block]

[Redacted text block]

- [Redacted list item]
- [Redacted list item]
- [Redacted list item]

[Redacted text block]

[Redacted text block]

html - hypertext markup language

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bit.ly/a11yfore

- h1
- nav
- aside
- ul / ol

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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 v

ADVANCED GUIDES v

API REFERENCE v

CONTRIBUTING v

FAQ v

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bit.ly/react-gs



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

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

Getting Started

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-
- [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.

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aria - accessible rich
internet applications

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aria roles

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

aria properties

```
<div id="newsletter">Newsletter</div>  
  <div>  
    <div id="email">Email</div>  
    <input type="text" aria-labelledby="newsletter email"/>  
  </div>
```

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bit.ly/mdn-aria

aria states

```
<span aria-hidden="true">  
  There was an error. Please try again.  
</span>
```

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best for `<div>` and
`` elements

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focus indicators

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stripe docs

🏠 Home

💳 Payments

🕒 Billing

🌐 Connect

🔍 Search documentation...

Connect Overview

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

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bit.ly/stripe-connect

- links
- form fields
- widgets
- buttons
- menu items

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Welcome to GOV.UK

The best place to find government services and information
Simpler, clearer, faster



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 tabs, accordions, search results, etc with just my keyboard?
- do I have a skip navigation link?

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skip links

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Twilio Docs

Dig into our API reference documentation and quickstarts, or play [TwilioQuest](#) and learn at your own pace. You're covered with everything from SDKs in your favorite languages to sample apps for web, iOS, and Android.

Sign up for Twilio

SMS

Read the docs

Twilio Programmable SMS lets you send and receive text messages using the programming languages you already know and love.

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twilio.com/docs

- [Programmable Fax](#)
- Super Network
- [Phone Numbers](#)
- [Short Codes](#)
- [Elastic SIP Trunking](#)
- [Programmable Wireless](#)
- [Interconnect](#)
- [Lookup](#)

- [Engagement Cloud](#)
- [Twilio Flex New](#)
- [Twilio Studio](#)
- [Notify](#)
- [TaskRouter](#)
- [Two-factor Authentication](#)
- [Verification](#)
- [Proxy](#)
- [Understand](#)

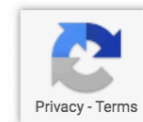
- Runtime
- [Functions](#)
- [Sync](#)

- Marketplace
- [Add-ons](#)
- [Channels](#)

Use Cases

- [Access Security](#)
- [Call & Text Marketing](#)
- [Collaboration](#)
- [Contact Center](#)
- [Commerce Communications](#)

-
- [SIGNAL Conference](#)
 - [Customer Stories](#)
 - [Learn](#)
 - [Partner Showcase](#)
 - [Why Twilio?](#)
 - [Support Plans](#)
 - [Enterprise Plan](#)



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twilio.com/docs



MDN web docs

Technologies ▾

References & Guides ▾

Feedback ▾

Sign in 



Resources for developers, by developers.

 Search the docs

Web Technologies →

Learn web development →

Developer Tools →

Get the best
CSS Grid Tools

Only in Firefox

Learn the best of web
development

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developer.mozilla.org

images

@carolstran

alt tags

@carolstran



Is there Uber in _____ ?

Search by **algolia**

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isthereuber.in



Is there Uber in _____ ?

Search by **algolia**

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isthereuber.in

× ?



Is there Uber in

?

Search by **algolia**

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isthereuber.in

918e15484df8b5806e
f5612f985260e9.svg

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```

```

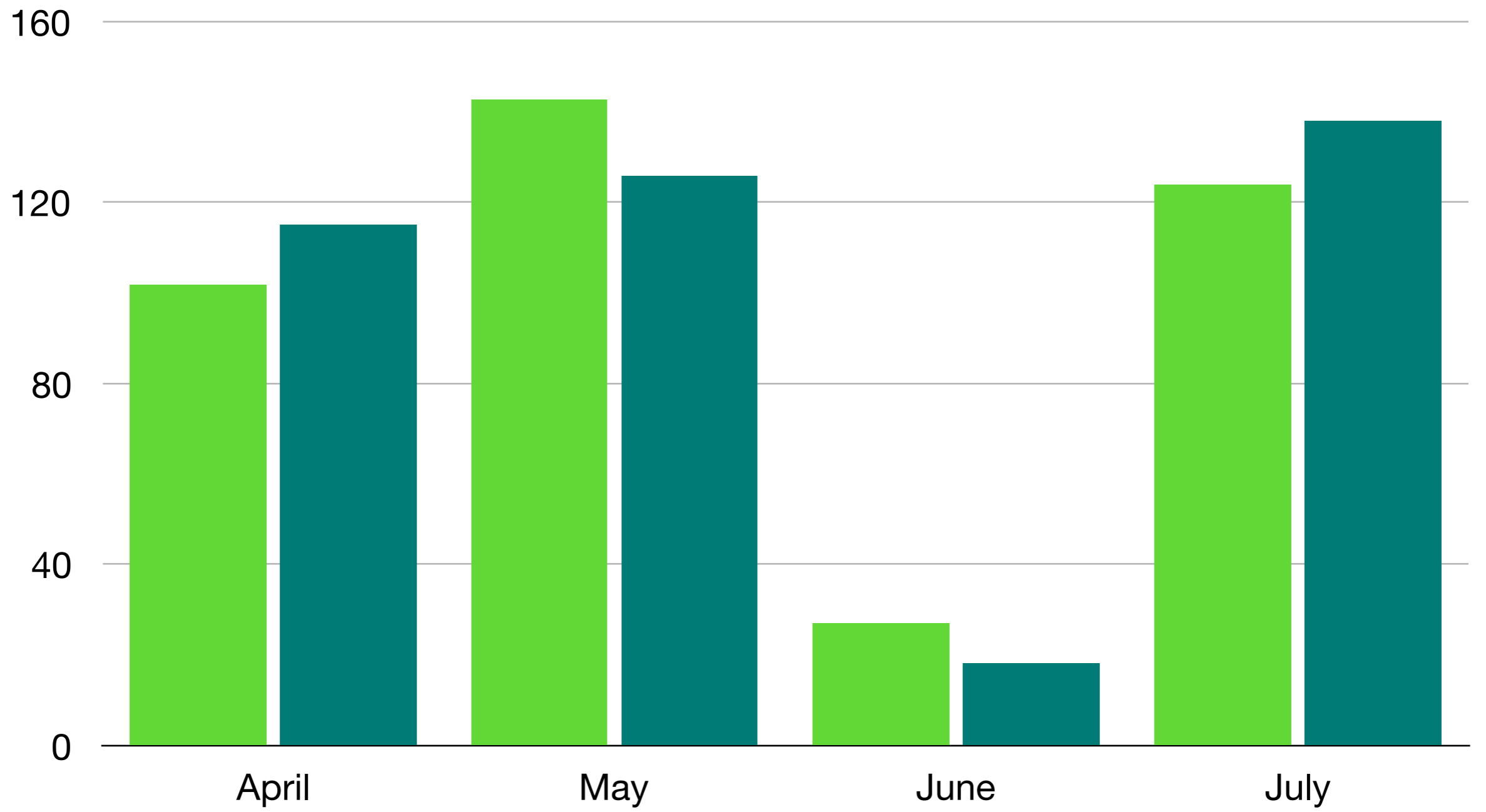
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charts and infographics

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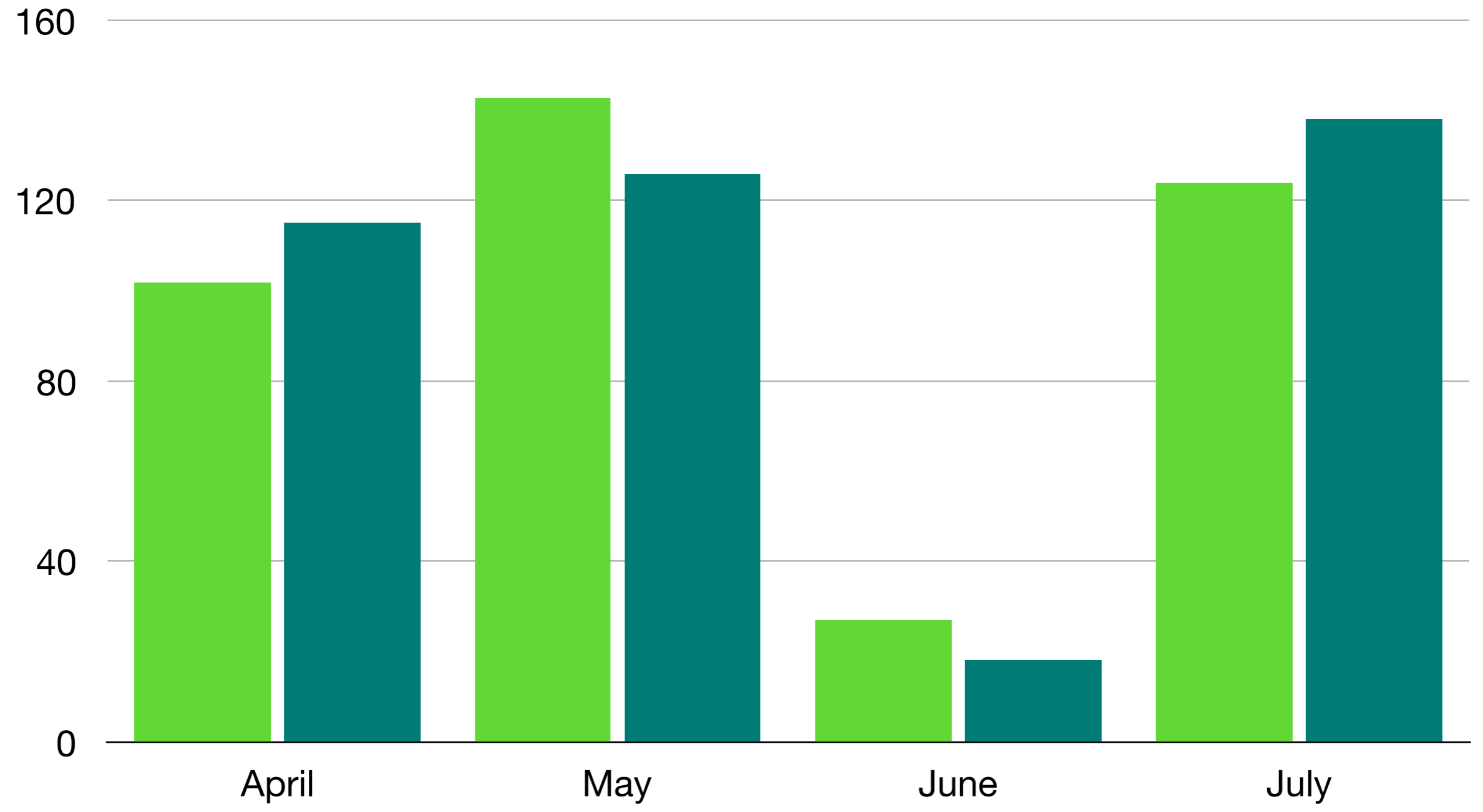
- what are the highlights and lowlights of the graphic?
- what are the most important and notable parts?

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iOS vs Android Downloads

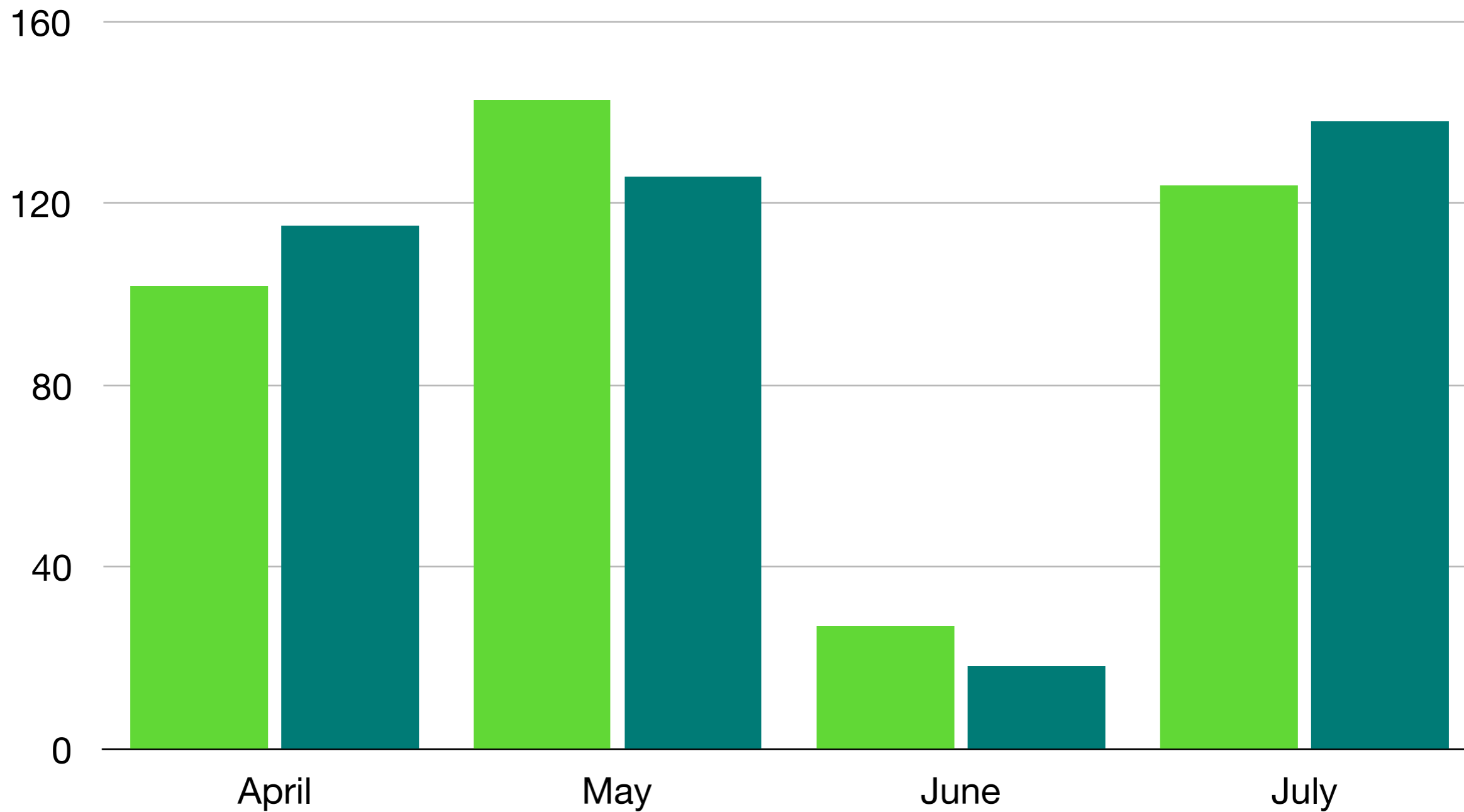


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102 iOS downloads and 115 Android downloads occurred in April. 143 iOS downloads and 126 Android downloads occurred in May. 27 iOS downloads and 18 Android downloads occurred in June. 124 iOS downloads and 138 Android downloads occurred in July.

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iOS vs Android Downloads



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The lowest amount of downloads occurred in June, with 27 iOS and 18 Android.

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alt tag

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```
<svg role="img" alt="The  
lowest amount...">
```

```
  . . .  
</svg>
```

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bit.ly/charts-a11y

```
<svg role="img" aria-label="The  
lowest amount...">  
  ...  
</svg>
```

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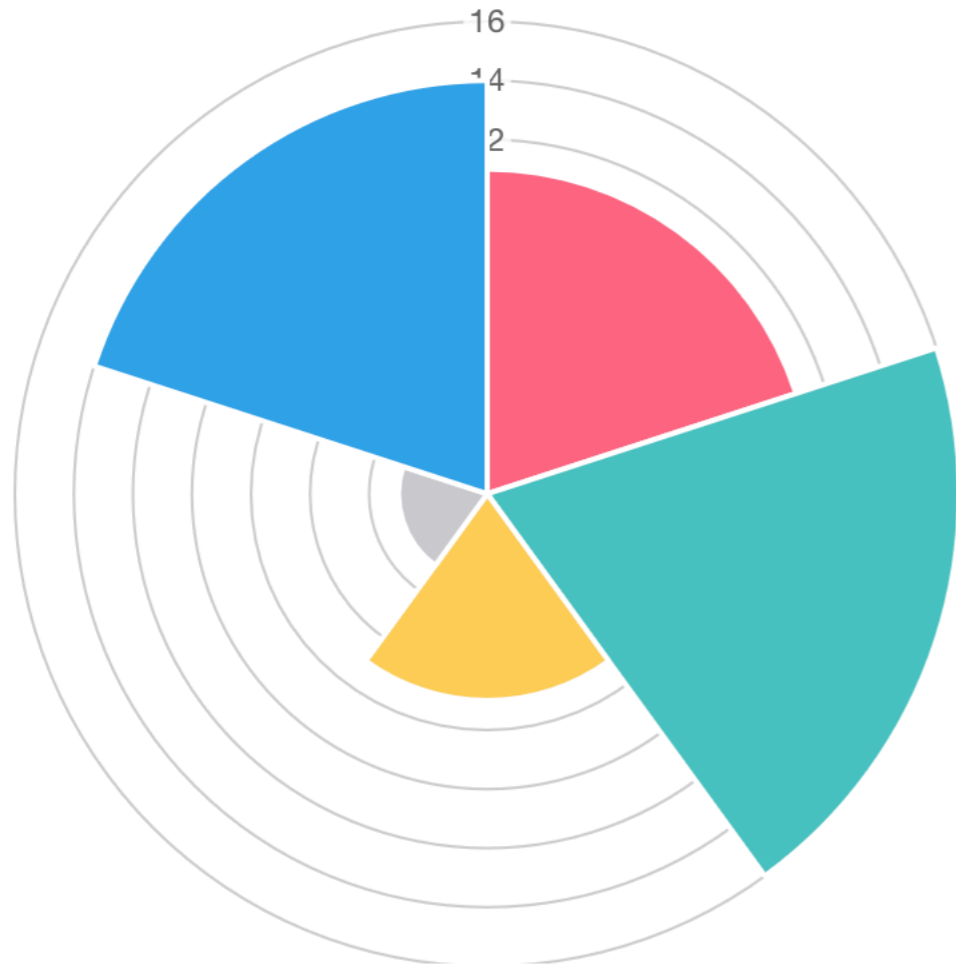
bit.ly/charts-a11y


```
<svg role="img" aria-label="iOS vs Android
Downloads" aria-describedby="chart-desc">
  <desc id="chart-desc">
    The lowest amount...
  </desc>
  ...
</svg>
```

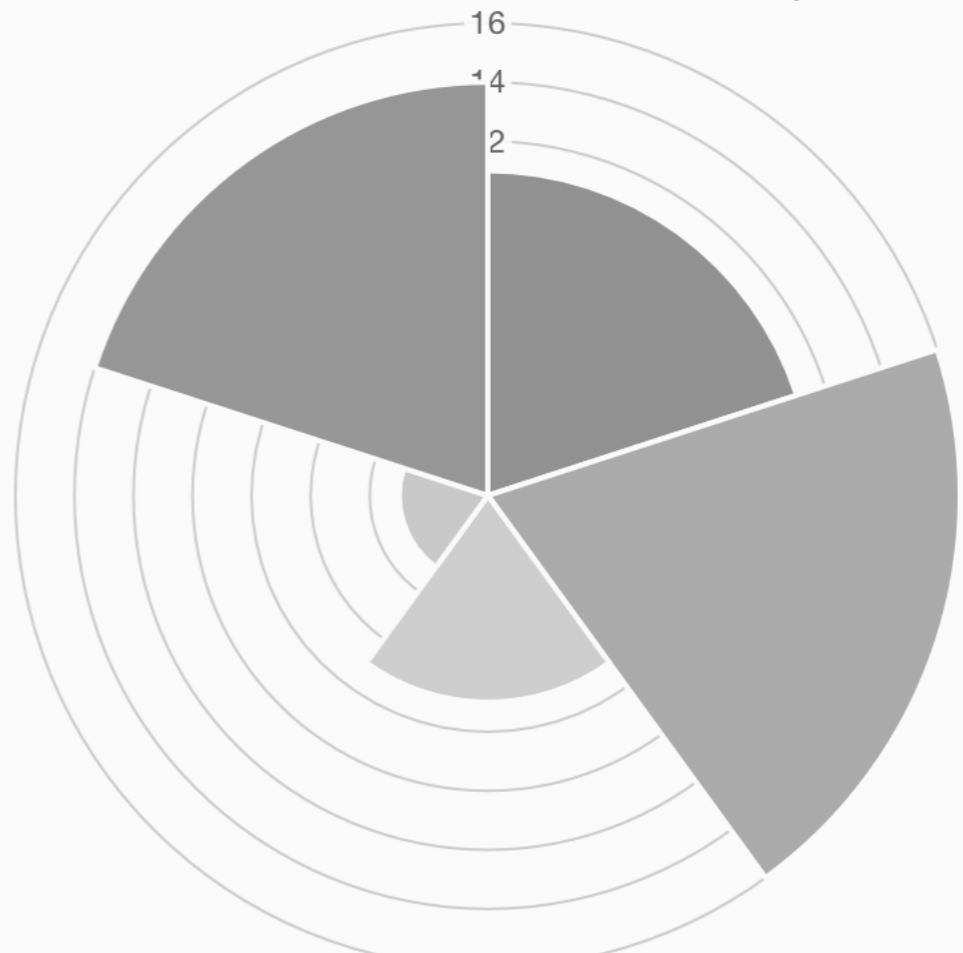
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bit.ly/charts-a11y

Red Green Yellow Grey Blue












Red Green Yellow Grey Blue



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Labels ×

Search labels...

- Improvement** 
-  
-  
-  
- New idea** 
- Housekeeping** 










[Create a new label](#)

[Disable color blind friendly mode.](#)

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Labels ×

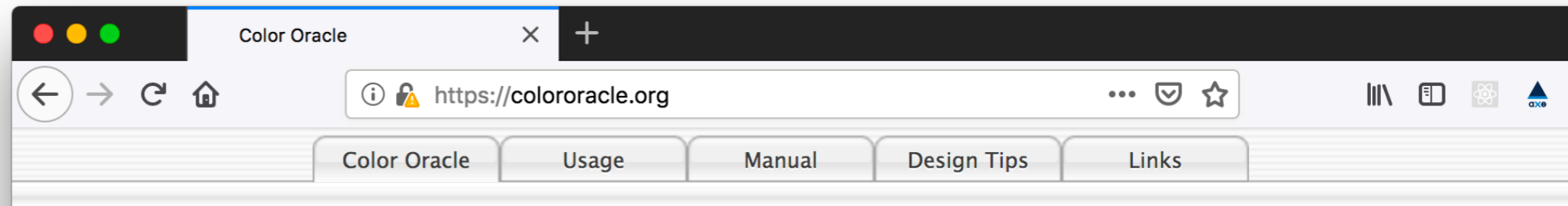
Search labels...

- Improvement** 
-  
-  
-  
- New idea** 
- Housekeeping** 

[Create a new label](#)

[Disable color blind friendly mode.](#)

trello.com



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

Color Oracle is a work in progress and will improve with time and your input. Please share your Color Oracle testimonial with us and send us an [email](#).

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WebAIM: Color Contrast Checker X

https://webaim.org/resources/contrastchecker/

WebAIM
web accessibility in mind

services articles

Search WebAIM

Introduction to Web Accessibility

WebAIM Training

Color Contrast Checker

[Home](#) > [Resources](#) > Color Contrast Checker

Foreground Color
#292929
Lightness

Background Color
#91D9F9
Lightness

Contrast Ratio
9.35:1
[permalink](#)

Normal Text

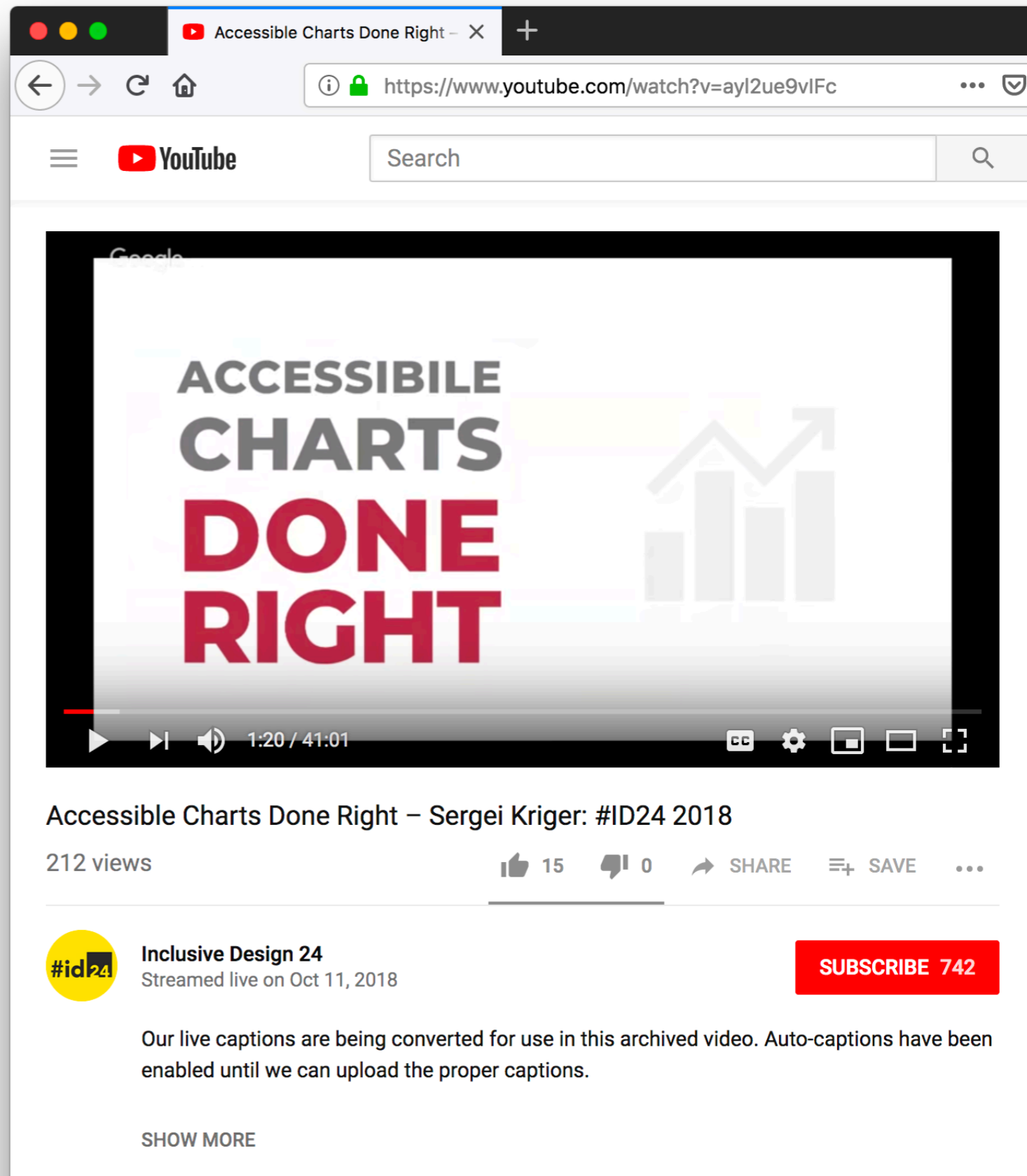
WCAG AA: **Pass**

WCAG AAA: **Pass**

Large Text

The five boxing wizards jump quickly.

bit.ly/charts-a11y



The screenshot shows a YouTube video player interface. The browser tab is titled "Accessible Charts Done Right - X". The address bar shows the URL "https://www.youtube.com/watch?v=ayl2ue9vIFc". The YouTube logo and search bar are visible at the top. The video player displays a title card with the text "ACCESSIBLE CHARTS DONE RIGHT" in large, bold letters. The word "ACCESSIBLE" is in grey, "CHARTS" is in grey, "DONE" is in red, and "RIGHT" is in red. To the right of the text is a faint background image of a bar chart with an upward-pointing arrow. Below the video player, the video title is "Accessible Charts Done Right - Sergei Kriger: #ID24 2018". The view count is "212 views". There are 15 likes, 0 comments, and a share icon. A red "SUBSCRIBE 742" button is visible. Below the video player, there is a section for "Inclusive Design 24" with a yellow circular logo containing "#id24". The text says "Streamed live on Oct 11, 2018". A note below reads: "Our live captions are being converted for use in this archived video. Auto-captions have been enabled until we can upload the proper captions." A "SHOW MORE" link is at the bottom.

Accessible Charts Done Right - Sergei Kriger: #ID24 2018

212 views 15 likes 0 comments SHARE SAVE ...

#id24 Inclusive Design 24
Streamed live on Oct 11, 2018 **SUBSCRIBE 742**

Our live captions are being converted for use in this archived video. Auto-captions have been enabled until we can upload the proper captions.

SHOW MORE

code snippets

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```
if (x == true) {  
    console.log("hello world!")  
}
```

 *example if-block in JavaScript*

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if left paren x equals equals true
right paren left brace console dot log
left paren quote **hello world** exclaim
quote right paren right brace

 *the example if-statement read by a screen reader*

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<code>

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<code>

use meaningful
variable names

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<code>

use meaningful
variable names

watch for extra spaces

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inclusive writing

@carolstran

plain language

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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

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bit.ly/ashley-fronteers

testing for accessibility

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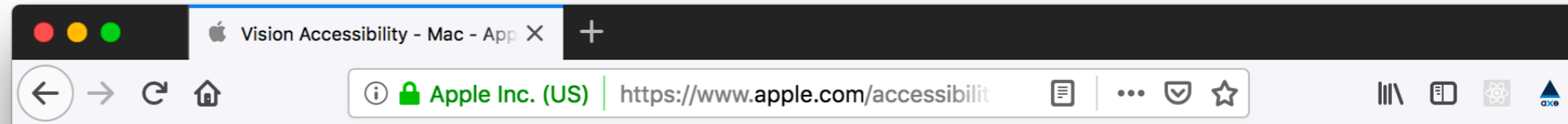
wcag - web content
accessibility guidelines

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most assistive
technologies are
free or inexpensive

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Accessibility

Mac iPad iPhone Watch TV HomeP

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 >](#)

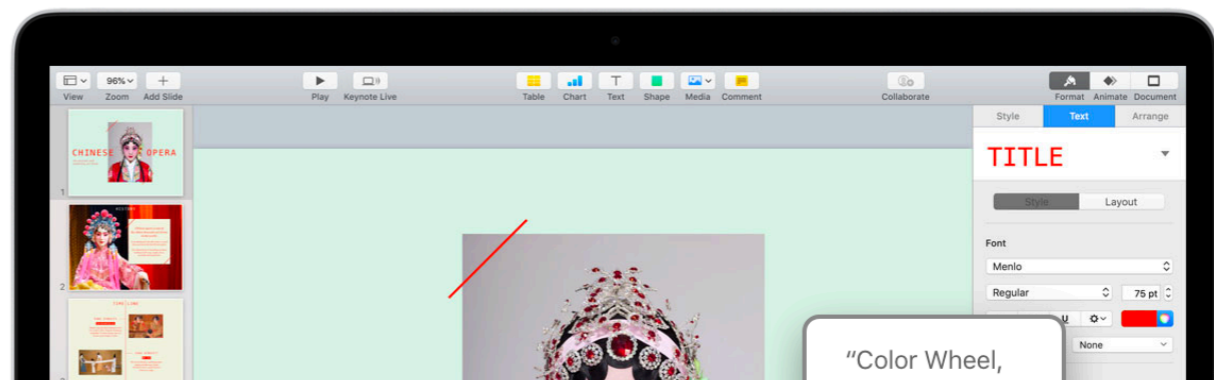
[Learn about supported languages for VoiceOver >](#)

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 >](#)

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Empowering lives through
non-visual access to technology

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



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dev tools

- firefox
- chrome
- safari

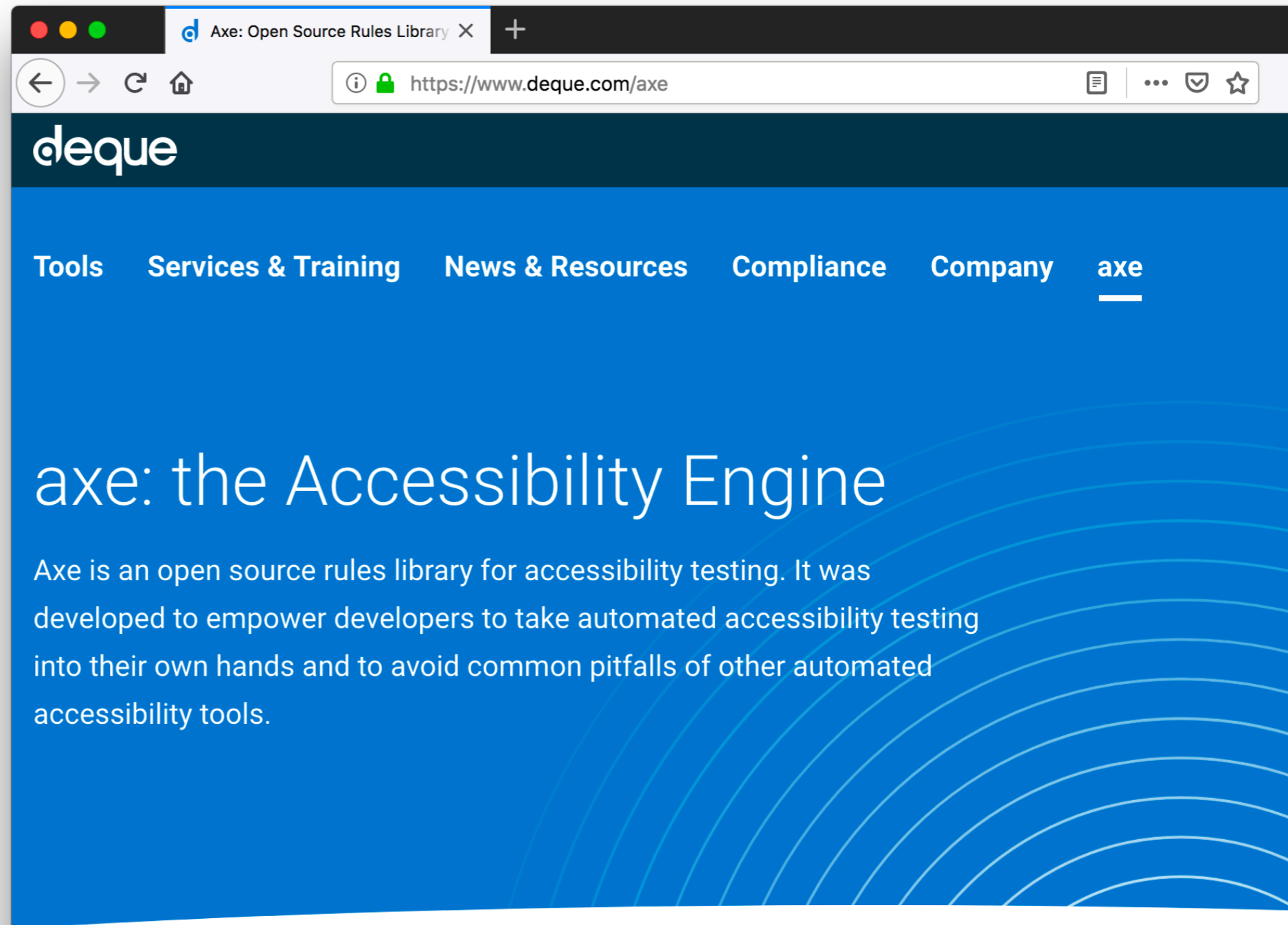
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The screenshot shows a Firefox browser window with the title "Accessibility Inspector - Firefox". The address bar shows the URL "https://developer.mozilla.org/en-US/docs/Tools/Accessibility_inspec". The MDN web docs logo is visible in the top left, with navigation links for "Technologies", "References & Guides", and "Feedback". The main heading is "Accessibility Inspector". Below the heading is a "Jump to:" section with links: "A (very) brief guide to accessibility" (underlined), "Accessing the Accessibility Inspector", and "Features of the Access...". Below this are "Notable related features", "Typical use cases", and "See also". The main content area has a sub-heading "Firefox Developer Tools > Accessibility Inspector" followed by a "Related Topics" section with links: "Core Tools", "More Tools", "Connecting the devtools", "Debugging the browser", and "Extending the devtools". Below that are "Settings" and "Release notes". The main text reads: "The Accessibility Inspector provides a means to access important information exposed to assistive technologies on the current page, including the accessibility tree, allowing you to check what's missing or what needs attention. This article takes you through the main features of the Accessibility Inspector and how to use it." Below the text is a horizontal line and a sub-heading "A (very) brief guide to accessibility". The text continues: "Accessibility is the practice of making your websites usable by as many people as possible. This means trying your best to not lock anyone out of accessing information because of a disability they may have, or any other personal circumstances such as the device they are using, the speed of their network connection, or their geographic location or local time zone." The final sentence is: "Here we are mainly talking about exposing information to people with visual disa..."

free **extensions**
and validators

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Introduction

What is Vue.js?

Vue (pronounced /vjuː/, like **view**) is a **progressive framework** for building user interfaces. Unlike other monolithic frameworks, Vue is designed from the ground up to be incrementally adoptable. The core library is focused on the view layer only, and is easy to pick up and integrate with other libraries or existing projects. On the other hand, Vue is also perfectly capable of powering sophisticated Single-Page Applications when used in combination with **modern tooling** and **supporting libraries**.

If you'd like to learn more about Vue before diving in, we **created a video** walking through the core principles and a sample project.

If you are an experienced frontend developer and want to know how Vue compares to other libraries/frameworks, check out the **Comparison with Other Frameworks**.

Getting Started

! The official guide assumes intermediate level knowledge of HTML, CSS, and JavaScript. If you are totally new to frontend development, it might not be the best idea to jump right into a framework as your first step - grasp the basics then come back! Prior experience with other frameworks helps, but is not required.



It's teamwork, but simpler, more pleasant and more productive.

ads via Carbon

The screenshot shows the axe accessibility tool interface. At the top, it says "All issues found 128" and "Run again". Below this is a list of issues:

- Elements must have sufficient color contrast: 116
- id attribute value must be unique: 1
- Form elements must have labels: 3
- Links must have discernible text: 4
- and must only directly contain , <script> or <template> elements: 1
- Zooming and scaling must not be disabled: 1

The detailed view for the "Elements must have sufficient color contrast" issue shows:

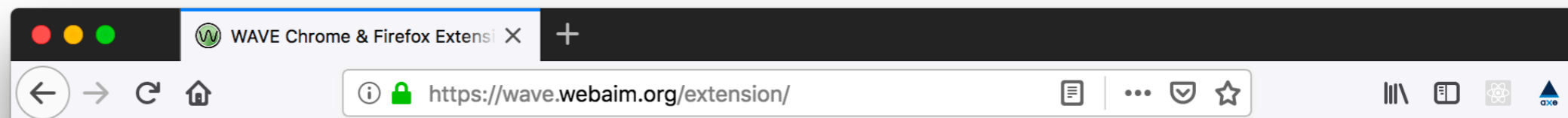
- Issue description:** Ensures the contrast between foreground and background colors meets WCAG 2 AA contrast ratio thresholds. Impact: **serious**. [Learn more](#)
- Element location:** `.carbon-poweredby`
- Element source:**

```
<a href="http://carbonads.net/?utm_source=vuejsorg&utm_medium=ad_via_link&utm_campaign=in_unit&utm_term=carbon" class="carbon-poweredby" target="_blank" rel="noopener">ads via Carbon</a>
```
- To solve this violation, you need to:**

Fix the following:
Element has insufficient color contrast of 2.32 (foreground color: #aaaaaa, background color: #ffffff, font size: 9.8pt, font weight: normal). Expected contrast ratio of 4.5:1

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bit.ly/vue-v2



[Site-wide WAVE Tools](#)

[Browser Extensions](#)

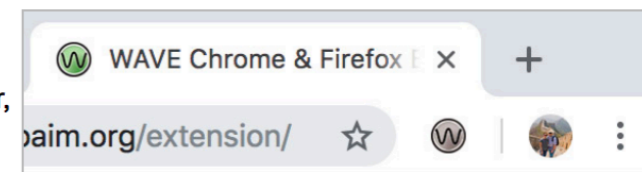
[Help](#)

[About/Terms of Use](#)

[Feedback](#)

WAVE Browser Extensions

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.

Copyright, privacy notice, and other stuff

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App features

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Building internal integrations for your workspace



It's your Slack workspace. You want it to work with you. To work for you.

One way is to make integrations, bots, and other tools— just for your workspace. You can build *with* your team *for* your team. Or go it alone.

Here's what you can do with internal integrations on Slack.

- [Link your tools & workflows to Slack using simple building blocks](#)
- [Install your internal apps with the click of a button](#)
- [Build things quickly without worrying about the details](#)

Simple building blocks

Internal integrations can do what Slack apps can do. Internal integrations *are* Slack apps. They just integrate with the stuff you want them to.

- [Incoming webhooks](#) provide the easiest way to send a message or notification. And you can make them interactive too. Perfect for one-to-one, batch prints, or invoicing.

Related Articles

[Hello world: sending your first Slack app message](#)
Tutorial by Slack

[Building great user experiences on Slack](#)
Best practices by Slack

[Build an infinitely scalable* Slack app in 5 minutes](#) ↗
Tutorial by Brian Leroux (medium.com)

[Binding accounts across services](#)
App blueprint by Slack

[Making messages actionable](#)
App blueprint by Slack

make accessibility
a **priority**

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create an

accessibility policy

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The screenshot shows a web browser window with the title 'Documentation Accessibility'. The address bar shows the URL 'https://docs.oracle.com/javase'. The page header includes the Oracle logo and 'Java Documentation'. Below the header are navigation links: 'Oracle Technology Network', 'Software Downloads', and 'Documentation'. A search bar is located on the right side of the header. The main content area has a section titled 'Documentation Accessibility' with a light blue background. The text below this section states: 'Our goal is to make Oracle products, services, and supporting documentation accessible to all users, including users that are disabled. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at <http://www.oracle.com/us/corporate/accessibility/index.html>.' Below this is a section titled 'Accessibility of Code Examples in Documentation' with the text: 'Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.' The next section is 'Accessibility of Links to External Web Sites in Documentation' with the text: 'This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.' The final section is 'Access to Oracle Support' with the text: 'Oracle customers have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/support/contact.html> or visit <http://www.oracle.com/accessibility/support.html> if you are hearing impaired.' At the bottom of the page, there is a copyright notice: 'Copyright © 1993, 2018, Oracle and/or its affiliates. All rights reserved.' and a 'Contact Us' link.

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update your
development **checklists**

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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: ARIA Landmark Roles and HTML5 Implicit Mapping](#).

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

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