



Performance



Accessibility



Best Practices



SEO



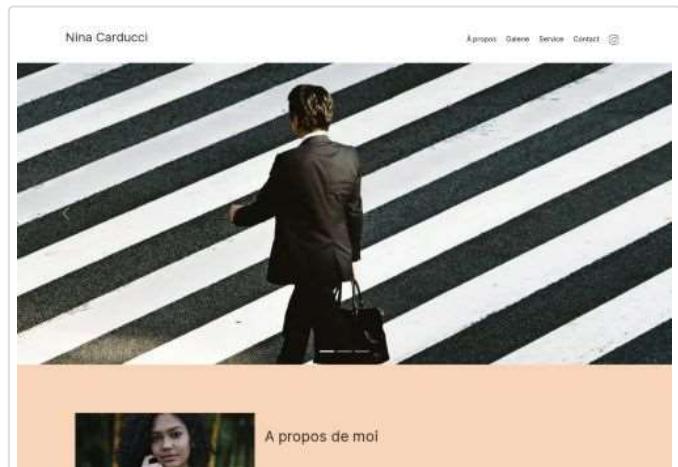
PWA



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

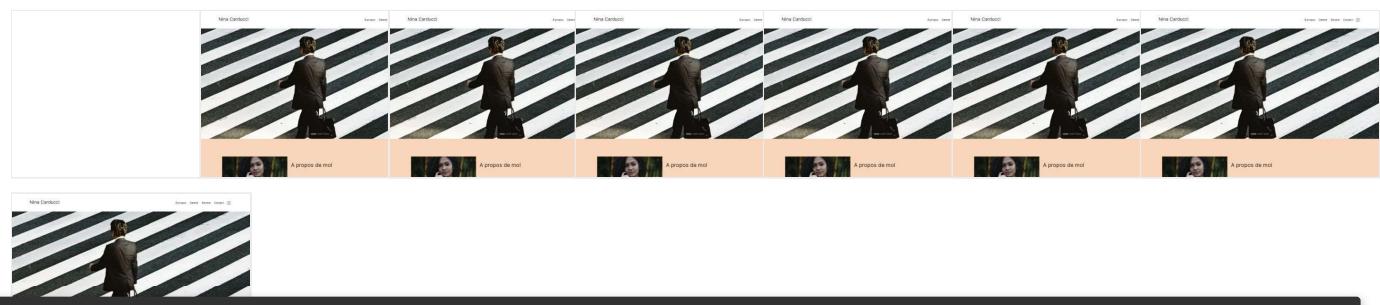
● Speed Index

0.8 s

● Largest Contentful Paint

0.8 s

● Cumulative Layout Shift

0[View Treemap](#)

Warning: Results may not display properly. Report was created with an earlier version of Lighthouse (10.3.0). The latest version is 10.4.0.

OPPORTUNITIES

Opportunity

Estimated Savings

█ Eliminate render-blocking resources0.45s ^

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.](#) FCP LCP

 Show 3rd-party resources (1)

URL	Transfer Size	Potential Savings
GitHub Utility 1st Party	27.2 KiB	90 ms
...bootstrap/bootstrap.css (amandineuhl.github.io)	27.2 KiB	90 ms
Google Fonts Cdn	1.5 KiB	210 ms
/css2?family=... (fonts.googleapis.com)	1.5 KiB	210 ms

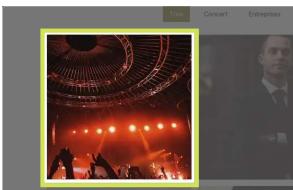
█ Properly size images0.23s ^

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

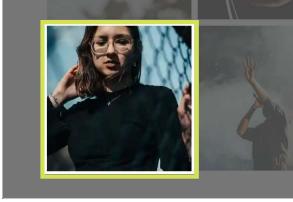
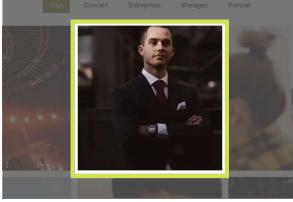
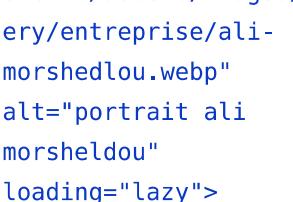
URL	Resource Size	Potential Savings
GitHub Utility 1st Party	549.2 KiB	270.9 KiB
	61.1 KiB	57.2 KiB
<pre>nin a <i mg sr c=". /assets/images/nina.w ebp" alt="nina" loading="lazy"></pre>	45.5 KiB	44.0 KiB
		
<pre>im ... ag images/camera.webp (amandineuhl.github.io) e_ ca m era <img</pre>		

Warning: Results may not display properly. Report was created with an earlier version of Lighthouse (10.3.0). The latest version is 10.4.0.

```
loading="lazy">>
```

URL	Resource Size	Potential Savings
Slide1 <pre></pre> 	87.7 KiB	43.4 KiB
m ari ag e jak ob owens <pre></pre> 	93.6 KiB	36.3 KiB
co nc ert s aa ron paul <pre></pre> 	95.7 KiB	29.9 KiB
po rtr ait ad e tunii 	74.3 KiB	28.9 KiB

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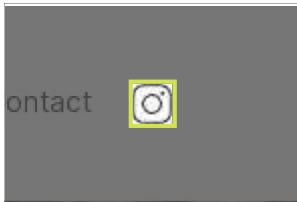
URL	Resource Size	Potential Savings
<pre>src="./assets/images/gallery/portraits/ade-tunji.webp" alt="portrait ade tunji" loading="lazy"></pre>  <p>po rtr ait s nin</p>		
<pre>o van prattenburg </pre>  <p>po rtr ait ali m</p>	...portraits/nino-van-prattenburg.webp (amandineuhl.github.io)	62.8 KiB 20.1 KiB
<pre>orsheldou </pre> 	...entreprise/ali-morshedlou.webp (amandineuhl.github.io)	28.5 KiB 11.1 KiB

These suggestions can help your page load faster. They don't [directly affect](#) the Performance score.

DIAGNOSTICS

Warning: Results may not display properly. Report was created with an earlier version of Lighthouse (10.3.0). The latest version is 10.4.0.

Set an explicit width and height on image elements to reduce layout shifts and improve CLS. [Learn how to set image dimensions](#) [CLS](#)

URL		
GitHub	Utility	1st Party
	image_camera	
	nina	
	lien instagram	
		...slider/ryoji-iwata.webp (amandineuhl.github.io)
		...images/nina.webp (amandineuhl.github.io)
		images/instagram.png (amandineuhl.github.io)

⚠ Serve static assets with an efficient cache policy — 18 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
GitHub	Utility	1st Party
...concerts/aaron-paul.webp (amandineuhl.github.io)	10m	96 KiB
...mariage/jakob-owens.webp (amandineuhl.github.io)	10m	94 KiB
...slider/ryoji-iwata.webp (amandineuhl.github.io)	10m	88 KiB

Warning: Results may not display properly. Report was created with an earlier version of Lighthouse (10.3.0). The latest version is 10.4.0.

URL	Cache TTL	Transfer Size
...images/nina.webp (amandineuhl.github.io)	10m	62 KiB
...images/camera.webp (amandineuhl.github.io)	10m	46 KiB
...bootstrap/bootstrap.bundle.js (amandineuhl.github.io)	10m	44 KiB
...concerts/austin-neill.webp (amandineuhl.github.io)	10m	34 KiB
...entreprise/mateus-campos-felipe.webp (amandineuhl.github.io)	10m	33 KiB
...entreprise/jason-goodman.webp (amandineuhl.github.io)	10m	30 KiB
...entreprise/ali-morshedlou.webp (amandineuhl.github.io)	10m	29 KiB
...bootstrap/bootstrap.css (amandineuhl.github.io)	10m	27 KiB
...mariage/hannah-busing.webp (amandineuhl.github.io)	10m	26 KiB
...assets/maugallery.js (amandineuhl.github.io)	10m	3 KiB
...assets/style.css (amandineuhl.github.io)	10m	2 KiB
...images/instagram.png (amandineuhl.github.io)	10m	1 KiB
...assets/scripts.js (amandineuhl.github.io)	10m	1 KiB

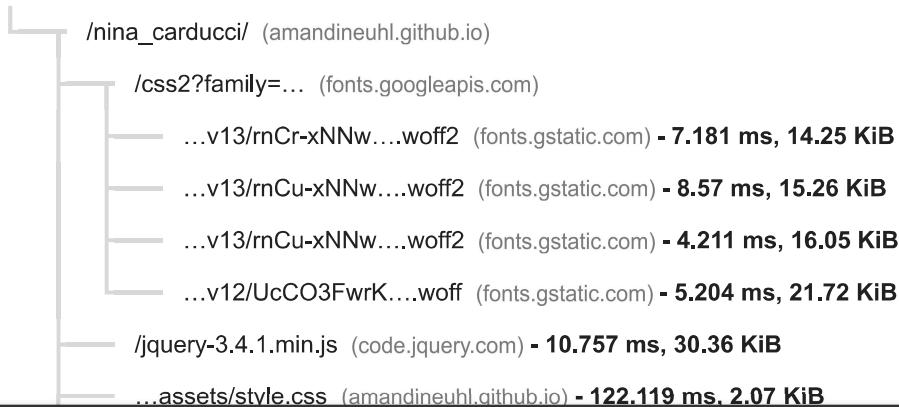
○ Avoid chaining critical requests — 8 chains found ^

The Critical Request Chains below show you what resources are loaded with a high priority.

Consider reducing the length of chains, reducing the download size of resources, or deferring the download of unnecessary resources to improve page load. [Learn how to avoid chaining critical requests.](#) FCP LCP

Maximum critical path latency: **333.479 ms**

Initial Navigation



Warning: Results may not display properly. Report was created with an earlier version of Lighthouse (10.3.0). The latest version is 10.4.0.

○ Keep request counts low and transfer sizes small — 25 requests • 860 KiB

^

To set budgets for the quantity and size of page resources, add a `budget.json` file. [Learn more about performance budgets.](#)

Resource Type	Requests	Transfer Size
Total	25.0	859.5 KiB
Image	13.0	679.3 KiB
Script	4.0	78.3 KiB
Font	4.0	67.3 KiB
Stylesheet	3.0	30.7 KiB
Document	1.0	3.9 KiB
Media	0.0	0.0 KiB
Other	0.0	0.0 KiB
Third-party	25.0	859.5 KiB

○ Largest Contentful Paint element — 850 ms

^

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

Element
Slide1
<code></code>

Phase	% of LCP	Timing
TTFB	33%	280 ms
Load Delay	0%	0 ms
Load Time	28%	240 ms
Render Delay	38%	330 ms

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Element

CLS Contribution



À propos Galerie Service Contact

<nav class="nav">

0.000

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

PASSED AUDITS (30)

Hide

- 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](#).

- Minify CSS — Potential savings of 5 KiB

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

URL	Transfer Size	Potential Savings
GitHub Utility 1st Party	27.2 KiB	5.3 KiB
...bootstrap/bootstrap.css (amandineuhl.github.io)	27.2 KiB	5.3 KiB

- Minify JavaScript — Potential savings of 16 KiB

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

URL	Transfer Size	Potential Savings
GitHub Utility 1st Party	44.4 KiB	16.5 KiB
...bootstrap/bootstrap.bundle.js (amandineuhl.github.io)	44.4 KiB	16.5 KiB

- Reduce unused CSS — Potential savings of 25 KiB

Warning: Results may not display properly. Report was created with an earlier version of Lighthouse (10.3.0). The latest version is 10.4.0.

URL	Transfer Size	Potential Savings
GitHub Utility 1st Party	27.2 KiB	24.6 KiB
...bootstrap/bootstrap.css (amandineuhl.github.io)	27.2 KiB	24.6 KiB

● Reduce unused JavaScript — Potential savings of 31 KiB ^

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]

URL	Transfer Size	Potential Savings
GitHub Utility 1st Party	44.4 KiB	31.2 KiB
...bootstrap/bootstrap.bundle.js (amandineuhl.github.io)	44.4 KiB	31.2 KiB
...js/src/tooltip.js	4.0 KiB	3.2 KiB
...js/src/dropdown.js	2.9 KiB	2.1 KiB
...js/src/carousel.js	3.4 KiB	1.9 KiB
...js/src/modal.js	2.4 KiB	1.8 KiB
...js/src/collapse.js	1.9 KiB	1.4 KiB

● Efficiently encode images ^

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

● 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.](#)

● Enable text compression ^

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

Warning: Results may not display properly. Report was created with an earlier version of Lighthouse (10.3.0). The latest version is 10.4.0.

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

● Initial server response time was short — Root document took 110 ms ^

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

URL	Time Spent
GitHub Utility 1st Party	110 ms
/nina_carducci/ (amandineuhl.github.io)	110 ms

● Avoid multiple page redirects ^

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

○ Preload key requests ^

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

● Use video formats for animated content ^

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

● Remove duplicate modules in JavaScript bundles ^

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

● Avoid serving legacy JavaScript to modern browsers ^

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shipped to modern browsers, while retaining support for legacy browsers. [Learn how to use modern JavaScript](#) [TBT]

● Preload Largest Contentful Paint image ^

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

● Avoids enormous network payloads — Total size was 860 KiB ^

Large network payloads cost users real money and are highly correlated with long load times.

[Learn how to reduce payload sizes.](#) [LCP]

URL	Transfer Size
GitHub Utility 1st Party	637.1 KiB
...concerts/aaron-paul.webp (amandineuhl.github.io)	96.4 KiB
...mariage/jakob-owens.webp (amandineuhl.github.io)	94.3 KiB
...slider/ryoji-iwata.webp (amandineuhl.github.io)	88.4 KiB
...portraits/ade-tunji.webp (amandineuhl.github.io)	75.0 KiB
...portraits/nino-van-prattenburg.webp (amandineuhl.github.io)	63.4 KiB
...images/nina.webp (amandineuhl.github.io)	61.8 KiB
...images/camera.webp (amandineuhl.github.io)	46.1 KiB
...bootstrap/bootstrap.bundle.js (amandineuhl.github.io)	44.4 KiB
...concerts/austin-neill.webp (amandineuhl.github.io)	34.4 KiB
...entreprise/mateus-campos-felipe.webp (amandineuhl.github.io)	32.9 KiB

● Avoids an excessive DOM size — 135 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
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Statistic	Element	Value
Maximum DOM Depth	< <div class="mg-prev" style="cursor:pointer;position:absolute;top:50%;left:-15px;background:white;"><</div>	9
Maximum Child Elements	body <body> 	12

>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

Show 3rd-party resources (1)

URL	Total CPU Time	Script Evaluation	Script Parse
GitHub <small>Utility</small> <small>1st Party</small>	134 ms	5 ms	2 ms
/nina_carducci/ (amandineuhl.github.io)	134 ms	5 ms	2 ms
jQuery CDN <small>Cdn</small>	61 ms	26 ms	3 ms
/jquery-3.4.1.min.js (code.jquery.com)	61 ms	26 ms	3 ms

Minimizes main-thread work — 0.3 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	121 ms
Style & Layout	66 ms

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Category	Time Spent
Rendering	14 ms
Script Parsing & Compilation	10 ms
Garbage Collection	2 ms

● All text remains visible during webfont loads

Leverage the `font-display` CSS feature to ensure text is user-visible while webfonts are loading. [Learn more about `font-display`](#). [FCP] [LCP]

● Minimize third-party usage — Third-party code blocked the main thread for 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.

[Learn how to minimize third-party impact](#). [TBT]

Third-Party	Transfer Size	Main-Thread Blocking Time
Google Fonts Cdn	69 KiB	0 ms
...v12/UcCO3FwrK....woff (fonts.gstatic.com)	22 KiB	0 ms
...v13/rnCu-xNNw....woff2 (fonts.gstatic.com)	16 KiB	0 ms
...v13/rnCu-xNNw....woff2 (fonts.gstatic.com)	15 KiB	0 ms
...v13/rnCr-xNNw....woff2 (fonts.gstatic.com)	14 KiB	0 ms
jQuery CDN Cdn	30 KiB	0 ms
/jquery-3.4.1.min.js (code.jquery.com)	30 KiB	0 ms

○ 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

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all - styles >

Element

- 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

- Avoid non-composited animations ^

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

TBT



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These checks highlight opportunities to [improve the accessibility of your web app](#). Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

ADDITIONAL ITEMS TO MANUALLY CHECK (10)

[Hide](#)

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](#).

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 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](#).

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](#).

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](#).

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DOM order matches the visual order, improving navigation for assistive technology. [Learn more about DOM and visual ordering.](#)

○ 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.](#)

○ 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.](#)

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

PASSED AUDITS (19) Hide

● [aria-*] attributes match their roles ^

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

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

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

● [aria-*] attributes have valid values ^

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

Warning: Results may not display properly. Report was created with an earlier version of Lighthouse (10.3.0). The latest version is 10.4.0.

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.](#)

- 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.](#)

- 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.](#)

- 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.](#)

- 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.](#)

- `[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-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.](#)

Warning: Results may not display properly. Report was created with an earlier version of Lighthouse (10.3.0). The latest version is 10.4.0.

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.](#)

● Lists contain only `` elements and script supporting elements (`<script>` and `<template>`). ^

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

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

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

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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.](#)

NOT APPLICABLE (29)

[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.](#)

[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.](#)

[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.

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- 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](#).

- 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.

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- 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.](#)

- `[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.](#)

- 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.](#)

- `<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.](#)

- 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.](#)

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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 use `<caption>` instead of cells with the `[colspan]` attribute to indicate a caption. ^

Screen readers have features to make navigating tables easier. Ensuring that tables use the actual caption element instead of cells with the `[colspan]` attribute may improve the experience for screen reader users. [Learn more about captions.](#)

- `<td>` elements in a large `<table>` have one or more table headers. ^

Screen readers have features to make navigating tables easier. Ensuring that `<td>` elements in a large table (3 or more cells in width and height) have an associated table header may improve the experience for screen reader users. [Learn more about table headers.](#)

- Cells in a `<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.](#)

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Best Practices

TRUST AND SAFETY

○ Ensure CSP is effective against XSS attacks ^

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

Description	Directive	Severity
No CSP found in enforcement mode		High

GENERAL

○ Detected JavaScript libraries ^

All front-end JavaScript libraries detected on the page. [Learn more about this JavaScript library detection diagnostic audit.](#)

Name	Version
Bootstrap	5.1.3
jQuery	3.4.1

PASSED AUDITS (13)

Hide

● Uses HTTPS ^

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listening in on the communications between your app and your users, and is a prerequisite for HTTP/2 and many new web platform APIs. [Learn more about HTTPS.](#)

- Avoids requesting the geolocation permission on page load ^

Users are mistrustful of or confused by sites that request their location without context. Consider tying the request to a user action instead. [Learn more about the geolocation permission.](#)

- Avoids requesting the notification permission on page load ^

Users are mistrustful of or confused by sites that request to send notifications without context. Consider tying the request to user gestures instead. [Learn more about responsibly getting permission for notifications.](#)

- 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.](#)

- Displays images with correct aspect ratio ^

Image display dimensions should match natural aspect ratio. [Learn more about image aspect ratio.](#)

- Serves images with appropriate resolution ^

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

- Page has the HTML doctype ^

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

- Properly defines charset ^

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character encoding.

● Avoids [unload](#) event listeners

The unload event does not fire reliably and listening for it can prevent browser optimizations like the Back-Forward Cache. Use pagehide or visibilitychange events instead. [Learn more about unload event listeners](#)

● Avoids deprecated APIs

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

● No browser errors logged to the console

Errors logged to the console indicate unresolved problems. They can come from network request failures and other browser concerns. [Learn more about this errors in console diagnostic audit](#)

● No issues in the [Issues](#) panel in Chrome Devtools

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

● Page has valid source maps

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

URL	Map URL
GitHub	Utility 1st Party
...	...
bootstrap/bootstrap.bundle.js (amandineuhl.github.io)	bootstrap/bootstrap.bundle.js.map (amandineuhl.github.io)

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Preload optional fonts so first-time visitors may use them. [Learn more about preloading fonts](#)



SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more about Google Search Essentials](#).

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](#).

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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](#)

- Page isn't blocked from indexing

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

- Image elements have `[alt]` attributes

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

- Document has a valid `hreflang`

`hreflang` links tell search engines what version of a page they should list in search results for a given language or region. [Learn more about hreflang](#).

- Document avoids plugins

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NOT APPLICABLE (4)

[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](#).

 Document has a valid `rel=canonical` ^

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

 Document uses legible font sizes ^

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](#).

 Tap targets are sized appropriately ^

Interactive elements like buttons and links should be large enough (48x48px), or have enough space around them, to be easy enough to tap without overlapping onto other elements. [Learn more about tap targets](#).



PWA

These checks validate the aspects of a Progressive Web App. [Learn what makes a good Progressive Web App](#).

INSTALLABLE

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

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homescreen, which can lead to higher engagement. [Learn more about manifest installability requirements.](#)

Failure reason

No manifest was fetched

PWA OPTIMIZED

▲ Does not register a service worker that controls page and `start_url`

The 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. [Learn more about Service Workers.](#)

▲ 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. [Learn more about splash screens.](#)

Does not set a theme color for the address bar.

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

The browser address bar can be themed to match your site. [Learn more about theming the address bar.](#)

○ Content is sized correctly for the viewport

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**

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[Hide](#)

ADDITIONAL ITEMS TO MANUALLY CHECK (3)

 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 Jul 24, 2023, 7:01 PM Emulated Desktop with Lighthouse Single page load

GMT+2

10.3.0

 Initial page load Unknown Using HeadlessChromium

114.0.5735.179 with lr

Generated by **Lighthouse** 10.3.0 | [File an issue](#)

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