



Performance Accessibility

Best Practices



Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

▲ 0-49 90-100



Largest Contentful Paint

Cumulative Layout Shift

1.8 s

0

Expand view

METRICS

1.7 s

Total Blocking Time

First Contentful Paint

100 ms

Speed Index

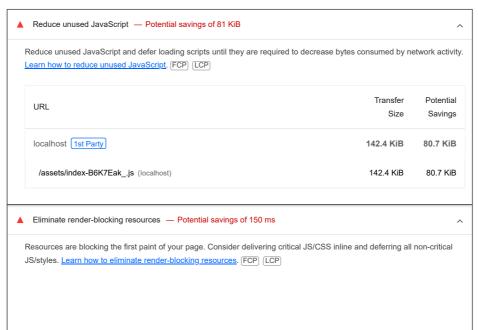
1.7 s



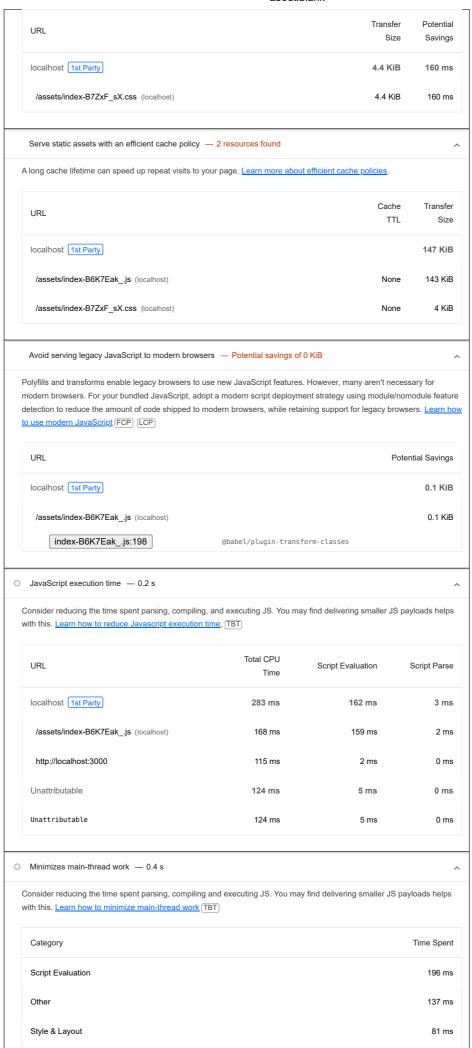


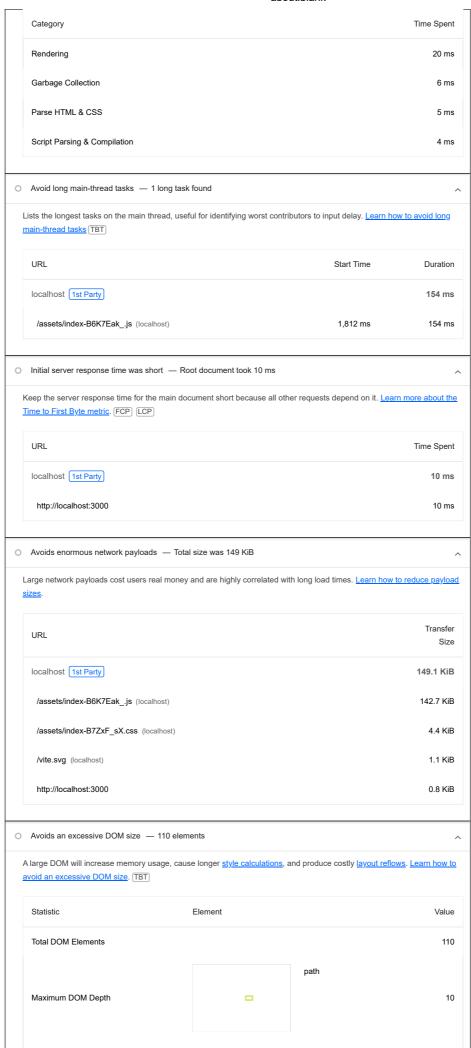
Show audits relevant to: All FCP LCP TBT

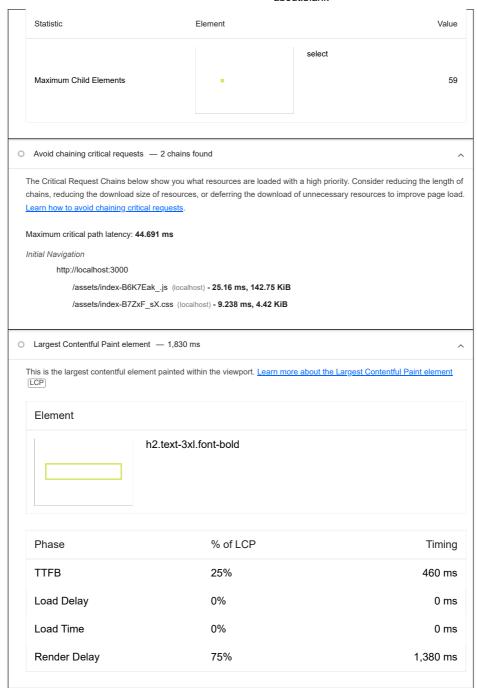
DIAGNOSTICS



about:blank 1/15

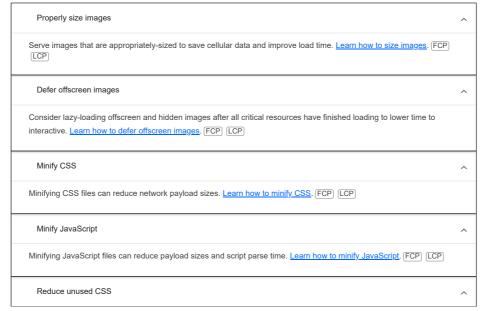






 $\label{thm:model} \mbox{More information about the performance of your application. These numbers don't $$\underline{\mbox{directly affect}}$$ the Performance score.$

PASSED AUDITS (26) Hide



about:blank 4/15

Efficiently encode images	
Optimized images load faster and consume less cellular data. <u>Learn how to efficiently encode images</u> . <u>FCP</u> <u>LCP</u>	
Serve images in next-gen formats	
Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which means faster downloand less data consumption. Learn more about modern image formats. FCP (LCP)	ads
Enable text compression	
Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. Leamore about text compression. FCP CCP	<u>rn</u>
Preconnect to required origins	
Consider adding preconnect or dns-prefetch resource hints to establish early connections to important third-pa origins. Learn how to preconnect to required origins. CCP FCP	rty
Avoid multiple page redirects	
Redirects introduce additional delays before the page can be loaded. <u>Learn how to avoid page redirects</u> . <u>LCP</u> <u>FCP</u>	
Use HTTP/2	
HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. Learn more about HTTP/2. [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 [FCP]	CP
Remove duplicate modules in JavaScript bundles	
Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by network activity (FCP) (LCP)	ty.
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. <u>Learn nabout preloading LCP elements</u> . <u>ICP</u>	<u>iore</u>
User Timing marks and measures	
Consider instrumenting your app with the User Timing API to measure your app's real-world performance during key experiences. <u>Learn more about User Timing marks</u> .	user
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 50th-display .	<u>ut</u>
Minimize third-party usage	ry to
Minimize third-party usage Third-party code can significantly impact load performance. Limit the number of redundant third-party providers and t load third-party code after your page has primarily finished loading. Learn how to minimize third-party impact. TBT	
Third-party code can significantly impact load performance. Limit the number of redundant third-party providers and t load third-party code after your page has primarily finished loading. Learn how to minimize third-party impact. (TBT)	
Third-party code can significantly impact load performance. Limit the number of redundant third-party providers and t load third-party code after your page has primarily finished loading. Learn how to minimize third-party impact. TBT	ow to

about:blank 5/15

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] Avoid large layout shifts These are the largest layout shifts observed on the page. Each table item represents a single layout shift, and shows the element that shifted the most. Below each item are possible root causes that led to the layout shift. Some of these layout shifts may not be included in the CLS metric value due to $\underline{\text{windowing}}$. $\underline{\text{Learn how to improve CLS}}$ $\overline{\text{CLS}}$ Uses passive listeners to improve scrolling performance Consider marking your touch and wheel event listeners as passive to improve your page's scroll performance. Learn more about adopting passive event listeners. Avoids document.write() For users on slow connections, external scripts dynamically injected via document.write() can delay page load by tens of seconds. Learn how to avoid document.write(). Avoid non-composited animations Animations which are not composited can be janky and increase CLS. Learn how to avoid non-composited animations (CLS) Image elements have explicit width and height Set an explicit width and height on image elements to reduce layout shifts and improve CLS. Learn how to set image dimensions CLS 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 prevents a 300 millisecond delay to user input. Learn more about using the viewport meta tag. Page didn't prevent back/forward cache restoration Many navigations are performed by going back to a previous page, or forwards again. The back/forward cache (bfcache) can speed up these return navigations. Learn more about the bfcache



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

A	Buttons do not have an accessible name	
	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	
	button#state.flex.h-10.items-center.justify-between.rounded-md.border.border-input.bg-background.px-3.py-2.text-sm.ring-o	ffset-background.placeholder:text-mi

about:blank 6/15



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. O 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. O 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 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. O 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. O HTML5 landmark elements are used to improve navigation Landmark elements (<main>, <nav>, etc.) are used to improve the keyboard navigation of the page for assistive technology. Learn more about landmark elements. 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 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 <u>conducting an accessibility review</u>.

PASSED AUDITS (20) Hide

[aria-*] attributes match their roles

about:blank 7/15

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. [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 [aria-*] attributes have valid values Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. Learn more about valid values for ARIA attributes. [aria-*] attributes are valid and not misspelled Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. Learn more about valid ARIA attributes. [user-scalable="no"] is not used in the <meta name="viewport"> element and the [maximum-scale] attribute is not 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. ARIA attributes are used as specified for the element's role Some ARIA attributes are only allowed on an element under certain conditions. Learn more about conditional ARIA attributes. [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. Elements use only permitted ARIA attributes Using ARIA attributes in roles where they are prohibited can mean that important information is not communicated to users of assistive technologies. Learn more about prohibited ARIA roles. [role] values are valid ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more about valid ARIA roles 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 <html> element has a [lang] attribute If a page doesn't specify a lang attribute, a screen reader assumes that the page is in the default language that the user chose when setting up the screen reader. If the page isn't actually in the default language, then the screen reader might not announce the page's text correctly. Learn more about the lang attribute. <html> element has a valid value for its [lang] attribute Specifying a valid <u>BCP 47 language</u> helps screen readers announce text properly. <u>Learn how to use the lang attribute</u>.

about:blank 8/15

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. Links 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 Touch targets have sufficient size and spacing. Touch targets with sufficient size and spacing help users who may have difficulty targeting small controls to activate the targets. Learn more about touch targets 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 role values are misspelled, not existing ARIA role values, or abstract roles, then the purpose of the element will not be communicated to users of assistive technologies. Learn more about ARIA roles Deprecated ARIA roles were not used Deprecated ARIA roles may not be processed correctly by assistive technology. Learn more about deprecated ARIA roles

NOT APPLICABLE (36) Hide

O [accesskey] values are unique

Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. <u>Learn more about access keys</u>.

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. <u>Learn how to make command elements more accessible.</u>

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. <u>Learn how to make ARIA dialog elements more accessible</u>.

O 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. <u>Learn more about input field labels</u>.

ARIA meter elements have accessible names

When a meter 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. <u>Learn how to name meter elements</u>.

O ARIA progressbar elements have accessible names

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. <u>Learn how to label progressbar elements</u>.

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. <u>Learn more about roles and required children elements</u>.

about:blank 9/15

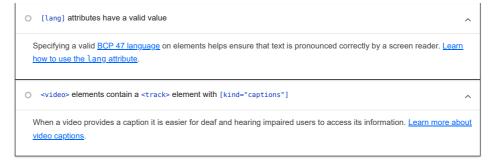
)	[role]s are contained by their required parent element
	ome ARIA child roles must be contained by specific parent roles to properly perform their intended accessibility functions earn more about ARIA roles and required parent element.
)	Elements with the role=text attribute do not have focusable descendents.
	dding role=text around a text node split by markup enables VoiceOver to treat it as one phrase, but the element's cusable descendents will not be announced. Learn more about the role=text attribute.
)	ARIA toggle fields have accessible names
	then a toggle field doesn't have an accessible name, screen readers announce it with a generic name, making it unusabler users who rely on screen readers. Learn more about toggle fields.
	ARIA tooltip elements have accessible names
	Then a tooltip element doesn't have an accessible name, screen readers announce it with a generic name, making it nusable for users who rely on screen readers. <u>Learn how to name tooltip elements</u> .
)	ARIA treeitem elements have accessible names
	then a treeitem element doesn't have an accessible name, screen readers announce it with a generic name, making it nusable for users who rely on screen readers. Learn more about labeling treeitem elements.
)	The page contains a heading, skip link, or landmark region
	dding ways to bypass repetitive content lets keyboard users navigate the page more efficiently. <u>Learn more about bypas</u> ocks.
)	<pre><dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements.</pre></td></tr><tr><td></td><td>Then definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. <u>Learn how ructure definition lists correctly.</u></td></tr><tr><td>)</td><td>Definition list items are wrapped in <dl> elements</td></tr><tr><td></td><td>efinition list items (<dt> and <dd>) must be wrapped in a parent <dl> element to ensure that screen readers can propen nounce them. Learn how to structure definition lists correctly.</td></tr><tr><td>)</td><td>ARIA IDs are unique</td></tr><tr><td></td><td>ne value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. <u>Lear</u> by to fix duplicate ARIA IDs.</td></tr><tr><td>)</td><td>No form fields have multiple labels</td></tr><tr><td></td><td>orm fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use eitle first, the last, or all of the labels. Learn how to use form labels.</td></tr><tr><td>)</td><td><frame> or <iframe> elements have a title</td></tr><tr><td>S</td><td>creen reader users rely on frame titles to describe the contents of frames. <u>Learn more about frame titles</u>.</td></tr><tr><td>)</td><td><pre><html> element has an [xml:lang] attribute with the same base language as the [lang] attribute.</pre></td></tr><tr><td></td><td>the webpage does not specify a consistent language, then the screen reader might not announce the page's text correct earn more about the lang attribute.</td></tr><tr><td></td><td>Image elements have [alt] attributes</td></tr><tr><td></td><td>formative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty altribute. Learn more about the alt attribute.</td></tr><tr><td></td><td>Image elements do not have [alt] attributes that are redundant text.</td></tr></tbody></table></script></dd></dt></dl></pre>

about:blank

10/15

about the alt 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.
<pre>O <input type="image"/> elements have [alt] text</pre>
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.
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 elements and script supporting elements (<script> and <template>).</td></tr><tr><td>Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. <u>Learn monabout proper list structure</u>.</td></tr><tr><td>List items () are contained within , or <menu> parent elements</td></tr><tr><td>Screen readers require list items () to be contained within a parent , or <menu> to be announced properly Learn more about proper list structure.</td></tr><tr><td>O The document does not use <meta http-equiv="refresh"></td></tr><tr><td>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.</td></tr><tr><td>O <object> elements have alternate text</td></tr><tr><td>Screen readers cannot translate non-text content. Adding alternate text to <object> elements helps screen readers converged to users. Learn more about alt text for object elements.</td></tr><tr><td>Select elements have associated label elements.</td></tr><tr><td>Form elements without effective labels can create frustrating experiences for screen reader users. <u>Learn more about the select element</u>.</td></tr><tr><td>O Skip links are focusable.</td></tr><tr><td>Including a skip link can help users skip to the main content to save time. Learn more about skip links.</td></tr><tr><td>No element has a [tabindex] value greater than 0</td></tr><tr><td>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. <u>Learn more about the tabindex attribute</u>.</td></tr><tr><td>Tables have different content in the summary attribute and <caption>.</td></tr><tr><td>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.</td></tr><tr><td>Cells in a element that use the [headers] attribute refer to table cells within the same table.</td></tr><tr><td>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.</td></tr><tr><td>elements and elements with [role="columnheader"/"rowheader"] have data cells they describe.</td></tr><tr><td>Screen readers have features to make navigating tables easier. Ensuring table headers always refer to some set of cells may improve the experience for screen reader users. Learn more about table headers.</td></tr></tbody></table></script>

about:blank 11/15



100

Best Practices

TRUST AND SAFETY



PASSED AUDITS (15) Hide 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. Avoids third-party cookies Support for third-party cookies will be removed in a future version of Chrome. Learn more about phasing out third-party cookies. Allows users to paste into input fields Preventing input pasting is a bad practice for the UX, and weakens security by blocking password managers. Learn more about user-friendly input fields. Avoids requesting the geolocation permission on page load Users are mistrustful of or confused by sites that request their location without context. Consider tying 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

about:blank 12/15

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. 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 prevents a 300 millisecond delay to user input. Learn more about using the viewport meta tag. Document uses legible font sizes — 100% legible text Font sizes less than 12px are too small to be legible and require mobile visitors to "pinch to zoom" in order to read. Strive to have >60% of page text ≥12px. Learn more about legible font sizes. Source Selector % of Page Text Font Size 100.00% Legible text ≥ 12px Page has the HTML doctype Specifying a doctype prevents the browser from switching to quirks-mode. <u>Learn more about the doctype declaration</u>. 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. No browser errors logged to the console Errors logged to the console indicate unresolved problems. They can come from network request 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 Map URL chromeextension://fheoggkfdfchfphceeifdbepaooicaho/sc extension://fheoggkfdfchfphceeifdbepaooicaho/sourceM ripts/iframe_form_check.js ap/chrome/scripts/iframe_form_check.js.map Error: Failed fetching source map (null)

NOT APPLICABLE (2) Hide

O Redirects HTTP traffic to HTTPS

Make sure that you redirect all HTTP traffic to HTTPS in order to enable secure web features for all your users. Learn more.

Detected JavaScript libraries

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

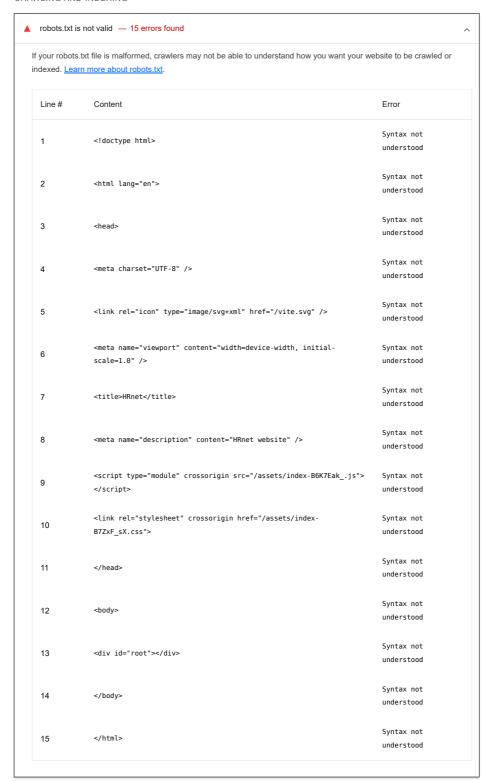
about:blank 13/15



SEO

These checks ensure that your page is following basic search engine 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

O Structured data is valid

about:blank 14/15

PASSED AUDITS (7)

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

Hide

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

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. 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. 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. Links are crawlable Search engines may use hiref attributes on links to crawl websites. Ensure that the hiref attribute of anchor elements links to an appropriate destination, so more pages of the site can be discovered. Learn how to make links crawlable Document has a valid hreflang hreflang links tell search engines what version of a page they should list in search results for a given language or region. Learn more about hreflang. NOT APPLICABLE (2) Hide 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 Document has a valid rel=canonical

Generated by **Lighthouse** 12.0.0 | File an issue

Emulated Moto G Power with

Lighthouse 12.0.0

Slow 4G throttling

Single page session

devtools

Using Chromium 126.0.0.0 with

Canonical links suggest which URL to show in search results. Learn more about canonical links.

Captured at Jul 20, 2024, 3:11

AM GMT+2

Initial page load

about:blank 15/15