



Performance



Accessibility



Best Practices



SEO



## Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)



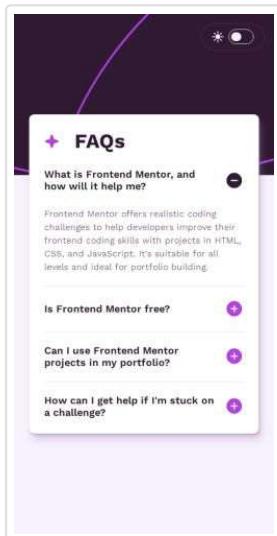
0–49



50–89



90–100



### METRICS

[Expand view](#)

● First Contentful Paint

**0.8 s**

● Total Blocking Time

**0 ms**

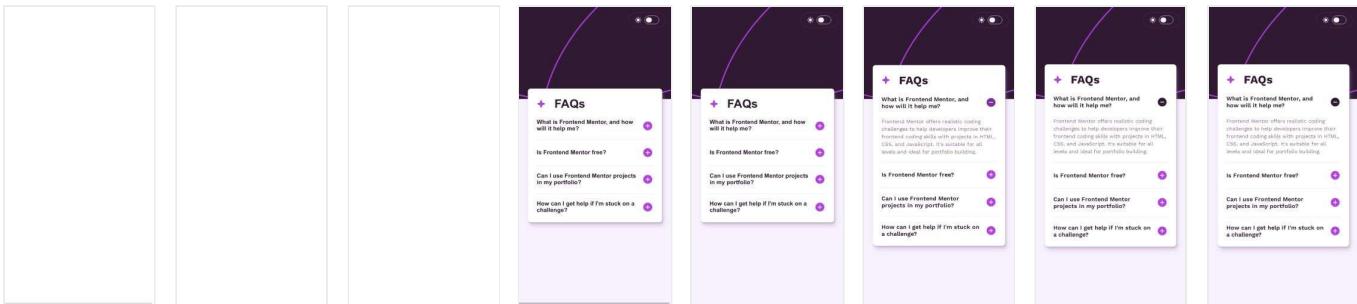
● Speed Index

● Largest Contentful Paint

**0.8 s**

● Cumulative Layout Shift

**0.044**

**2.4 s**

💡 Later this year, insights will replace performance audits. [Learn more and provide feedback here.](#)

[Go back to audits](#)

 Show audits relevant to: [All](#) [FCP](#) [LCP](#) [CLS](#)

## INSIGHTS

### ⚠ Document request latency — Est savings of 540 ms

Your first network request is the most important. Reduce its latency by avoiding redirects, ensuring a fast server response, and enabling text compression. [LCP](#) [FCP](#)

Applies text compression

Avoids redirects

Server responded slowly (observed 643 ms)

### ⚠ Render blocking requests — Est savings of 300 ms

Requests are blocking the page's initial render, which may delay LCP. [Deferring or inlining](#) can move these network requests out of the critical path. [LCP](#) [FCP](#)

#### URL

Transfer Size	Duration
2.6 KiB	180 ms
2.6 KiB	180 ms

netlify.app [1st Party](#)

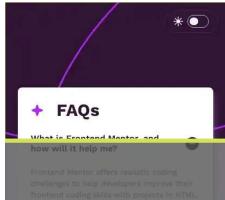
/css/style.css (faq-accordion-fm-jiro.netlify.app)

### ⚠ LCP request discovery

Optimize LCP by making the LCP image [discoverable](#) from the HTML immediately, and [avoiding lazy-loading](#) [LCP](#)



- ∅ fetchpriority=high should be applied
- ✓ lazy load not applied
- ✓ Request is discoverable in initial document



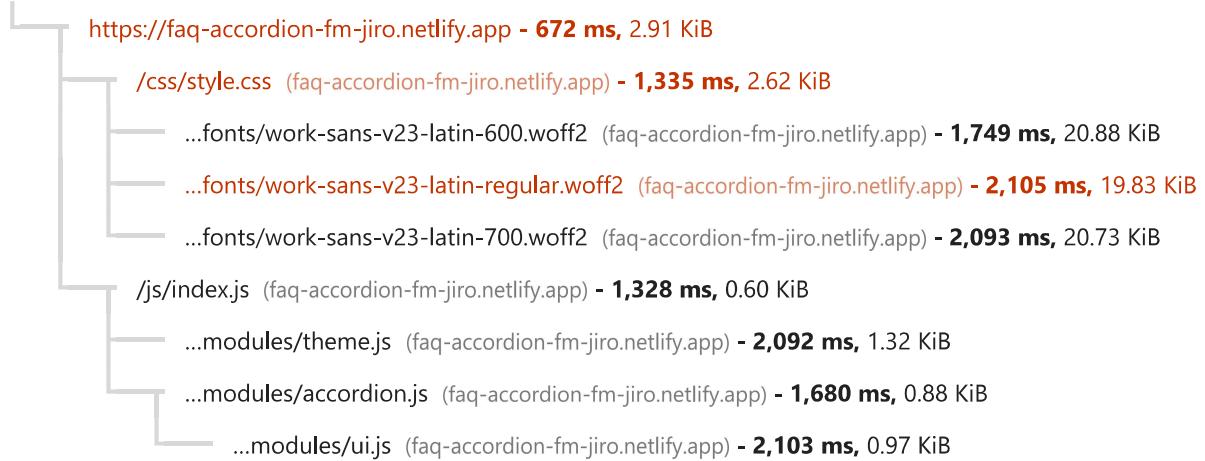
body > main#main > picture.main\_picture > img.main\_background  


## ⚠ Network dependency tree

[Avoid chaining critical requests](#) by reducing the length of chains, reducing the download size of resources, or deferring the download of unnecessary resources to improve page load. [\[LCP\]](#)

Maximum critical path latency: **2,105 ms**

### Initial Navigation



### Preconnected origins

[preconnect](#) hints help the browser establish a connection earlier in the page load, saving time when the first request for that origin is made. The following are the origins that the page preconnected to.

no origins were preconnected

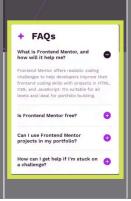
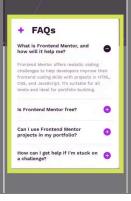
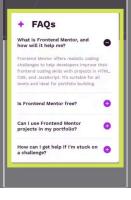
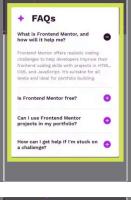
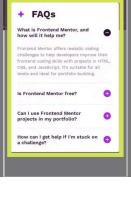
### Preconnect candidates

Add [preconnect](#) hints to your most important origins, but try to use no more than 4.

No additional origins are good candidates for preconnecting

## ○ Layout shift culprits

Layout shifts occur when elements move absent any user interaction. [Investigate the causes of layout shifts](#), such as elements being added, removed, or their fonts changing as the page loads. [CLS](#)

Element	Layout shift score
Total	0.044
	FAQs What is Frontend Mentor, and how will it help me? Frontend Mentor offers... <code>&lt;article class="card" aria-labelledby="card-title"&gt;</code> 0.008
	FAQs What is Frontend Mentor, and how will it help me? Frontend Mentor offers... <code>&lt;article class="card" aria-labelledby="card-title"&gt;</code> 0.008
	FAQs What is Frontend Mentor, and how will it help me? Frontend Mentor offers... <code>&lt;article class="card" aria-labelledby="card-title"&gt;</code> 0.007
	FAQs What is Frontend Mentor, and how will it help me? Frontend Mentor offers... <code>&lt;article class="card" aria-labelledby="card-title"&gt;</code> 0.006
	FAQs What is Frontend Mentor, and how will it help me? Frontend Mentor offers... <code>&lt;article class="card" aria-labelledby="card-title"&gt;</code> 0.005

## ○ LCP breakdown

Each [subpart has specific improvement strategies](#). Ideally, most of the LCP time should be spent on loading the resources, not within delays. [LCP](#)

Subpart	Duration
Time to first byte	0 ms
Resource load delay	660 ms
Resource load duration	670 ms

Subpart	Duration
Element render delay	50 ms

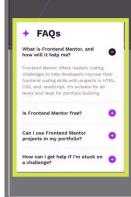
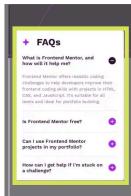
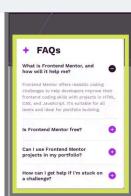
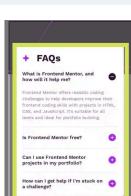
body > main#main > picture.main\_picture > img.main\_background  


These insights are also available in the Chrome DevTools Performance Panel - [record a trace](#) to view more detailed information.

## DIAGNOSTICS

### ○ Avoid large layout shifts — 8 layout shifts 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

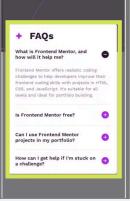
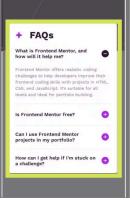
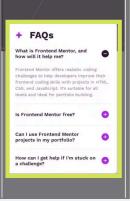
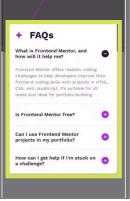
Element	Layout shift score
	0.008
	0.008
	0.007
	0.006

FAQs What is Frontend Mentor, and how will it help me?  
Frontend Mentor offers...  
<article class="card" aria-labelledby="card-title">

FAQs What is Frontend Mentor, and how will it help me?  
Frontend Mentor offers...  
<article class="card" aria-labelledby="card-title">

FAQs What is Frontend Mentor, and how will it help me?  
Frontend Mentor offers...  
<article class="card" aria-labelledby="card-title">

FAQs What is Frontend Mentor, and how will it help me?  
Frontend Mentor offers...  
<article class="card" aria-labelledby="card-title">

Element	Layout shift score
	FAQs What is Frontend Mentor, and how will it help me? Frontend Mentor offers... <code>&lt;article class="card" aria-labelledby="card-title"&gt;</code>
	FAQs What is Frontend Mentor, and how will it help me? Frontend Mentor offers... <code>&lt;article class="card" aria-labelledby="card-title"&gt;</code>
	FAQs What is Frontend Mentor, and how will it help me? Frontend Mentor offers... <code>&lt;article class="card" aria-labelledby="card-title"&gt;</code>
	FAQs What is Frontend Mentor, and how will it help me? Frontend Mentor offers... <code>&lt;article class="card" aria-labelledby="card-title"&gt;</code>
	<code>body &gt; main#main &gt; picture.main__picture &gt; img.main__background &lt;img src="./assets/img/background-pattern-mobile_375x232.svg" alt="" aria-hidden="true" class="main__background" type="svg+xml"&gt;</code>
<code>...fonts/work-sans-v23-latin-600.woff2 (faq-accordion-fm-jiro.netlify.app)</code>	Media element lacking an explicit size
	Web font loaded

## ○ Avoid chaining critical requests — 5 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.](#)

Maximum critical path latency: **2,100.628 ms**

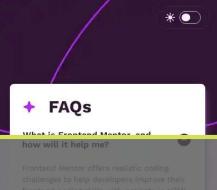
### Initial Navigation



...fonts/work-sans-v23-latin-regular.woff2 (faq-accordion-fm-jiro.netlify.app)	- <b>756.675 ms</b> , 19.83 KiB
...fonts/work-sans-v23-latin-700.woff2 (faq-accordion-fm-jiro.netlify.app)	- <b>744.069 ms</b> , 20.73 KiB
...fonts/work-sans-v23-latin-600.woff2 (faq-accordion-fm-jiro.netlify.app)	- <b>399.387 ms</b> , 20.88 KiB

## ○ Largest Contentful Paint element — 800 ms ^

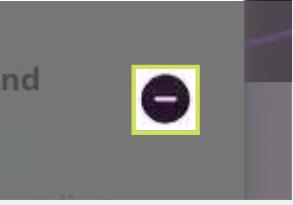
This is the largest contentful element painted within the viewport. [Learn more about the Largest Contentful Paint element](#) LCP

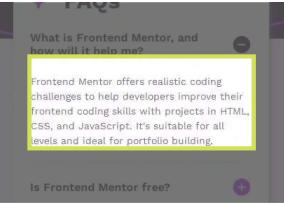
Element
 <pre>body &gt; main#main &gt; picture.main_picture &gt; img.main_background &lt;img src="./assets/img/background-pattern-mobile_375x232.svg" alt="" aria-hidden="true" class="main_background" type="svg+xml"&gt;</pre>

Phase	% of LCP	Timing
TTFB	75%	600 ms
Load Delay	0%	0 ms
Load Time	21%	170 ms
Render Delay	4%	30 ms

## ○ Avoid non-composited animations — 2 animated elements found ^

Animations which are not composited can be janky and increase CLS. [Learn how to avoid non-composited animations](#) CLS

Element	Name
 <pre>section.card_faq &gt; header.card_faq-header &gt; button.card_button &gt; svg.card_button-icon &lt;svg xmlns="http://www.w3.org/2000/svg" width="30" height="31" fill="none" viewBox="0 0 30 31" aria- hidden="true" class="card_button-icon minus-light"&gt;</pre>	
Unsupported CSS Property: color	color

Element	Name
	Frontend Mentor offers realistic coding challenges to help developers improve t... <pre>&lt;div class="card__answer" style="max-height: 128px;"&gt;</pre> <p>Unsupported CSS Property: max-height</p>

More information about the performance of your application. These numbers don't [directly affect](#) the Performance score.

## PASSED AUDITS (42)

Hide

### ○ Use efficient cache lifetimes

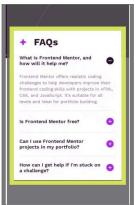
^

A long cache lifetime can speed up repeat visits to your page. [Learn more](#).

### ● Optimize DOM size

^

A large DOM can increase the duration of style calculations and layout reflows, impacting page responsiveness. A large DOM will also increase memory usage. [Learn how to avoid an excessive DOM size](#).

Statistic	Element	Value
Total elements		63
Most children		5
path	FAQs What is Frontend Mentor, and how will it help me? Frontend Mentor offers... <pre>&lt;article class="card" aria-labelledby="card-title"&gt;</pre>	
DOM depth	<pre>&lt;path fill="currentColor" d="M15 3.313A12.187 12.187 0 1 0 27.188 15.5 12.203 12.203 0 0 0 15 3.312Zm4...."&gt;</pre>	9

### ○ Duplicated JavaScript

^

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

## Font display

Consider setting [font-display](#) to swap or optional to ensure text is consistently visible. swap can be further optimized to mitigate layout shifts with [font metric overrides](#).

## Forced reflow

A forced reflow occurs when JavaScript queries geometric properties (such as offsetWidth) after styles have been invalidated by a change to the DOM state. This can result in poor performance. Learn more about [forced reflows](#) and possible mitigations.

## Improve image delivery

Reducing the download time of images can improve the perceived load time of the page and LCP.

[Learn more about optimizing image size](#)

## INP breakdown

Start investigating with the longest subpart. [Delays can be minimized](#). To reduce processing duration, [optimize the main-thread costs](#), often JS.

## Legacy JavaScript

Polyfills and transforms enable older browsers to use new JavaScript features. However, many aren't necessary for modern browsers. Consider modifying your JavaScript build process to not transpile [Baseline](#) features, unless you know you must support older browsers. [Learn why most sites can deploy ES6+ code without transpiling](#).

## 3rd parties

3rd party code can significantly impact load performance. [Reduce and defer loading of 3rd party code](#) to prioritize your page's content.

## Optimize viewport for mobile

Tap interactions may be [delayed by up to 300 ms](#) if the viewport is not optimized for mobile.

head > meta

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

#### ● Eliminate render-blocking resources ^

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

#### ● Properly size images ^

Serve images that are appropriately-sized to save cellular data and improve load time. [Learn how to size images.](#) LCP FCP

#### ● Defer offscreen images ^

Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive. [Learn how to defer offscreen images.](#) LCP FCP

#### ● Minify CSS ^

Minifying CSS files can reduce network payload sizes. [Learn how to minify CSS.](#) LCP FCP

#### ● Minify JavaScript ^

Minifying JavaScript files can reduce payload sizes and script parse time. [Learn how to minify JavaScript.](#) LCP FCP

#### ● 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.](#) LCP FCP

#### ● 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](#) [FCP](#)

## ● Efficiently encode images ^

Optimized images load faster and consume less cellular data. [Learn how to efficiently encode images](#).

[LCP](#) [FCP](#)

## ● 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. [Learn more about modern image formats](#). [LCP](#) [FCP](#)

## ● 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](#). [LCP](#) [FCP](#)

## ● 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](#). [LCP](#) [FCP](#)

## ● Initial server response time was short — Root document took 220 ms ^

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

[Learn more about the Time to First Byte metric](#). [LCP](#) [FCP](#)

URL	Time Spent
netlify.app <a href="#">1st Party</a>	220 ms
https://faq-accordion-fm-jiro.netlify.app	220 ms

## ● Avoid multiple page redirects ^

Redirects introduce additional delays before the page can be loaded. [Learn how to avoid page redirects](#). [LCP](#) [FCP](#)

### ● 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](#) [FCP](#)

### ● Remove duplicate modules in JavaScript bundles ^

Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by network activity. [LCP](#) [FCP](#)

### ● Avoid serving legacy JavaScript to modern browsers ^

Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't necessary for modern browsers. Consider modifying your JavaScript build process to not transpile [Baseline](#) features, unless you know you must support legacy browsers. [Learn why most sites can deploy ES6+ code without transpiling](#) [LCP](#) [FCP](#)

### ● Preload Largest Contentful Paint image ^

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

### ● Avoids enormous network payloads — Total size was 72 KiB ^

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

URL	Transfer Size
netlify.app <a href="#">1st Party</a>	71.9 KiB
...fonts/work-sans-v23-latin-600.woff2 (faq-accordion-fm-jiro.netlify.app)	20.9 KiB
...fonts/work-sans-v23-latin-700.woff2 (faq-accordion-fm-jiro.netlify.app)	20.7 KiB
...fonts/work-sans-v23-latin-regular.woff2 (faq-accordion-fm-jiro.netlify.app)	19.8 KiB

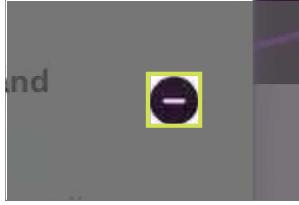
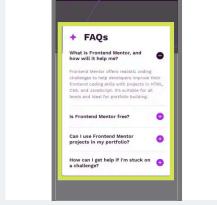
URL	Transfer Size
<a href="https://faq-accordion-fm-jiro.netlify.app">https://faq-accordion-fm-jiro.netlify.app</a>	2.9 KiB
/css/style.css (faq-accordion-fm-jiro.netlify.app)	2.6 KiB
...modules/theme.js (faq-accordion-fm-jiro.netlify.app)	1.3 KiB
...img/background-pattern-mobile_375x232.svg (faq-accordion-fm-jiro.netlify.app)	1.2 KiB
...modules/ui.js (faq-accordion-fm-jiro.netlify.app)	1.0 KiB
...modules/accordion.js (faq-accordion-fm-jiro.netlify.app)	0.9 KiB
/js/index.js (faq-accordion-fm-jiro.netlify.app)	0.6 KiB

● Uses efficient cache policy on static assets — 0 resources found ^

A long cache lifetime can speed up repeat visits to your page. [Learn more about efficient cache policies.](#)

● Avoids an excessive DOM size — 61 elements ^

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

Statistic	Element	Value
Total DOM Elements		61
Maximum DOM Depth		<pre>header.card__faq-header &gt; button.card__button &gt;   svg.card__button-icon &gt; path     &lt;path fill="currentColor" d="M15       3.313A12.187 12.187 0 1 0 27.188 15.5 12.2       0 0 0 15 3.312Zm4.688 ..."&gt;</pre>
Maximum Child Elements		<p>FAQs What is Frontend Mentor, and how will it help me?  Frontend Mentor offers...</p> <pre>&lt;article class="card" aria-labelledby="card-title"&gt;</pre>

○ User Timing marks and measures ^

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

● JavaScript execution time — 0.0 s ^

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

URL	Total CPU Time	Script Evaluation	Script Parse
netlify.app <a href="#">1st Party</a>	<b>92 ms</b>	<b>2 ms</b>	<b>0 ms</b>
https://faq-accordion-fm-jiro.netlify.app	92 ms	2 ms	0 ms
Unattributable	<b>55 ms</b>	<b>4 ms</b>	<b>0 ms</b>
Unattributable	55 ms	4 ms	0 ms

● Minimizes main-thread work — 0.2 s ^

Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this. [Learn how to minimize main-thread work](#) [TBT]

Category	Time Spent
Other	76 ms
Style & Layout	46 ms
Rendering	20 ms
Script Evaluation	12 ms
Parse HTML & CSS	8 ms
Script Parsing & Compilation	1 ms

● All text remains visible during webfont loads ^

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

[Learn more about font-display.](#)

## ○ Minimize third-party usage ^

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

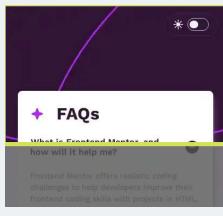
## ○ Lazy load third-party resources with facades ^

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

### Element



```
body > main#main > picture.main__picture > img.main__background  

```

## ● 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 long main-thread tasks ^

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

● 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](#).



## 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.

### 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.](#)

○ 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 controls and labels.](#)

○ Custom controls have ARIA roles ^

Custom interactive controls have appropriate ARIA roles. [Learn how to add roles to custom controls.](#)

These items address areas which an automated testing tool cannot cover. Learn more in our guide on [conducting an accessibility review.](#)

- [\[aria-\\*\] attributes match their roles](#)

Each ARIA role supports a specific subset of aria-\* attributes. Mismatching these invalidates the aria-\* attributes. [Learn how to match ARIA attributes to their roles.](#)

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

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

- [\[aria-\\*\] attributes have valid values](#)

Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. [Learn 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.](#)

- [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.](#)

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- [\[aria-hidden="true"\] elements do not contain focusable descendants](#) ^

Focusable descendants 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.](#)

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- [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.](#)

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- [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 [BCP 47 language](#) helps screen readers announce text properly. [Learn how to use the lang attribute.](#)

- 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.](#)

- Skip links are focusable. ^

Including a skip link can help users skip to the main content to save time. [Learn more about skip links.](#)

## NOT APPLICABLE (40)

Hide

- [accesskey] values are unique ^

Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. [Learn more about access keys.](#)

- Uses ARIA roles only on compatible elements ^

Many HTML elements can only be assigned certain ARIA roles. Using ARIA roles where they are not allowed can interfere with the accessibility of the web page. [Learn more about ARIA roles.](#)

- 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.](#)

- Deprecated ARIA roles were not used

Deprecated ARIA roles may not be processed correctly by assistive technology. [Learn more about deprecated ARIA roles.](#)

- Elements with `role="dialog"` or `role="alertdialog"` have accessible names.

ARIA dialog elements without accessible names may prevent screen readers users from discerning the purpose of these elements. [Learn how to make ARIA dialog elements more accessible.](#)

- ARIA input fields have accessible names

When an input field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. [Learn more about input field labels.](#)

- 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.](#)

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

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

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

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

- `[role]`s are contained by their required parent element

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

- [role] values are valid ^

ARIA roles must have valid values in order to perform their intended accessibility functions. [Learn more about valid ARIA roles](#).

- Elements with the `role=text` attribute do not have focusable descendants. ^

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

- ARIA toggle fields have accessible names ^

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

- 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. [Learn how to name tooltip elements](#).

- ARIA `treeitem` elements have accessible names ^

When a `treeitem` element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. [Learn more about labeling treeitem elements](#).

- The page contains a heading, skip link, or landmark region ^

Adding ways to bypass repetitive content lets keyboard users navigate the page more efficiently. [Learn more about bypass blocks](#).

- `<dl>`'s contain only properly-ordered `<dt>` and `<dd>` groups, `<script>`, `<template>` or `<div>` elements. ^

When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. [Learn how to structure definition lists correctly](#).

- Definition list items are wrapped in `<dl>` elements ^

Definition list items (`<dt>` and `<dd>`) must be wrapped in a parent `<dl>` element to ensure that screen readers can properly announce them. [Learn how to structure definition lists correctly](#).

- ARIA IDs are unique ^

The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. [Learn how to fix duplicate ARIA IDs.](#)

- No form fields have multiple labels ^

Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use either the first, the last, or all of the labels. [Learn how to use form labels.](#)

- <frame> or <iframe> elements have a title ^

Screen reader users rely on frame titles to describe the contents of frames. [Learn more about frame titles.](#)

- <html> element has an [xml:lang] attribute with the same base language as the [lang] attribute. ^

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.](#)

- 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.](#)

- 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.](#)

- Input buttons have discernible text. ^

Adding discernable and accessible text to input buttons may help screen reader users understand the purpose of the input button. [Learn more about input buttons.](#)

- <input type="image"> elements have [alt] text ^

When an image is being used as an <input> button, providing alternative text can help screen reader users understand the purpose of the button. [Learn about input image alt text.](#)

## ○ 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 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>`).

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 (`<li>`) are contained within `<ul>`, `<ol>` or `<menu>` parent elements

Screen readers require list items (`<li>`) to be contained within a parent `<ul>`, `<ol>` or `<menu>` to be announced properly. [Learn more about proper list structure.](#)

## ○ The document does not use `<meta http-equiv="refresh">`

Users do not expect a page to refresh automatically, and doing so will move focus back to the top of the page. This may create a frustrating or confusing experience. [Learn more about the refresh meta tag.](#)

## ○ `<object>` elements have alternate text

Screen readers cannot translate non-text content. Adding alternate text to `<object>` elements helps screen readers convey meaning to users. [Learn more about alt text for object elements.](#)

## ○ Select elements have associated label elements.

Form elements without effective labels can create frustrating experiences for screen reader users. [Learn more about the select element.](#)

## ○ 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.](#)

○ 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.](#)

○ Cells in a [<table>](#) element that use the [\[headers\]](#) attribute refer to table cells within the same table. ^

Screen readers have features to make navigating tables easier. Ensuring [<td>](#) 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.](#)

○ [<th>](#) 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. [Learn more about table headers.](#)

○ [\[lang\]](#) attributes have a valid value ^

Specifying a valid [BCP 47 language](#) on elements helps ensure that text is pronounced correctly by a screen reader. [Learn how to use the lang attribute.](#)

○ [<video>](#) elements contain a [<track>](#) element with [\[kind="captions"\]](#) ^

When a video provides a caption it is easier for deaf and hearing impaired users to access its information. [Learn more about video captions.](#)



## Best Practices

## ○ 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

## ○ Ensure proper origin isolation with COOP ^

The Cross-Origin-Opener-Policy (COOP) can be used to isolate the top-level window from other documents such as pop-ups. [Learn more about deploying the COOP header.](#)

Description	Directive	Severity
No COOP header found		High

## ○ Mitigate clickjacking with XFO or CSP ^

The X-Frame-Options (XFO) header or the frame-ancestors directive in the Content-Security-Policy (CSP) header control where a page can be embedded. These can mitigate clickjacking attacks by blocking some or all sites from embedding the page. [Learn more about mitigating clickjacking.](#)

Description	Severity
No frame control policy found	High

## ○ Mitigate DOM-based XSS with Trusted Types ^

The require-trusted-types-for directive in the Content-Security-Policy (CSP) header instructs user agents to control the data passed to DOM XSS sink functions. [Learn more about mitigating DOM-based XSS with Trusted Types.](#)

Description	Severity
No `Content-Security-Policy` header with Trusted Types directive found	High

## 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.](#)

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- [Avoids deprecated APIs](#) ^

Deprecated APIs will eventually be removed from the browser. [Learn more about deprecated APIs.](#)

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- [Avoids third-party cookies](#) ^

Third-party cookies may be blocked in some contexts. [Learn more about preparing for third-party cookie restrictions.](#)

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- [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.](#)

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- [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.](#)

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- [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.](#)

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- [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](#).

- 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  $\geq 12\text{px}$ . [Learn more about legible font sizes](#).

Source	Selector	% of Page Text	Font Size
Legible text		100.00%	$\geq 12\text{px}$

- Page has the HTML doctype

Specifying a doctype prevents the browser from switching to quirks-mode. [Learn more about the doctype declaration](#).

- Properly defines charset

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

- 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](#).

NOT APPLICABLE (3) Hide

○ 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](#).

○ Use a strong HSTS policy ^

Deployment of the HSTS header significantly reduces the risk of downgrading HTTP connections and eavesdropping attacks. A rollout in stages, starting with a low max-age is recommended. [Learn more about using a strong HSTS policy](#).

○ Detected JavaScript libraries ^

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 [Core Web Vitals](#). [Learn more about Google Search Essentials](#).

### 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 (8)

[Hide](#)

- 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 href attributes on links to crawl websites. Ensure that the href 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](#).

● Document has a valid `rel=canonical` ^

Canonical links suggest which URL to show in search results. [Learn more about canonical links](#).

NOT APPLICABLE (2) Hide

○ robots.txt is valid ^

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

○ Image elements have `[alt]` attributes ^

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

Initial page load

Unknown

Using HeadlessChromium

137.0.7151.119 with Ir

Generated by **Lighthouse** 12.8.0 | [File an issue](#)