



# There were issues affecting this run of Lighthouse:

• Chrome extensions negatively affected this page's load performance. Try auditing the page in incognito mode or from a Chrome profile without extensions.



# Performance

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

**A** C

0-49

50-89

90-100



METRICS Expand view

First Contentful Paint

2.1 s

**Total Blocking Time** 

30 ms

Speed Index

2.1 s

Largest Contentful Paint

2.4 s

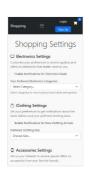
**Cumulative Layout Shift** 

0.004

# View Treemap



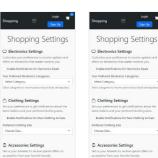












# ▲ Eliminate render-blocking resources — Potential savings of 300 ms

Resources are blocking the first paint of your page. Consider delivering critical JS/CSS inline and deferring all non-critical JS/styles. <u>Learn how to eliminate render-blocking resources</u>. [FCP] [LCP]

# ✓ Show 3rd-party resources (3)

URL	Transfer Size	Potential Savings
JSDelivr CDN Cdn	47.8 KiB	3,210 ms
css/bootstrap.min.css (cdn.jsdelivr.net)	34.4 KiB	1,370 ms
font/bootstrap-icons.css (cdn.jsdelivr.net)	13.4 KiB	1,070 ms
css/bootstrap-icons.css (cdn.jsdelivr.net)	0.0 KiB	770 ms
127.0.0.1	14.5 KiB	760 ms
css/Settings.css (127.0.0.1)	1.4 KiB	150 ms
css/Main.css (127.0.0.1)	13.2 KiB	600 ms

# ▲ Enable text compression — Potential savings of 35 KiB

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

URL	Transfer Size	Potential Savings
127.0.0.1 1st Party	50.5 KiB	35.5 KiB
pages/Settings.html (127.0.0.1)	26.8 KiB	19.0 KiB
css/Main.css (127.0.0.1)	12.8 KiB	8.8 KiB
js/settings.js (127.0.0.1)	10.9 KiB	7.6 KiB

▲ Page prevented back/forward cache restoration — 1 failure reason

Failure reason	Failure type
Extensions with long-lived connection attempted to send messages to frames in back/forward cache.	Pending browser support
pages/Settings.html (127.0.0.1)	

# Minify CSS — Potential savings of 7 KiB

Minifying CSS files can reduce network payload sizes. <u>Learn how to minify CSS</u>. [FCP] [LCP]

URL	Transfer Size	Potential Savings
127.0.0.1 (1st Party)	13.2 KiB	6.8 KiB
css/Main.css (127.0.0.1)	13.2 KiB	6.8 KiB

Minify JavaScript — Potential savings of 32 KiB

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

Show 3rd-party resources (1)

	Show 3rd-par	ty resources (1)
URL	Transfer Size	Potential Savings
Unattributable	54.0 KiB	24.9 KiB
<pre>chrome- extension://dmghijelimhndkbmpgbldicpogfkceaj/data/content_script/resources/na tive.js</pre>	20.4 KiB	9.7 KiB
<pre>chrome-extension://cjpalhdlnbpafiamejdnhcphjbkeiagm/js/contentscript.js</pre>	14.7 KiB	7.8 KiB
<pre>chrome- extension://dmghijelimhndkbmpgbldicpogfkceaj/data/content_script/vendor/tinycolor.js</pre>	11.8 KiB	5.2 KiB
<pre>chrome- extension://dmghijelimhndkbmpgbldicpogfkceaj/data/content_script/inject.js</pre>	7.1 KiB	2.3 KiB
127.0.0.1 1st Party	10.9 KiB	3.8 KiB
js/settings.js (127.0.0.1)	10.9 KiB	3.8 KiB
Selenium IDE Chrome Extension	7.1 KiB	2.8 KiB

URL	Transfer Size	Potential Savings
chrome-extension://mooikfkahbdckldjjndioackbalphokd/assets/prompt.js	7.1 KiB	2.8 KiB

Serve static assets with an efficient cache policy — 2 resources found

A long cache lifetime can speed up repeat visits to your page. Learn more about efficient cache policies.

URL	Cache TTL	Transfer Size
JSDelivr CDN Cdn		141 KiB
fonts/bootstrap-icons.woff2?dd67030 (cdn.jsdelivr.net)	7d	128 KiB
font/bootstrap-icons.css (cdn.jsdelivr.net)	7d	13 KiB

Avoid serving legacy JavaScript to modern browsers — Potential savings of 14 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
<pre>chrome- extension://mmanaflgaempokjfbeeabkadnkoidja js</pre>	m/screenshot. 14.0 KiB
screenshot.js:1	Array.prototype.fill
screenshot.js:1	Array.prototype.filter
screenshot.js:1	Array.prototype.find
screenshot.js:1	Array.from
screenshot.js:1	Array.prototype.map
screenshot.js:1	Object.entries
screenshot.js:1	Object.keys
screenshot.js:1	@babel/plugin-transform- classes
screenshot.js:1	String.fromCodePoint

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]

✓ Show 3rd-party resources (1)

URL	Transfer Size	Potential Savings
JSDelivr CDN Cdn	34.1 KiB	31.8 KiB
css/bootstrap.min.css (cdn.jsdelivr.net)	34.1 KiB	31.8 KiB
127.0.0.1	12.8 KiB	11.4 KiB
css/Main.css (127.0.0.1)	12.8 KiB	11.4 KiB

Reduce unused JavaScript — Potential savings of 397 KiB

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity. <u>Learn how to reduce unused JavaScript</u>. (LCP)

✓ Show 3rd-party resources (2)

URL	Transfer Size	Potential Savings
Unattributable	438.2 KiB	279.6 KiB
chrome-extension://mmanaflgaempokjfbeeabkadnkoidjam/screenshot.js	372.6 KiB	225.7 KiB
chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/renderer.js	37.7 KiB	33.2 KiB
<pre>chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/libs/jquery-3.1.1.min.js</pre>	27.9 KiB	20.6 KiB
Selenium IDE Chrome Extension	191.4 KiB	117.9 KiB
chrome-extension://mooikfkahbdckldjjndioackbalphokd/assets/atoms.js	159.9 KiB	91.4 KiB
chrome-extension://mooikfkahbdckldjjndioackbalphokd/assets/playback.js	31.5 KiB	26.5 KiB

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 <u>windowing</u>. <u>Learn how to improve CLS CLS</u>

Element		Layout shift score
	div.mb-3.mt-5	0.004

Element	Layout shift score
fonts/bootstrap-icons.woff2?dd67030 (cdn.jsdelivr.net)	Web font loaded
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	A late network request adjusted the page layout
js/settings.js (127.0.0.1)	A late network request adjusted the page layout
font/bootstrap-icons.css (cdn.jsdelivr.net)	A late network request adjusted the page layout
css/bootstrap.min.css (cdn.jsdelivr.net)	A late network request adjusted the page layout
css/Main.css (127.0.0.1)	A late network request adjusted the page layout
css/Settings.css (127.0.0.1)	A late network request adjusted the page layout

#### O Avoids an excessive DOM size — 159 elements

A large DOM will increase memory usage, cause longer <u>style calculations</u>, and produce costly <u>layout reflows</u>. <u>Learn how to avoid an excessive DOM size</u>. (TBT)

Statistic	Element	Value
Total DOM Elements		159
Maximum DOM Depth	path	10
Maximum Child Elements	div.mb-3.mt-5	8

#### O Minimizes main-thread work — 1.9 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 minimize main-thread work [TBT]</u>

Category	Time Spent
Script Evaluation	896 ms
Script Parsing & Compilation	386 ms
Other	285 ms
Style & Layout	241 ms
Parse HTML & CSS	84 ms

Category	Time Spent
Rendering	55 ms

# Avoid long main-thread tasks — 5 long tasks found

Lists the longest tasks on the main thread, useful for identifying worst contributors to input delay. <u>Learn how to avoid long main-thread tasks</u> (TBT)

✓ Show 3rd-party resources (1)

URL	Start Time	Duration
Unattributable		750 ms
<pre>chrome-extension://mmanaflgaempokjfbeeabkadnkoidjam/screenshot.js</pre>	1,125 ms	663 ms
Unattributable	1,038 ms	87 ms
127.0.0.1 (1st Party)		403 ms
pages/Settings.html (127.0.0.1)	1,788 ms	203 ms
pages/Settings.html (127.0.0.1)	795 ms	200 ms
JSDelivr CDN Cdn		118 ms
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	3,078 ms	118 ms

# O User Timing marks and measures — 1 user timing

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

Name	Туре	Start Time	Duration
v3	Mark	0.00 ms	

### O Initial server response time was short — Root document took 0 ms

Keep the server response time for the main document short because all other requests depend on it. <u>Learn more about the Time to First Byte metric</u>. (FCP) (LCP)

URL	Time Spent
127.0.0.1 (1st Party)	0 ms

URL Time Spent
...pages/Settings.html (127.0.0.1)
0 ms

#### Avoids enormous network payloads — Total size was 253 KiB

Large network payloads cost users real money and are highly correlated with long load times. Learn how to reduce payload sizes. [LCP]

Show 3rd-party resources (4)

URL	Transfer Size
JSDelivr CDN Cdn	199.7 KiB
fonts/bootstrap-icons.woff2?dd67030 (cdn.jsdelivr.net)	127.7 KiB
css/bootstrap.min.css (cdn.jsdelivr.net)	34.4 KiB
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	24.1 KiB
font/bootstrap-icons.css (cdn.jsdelivr.net)	13.4 KiB
127.0.0.1 1st Party	52.9 KiB
pages/Settings.html (127.0.0.1)	27.1 KiB
css/Main.css (127.0.0.1)	13.2 KiB
js/settings.js (127.0.0.1)	11.2 KiB
css/Settings.css (127.0.0.1)	1.4 KiB

#### Avoid chaining critical requests — 7 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. Learn how to avoid chaining critical requests. FCP LCP

Maximum critical path latency: 209.811 ms

Initial Navigation

```
...pages/Settings.html (127.0.0.1)
```

- ...css/bootstrap.min.css (cdn.jsdelivr.net) 16.078 ms, 34.40 KiB
- $... font/bootstrap-icons.css \ (\texttt{cdn.jsdelivr.net})$ 
  - ...fonts/bootstrap-icons.woff2?dd67030... (cdn.jsdelivr.net) 32.992 ms, 127.70 KiB
- ...css/Settings.css (127.0.0.1) 5.053 ms, 1.38 KiB
- ...css/Main.css (127.0.0.1) 7.377 ms, 13.17 KiB

- ...css/bootstrap-icons.css (cdn.jsdelivr.net) 73.647 ms, 0.00 KiB
- ...js/bootstrap.bundle.min.js (cdn.jsdelivr.net) 19.255 ms, 24.15 KiB
- ...js/settings.js (127.0.0.1) 8.04 ms, 11.22 KiB

# JavaScript execution time — 1.2 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)

✓ Show 3rd-party resources (3)

URL	Total CPU Time	Script Evaluation	Script Parse
Unattributable	857 ms	450 ms	218 ms
<pre>chrome- extension://mmanaflgaempokjfbeeabkadnkoidjam/screenshot.js</pre>	668 ms	442 ms	218 ms
Unattributable	189 ms	7 ms	0 ms
127.0.0.1	579 ms	121 ms	61 ms
pages/Settings.html (127.0.0.1)	579 ms	121 ms	61 ms
Selenium IDE Chrome Extension	347 ms	256 ms	89 ms
<pre>chrome- extension://mooikfkahbdckldjjndioackbalphokd/assets/playba ck.js</pre>	218 ms	204 ms	14 ms
<pre>chrome- extension://mooikfkahbdckldjjndioackbalphokd/assets/atoms. js</pre>	69 ms	3 ms	64 ms
<pre>chrome- extension://mooikfkahbdckldjjndioackbalphokd/assets/record .js</pre>	61 ms	50 ms	11 ms

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
JSDelivr CDN Cdn	200 KiB	0 ms
fonts/bootstrap-icons.woff2?dd67030 (cdn.jsdelivr.net)	128 KiB	0 ms

Third-Party	Transfer Size	Main-Thread Blocking Time
css/bootstrap.min.css (cdn.jsdelivr.net)	34 KiB	0 ms
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	24 KiB	0 ms
font/bootstrap-icons.css (cdn.jsdelivr.net)	13 KiB	0 ms
css/bootstrap-icons.css (cdn.jsdelivr.net)	0 KiB	0 ms
Selenium IDE Chrome Extension	7 KiB	0 ms
<pre>chrome- extension://mooikfkahbdckldjjndioackbalphokd/assets/prompt.js</pre>	7 KiB	0 ms

# ○ Largest Contentful Paint element — 2,350 ms

Defer offscreen images

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

Element	
	h2.p-4.display-1.text-center

Phase	% of LCP	Timing
TTFB	19%	450 ms
Load Delay	0%	0 ms
Load Time	0%	0 ms
Render Delay	81%	1,900 ms

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

PASSED AUDITS (19)

Properly size images

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

Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to

Efficiently encode images	^
Optimized images load faster and consume less cellular data. <u>Learn how to efficiently encode images</u> .	
Serve images in next-gen formats	^
Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which means faster downloads and less data consumption. <u>Learn more about modern image formats</u> .	i
Preconnect to required 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	
Avoid multiple page redirects	^
Redirects introduce additional delays before the page can be loaded. <u>Learn how to avoid page redirects</u> . <u>FCP</u> <u>LCP</u>	
Preload key requests	^
Consider using <link rel="preload"/> to prioritize fetching resources that are currently requested later in page load. Less how to preload key requests. FCP LCP	<u>earn</u>
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 activity.	
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 more about preloading LCP elements</u> . <u>LCP</u>	
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	

interactive. Learn how to defer offscreen images.

font-display. FCP LCP

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 how to defer third-parties with a facade. TBT 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 paint. Learn more about optimal lazy loading. [LCP] 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 <u>a 300 millisecond</u> <u>delay to user input</u>. <u>Learn more about using the viewport meta tag</u>. (TBT)



# 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.

button.btn.btn-primary    a   a     footer.py-3.my-4.text-center     see are opportunities to improve the legibility of your content.    MES AND LABELS     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.    Failing Elements     a.text-light     a.text-li	
footer.py-3.my-4.text-center  e are opportunities to improve the legibility of your content.  ES AND LABELS  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.  Failing Elements  a.text-light	
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Failing Elements  a.text-light	
a.text-light	
a.text-light	

	Failing Elements	
	a.text-light	
assis	e are opportunities to improve the semantics of the controls in your application. This may enhance the experience for use stive technology, like a screen reader.  IGATION	ers of
_	Heading elements are not 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. <u>Learn more about heading order</u> .	
	Failing Elements	
	h4	
	h5	
Thes	e are opportunities to improve keyboard navigation in your application.	
ADD	ITIONAL ITEMS TO MANUALLY CHECK (10)	Hide
0	Interactive controls are keyboard focusable	^
	Custom interactive controls are keyboard focusable and display a focus indicator. <u>Learn how to make custom controls</u> <u>focusable</u> .	
0	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.	
0	The page has a logical tab order	^

<u>logical tab ordering</u> .	
Visual order on the page follows DOM order	^
DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more about DOM and visuordering.</u>	<u>al</u>
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	<u>s traps</u> .
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 not content.	<u>ew</u>
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. <u>Learn more about landmark elements</u>.</nav></main>	
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. <u>Learn more about custo</u> <u>controls and labels</u> .	<u>m</u>
Custom controls have ARIA roles	^
Custom interactive controls have appropriate ARIA roles. <u>Learn how to add roles to custom controls</u> .	
These items address areas which an automated testing tool cannot cover. Learn more in our guide on <u>conducting an accereview</u> .	<u>essibility</u>
PASSED AUDITS (16)	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.	es.
[aria-hidden="true"] is not present on the document <body></body>	^

Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. <u>Learn more about</u>

<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 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. 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. Learn how to make buttons more accessible. [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. [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 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 BCP 47 language helps screen readers announce text properly. Learn how to use the lang attribute. Form elements have associated labels

Assistive technologies, like screen readers, work inconsistently when aria-hidden="true" is set on the document

Labels ensure that form controls are announced properly by assistive technologies, like screen readers. <u>Learn more about form element labels</u>.

	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 <li>elements and script supporting elements (<script> and <template>).</th><th>^</th></tr><tr><th></th><th>Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. <u>Learn mabout proper list structure</u>.</th><th><u>nore</u></th></tr><tr><th></th><th>List items (<li>) are contained within <ul>, <ol> or <menu> parent elements</th><th>^</th></tr><tr><th></th><th>Screen readers require list items (<li>) to be contained within a parent <ul>, <ol> or <menu> to be announced proper <a href="Learn more about proper list structure">Learn more about proper list structure</a>.</th><th>ly.</th></tr><tr><th></th><th>Select elements have associated label elements.</th><th>^</th></tr><tr><th></th><th>Form elements without effective labels can create frustrating experiences for screen reader users. Learn more about the select element.</th><th></th></tr><tr><th></th><th>Values assigned to role="" are valid ARIA roles.</th><th>^</th></tr><tr><th></th><th>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.</th><th>0</th></tr><tr><th></th><th></th><th></th></tr><tr><th>NO</th><th>Γ APPLICABLE (42)</th><th>Hide</th></tr><tr><th>NO<sup>T</sup></th><th></th><th>Hide</th></tr><tr><th>NO<sup>-</sup></th><th>Γ APPLICABLE (42)</th><th>^</th></tr><tr><th>NOT O</th><th>[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 me about access keys.</th><th>^</th></tr><tr><th>0</th><td>[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 me about access keys.</td><td>^ ore</td></tr><tr><th>0</th><th>[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 me about access keys.  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.</th><th>^ ore</th></tr><tr><th>0</th><th>[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 me about access keys.  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.</th><th>^ ore</th></tr><tr><th>0</th><td>[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 manabout access keys.  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.</td><td>^ ore</td></tr></tbody></table></script></li>	

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 unus for users who rely on screen readers. <u>Learn more about input field labels</u> .	able
<ul> <li>ARIA meter elements have accessible names</li> </ul>	^
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> .	
ARIA progressbar elements have accessible names	^
When a progressbar element doesn't have an accessible name, screen readers announce it with a generic name, m it unusable for users who rely on screen readers. <u>Learn how to label progressbar elements</u> .	aking
[role]s have all required [aria-*] attributes	^
Some ARIA roles have required attributes that describe the state of the element to screen readers. <u>Learn more about roand required attributes</u> .	<u>oles</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 a roles and required children elements.</u>	<u>bout</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.
[role] values are valid	^
ARIA roles must have valid values in order to perform their intended accessibility functions. <u>Learn more about valid ARI roles</u> .	<u>A</u>
<ul> <li>Elements with the role=text attribute do not have focusable descendents.</li> </ul>	^
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 unus for users who rely on screen readers. Learn more about toggle fields.	able
<ul> <li>ARIA tooltip elements have accessible names</li> </ul>	^

	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.	
C	The page contains a heading, skip link, or landmark region	•
	Adding ways to bypass repetitive content lets keyboard users navigate the page more efficiently. <u>Learn more about bypass blocks</u> .	
	<dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements.</td><td>b</td></tr><tr><td></td><td>When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. <u>Learn how to structure definition lists correctly.</u></td><td></td></tr><tr><td></td><td>Definition list items are wrapped in <dl> elements</td><td>b</td></tr><tr><td></td><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></td><td>ARIA IDs are unique</td><td></td></tr><tr><td></td><td>The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. <u>Learn</u> how to fix duplicate ARIA IDs.</td><td></td></tr><tr><td></td><td>No form fields have multiple labels</td><td></td></tr><tr><td></td><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>r</td></tr><tr><td>C</td><td><pre><frame> or <iframe> elements have a title</pre></td><td></td></tr><tr><td></td><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></td><td><html> element has an [xml:lang] attribute with the same base language as the [lang] attribute.</td><td></td></tr><tr><td></td><td>If the webpage does not specify a consistent language, then the screen reader might not announce the page's text correctly.  <u>Learn more about the lang attribute</u>.</td><td></td></tr><tr><td>C</td><td>Image elements have [alt] attributes</td><td></td></tr><tr><td></td><td>Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt</td><td></td></tr></tbody></table></script></dd></dt></dl>	

attribute. Learn more about the alt attribute.

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. Learn how to name tooltip elements.

<ul><li>Image elements do not have [alt] attributes that are redundant text.</li></ul>	^
Informative elements should aim for short, descriptive alternative text. Alternative text that is exactly the same adjacent to the link or image is potentially confusing for screen reader users, because the text will be read twice about the alt attribute.	
O Input buttons have discernible text.	^
Adding discernable and accessible text to input buttons may help screen reader users understand the purpose button. Learn more about input buttons.	e of the input
<pre><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 the purpose of the button. Learn about input image alt text.	understand
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. create a frustrating or confusing experience. <u>Learn more about the refresh meta tag</u> .	This may
O <object> elements have alternate text</object>	^
Screen readers cannot translate non-text content. Adding alternate text to <object> elements helps screen reading to users. Learn more about alt text for object elements.</object>	eaders convey
<ul> <li>Skip links are focusable.</li> </ul>	^
Including a skip link can help users skip to the main content to save time. Learn more about skip links.	
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 frus experiences for users who rely on assistive technologies. <u>Learn more about the tabindex attribute</u> .	trating
<ul> <li>Tables have different content in the summary attribute and <caption>.</caption></li> </ul>	^
The summary attribute should describe the table structure, while <caption> should have the onscreen title. A mark-up helps users of screen readers. Learn more about summary and caption.</caption>	Accurate table
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] at refer to other cells in the same table may improve the experience for screen reader users. Learn more about the attribute.	-
elements and elements with [role="columnheader"/"rowheader"] have data cells they describe.	^

[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>Lean</u> how to use the <u>lang attribute</u> .	<u>rn</u>
<pre><video> elements contain a <track/> element with [kind="captions"]</video></pre>	^
When a video provides a caption it is easier for deaf and hearing impaired users to access its information. <u>Learn more all video captions</u> .	<u>bout</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.	
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.	ək
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 controls to activate the targets. <u>Learn more about touch targets</u> .	
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>	
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 [colspan] attribute may improve the experience for screen reader users. Learn more about captions.	ead
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 n	

about table headers.

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.



# **Best Practices**

#### TRUST AND SAFFTY

1110	OT AND OAI ETT			
0	Ensure CSP is effective against XSS attacks			^
	A strong Content Security Policy (CSP) significantly reduces the risk a CSP to prevent XSS	of cross-site scripting (XSS) a	ittacks. <u>Learn how to u</u>	<u>ise</u>
	Description	Directive	Severity	
	No CSP found in enforcement mode		High	
PAS	SED AUDITS (14)			Hide
	Uses HTTPS			^
	All sites should be protected with HTTPS, even ones that don't hand where some resources are loaded over HTTP despite the initial requintruders from tampering with or passively listening in on the community prerequisite for HTTP/2 and many new web platform APIs. Learn more	est being served over HTTPS nications between your app ar	. HTTPS prevents	
	Avoids deprecated APIs			^
	Deprecated APIs will eventually be removed from the browser. Learn	n more about deprecated APIs	-	
	Avoids third-party cookies			^
	Support for third-party cookies will be removed in a future version of cookies.	Chrome. <u>Learn more about ph</u>	nasing out third-party	
	Allows users to paste into input fields			^
	Preventing input pasting is a bad practice for the UX, and weakens about user-friendly input fields.	security by blocking password	managers. <u>Learn more</u>	!
	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. <u>Learn more about the geolocation permission</u>.

Show 3rd-party resources (6)

Avoids requesting the notification permission on page load

NOT APPLICABLE (2)

Fonts with font-display: optional are preloaded

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



# 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 <a href="Core Web Vitals">Core Web Vitals</a>. Learn more about Google Search Essentials.

#### CONTENT BEST PRACTICES

Page has successful HTTP status code

Document does not have a meta description Meta descriptions may be included in search results to concisely summarize page content. Learn more about the meta description. Format your HTML in a way that enables crawlers to better understand your app's content. 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 (10) Hide 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 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.

	Pages with unsuccessful HTTP status codes may not be in	ndexed properly. <u>Learn more ab</u>	out HTTP status codes.	
	Links have descriptive text			^
	Descriptive link text helps search engines understand your	content. <u>Learn how to make lir</u>	ıks more accessible.	
	Links are crawlable			^
	Search engines may use href attributes on links to crawl to an appropriate destination, so more pages of the site can			nks
	Page isn't blocked from indexing			^
	Search engines are unable to include your pages in search about crawler directives.	n results if they don't have perm	ission to crawl them. <u>Learn mo</u>	<u>re</u>
	Document has a valid hreflang			^
	hreflang links tell search engines what version of a page the Learn more about hreflang.	ney should list in search results	for a given language or region.	
	Document uses legible font sizes — 100% legible text			^
	Font sizes less than 12px are too small to be legible and re have >60% of page text ≥12px. Learn more about legible for		o zoom" in order to read. Strive	to:
	Source Selector	% of Page Text	Font Size	
	Legible text	100.00%	≥ 12px	
	Document avoids plugins			^
	Search engines can't index plugin content, and many device avoiding plugins.	ces restrict plugins or don't supp	port them. <u>Learn more about</u>	
	Tap targets are sized appropriately — 100% appropriate	ely sized tap targets		^
	Interactive elements like buttons and links should be large easy enough to tap without overlapping onto other element	- , , ,	-	
NO	DT APPLICABLE (3)			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 or indexed. <u>Learn more about robots.txt</u>.

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.
O Document has a valid rel=canonical
Canonical links suggest which URL to show in search results. Learn more about canonical links.
Alongside Chrome's updated Installability Criteria, Lighthouse will be deprecating the PWA category in a future release. Please refer to the updated PWA documentation for future PWA testing.
PAA
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: No manifest was fetched.
A themed splash screen ensures a high-quality experience when users launch your app from their homescreens. <u>Learn</u> more about splash screens.

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

Failures: No manifest was fetched, No `<meta name="theme-color">` tag found.

Does not set a theme color for the address bar.

If the width of your app's content doesn't match the width of the viewport, your app might not be optimized for mobile screens. Learn how to size content for the viewport.

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]

Manifest doesn't have a maskable icon No manifest was fetched

A maskable icon ensures that the image fills the entire shape without being letterboxed when installing the app on a device. Learn about maskable manifest icons.

# ADDITIONAL ITEMS TO MANUALLY CHECK (3)

Hide

Site works cross-browser

To reach the most number of users, sites should work across every major browser. Learn about cross-browser compatibility.

Page transitions don't feel like they block on the network

Transitions should feel snappy as you tap around, even on a slow network. This experience is key to a user's perception of performance. Learn more about page transitions.

Each page has a URL

Ensure individual pages are deep linkable via URL and that URLs are unique for the purpose of shareability on social media. Learn more about providing deep links.

These checks are required by the baseline PWA Checklist but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

Captured at Mar 27, 2024, 11:38 AM GMT

Lighthouse 11.5.0

Emulated Moto G Power with

Single page session

Initial page load

Slow 4G throttling

Using Chromium 123.0.0.0 with

devtools

Generated by Lighthouse 11.5.0 | File an issue