

https://amt8u-hugo-blog.netlify.app/learning-nodejs-distributed-systems-part-1/











Performance

Accessibility

Best Practices

SEO

PWA



Performance

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

 \blacktriangle

0-49

50-89

90-100



METRICS Expand view

First Contentful Paint

2.5 s

Total Blocking Time

50 ms

Speed Index

5.8 s

Largest Contentful Paint

2.5 s

Cumulative Layout Shift

0

View Treemap



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Systems Part 1

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Learning Nodels distributed

Systems Part 1

***Street Part 1

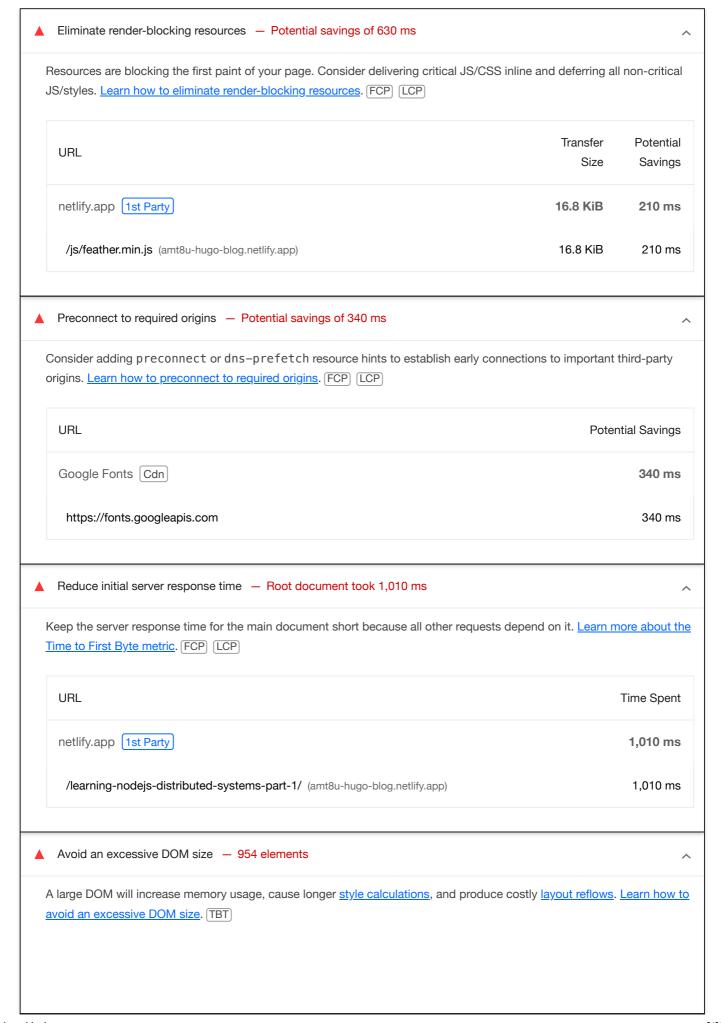
**Street Part 1

***Street Part

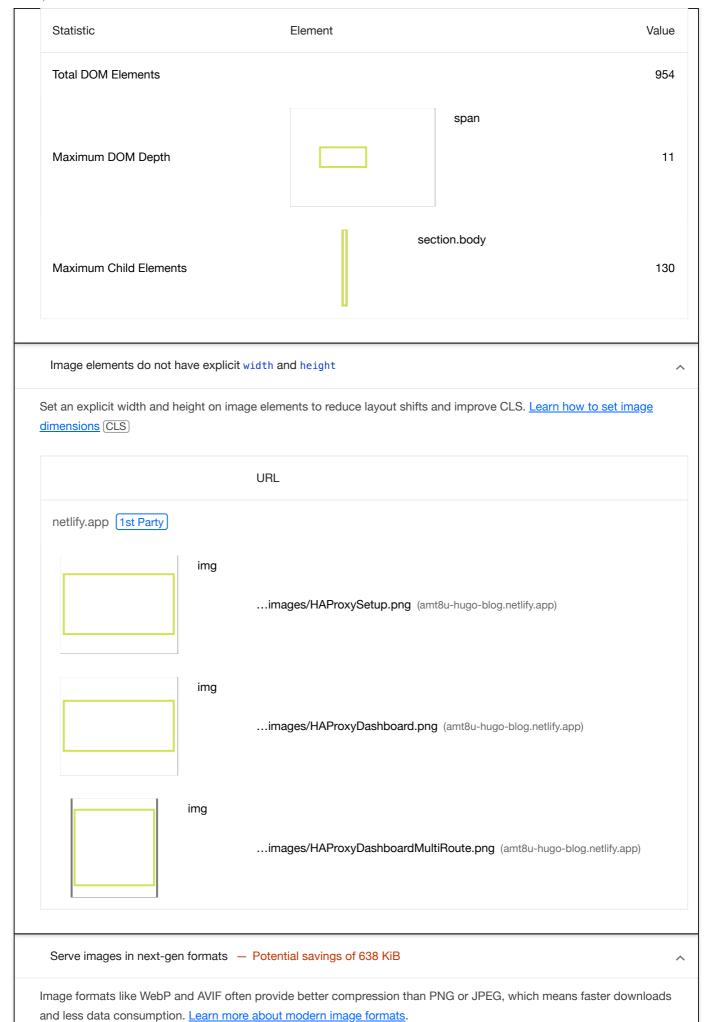
Show audits relevant to: All FCP LCP TBT CLS

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DIAGNOSTICS



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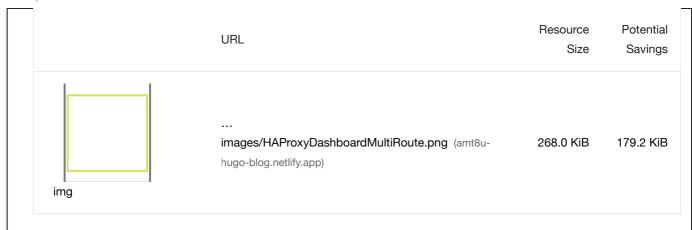
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Properly size images — Potential savings of 867 KiB

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	URL	Resource Size	Potentia Savings
netlify.app 1st Party		1,041.3 KiB	637.5 KiB
img	images/HAProxySetup.png (amt8u-hugo-blog.netlify.app)	507.5 KiB	296.2 KiE
img	images/HAProxyDashboardMultiRoute.png (amt8u-hugo-blog.netlify.app)	268.0 KiB	179.6 Kil
img	images/HAProxyDashboard.png (amt8u-hugo-blog.netlify.app)	265.7 KiB	161.7 KiE

	URL	Resource Size	Potentia Savings
etlify.app 1st Party		1,041.3 KiB	867.2 KiE
img	images/HAProxySetup.png (amt8u-hugo-blog.netlify.app)	507.5 KiB	453.3 KiE
	images/HAProxyDashboard.png (amt8u-hugo-		

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Defer offscreen images - Potential savings of 266 KiB

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

	URL	Resource Size	Potential Savings
netlify.app 1st Party		265.7 KiB	265.7 KiB
	images/HAProxyDashboard.png (amt8u-hugo-blog.netlify.app)	265.7 KiB	265.7 KiB
img			

Avoid serving legacy JavaScript to modern browsers — Potential savings of 0 KiB

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)

URL		Potential Savings
netlify.app 1st Party		0.0 KiB
/js/feather.min.js (amt8u-hugo-blog.netlify.app)		0.0 KiB
feather.min.js:12	@babel/plugin-transform-classes	

Minimizes main-thread work — 1.4 s

Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps

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with this. Learn how to minimize main-thread work TBT Time Spent Category Other 577 ms 349 ms Rendering 347 ms Style & Layout Script Evaluation 71 ms Script Parsing & Compilation 29 ms Parse HTML & CSS 24 ms Avoid long main-thread tasks — 2 long tasks found Lists the longest tasks on the main thread, useful for identifying worst contributors to input delay. Learn how to avoid long main-thread tasks [TBT] Start URL Duration Time netlify.app [1st Party] 202 ms /js/viewtoggle.js (amt8u-hugo-blog.netlify.app) 4,280 ms 145 ms /learning-nodejs-distributed-systems-part-1/ (amt8u-hugo-blog.netlify.app) 1,638 ms 57 ms ○ Avoid large layout shifts — 1 layout shift found 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 windowing. Learn how to improve CLS CLS Element Layout shift score а 0.000 ...v20/4iCs6KVjb....woff2 (fonts.gstatic.com) Web font loaded

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Element	Layout shift scor
v20/4iCv6KVjbwoff2 (fonts.gstatic.com)	Web font loaded
v20/4iCv6KVjbwoff2 (fonts.gstatic.com)	Web font loaded
/css2?family= (fonts.googleapis.com)	A late network request adjusted the page layout
/css/fonts.2c2227bcss (amt8u-hugo-blog.netlify.app)	A late network request adjusted the page layout
/css/main.24868f2css (amt8u-hugo-blog.netlify.app)	A late network request adjusted the page layout
/js/viewtoggle.js (amt8u-hugo-blog.netlify.app)	A late network request adjusted the page layout
/js/themetoggle.js (amt8u-hugo-blog.netlify.app)	A late network request adjusted the page layout
/js/feather.min.js (amt8u-hugo-blog.netlify.app)	A late network request adjusted the page layout
Avoid non-composited animations — 1 animated element for Animations which are not composited can be janky and increase (CLS)	
Element	Name
a.logo	
a.logo Unsupported CSS Properties: background-position-x, backgroun	ground-position-y rainbow_animation
Unsupported CSS Properties: background-position-x, backgrounds — Total size was 1,118	KiB
Unsupported CSS Properties: background-position-x, background-positi	KiB
Unsupported CSS Properties: background-position-x, backgrounds enormous network payloads — Total size was 1,118 Large network payloads cost users real money and are highly contained to the cost of	KiB
Unsupported CSS Properties: background-position-x, backgrounds enormous network payloads — Total size was 1,118 Large network payloads cost users real money and are highly contained to the cost of	KiB prrelated with long load times. <u>Learn how to reduce payl</u>
Unsupported CSS Properties: background-position-x, backgrounds enormous network payloads — Total size was 1,118 Large network payloads cost users real money and are highly cosizes. LCP	KiB orrelated with long load times. Learn how to reduce payl Show 3rd-party resources
Unsupported CSS Properties: background-position-x, backgrounds enormous network payloads — Total size was 1,118 Large network payloads cost users real money and are highly cosizes. URL	KiB orrelated with long load times. Learn how to reduce payl Show 3rd-party resources Transfer
Unsupported CSS Properties: background-position-x, backgrounds enormous network payloads — Total size was 1,118 Large network payloads cost users real money and are highly cosizes. URL netlify.app 1st Party	KiB orrelated with long load times. Learn how to reduce payl Show 3rd-party resources Transfe Siz 1,070.8 Kil
Unsupported CSS Properties: background-position-x, background-positi	KiB orrelated with long load times. Learn how to reduce payle Show 3rd-party resources Transfe Siz 1,070.8 Kil 507.9 Kil plog.netlify.app)

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URL	Transfer Size
/learning-nodejs-distributed-systems-part-1/ (amt8u-hugo-blog.netlify.app)	9.5 KiB
/css/main.24868f2css (amt8u-hugo-blog.netlify.app)	2.3 KiB
Google Fonts Cdn	44.1 KiB
v20/4iCv6KVjbwoff2 (fonts.gstatic.com)	15.1 KiB
v20/4iCs6KVjbwoff2 (fonts.gstatic.com)	13.9 KiB
v20/4iCv6KVjbwoff2 (fonts.gstatic.com)	13.8 KiB
/css2?family= (fonts.googleapis.com)	1.3 KiB

○ Avoid chaining critical requests — 8 chains found

The Critical Request Chains below show you what resources are loaded with a high priority. Consider reducing the length of chains, reducing the download size of resources, or deferring the download of unnecessary resources to improve page load. <u>Learn how to avoid chaining critical requests</u>. FCP (LCP)

Maximum critical path latency: 2,314.022 ms

Initial Navigation

```
/learning-nodejs-distributed-systems-part-1/ (amt8u-hugo-blog.netlify.app)
```

/css/fonts.2c2227b....css (amt8u-hugo-blog.netlify.app) - 738.117 ms, 0.53 KiB

/css/main.24868f2....css (amt8u-hugo-blog.netlify.app)

/css2?family=... (fonts.googleapis.com)

...v20/4iCs6KVjb....woff2 (fonts.gstatic.com) - 169.337 ms, 13.91 KiB

...v20/4iCv6KVjb....woff2 (fonts.gstatic.com) - 147.805 ms, 13.77 KiB

...v20/4iCv6KVjb....woff2 (fonts.gstatic.com) - 107.782 ms, 15.10 KiB

/css/dark.e2ae019....css (amt8u-hugo-blog.netlify.app) - 738.845 ms, 0.77 KiB

/js/feather.min.js (amt8u-hugo-blog.netlify.app) - 614.433 ms, 16.75 KiB

/js/themetoggle.js (amt8u-hugo-blog.netlify.app) - 676.277 ms, 0.89 KiB

/js/viewtoggle.js (amt8u-hugo-blog.netlify.app) - 696.4 ms, 0.89 KiB

○ JavaScript execution time — 0.1 s

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

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URL	Total CPU Time	Script Evaluation	Script Parse
netlify.app 1st Party	1,133 ms	34 ms	21 ms
/learning-nodejs-distributed-systems-part-1/ (amt8u-hugo-blog.netlify.app)	1,133 ms	34 ms	21 ms
Unattributable	178 ms	5 ms	0 ms
Unattributable	178 ms	5 ms	0 ms

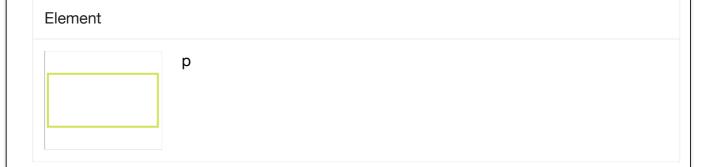
O Minimize third-party usage — Third-party code blocked the main thread for 0 ms

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. <u>Learn how to minimize third-party impact</u>. TBT

Third-Party	Transfer Size	Main-Thread Blocking Time
Google Fonts Cdn	44 KiB	0 ms
v20/4iCv6KVjbwoff2 (fonts.gstatic.com)	15 KiB	0 ms
v20/4iCs6KVjbwoff2 (fonts.gstatic.com)	14 KiB	0 ms
v20/4iCv6KVjbwoff2 (fonts.gstatic.com)	14 KiB	0 ms
/css2?family= (fonts.googleapis.com)	1 KiB	0 ms

○ Largest Contentful Paint element — 2,470 ms

This is the largest contentful element painted within the viewport. <u>Learn more about the Largest Contentful Paint element</u> <u>LCP</u>



Phase	% of LCP	Timing
TTFB	52%	1,280 ms
Load Delay	0%	0 ms

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Phase	% of LCP	Timing
Load Time	0%	0 ms
Render Delay	48%	1,200 ms

More information about the performance of your application. These numbers don't directly affect the Performance score.

PASSED AUDITS (21) Hide Minify CSS 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] Reduce unused CSS Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity. Learn how to reduce unused CSS. FCP LCP Reduce unused JavaScript Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity. Learn how to reduce unused JavaScript. [LCP] Efficiently encode images Optimized images load faster and consume less cellular data. Learn how to efficiently encode images. 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] Avoid multiple page redirects Redirects introduce additional delays before the page can be loaded. Learn how to avoid page redirects. FCP [LCP] Preload key requests Consider using <link rel=preload> to prioritize fetching resources that are currently requested later in page load. Learn how to preload key requests. FCP [LCP]

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Use HTTP/2	^
HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. Learn more about HTTP/2.	
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 activ	vity.
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 rabout preloading LCP elements. (LCP)	<u>nore</u>
Uses efficient cache policy on static assets — 0 resources found	^
A long cache lifetime can speed up repeat visits to your page. <u>Learn more about efficient cache policies</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. Learn more about User Timing marks.	y user
All text remains visible during webfont loads	^
Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading. <u>Learn more abofont-display</u> . <u>FCP</u> <u>LCP</u>	<u>ut</u>
Lazy load third-party resources with facades	^
Some third-party embeds can be lazy loaded. Consider replacing them with a facade until they are required. Learn had defer third-parties with a facade.	now to
Largest Contentful Paint image was not lazily loaded	^
Above-the-fold images that are lazily loaded render later in the page lifecycle, which can delay the largest contentful Learn more about optimal lazy loading. LCP	l paint.
Uses passive listeners to improve scrolling performance	^

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Consider marking your touch and wheel event listeners as passive to improve your page's scroll performance. <u>Learn</u> 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().

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 <u>a 300 millisecond</u> <u>delay to user input</u>. <u>Learn more about using the viewport meta tag</u>. (TBT)

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. <u>Learn more about the bfcache</u>



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.

CONTRAST

Background and foreground colors do not have a sufficient contrast ratio.

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

Failing Elements

p

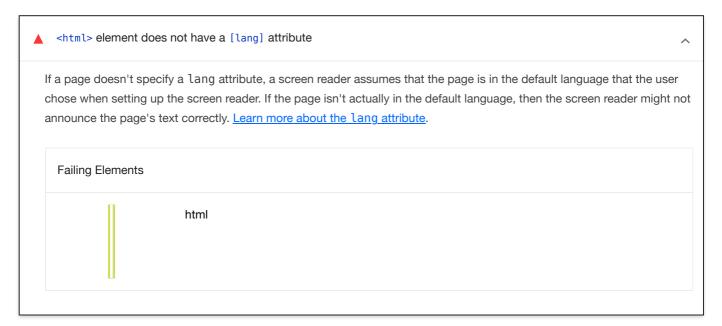
body

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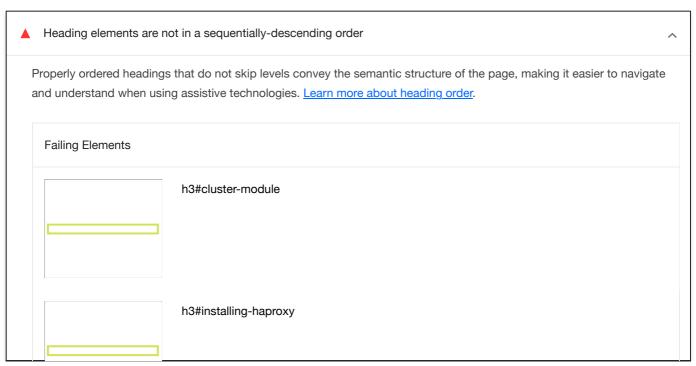
These are opportunities to improve the legibility of your content.

INTERNATIONALIZATION AND LOCALIZATION



These are opportunities to improve the interpretation of your content by users in different locales.

NAVIGATION



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Failing Elements	
	h3#reverse-proxy-concerns

These are opportunities to improve keyboard navigation in your application.

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.	
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.	<u>W</u>
HTML5 landmark elements are used to improve navigation	^

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

PASSED AUDITS (13)

[aria-hidden="true"] is not present on the document <body> Assistive technologies, like screen readers, work inconsistently when a ria-hidden="true" is set on the document

 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. 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. 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.

about:blank

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. Lists contain only 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. No element has a [tabindex] value greater than 0 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. 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. Image elements do not have [alt] attributes that are redundant text. Informative elements should aim for short, descriptive alternative text. Alternative text that is exactly 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. Tables have different content in the summary attribute and <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. Tables use <caption> instead of cells with the [colspan] attribute to indicate a caption. Screen readers have features to make navigating tables easier. Ensuring that tables use the actual caption element instead of cells with the [colspan] attribute may improve the experience for screen reader users. Learn more about captions.

NOT APPLICABLE (45)

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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</u> more about access keys.	
O [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.	3.
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 users of assistive technologies. Learn more about ARIA roles.	d to
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 unusab for users who rely on screen readers. Learn how to make command elements more accessible.	ole
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 thes elements. Learn how to make ARIA dialog elements more accessible.	ie
[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 unusation for users who rely on screen readers. Learn more about input field labels.	able
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. Learn how to name meter elements.	
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. Learn how to label progressbar elements.	

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O [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 rol and required attributes.	<u>les</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> .	
[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 function Learn more about ARIA roles and required parent element.	ons.
O [role] values are valid	^
ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more about valid ARIA roles.	<u>A</u>
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 unusa for users who rely on screen readers. Learn more about toggle fields.	able
ARIA tooltip elements have accessible names	^
When a tooltip 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 tooltip elements</u> .	
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 unusable for users who rely on screen readers. <u>Learn more about labeling treeitem elements</u> .	ı it
O [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.	

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O [aria-*] attributes are valid and not misspelled	^
Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. Learn more about valid attributes.	<u>ARIA</u>
Buttons 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. <u>Learn how to make buttons more accessible</u> .	s
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 by blocks.	<u>pass</u>
O <dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements.</td><td>^</td></tr><tr><td>When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. Learn has to structure definition lists correctly.</td><td><u>IOW</u></td></tr><tr><td>O Definition list items are wrapped in <dl> elements</td><td>^</td></tr><tr><td>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.</td><td></td></tr><tr><td>O [id] attributes on active, focusable elements are unique</td><td>^</td></tr><tr><td>All focusable elements must have a unique id to ensure that they're visible to assistive technologies. Learn how to fix duplicate ids.</td><td></td></tr><tr><td>O ARIA IDs are unique</td><td>^</td></tr><tr><td>The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. Lendow to fix duplicate ARIA IDs.</td><td><u>earn</u></td></tr><tr><td>No form fields have multiple labels</td><td>^</td></tr><tr><td>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.</td><td>)</td></tr><tr><td><frame> or <iframe> elements have a title</td><td>^</td></tr><tr><td>Screen reader users rely on frame titles to describe the contents of frames. <u>Learn more about frame titles</u>.</td><td></td></tr><tr><td><html> element has a valid value for its [lang] attribute</td><td>^</td></tr></tbody></table></script></dd></dt></dl>	

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Specifying a valid BCP 47 language helps screen readers announce text properly. Learn how to use the lang attribute.
<html> element has an [xml:lang] attribute with the same base language as the [lang] attribute.</html>
If the webpage does not specify a consistent language, then the screen reader might not announce the page's text correctly. Learn more about the lang attribute.
O 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.
O Form elements have associated labels
Labels ensure that form controls are announced properly by assistive technologies, like screen readers. <u>Learn more about form element labels</u> .
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.
O <object> elements have alternate text</object>
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.</object>
O Select elements have associated label elements.
Form elements without effective labels can create frustrating experiences for screen reader users. Learn more about the select element.
O Skip links are focusable.
Including a skip link can help users skip to the main content to save time. Learn more about skip links.
elements and elements with [role="columnheader"/"rowheader"] have data cells they describe.
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. <u>Learn more about table headers</u> .

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O [lang] attributes have a valid value	,
Specifying a valid <u>BCP 47 language</u> on elements helps ensure that text is pronounced correctly by a screen reader. <u>Learn</u> <u>how to use the lang attribute</u> .	
<video> elements contain a <track/> element with [kind="captions"]</video>	,
When a video provides a caption it is easier for deaf and hearing impaired users to access its information. <u>Learn more about video captions</u> .	
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.	
O 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.	
O Document has a main landmark.	,
One main landmark helps screen reader users navigate a web page. <u>Learn more about landmarks</u> .	
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.	
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. <u>Learn more about accessible names</u> .	
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.	ž



Best Practices

TRUST AND SAFETY

Ensure CSP is effective against XSS attacks

A strong Content Security Policy (CSP) significantly reduces the risk of cross-site scripting (XSS) attacks. Learn how to use a CSP to prevent XSS

 Description
 Directive
 Severity

No CSP found in enforcement mode

High

GENERAL



PASSED AUDITS (14)

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.

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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. 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. <u>Learn more about declaring the character encoding</u>. Avoids unload event listeners The unload event does not fire reliably and listening for it can prevent browser optimizations like the Back-Forward Cache. Use pagehide or visibilitychange events instead. Learn more about unload event listeners 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.

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NOT APPLICABLE (1) Hide

Fonts with font-display: optional are preloaded

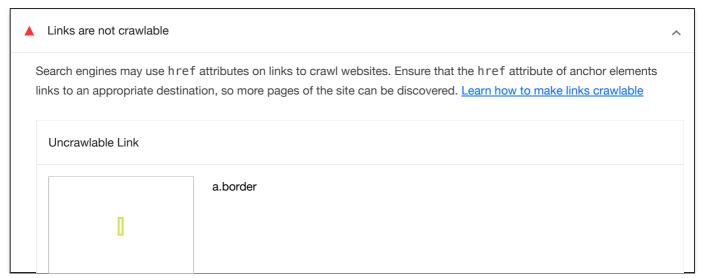
Preload optional fonts so first-time visitors may use them. Learn more about preloading fonts



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



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Uncrawlable Link		
	a.border	
	a.border	
0		

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

MOBILE FRIENDLY

	buttons and links should out overlapping onto othe		8x48px), or have enough space more about tap targets.	around them, to be
Tap Target		Size	Overlapping Target	
	a.border	2x15		a.soc
0	a.border	2x15		a.soc
	a.border	2x15		a.soc
П	a.border	2x15		a.soc

Tap Target		Size	Overlapping Target	
	a.border	2x15		a.soc

Make sure your pages are mobile friendly so users don't have to pinch or zoom in order to read the content pages. <u>Learn how to make pages mobile-friendly.</u>

ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Hide

O 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 (10)

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. TBT

Document has a <title> element

A

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

A

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

A

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

Links have descriptive text

A

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

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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. 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 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. 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. Font Size Selector % of Page Text Source Legible text 100.00% ≥ 12px Document avoids plugins Search engines can't index plugin content, and many devices restrict plugins or don't support them. Learn more about avoiding plugins.

NOT APPLICABLE (2) Hide

O 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 of indexed. Learn more about robots.txt.	r
O Document has a valid rel=canonical	^
Canonical links suggest which URL to show in search results. Learn more about canonical links.	

As per <u>Chrome's updated Installability Criteria</u>, Lighthouse will be deprecating the PWA category in a future release. Please refer to the <u>updated PWA documentation</u> for future PWA testing.

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PWA

These checks validate the aspects of a Progressive Web App. <u>Learn what</u> <u>makes a good Progressive Web App</u>.

INSTALLABLE

■ Web app manifest or service worker do not meet the installability requirements — 1 reason

Service worker is the technology that enables your app to use many Progressive Web App features, such as offline, add to homescreen, and push notifications. With proper service worker and manifest implementations, browsers can proactively prompt users to add your app to their homescreen, which can lead to higher engagement. Learn more about manifest installability requirements.

Failure reason

Page has no manifest <link> URL

PWA OPTIMIZED

Is not configured for a custom splash screen

Failures: Manifest does not have a PNG icon of at least 512px, Manifest does not have 'background_color', Manifest color not have 'theme_color', Manifest does not have 'name'.

A themed splash screen ensures a high-quality experience when users launch your app from their homescreens. Learn more about splash screens.

Does not set a theme color for the address bar.

Failures: Manifest does not have 'theme_color', No 'cmeta name="theme-color"> 'tag found.

The browser address bar can be themed to match your site. Learn more about theming the address bar.

Content is sized correctly for the viewport

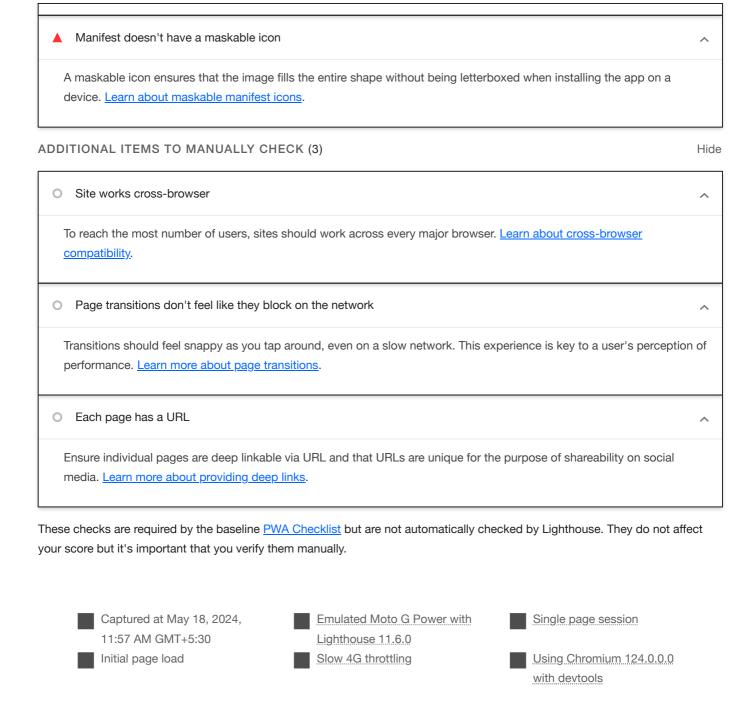
A 'meta name="viewport"> tag with width or initial-scale

A <meta name="viewport"> name="viewport"> tag with width or initial-scale

A <meta name="viewport"> name="viewport"> not only optimizes your app for mobile screen sizes, but also prevents a 300 millisecond

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delay to user input. Learn more about using the viewport meta tag. TBT



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