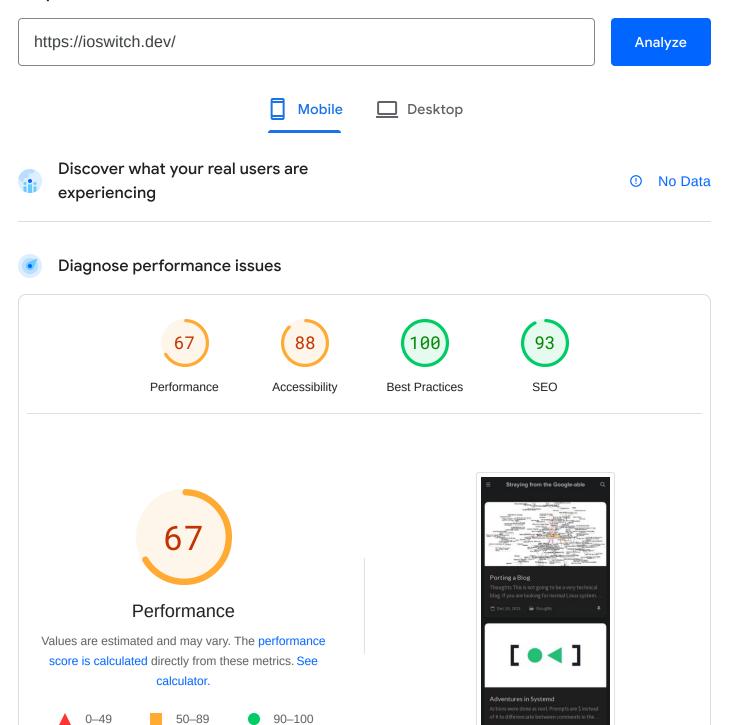


Report from Dec 23, 2023, 5:44:47 AM



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4.2 s

- AM UTC
- Emulated Moto G Power with
 - Lighthouse 11.0.0
- Slow 4G throttling

- Single page load

(1) Initial page load













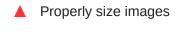




Show audits relevant to: All FCP LCP TBT CLS

OPPORTUNITIES

Opportunity Estimated Savings



Serve images that are appropriately-sized to save cellular data and improve load time. Learn how to size images.

Resource

Potential

27.87s ^

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Preview Image Preview Image Preview Image avatar Preview Image <img src="/ ...img/IBM_PC_GEM.jpg (ioswitch.dev) 367.4 KiB 341.6 KiB static

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▲ Serve images in next-gen formats

11.90s ^

Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which means faster downloads and less data consumption. Learn more about modern image formats.

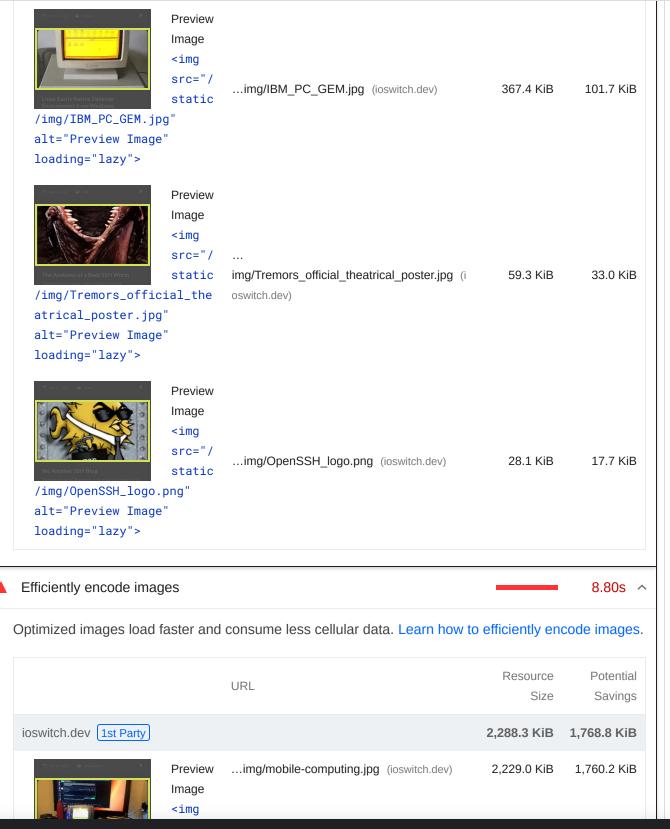
Resource Potential **URL** Size Savings ioswitch.dev [1st Party] 3,658.0 KiB 2,464.8 KiB Preview Image Preview Image avatar ...img/line_vector_me.jpg (ioswitch.dev) 184.8 KiB 455.4 KiB <img

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Learn More. Ok, Got it.

ay='none'">

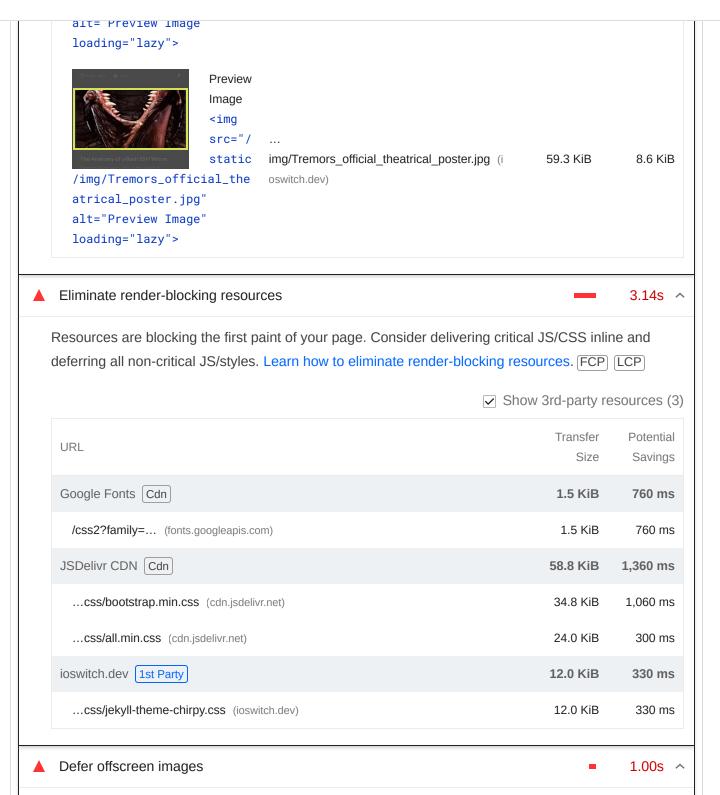




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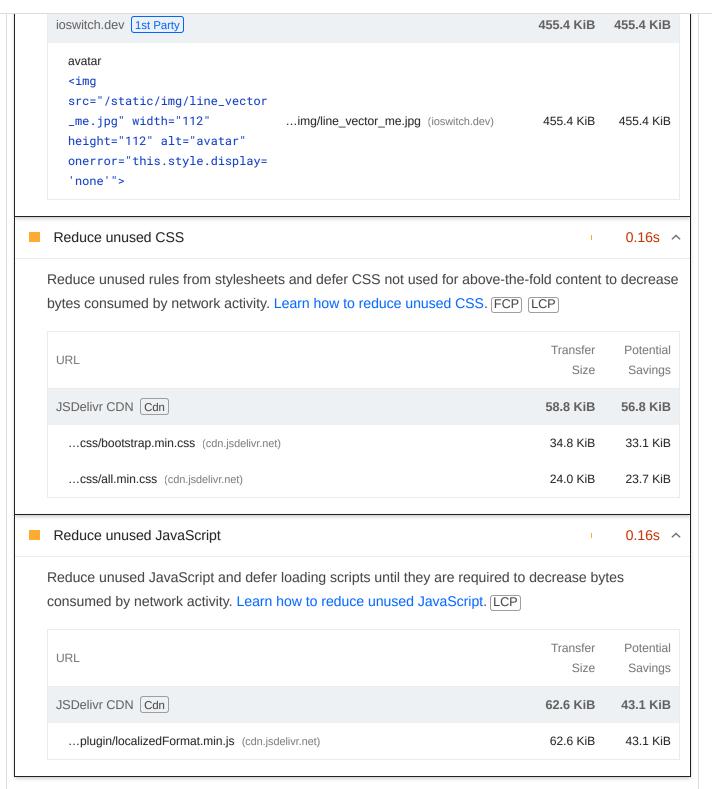
Docs



Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive. Learn how to defer offscreen images.

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These suggestions can help your page load faster. They don't directly affect the Performance score.

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policies.

URL	Cache TTL	Transfer Size
ioswitch.dev 1st Party		6,191 KiB
img/Western_Green_Lizard.jpg (ioswitch.dev)	10m	2,418 KiB
img/mobile-computing.jpg (ioswitch.dev)	10m	2,230 KiB
img/The_Thinker_Rodin_Phila.jpeg (ioswitch.dev)	10m	519 KiB
img/line_vector_me.jpg (ioswitch.dev)	10m	456 KiB
img/IBM_PC_GEM.jpg (ioswitch.dev)	10m	368 KiB
img/WorldWideWebAroundWikipedia.png (ioswitch.dev)	10m	91 KiB
img/Tremors_official_theatrical_poster.jpg (ioswitch.dev)	10m	60 KiB
img/OpenSSH_logo.png (ioswitch.dev)	10m	29 KiB
css/jekyll-theme-chirpy.css (ioswitch.dev)	10m	12 KiB
img/The_Dark_Side_of_the_Moon_Cover.svg (ioswitch.dev)	10m	2 KiB
dist/home.min.js (ioswitch.dev)	10m	2 KiB
img/Git-logo.svg (ioswitch.dev)	10m	2 KiB
img/systemd-logomark.svg (ioswitch.dev)	10m	1 KiB
/app.js (ioswitch.dev)	10m	1 KiB

▲ Largest Contentful Paint image was lazily loaded

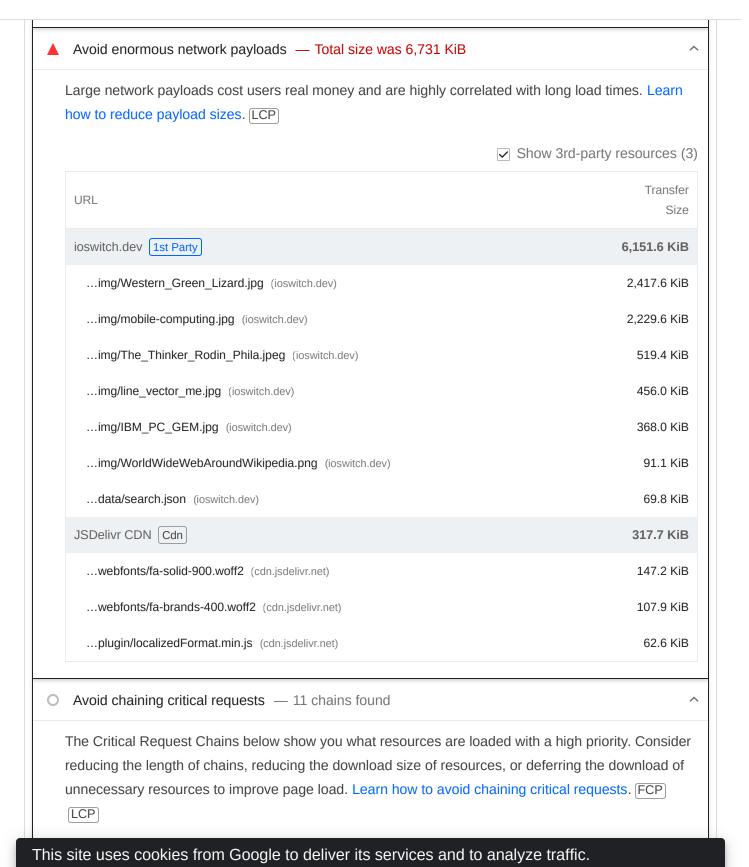
Above-the-fold images that are lazily loaded render later in the page lifecycle, which can delay the largest contentful paint. Learn more about optimal lazy loading. [LCP]

Element

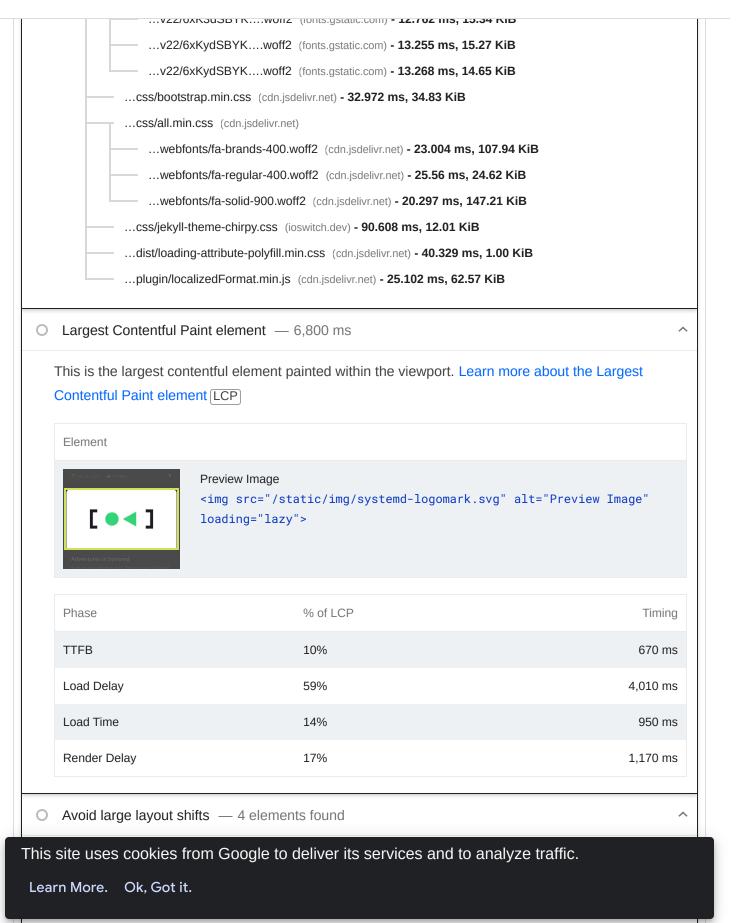
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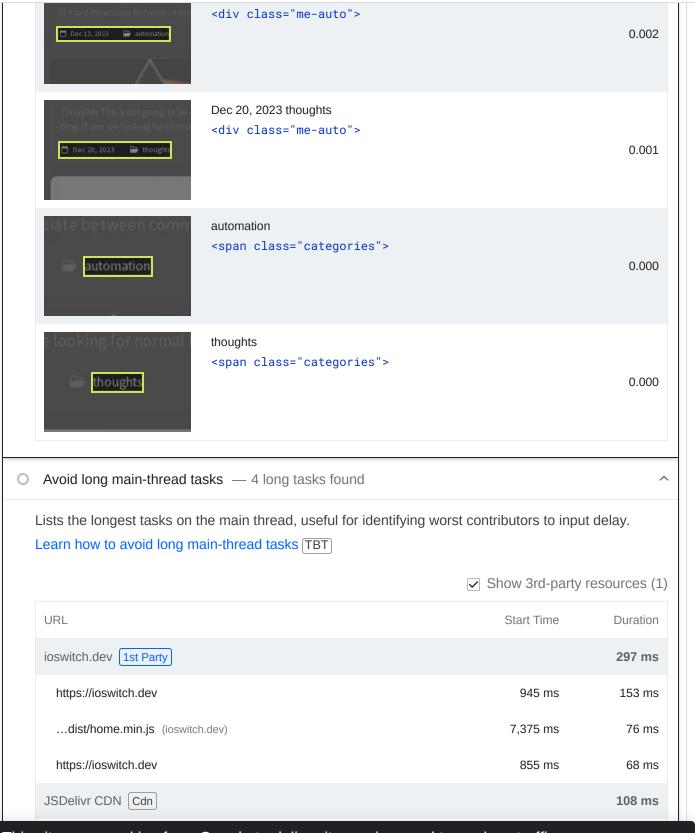
Docs











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Minifying CSS files can reduce network payload sizes. Learn how to minify CSS. FCP LCP

Minify JavaScript

Minifying JavaScript files can reduce payload sizes and script parse time. Learn how to minify JavaScript. FCP LCP

Enable text compression

Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. Learn more about text compression. FCP LCP

Preconnect to required origins

Marnings: More than 2 `<link rel=preconnect>` connections were found. These should be used sparingly and only to the most important origins.

Consider adding preconnect or dns-prefetch resource hints to establish early connections to important third-party origins. Learn how to preconnect to required origins. FCP LCP

Initial server response time was short — Root document took 40 ms

Keep the server response time for the main document short because all other requests depend on it.

Learn more about the Time to First Byte metric. FCP | LCP|

ioswitch.dev 1st Party Time Spent
40 ms

https://ioswitch.dev 40 ms

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Consider using rel=preload> to prioritize fetching resources that are currently requested later in page load. Learn how to preload key requests. FCP [LCP]

Use video formats for animated content

Large GIFs are inefficient for delivering animated content. Consider using MPEG4/WebM videos for animations and PNG/WebP for static images instead of GIF to save network bytes. Learn more about efficient video formats [LCP]

Remove duplicate modules in JavaScript bundles

Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by network activity. TBT

Avoid serving legacy JavaScript to modern browsers

Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't necessary for modern browsers. For your bundled JavaScript, adopt a modern script deployment strategy using module/nomodule feature detection to reduce the amount of code shipped to modern browsers, while retaining support for legacy browsers. Learn how to use modern JavaScript TBT

Preload Largest Contentful Paint image

If the LCP element is dynamically added to the page, you should preload the image in order to improve LCP. Learn more about preloading LCP elements. [LCP]

Avoids an excessive DOM size — 410 elements

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User Timing marks and measures

Consider instrumenting your app with the User Timing API to measure your app's real-world performance during key user experiences. Learn more about User Timing marks.

● JavaScript execution time — 0.2 s

Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. Learn how to reduce Javascript execution time. TBT

✓ Show 3rd-party resources (1)

URL	Total CPU Time	Script Evaluation	Script Parse
ioswitch.dev 1st Party	832 ms	95 ms	9 ms
https://ioswitch.dev	773 ms	39 ms	8 ms
dist/home.min.js (ioswitch.dev)	59 ms	56 ms	1 ms
Unattributable	311 ms	10 ms	0 ms
Unattributable	311 ms	10 ms	0 ms
JSDelivr CDN Cdn	165 ms	115 ms	16 ms
plugin/localizedFormat.min.js (cdn.jsdelivr.net)	165 ms	115 ms	16 ms

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	609 ms 863 ms
Style & Layout 3	63 ms
Script Evaluation 2	232 ms
Rendering	92 ms
Parse HTML & CSS	78 ms
Script Parsing & Compilation	25 ms

All text remains visible during webfont loads

Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading.

Learn more about font-display. FCP | LCP |

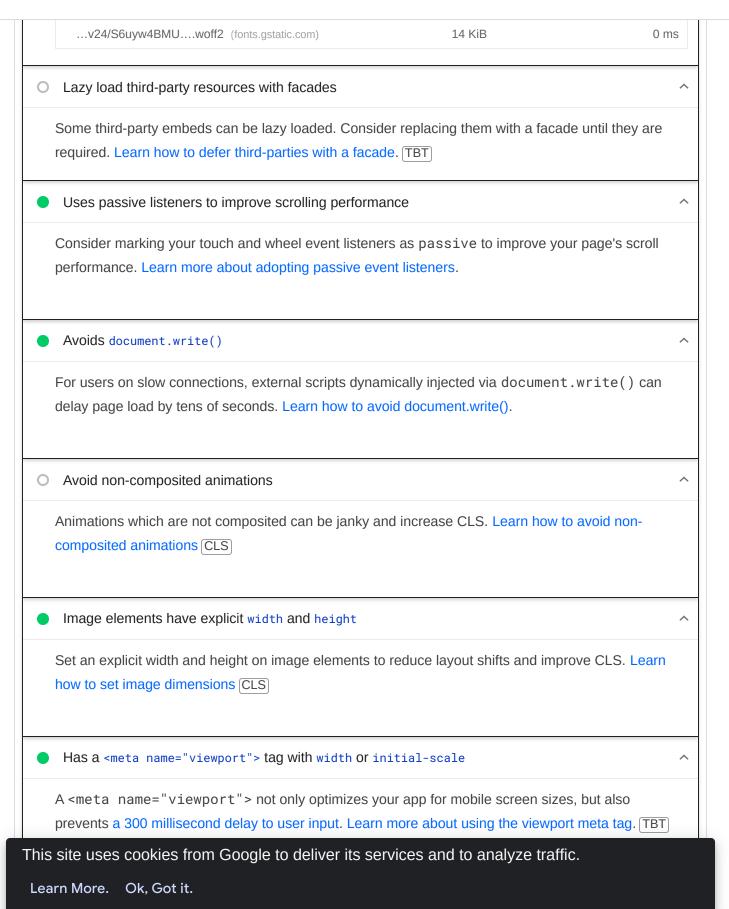
Minimize third-party usage — Third-party code blocked the main thread for 30 ms

Third-party code can significantly impact load performance. Limit the number of redundant third-party providers and try to load third-party code after your page has primarily finished loading. Learn how to minimize third-party impact. TBT

Third-Party	Transfer Size	Main-Thread Blocking Time	
JSDelivr CDN Cdn	402 KiB	33 ms	
plugin/localizedFormat.min.js (cdn.jsdelivr.net)	63 KiB	33 ms	
webfonts/fa-solid-900.woff2 (cdn.jsdelivr.net)	147 KiB	0 ms	
webfonts/fa-brands-400.woff2 (cdn.jsdelivr.net)	108 KiB	0 ms	
css/bootstrap.min.css (cdn.jsdelivr.net)	35 KiB	0 ms	
webfonts/fa-regular-400.woff2 (cdn.jsdelivr.net)	25 KiB	0 ms	
Other resources	25 KiB	0 ms	
Occardo Fordo OL	C4 I/:D	0	

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Accessibility

These checks highlight opportunities to improve the accessibility of your web app. Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so manual testing is also encouraged.

NAMES AND LABELS

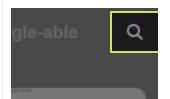


When a button doesn't have an accessible name, screen readers announce it as "button", making it unusable for users who rely on screen readers. Learn how to make buttons more accessible.

Failing Elements



div.container > header#topbar-wrapper > div#topbar > button#sidebar-trigger
<button type="button" id="sidebar-trigger" class="btn btn-link">



div.container > header#topbar-wrapper > div#topbar > button#search-trigger
<button type="button" id="search-trigger" class="btn btn-link">

▲ Links do not have a discernible name

Link text (and alternate text for images, when used as links) that is discernible, unique, and focusable improves the navigation experience for screen reader users. Learn how to make links accessible.

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These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Hide

Interactive controls are keyboard focusable

Custom interactive controls are keyboard focusable and display a focus indicator. Learn how to make custom controls focusable.

Interactive elements indicate their purpose and state

^

Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. Learn how to decorate interactive elements with affordance hints.

The page has a logical tab order

Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. Learn more about logical tab ordering.

Visual order on the page follows DOM order

DOM order matches the visual order, improving navigation for assistive technology. Learn more about DOM and visual ordering.

O User focus is not accidentally trapped in a region

^

A user can tab into and out of any control or region without accidentally trapping their focus. Learn how to avoid focus traps.

The user's focus is directed to new content added to the page

If new content, such as a dialog, is added to the page, the user's focus is directed to it. Learn how to direct focus to new content.

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 Offscreen content is hidden from assistive technology Offscreen content is hidden with display: none or aria-hidden=true. Learn how to properly hide offscreen content. Custom controls have associated labels Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. Learn more about custom controls and labels. Custom controls have ARIA roles Custom interactive controls have appropriate ARIA roles. Learn how to add roles to custom controls. These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessibility review. PASSED AUDITS (17) Hide [aria-*] attributes match their roles Each ARIA role supports a specific subset of aria-* attributes. Mismatching these invalidates the aria-* attributes. Learn how to match ARIA attributes to their roles.

[aria-hidden="true"] is not present on the document <body>

Assistive technologies, like screen readers, work inconsistently when aria-hidden="true" is set on the document <body>. Learn how aria-hidden affects the document body.

[aria-*] attributes have valid values

Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. Learn

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more about valid ARIA attributes.

Image elements have [alt] attributes

Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. Learn more about the alt attribute.

[user-scalable="no"] is not used in the <meta name="viewport"> element and the [maximum-scale] attribute is not less than 5.

Disabling zooming is problematic for users with low vision who rely on screen magnification to properly see the contents of a web page. Learn more about the viewport meta tag.

Background and foreground colors have a sufficient contrast ratio

Low-contrast text is difficult or impossible for many users to read. Learn how to provide sufficient color contrast.

Document has a <title> element

The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. Learn more about document titles.

• [id] attributes on active, focusable elements are unique

All focusable elements must have a unique id to ensure that they're visible to assistive technologies. Learn how to fix duplicate ids.

<html> element has a [lang] attribute

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<html> element has a valid value for its [lang] attribute

Specifying a valid BCP 47 language helps screen readers announce text properly. Learn how to use the lang attribute.

• Links are distinguishable without relying on color.

Low-contrast text is difficult or impossible for many users to read. Link text that is discernible improves the experience for users with low vision. Learn how to make links distinguishable.

• Lists contain only <1i> elements and script supporting elements (<script> and <template>).

Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. Learn more about proper list structure.

● List items () are contained within , or <menu> parent elements

Screen readers require list items () to be contained within a parent , or <menu> to be announced properly. Learn more about proper list structure.

Heading elements appear in a sequentially-descending order

Properly ordered headings that do not skip levels convey the semantic structure of the page, making it easier to navigate and understand when using assistive technologies. Learn more about heading order.

Values assigned to role="" are valid ARIA roles.

ARIA roles enable assistive technologies to know the role of each element on the web page. If the

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the same as the text adjacent to the link or image is potentially confusing for screen reader users, because the text will be read twice. Learn more about the alt attribute.

Hide NOT APPLICABLE (42) [accesskey] values are unique Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. Learn more about access keys. O button, link, and menuitem elements have accessible names When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn how to make command elements more accessible. Elements with role="dialog" or role="alertdialog" have accessible names. ARIA dialog elements without accessible names may prevent screen readers users from discerning the purpose of these elements. Learn how to make ARIA dialog elements more accessible. [aria-hidden="true"] elements do not contain focusable descendents Focusable descendents within an [aria-hidden="true"] element prevent those interactive elements from being available to users of assistive technologies like screen readers. Learn how aria-hidden affects focusable elements. ARIA input fields have accessible names When an input field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn more about input field labels.

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When a progressbar element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn how to label progressbar elements.

[role]s have all required [aria-*] attributes

Some ARIA roles have required attributes that describe the state of the element to screen readers. Learn more about roles and required attributes.

Elements with an ARIA [role] that require children to contain a specific [role] have all required children.

Some ARIA parent roles must contain specific child roles to perform their intended accessibility functions. Learn more about roles and required children elements.

[role]s are contained by their required parent element

Some ARIA child roles must be contained by specific parent roles to properly perform their intended accessibility functions. Learn more about ARIA roles and required parent element.

[role] values are valid

ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more about valid ARIA roles.

Elements with the role=text attribute do not have focusable descendents.

Adding role=text around a text node split by markup enables VoiceOver to treat it as one phrase, but the element's focusable descendents will not be announced. Learn more about the role=text attribute.

ARIA toggle fields have accessible names

When a toggle field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn more about toggle fields.

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elements. ARIA treeitem elements have accessible names When a treeitem element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn more about labeling treeitem elements. The page contains a heading, skip link, or landmark region Adding ways to bypass repetitive content lets keyboard users navigate the page more efficiently. Learn more about bypass blocks. <dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements. When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. Learn how to structure definition lists correctly. Definition list items are wrapped in <dl> elements Definition list items (<dt> and <dd>) must be wrapped in a parent <dl> element to ensure that screen readers can properly announce them. Learn how to structure definition lists correctly. ARIA IDs are unique The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. Learn how to fix duplicate ARIA IDs. No form fields have multiple labels Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use either the first, the last, or all of the labels. Learn how to use form labels. <frame> or <iframe> elements have a title

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oo not opoon<mark>g a oonolotent angaago, mon the ooroon reader might not amioane</mark>e the page's text correctly. Learn more about the lang attribute. Input buttons have discernible text. Adding discernable and accessible text to input buttons may help screen reader users understand the purpose of the input button. Learn more about input buttons. <input type="image"> elements have [alt] text When an image is being used as an <input> button, providing alternative text can help screen reader users understand the purpose of the button. Learn about input image alt text. Elements with visible text labels have matching accessible names. Visible text labels that do not match the accessible name can result in a confusing experience for screen reader users. Learn more about accessible names. Form elements have associated labels Labels ensure that form controls are announced properly by assistive technologies, like screen readers. Learn more about form element labels. The document does not use <meta http-equiv="refresh"> Users do not expect a page to refresh automatically, and doing so will move focus back to the top of the page. This may create a frustrating or confusing experience. Learn more about the refresh meta tag. <object> elements have alternate text Screen readers cannot translate non-text content. Adding alternate text to <object> elements helps screen readers convey meaning to users. Learn more about alt text for object elements. Select elements have associated label elements. This site uses cookies from Google to deliver its services and to analyze traffic.

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morading a only link our noip accreasing to the main content to cave time. Loan more accut only links.	
O No element has a [tabindex] value greater than 0	b
A value greater than 0 implies an explicit navigation ordering. Although technically valid, this often creates frustrating experiences for users who rely on assistive technologies. Learn more about the tabindex attribute.	
 Tables have different content in the summary attribute and <caption>.</caption> 	
The summary attribute should describe the table structure, while <caption> should have the onscreen title. Accurate table mark-up helps users of screen readers. Learn more about summary and caption.</caption>	
Tables use <caption> instead of cells with the [colspan] attribute to indicate a caption.</caption>	
Screen readers have features to make navigating tables easier. Ensuring that tables use the actual caption element instead of cells with the <code>[colspan]</code> attribute may improve the experience for screen reader users. Learn more about captions.	
elements in a large have one or more table headers.	
Screen readers have features to make navigating tables easier. Ensuring that elements in a large table (3 or more cells in width and height) have an associated table header may improve the experience for screen reader users. Learn more about table headers.	
Cells in a element that use the [headers] attribute refer to table cells within the same table.	
Screen readers have features to make navigating tables easier. Ensuring cells using the [headers] attribute only refer to other cells in the same table may improve the experience for screen reader users. Learn more about the headers attribute.	
<pre> elements and elements with [role="columnheader"/"rowheader"] have data cells they describe.</pre>	



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re language of cicinona noipe choure that text to pronounced correctly by a screen reader. Learn how to use the lang attribute. < <video> elements contain a <track> element with [kind="captions"] When a video provides a caption it is easier for deaf and hearing impaired users to access its information. Learn more about video captions. All heading elements contain content. A heading with no content or inaccessible text prevent screen reader users from accessing information on the page's structure. Learn more about headings. Identical links have the same purpose. Links with the same destination should have the same description, to help users understand the link's purpose and decide whether to follow it. Learn more about identical links. Document has a main landmark. One main landmark helps screen reader users navigate a web page. Learn more about landmarks. Touch targets have sufficient size and spacing. Touch targets with sufficient size and spacing help users who may have difficulty targeting small



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controls to activate the targets. Learn more about touch targets.



Docs

GENERAL

Detected JavaScript libraries

All front-end JavaScript libraries detected on the page. Learn more about this JavaScript library detection diagnostic audit.

Name	Version
Bootstrap	5.3.2
jQuery	3.7.1

PASSED AUDITS (13)

Uses HTTPS

All sites should be protected with HTTPS, even ones that don't handle sensitive data. This includes avoiding mixed content, where some resources are loaded over HTTP despite the initial request being served over HTTPS. HTTPS prevents intruders from tampering with or passively listening in on the communications between your app and your users, and is a prerequisite for HTTP/2 and many new web platform APIs. Learn more about HTTPS.

Avoids deprecated APIs

Deprecated APIs will eventually be removed from the browser. Learn more about deprecated APIs.

Allows users to paste into input fields

Preventing input pasting is a had practice for the UX, and weakens security by blocking password. This site uses cookies from Google to deliver its services and to analyze traffic.



the request to a user action instead. Learn more about the geolocation permission.

Avoids requesting the notification permission on page load

Users are mistrustful of or confused by sites that request to send notifications without context.

Consider tying the request to user gestures instead. Learn more about responsibly getting permission for notifications.

Displays images with correct aspect ratio

Image display dimensions should match natural aspect ratio. Learn more about image aspect ratio.

Serves images with appropriate resolution

Image natural dimensions should be proportional to the display size and the pixel ratio to maximize image clarity. Learn how to provide responsive images.

Page has the HTML doctype

Specifying a doctype prevents the browser from switching to quirks-mode. Learn more about the doctype declaration.

Properly defines charset

A character encoding declaration is required. It can be done with a <meta> tag in the first 1024 bytes of the HTML or in the Content-Type HTTP response header. Learn more about declaring the character encoding.

Avoids unload event listeners

The unload event does not fire reliably and listening for it can prevent browser optimizations like the

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failures and other browser concerns. Learn more about this errors in console diagnostic audit

No issues in the Issues panel in Chrome Devtools

Issues logged to the Issues panel in Chrome Devtools indicate unresolved problems. They can come from network request failures, insufficient security controls, and other browser concerns. Open up the Issues panel in Chrome DevTools for more details on each issue.

Page has valid source maps

Source maps translate minified code to the original source code. This helps developers debug in production. In addition, Lighthouse is able to provide further insights. Consider deploying source maps to take advantage of these benefits. Learn more about source maps.

URL

JSDelivr CDN Cdn

...plugin/localizedFormat.min.js (cdn.jsdelivr.net) /sm/a2bad53....map (cdn.jsdelivr.net)

NOT APPLICABLE (1) Hide

O Fonts with font-display: optional are preloaded

Preload optional fonts so first-time visitors may use them. Learn more about preloading fonts

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optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on Core Web Vitals. Learn more about Google Search Essentials.

CRAWLING AND INDEXING



To appear in search results, crawlers need access to your app.

ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Hide

Structured data is valid

Run the Structured Data Testing Tool and the Structured Data Linter to validate structured data. Learn more about Structured Data.

Run these additional validators on your site to check additional SEO best practices.

PASSED AUDITS (13)

● Has a <meta name="viewport"> tag with width or initial-scale

A <meta name="viewport"> not only optimizes your app for mobile screen sizes, but also

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Document has a meta description

Meta descriptions may be included in search results to concisely summarize page content. Learn more about the meta description.

Page has successful HTTP status code

Pages with unsuccessful HTTP status codes may not be indexed properly. Learn more about HTTP status codes.

Links have descriptive text

Descriptive link text helps search engines understand your content. Learn how to make links more accessible.

Page isn't blocked from indexing

Search engines are unable to include your pages in search results if they don't have permission to crawl them. Learn more about crawler directives.

robots.txt is valid

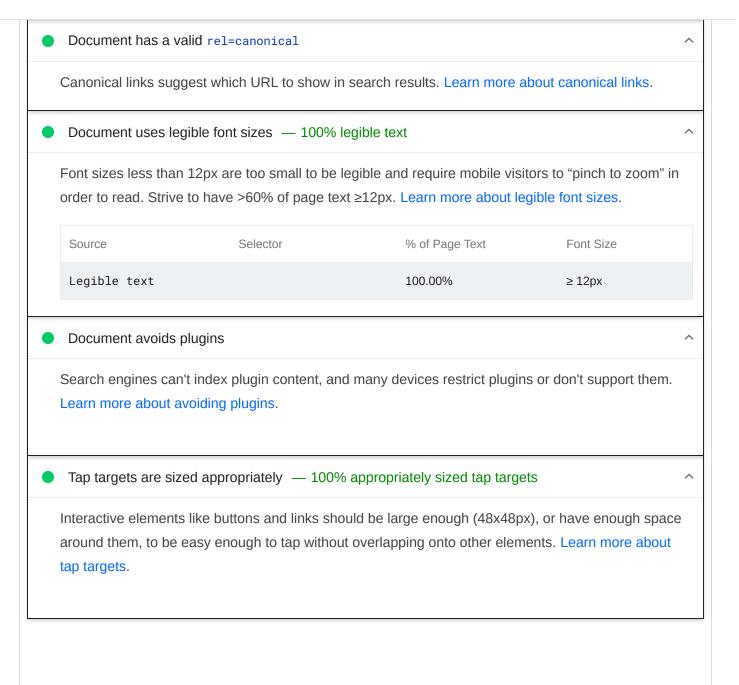
If your robots.txt file is malformed, crawlers may not be able to understand how you want your website to be crawled or indexed. Learn more about robots.txt.

Image elements have [alt] attributes

Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. Learn more about the alt attribute.

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