











Performance

nance Accessibility

Best Practices

SEO

PWA



# Performance

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

**METRICS** 

0-49

50-89

90-100



0.5 s

First Contentful Paint

Speed Index

1.3 s

Largest Contentful Paint

1.5 s

Time to Interactive

0.5 s

Total Blocking Time

0 ms

**Cumulative Layout Shift** 

0.006

View Original Trace

**View Treemap** 



















Expand view

Show audits relevant to: All FCP TBT LCP CLS

OPPORTUNITIES

Opportunity Estimated Savings

Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which means faster downloads and less data consumption. <u>Learn more</u>.

	URL	Resource Size	Potentia Savings
div#bloc-3- what-i- do.bloc.tc- white.bgc- atomic- tangerine.bloc-bg-texture.texture- paper.b-parallax.bg-atlanta-20made- 20sign-20orange.d-bloc	img/atlanta%20made%20sign%20orange. jpg (mserr113.github.io)	25,726.7 KiB	17,289.2 KiE
img.i mg- respo nsive .portf	img/4.bmp (mserr113.github.io)	1,256.6 KiB	1,192.7 KiE
img.i mg- respo nsive .portf	img/3.bmp (mserr113.github.io)	1,067.0 KiB	1,005.3 KiE
div#bloc-5- cta.bloc.bgc- dark-slate- blue.bg- atlanta- 20made-20sign.d-bloc.bloc-bg- texture.texture-paper	img/atlanta%20made%20sign.jpg (mserr1 13.github.io)	945.4 KiB	881.1 KiE
img.i mg- respo nsive .portf	<b>img/2.jpg</b> (mserr113.github.io)	1,067.7 KiB	665.0 KiE

		URL	Resource Size	Potential Savings
olio-thumb	img.i mg- respo nsive .portf	img/11.jpg (mserr113.github.io)	348.3 KiB	227.3 KiB
e-resize-mode	img.c enter - block .imag	img/atlanta%20web%20designer%20mike .png (mserr113.github.io)	113.8 KiB	74.3 KiB
		img/texture- paper.png (mserr113.github.io)	93.9 KiB	66.5 KiB

▲ Efficiently encode images

12.88 ∧
s

Optimized images load faster and consume less cellular data. Learn more.

	URL		Resource Size	Potentia Saving
div#b what- do.ble white atom angerine.bloc-bg-texture.text aper.b-parallax.bg-atlanta-20 0sign-20orange.d-bloc	oc.tc- .bgc- img/a c- jpg (	atlanta%20made%20sign%20orange. (mserr113.github.io)	25,726.7 KiB	13,070.4 Kil
lio-thumb	img.i mg- respo im nsive .portf	g/4.bmp (mserr113.github.io)	1,256.6 KiB	1,110.0 Ki

	URL	Resource Size	Potential Savings
img.i mg- respo nsive .portf	img/3.bmp (mserr113.github.io)	1,067.0 KiB	923.0 KiB
div#bloc-5- cta.bloc.bgc- dark-slate- blue.bg- atlanta- 20made-20sign.d-bloc.bloc-bg- texture.texture-paper	img/atlanta%20made%20sign.jpg (mserr1 13.github.io)	945.4 KiB	769.0 KiB
img.i mg- respo nsive .portf	img/2.jpg (mserr113.github.io)	1,067.7 KiB	126.7 KiB
img.i mg- respo nsive .portf	img/11.jpg (mserr113.github.io)	348.3 KiB	41.1 KiB

▲ Properly size images 2.72 s ヘ

Serve images that are appropriately-sized to save cellular data and improve load time. <u>Learn more</u>.

URL	Resource	Potential	
UKL	Size	Savings	

		URL	Resource Size	Potential Savings
g.img-responsive.portfolio- thumb	i m	img/2.jpg (mserr113.github.io)	1,067.7 KiB	1,037.3 KiB
g.img-responsive.portfolio- thumb	i m	img/4.bmp (mserr113.github.io)	1,256.6 KiB	1,033.0 KiB
g.img-responsive.portfolio- thumb	i m	img/3.bmp (mserr113.github.io)	1,067.0 KiB	877.1 KiB
g.img-responsive.portfolio-	i m	img/11.jpg (mserr113.github.io)	348.3 KiB	327.5 KiE
g.center-block.image-resize- mode	i m	img/atlanta%20web%20designer%20mike.png (m serr113.github.io)	113.8 KiB	112.2 KiB

	URL	Resource Size	Potential Savings
j m	img/atlanta%20web%20design%20logo.png (mser r113.github.io)	10.9 KiB	5.7 KiB

Eliminate render-blocking resources

0.14 s ^

Resources are blocking the first paint of your page. Consider delivering critical JS/CSS inline and deferring all non-critical JS/styles. Learn more. FCP (LCP)

URL	Transfer Size	Potential Savings
css/bootstrap.css (mserr113.github.io)	21.7 KiB	80 ms
js/jquery-2.1.0.js (mserr113.github.io)	34.9 KiB	80 ms

These suggestions can help your page load faster. They don't <u>directly affect</u> the Performance score.

#### DIAGNOSTICS

▲ Avoid enormous network payloads — Total size was 30,932 KiB

Large network payloads cost users real money and are highly correlated with long load times. Learn more. [LCP]

URL	Transfer Size
img/atlanta%20made%20sign%20orange.jpg (mserr113.github.io)	25,741.1 KiB
img/4.bmp (mserr113.github.io)	1,256.6 KiB
img/2.jpg (mserr113.github.io)	1,068.7 KiB
img/3.bmp (mserr113.github.io)	1,067.0 KiB

URL	Transfer Size
img/atlanta%20made%20sign.jpg (mserr113.github.io)	946.1 KiB
img/11.jpg (mserr113.github.io)	348.7 KiB
img/atlanta%20web%20designer%20mike.png (mserr113.github.io)	114.0 KiB
img/texture-paper.png (mserr113.github.io)	94.1 KiB
fonts/fontawesome-webfont.woff2?v=4.7.0 (mserr113.github.io)	75.6 KiB
fonts/et-line.woff (mserr113.github.io)	54.3 KiB

## ▲ Serve static assets with an efficient cache policy — 24 resources found

A long cache lifetime can speed up repeat visits to your page. <u>Learn more</u>.

URL	Cache TTL	Transfer Size
img/atlanta%20made%20sign%20orange.jpg (mserr113.github.io)	10 m	25,741 KiB
img/4.bmp (mserr113.github.io)	10 m	1,257 KiB
img/2.jpg (mserr113.github.io)	10 m	1,069 KiB
img/3.bmp (mserr113.github.io)	10 m	1,067 KiB
img/atlanta%20made%20sign.jpg (mserr113.github.io)	10 m	946 KiB
img/11.jpg (mserr113.github.io)	10 m	349 KiB
img/atlanta%20web%20designer%20mike.png (mserr113.github.io)	10 m	114 KiB
img/texture-paper.png (mserr113.github.io)	10 m	94 KiB
fonts/fontawesome-webfont.woff2?v=4.7.0 (mserr113.github.io)	10 m	76 KiB
fonts/et-line.woff (mserr113.github.io)	10 m	54 KiB

URL	Cache TTL	Transfer Size
js/jquery-2.1.0.js (mserr113.github.io)	10 m	35 KiB
css/bootstrap.css (mserr113.github.io)	10 m	22 KiB
img/title.png (mserr113.github.io)	10 m	16 KiB
img/title2.png (mserr113.github.io)	10 m	15 KiB
js/gmaps.js (mserr113.github.io)	10 m	14 KiB
img/atlanta%20web%20design%20logo.png (mserr113.github.io)	10 m	11 KiB
js/bootstrap.js (mserr113.github.io)	10 m	11 KiB
img/quote.png (mserr113.github.io)	10 m	8 KiB
css/font-awesome.css (mserr113.github.io)	10 m	7 KiB
js/jquery.touchSwipe.js (mserr113.github.io)	10 m	6 KiB
/P4/style.css (mserr113.github.io)	10 m	4 KiB
js/blocs.js (mserr113.github.io)	10 m	3 KiB
css/et-line.css (mserr113.github.io)	10 m	2 KiB
img/lines-h2-bg.png (mserr113.github.io)	10 m	1 KiB

### ▲ Ensure text remains visible during webfont load

Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading. <u>Learn more</u>. FCP <u>LCP</u>

URL	Potential Savings
fonts/et-line.woff (mserr113.github.io)	430 ms
fonts/fontawesome-webfont.woff2?v=4.7.0 (mserr113.github.io)	460 ms

Set an explicit width and height on image elements to reduce layout shifts and improve CLS. <u>Learn more</u> <u>CLS</u>

		URL
	img.img- responsi ve.portfo lio- thumb	img/2.jpg (mserr113.github.io)
	img.img- responsi ve.portfo lio- thumb	img/11.jpg (mserr113.github.io)
mode	img.cent er- block.im age- resize-	img/atlanta%20web%20designer%20mike.png (mserr113.github.io)
	img.img- responsi ve.portfo lio- thumb	img/3.bmp (mserr113.github.io)
	img.img- responsi ve.portfo lio- thumb	img/4.bmp (mserr113.github.io)
	img	img/title.png (mserr113.github.io)



O Avoid chaining critical requests — 9 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 more. FCP [LCP]

Maximum critical path latency: 1,090 ms

Initial Navigation

```
/P4/ (mserr113.github.io)
```

...css/bootstrap.css (mserr113.github.io) - 30 ms, 21.66 KiB

/P4/style.css (mserr113.github.io) - 40 ms, 4.19 KiB

...css/font-awesome.css (mserr113.github.io)

...fonts/fontawesome-webfont.woff2?v=4.7.0 (mserr113.github.io) - 460 ms, 75.55 KiB

...css/et-line.css (mserr113.github.io)

...fonts/et-line.woff (mserr113.github.io) - 430 ms, 54.29 KiB

...js/jquery-2.1.0.js (mserr113.github.io) - 70 ms, 34.94 KiB

...js/bootstrap.js (mserr113.github.io) - 40 ms, 11.05 KiB

...js/blocs.js (mserr113.github.io) - 30 ms, 3.27 KiB

...js/jquery.touchSwipe.js (mserr113.github.io) - 40 ms, 5.77 KiB

...js/gmaps.js (mserr113.github.io) - 50 ms, 14.35 KiB

To set budgets for the quantity and size of page resources, add a budget.json file. Learn more.

Resource Type	Requests	Transfer Size
Total	26	30,932.3 KiB
Image	13	30,688.7 KiB
Font	2	129.8 KiB
Script	5	69.4 KiB
Stylesheet	4	34.9 KiB
Other	1	6.2 KiB
Document	1	3.3 KiB
Media	0	0.0 KiB
Third-party	0	0.0 KiB

O Largest Contentful Paint element — 1 element found

This is the largest contentful element painted within the viewport. Learn More [LCP]

div#bloc-1-hero.bloc.bgc-dark-slate-blue.bg-atlanta-20made-20sign.d-bloc.bg-t-edge.bloc-bg-texture.texture-paper.b-parallax

Avoid large layout shifts — 4 elements found

These DOM elements contribute most to the CLS of the page. CLS

Element		CLS Contribution
	div.row.voffset-lg.med-width-whitespace	0.006
	span.et-icon-browser.sm-shadow.icon-dark-slate- blue.icons.icon-lg	0
	span.et-icon-presentation.sm-shadow.icon-dark-slate-blue.icons.icon-lg	0
	span.et-icon-edit.sm-shadow.icon-dark-slate- blue.icons.icon-lg	0

Avoid long main-thread tasks — 1 long task found

Lists the longest tasks on the main thread, useful for identifying worst contributors to input delay. Learn more (TBT)

URL	Start Time	Duration
/P4/ (mserr113.github.io)	275 ms	56 ms

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

PASSED AUDITS (27)

Defer offscreen images

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

^

Minifying CSS files can reduce network payload sizes. Learn more. FCP [LCP]

URL	Transfer Size	Potential Savings
css/bootstrap.css (mserr113.github.io)	21.7 KiB	4.3 KiB

Minify JavaScript — Potential savings of 22 KiB

Minifying JavaScript files can reduce payload sizes and script parse time. Learn more. FCP [LCP]

URL	Transfer Size	Potential Savings
js/jquery-2.1.0.js (mserr113.github.io)	34.9 KiB	14.4 KiB
js/gmaps.js (mserr113.github.io)	14.4 KiB	4.5 KiB
js/bootstrap.js (mserr113.github.io)	11.0 KiB	3.0 KiB

Reduce unused CSS — Potential savings of 21 KiB

Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity. Learn more. FCP LCP

URL	Transfer Size	Potential Savings
css/bootstrap.css (mserr113.github.io)	21.7 KiB	20.6 KiB

Reduce unused JavaScript — Potential savings of 23 KiB

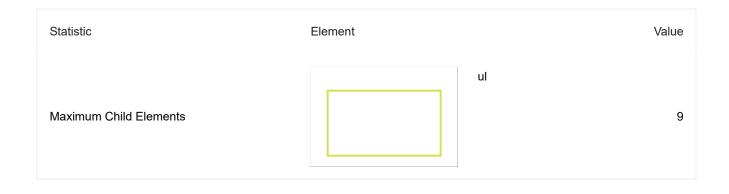
Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity. <u>Learn more</u>. [LCP]

LIDI	Transfer	Potential
URL	Size	Savings

	URL	Transfer Size	Potential Savings	
	js/jquery-2.1.0.js (mserr113.github.io)	34.9 KiB	22.7 KiB	
	Enable text compression		^	b
	Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total more. FCP LCP	ıl network byte	s. <u>Learn</u>	
	Preconnect to required origins		^	•
	Consider adding `preconnect` or `dns-prefetch` resource hints to establish early connections to in Learn more. FCP LCP	mportant third-	party origins.	
	Initial server response time was short — Root document took 20 ms		^	<b>b</b>
	Keep the server response time for the main document short because all other requests depend of LCP	on it. <u>Learn mo</u>	ore. FCP	
	URL		Time Spent	
	/P4/ (mserr113.github.io)		20 ms	
	Avoid multiple page redirects		^	b
	Redirects introduce additional delays before the page can be loaded. <u>Learn more</u> . <u>FCP</u> <u>LCP</u>			
0	Preload key requests		^	•
	Consider using ` <li>k rel=preload&gt;` to prioritize fetching resources that are currently requested la more. FCP LCP</li>	ater in page loa	ad. <u>Learn</u>	
	Use HTTP/2		^	•
	HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. Learn m	<u>iore</u> .		
	Use video formats for animated content		^	•
	Large GIFs are inefficient for delivering animated content. Consider using MPEG4/WebM videos	for animations	s and	

PNG/WebP for static images instead of GIF to save network bytes. <u>Learn more</u> [LCP]

Remove duplicate mo	dules in JavaScript bundles				^
Remove large, duplicate	JavaScript modules from b	undles to red	uce unnecessa	ary bytes consumed by networ	k activity.
Avoid serving legacy J	JavaScript to modern brows	ers			^
modern browsers. For yo	our bundled JavaScript, ado	pt a modern	script deploym	. However, many aren't necessent strategy using module/non ining support for legacy brows	nodule feature
Preload Largest Conte	entful Paint image				^
Preload the image used	by the LCP element in orde	r to improve	your LCP time.	Learn more. (LCP)	
			URL		Potential Savings
	div#bloc-1-hero.bloc.bgc-slate-blue.bg-atlanta-20m 20sign.d-bloc.bg-t-edge.b texture.texture-paper.b-pa	nade- bloc-bg-	 img/atlanta%2 13.github.io)	20made%20sign.jpg (mserr1	0 ms
Avoids an excessive D	OOM size — 174 elements				^
A large DOM will increas	se memory usage, cause lor	nger <u>style cal</u>	culations, and	produce costly <u>layout reflows</u> .	<u>Learn more</u> .
Statistic	l	Element			Value
Total DOM Elements					174
Maximum DOM Depth	1			span.fa.fa- twitter.icon-md	11



#### 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. <u>Learn more</u>.

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. <u>Learn more</u>. (TBT)

URL	Total CPU Time	Script Evaluation	Script Parse
Unattributable	799 ms	2 ms	0 ms
/P4/ (mserr113.github.io)	352 ms	4 ms	1 ms
js/jquery-2.1.0.js (mserr113.github.io)	57 ms	32 ms	9 ms

Minimizes main-thread work — 1.3 s

Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this. Learn more (TBT)

Category	Time Spent
Other	868 ms
Style & Layout	161 ms
Rendering	122 ms
Script Evaluation	49 ms

	Category	Time Spent
	Parse HTML & CSS	39 ms
	Script Parsing & Compilation	18 ms
0	Minimize third-party usage	^
	Third-party code can significantly impact load performance. Limit the number of redundant third-party proload third-party code after your page has primarily finished loading. <u>Learn more</u> . <u>TBT</u>	oviders and try to
0	Lazy load third-party resources with facades	^
	Some third-party embeds can be lazy loaded. Consider replacing them with a facade until they are requi	red. <u>Learn more</u> .
	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 larges <u>Learn more</u> .	st contentful paint.
	div#bloc-1-hero.bloc.bgc-dark-slate-blue.bg-atlanta-20made-20sign.d-bloc.bg texture.texture-paper.b-parallax	-t-edge.bloc-bg-
	Uses passive listeners to improve scrolling performance	^
	Consider marking your touch and wheel event listeners as `passive` to improve your page's scroll perform	mance. <u>Learn more</u> .
	Avoids document.write()	^
	For users on slow connections, external scripts dynamically injected via `document.write()` can delay passeconds. <u>Learn more</u> .	ge load by tens of
0	Avoid non-composited animations	^
	Animations which are not composited can be janky and increase CLS. <u>Learn more</u> (CLS)	

A `<meta name="viewport">` not only optimizes your app for mobile screen sizes, but also prevents <u>a 300 millisecond delay</u> to user input. <u>Learn more</u>. (TBT)

Avoids unload event listeners

The `unload` event does not fire reliably and listening for it can prevent browser optimizations like the Back-Forward Cache.

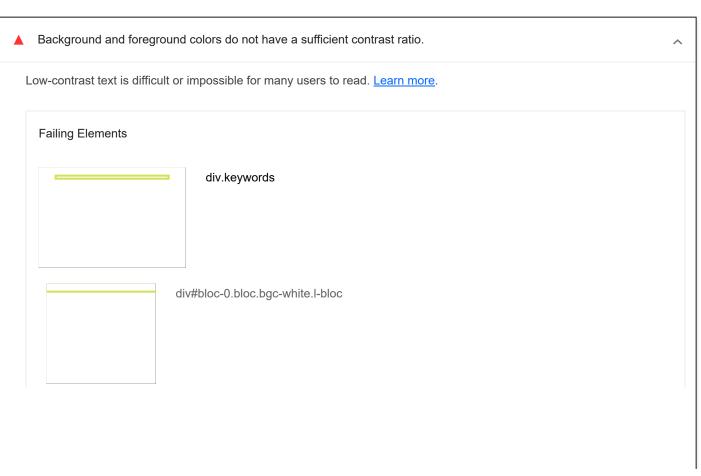
Use `pagehide` or `visibilitychange` events instead. <u>Learn more</u>



# Accessibility

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.

#### CONTRAST



Failing Elements	
	а
	div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc
	a
	div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc
	a
	div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc
	а
	div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc

Failing Elements	
а	
div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc	
a	
div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc	
а	
div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc	
а	
div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc	

Failing Elements	
	а
	div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc
	а
	div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc
	a 
	div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc
	а
	div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc

Failing Elements	
a	
div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc	
а	
div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc	
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div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc	
а	
divitibles 9 blee has dark slote blue d blee	
div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc	

Failing Elements
a
div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc
a
div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc
a
div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc
а
div#bloc-8.bloc.bgc-dark-slate-blue.d-bloc



These are opportunities to improve the legibility of your content.

#### INTERNATIONALIZATION AND LOCALIZATION



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

▲ Links do not have a discern	ible name	^
Link text (and alternate text fo navigation experience for scre	r images, when used as links) that is discernible, unique, and focusable improves the een reader users. <u>Learn more</u> .	
Failing Elements		
	a.social	
Those are apportunities to improve	the competing of the controls in your application. This may appear the experience for up	oro of

These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

### ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Hide

The page has a logical tab order	^
Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. <u>Learn more</u> .	
Interactive controls are keyboard focusable	^

Custom interactive controls are keyboard focusable and display a focus indicator. <u>Learn more</u> .	
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. <u>Learn more</u> .	
The user's focus is directed to new content added to the page	^
If new content, such as a dialog, is added to the page, the user's focus is directed to it. <u>Learn more</u> .	
User focus is not accidentally trapped in a region	^
A user can tab into and out of any control or region without accidentally trapping their focus. <u>Learn more</u> .	
Custom controls have associated labels	^
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more</u> .	
<ul> <li>Custom controls have ARIA roles</li> </ul>	^
Custom interactive controls have appropriate ARIA roles. <u>Learn more</u> .	
Visual order on the page follows DOM order	^
DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more</u> .	
Offscreen content is hidden from assistive technology	^
Offscreen content is hidden with display: none or aria-hidden=true. <u>Learn more</u> .	
HTML5 landmark elements are used to improve navigation	^
Landmark elements ( <main>, <nav>, etc.) are used to improve the keyboard navigation of the page for assistive technological statements.</nav></main>	ogy.

These items address areas which an automated testing tool cannot cover. Learn more in our guide on <u>conducting an accessibility</u> <u>review</u>.

PASSED AUDITS (10) Hide

[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 more. 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. [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. 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. 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. [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 more. <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. 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. List items () are contained within or parent elements

Screen readers require list items (` <li>`) to be contained within a parent `<ul>` or `<ol>` to be announced properly. <u>Learn more</u>.</ol></ul></li>	
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. <u>Learn more</u> .	

NOT APPLICABLE (31) Hide

O [accesskey] values are unique	^
Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. Learn more	<u>e</u> .
O [aria-*] attributes match their roles	^
Each ARIA `role` supports a specific subset of `aria-*` attributes. Mismatching these invalidates the `aria-*` attributes. <a href="Learn more"><u>Learn more</u></a> .	<u>n</u>
O button, link, and menuitem elements have accessible names	^
When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .	
O [aria-hidden="true"] elements do not contain focusable descendents	^
Focusable descendents within an `[aria-hidden="true"]` element prevent those interactive elements from being available to users of assistive technologies like screen readers. <u>Learn more</u> .	
ARIA input fields have accessible names	^
When an input field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .	)
ARIA meter elements have accessible names	^
When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .	
ARIA progressbar elements have accessible names	^

When a `progressbar` element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .
O [role]s have all required [aria-*] attributes
Some ARIA roles have required attributes that describe the state of the element to screen readers. <u>Learn more</u> .
O Elements with an ARIA [role] that require children to contain a specific [role] have all required children.
Some ARIA parent roles must contain specific child roles to perform their intended accessibility functions. <u>Learn more</u> .
O [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. <u>Learn more.</u>
O [role] values are valid
ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more.
O 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. <u>Learn more</u> .
O ARIA tooltip elements have accessible names
When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .
O ARIA treeitem elements have accessible names
When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .
O [aria-*] attributes have valid values
Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. <u>Learn more</u> .
O [aria-*] attributes are valid and not misspelled

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. <u>Learn more</u> .	
O <object> elements have alternate text</object>	^
Screen readers cannot translate non-text content. Adding alternate text to ` <object>` elements helps screen readers converged meaning to users. Learn more.</object>	'ey
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. <u>Learn more</u> .	
O Cells in a  element that use the [headers] attribute refer to table cells within the same table.	^
Screen readers have features to make navigating tables easier. Ensuring `` cells using the `[headers]` attribute only refer to other cells in the same table may improve the experience for screen reader users. Learn more.	
	^
Screen readers have features to make navigating tables easier. Ensuring table headers always refer to some set of cells may improve the experience for screen reader users. <u>Learn more</u> .	
O [lang] attributes have a valid value	^
Specifying a valid <u>BCP 47 language</u> on elements helps ensure that text is pronounced correctly by a screen reader. <u>Learn more</u> .	1
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. <u>Learn more</u> .	



Includes front-end JavaScript libraries with known security vulnerabilities — 9 vulnerabilities detected

Some third-party scripts may contain known security vulnerabilities that are easily identified and exploited by attackers. <u>Learn more</u>.

Library Version	Vulnerability Count	Highest Severity
Bootstrap@3.3.5	5	Medium
jQuery@2.1.0	4	Medium

Ensure CSP is effective against XSS attacks

A strong Content Security Policy (CSP) significantly reduces the risk of cross-site scripting (XSS) attacks. Learn more

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.

Name	Version
Bootstrap	3.3.5
jQuery	2.1.0

PASSED AUDITS (12)

Uses HTTPS

A

All sites should be protected with HTTPS, even ones that don't handle sensitive data. This includes avoiding <u>mixed content</u>, where some resources are loaded over HTTP despite the initial request being served over HTTPS. HTTPS prevents

	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 usaction instead. <u>Learn more</u> .	ser
	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 user gestures instead. <u>Learn more</u> .	t to
	Allows users to paste into password fields	^
P	Preventing password pasting undermines good security policy. <u>Learn more</u> .	
	Displays images with correct aspect ratio	^
Ir	mage display dimensions should match natural aspect ratio. <u>Learn more</u> .	
	Serves images with appropriate resolution	^
	mage natural dimensions should be proportional to the display size and the pixel ratio to maximize image clarity. <u>Learn</u> more.	
	Page has the HTML doctype	^
S	Specifying a doctype prevents the browser from switching to quirks-mode. <u>Learn more</u> .	
	Properly defines charset	^
	A character encoding declaration is required. It can be done with a ` <meta/> ` tag in the first 1024 bytes of the HTML or in Content-Type HTTP response header. <u>Learn more</u> .	the
	Avoids deprecated APIs	^
С	Deprecated APIs will eventually be removed from the browser. <u>Learn more</u> .	
	No browser errors logged to the console	^

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. <u>Learn more</u>.

Errors logged to the console indicate unresolved problems. They can come from network request failures and other browser concerns. <u>Learn more</u>

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. <u>Learn more</u>.

NOT APPLICABLE (1) Hide

Fonts with font-display: optional are preloaded

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



These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on <a href="Core Web Vitals">Core Web Vitals</a>. Learn more.

#### 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.

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

PASSED AUDITS (10)	піче
Has a <meta name="viewport"/> tag with width or initial-scale	^
A ` <meta name="viewport"/> ` not only optimizes your app for mobile screen sizes, but also prevents <u>a 300 millisecond</u> to user input. <u>Learn more</u> . (TBT)	<u>d delay</u>
Document has a <title> element&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine it page is relevant to their search. Learn more.&lt;/td&gt;&lt;td&gt;f a&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Document has a meta description&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Meta descriptions may be included in search results to concisely summarize page content. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Page has successful HTTP status code&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Pages with unsuccessful HTTP status codes may not be indexed properly. Learn more.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Links have descriptive text&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Descriptive link text helps search engines understand your content. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Links are crawlable&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Search engines may use `href` attributes on links to crawl websites. Ensure that the `href` attribute of anchor elemen to an appropriate destination, so more pages of the site can be discovered. Learn More&lt;/td&gt;&lt;td&gt;ts links&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Page isn't blocked from indexing&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Search engines are unable to include your pages in search results if they don't have permission to crawl them. Learn&lt;/td&gt;&lt;td&gt;more.&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>	

Image elements have [alt] attributes

Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. <u>Learn more</u>.

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.

<u>Learn more.</u>

Document avoids plugins	^
Search engines can't index plugin content, and many devices restrict plugins or don't support them. Learn more.	
NOT APPLICABLE (4)	Hide
o robots.txt is valid	^
If your robots.txt file is malformed, crawlers may not be able to understand how you want your website to be crawled or indexed. <u>Learn more</u> .	
O Document has a valid rel=canonical	^
Canonical links suggest which URL to show in search results. <u>Learn more</u> .	
O 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 have >60% of page text ≥12px. Learn more.	e to
Tap targets are sized appropriately	^
Interactive elements like buttons and links should be large enough (48x48px), and have enough space around them, to leasy enough to tap without overlapping onto other elements. Learn more.	ре



## **PWA**

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

#### INSTALLABLE

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

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

	Failure reason	
	Page has no manifest <link/> URL	
	PWA OPTIMIZED	
<b>^</b>	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, a to homescreen, and push notifications. <u>Learn more</u> .	add
<b>^</b>	Is not configured for a custom splash screen Failures: No manifest was fetched.	^
	A themed splash screen ensures a high-quality experience when users launch your app from their homescreens. <u>Learn</u> more.	
	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. <u>Learn more</u> .	
С	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 more.	
	Has a <meta name="viewport"/> tag with width or initial-scale	^
	A ` <meta name="viewport"/> ` not only optimizes your app for mobile screen sizes, but also prevents <u>a 300 millisecond de to user input</u> . <u>Learn more</u> . <u>TBT</u>	<u>:lay</u>
<b>^</b>	Does not provide a valid apple-touch-icon	^
	For ideal appearance on iOS when users add a progressive web app to the home screen, define an `apple-touch-icon`. It must point to a non-transparent 192px (or 180px) square PNG. <u>Learn More</u> .	t
<b>A</b>	Manifest doesn't have a maskable icon No manifest was fetched	^
	A maskable icon ensures that the image fills the entire shape without being letterboxed when installing the app on a device	ce.

ADDITIONAL ITEMS TO MANUALLY CHECK (3)	Hide
O Site works cross-browser	^
To reach the most number of users, sites should work across every major browser. <u>Learn more</u> .	
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 performance. <u>Learn more</u> .	n of
O 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 rearn more.	nedia.
These checks are required by the baseline <u>PWA Checklist</u> but are not automatically checked by Lighthouse. They do not af your score but it's important that you verify them manually.	fect

Captured at Aug 20, 2022, 9:42 AM EDT

Initial page load

Emulated Desktop with

Lighthouse 9.6.1
Custom throttling

Single page load

Using Chromium 104.0.0.0 with devtools

Generated by **Lighthouse** 9.6.1 | File an issue