Expand view













Performance

Accessibility

Best Practices

SEO

PWA



Performance

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

METRICS

0-49

50-89

90-100



0.9 s

First Contentful Paint

0 ms

Total Blocking Time

Speed Index

 $0.9 \, s$

Largest Contentful Paint

1.5 s

Cumulative Layout Shift

0.004

View Treemap



Show audits relevant to: All FCP LCP TBT CLS

DIAGNOSTICS



		URL	Potent savin
Amazon Web Service	es Other		100 r
	div.jumbo tron.jumb otron- fluid	/media/homepage-header-image.jpg (cshimvin-speedy-eats.s3.amazonaws.com)	100 r
Largest contentful pair	nt element — 1	I,490 ms	
nis is the largest content	ntful element pa	inted within the viewport. <u>Learn more about the Largest Contentf</u>	ul Paint elemer
Element			
	div.jumbo	tron.jumbotron-fluid	
		% of LCP	Timir
Phase			
Phase TTFB		13%	190 n
		13% 46%	190 n 680 n
TTFB			
TTFB Load delay		46%	680 n
TTFB Load delay Load time Render delay	Script — Poten	46% 34%	680 n 500 n

URL	Transfer size	Potential savings
Stripe Utility	166.5 KiB	130.1 KiB
/v3/ (js.stripe.com)	166.5 KiB	130.1 KiB
Google CDN Cdn	30.1 KiB	20.7 KiB
3.4.1/jquery.min.js (ajax.googleapis.com)	30.1 KiB	20.7 KiB

▲ Eliminate render-blocking resources — Potential savings of 630 ms

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

URL	Transfer size	Potential savings
JSDelivr CDN Cdn	25.6 KiB	320 ms
css/bootstrap.min.css (cdn.jsdelivr.net)	25.6 KiB	320 ms
Amazon Web Services Other	4.4 KiB	280 ms
css/base.css (cshimvin-speedy-eats.s3.amazonaws.com)	4.4 KiB	280 ms
FontAwesome CDN Cdn	4.3 KiB	240 ms
/c942d42d0a.js (kit.fontawesome.com)	4.3 KiB	240 ms
Google CDN Cdn	30.1 KiB	300 ms
3.4.1/jquery.min.js (ajax.googleapis.com)	30.1 KiB	300 ms
Stripe Utility	166.6 KiB	570 ms
/v3/ (js.stripe.com)	166.6 KiB	570 ms

▲ Serve images in next-gen formats — Potential savings of 53 KiB

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

	URL	Resource size	Potential savings
Amazon Web Services Other		211.9 KiB	53.1 KiB
div.jumbo tron.jumb otron- fluid	/media/homepage-header-image.jpg (cshimvin-speedy-eats.s3.amazonaws.com)	211.9 KiB	53.1 KiB

▲ Reduce unused CSS — Potential savings of 44 KiB

Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity. <u>Learn how to reduce unused CSS</u>. FCP (LCP)

✓ Show 3rd-party resources (1)

URL	Transfer size	Potential savings	
JSDelivr CDN Cdn	25.5 KiB	24.0 KiB	
css/bootstrap.min.css (cdn.jsdelivr.net)	25.5 KiB	24.0 KiB	
Unattributable	20.4 KiB	20.1 KiB	
<pre>/*! * Font Awesome Free 6.5.2 by @fontawesome - https://fontawesome.com * License - https://fonta</pre>	20.4 KiB	20.1 KiB	

Enable text compression — Potential savings of 8 KiB

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

✓ Show 3rd-party resources (1)

URL	Transfer size	Potential savings
Heroku Other First Party	7.8 KiB	5.6 KiB
https://cshimvin-speedy-eats-9486f6bced13.herokuapp.com	7.8 KiB	5.6 KiB
Amazon Web Services Other	3.9 KiB	2.4 KiB

URL	Transfer size	Potential savings	
css/base.css (cshimvin-speedy-eats.s3.amazonaws.com)	3.9 KiB	2.4 KiB	

Serve static assets with an efficient cache policy — 3 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
Amazon Web Services Other		212 KiB
/media/homepage-header-image.jpg (cshimvin-speedy-eats.s3.amazonaws.com)	None	212 KiB
Stripe Utility		182 KiB
/v3/ (js.stripe.com)	1m	167 KiB
/out-4.5.43.js (m.stripe.network)	5m	15 KiB

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

Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't necessary for modern browsers. For your bundled JavaScript, adopt a modern script deployment strategy using module/nomodule feature detection to reduce the amount of code delivered to modern browsers, while retaining support for legacy browsers. Learn how to use modern JavaScript (TBT)

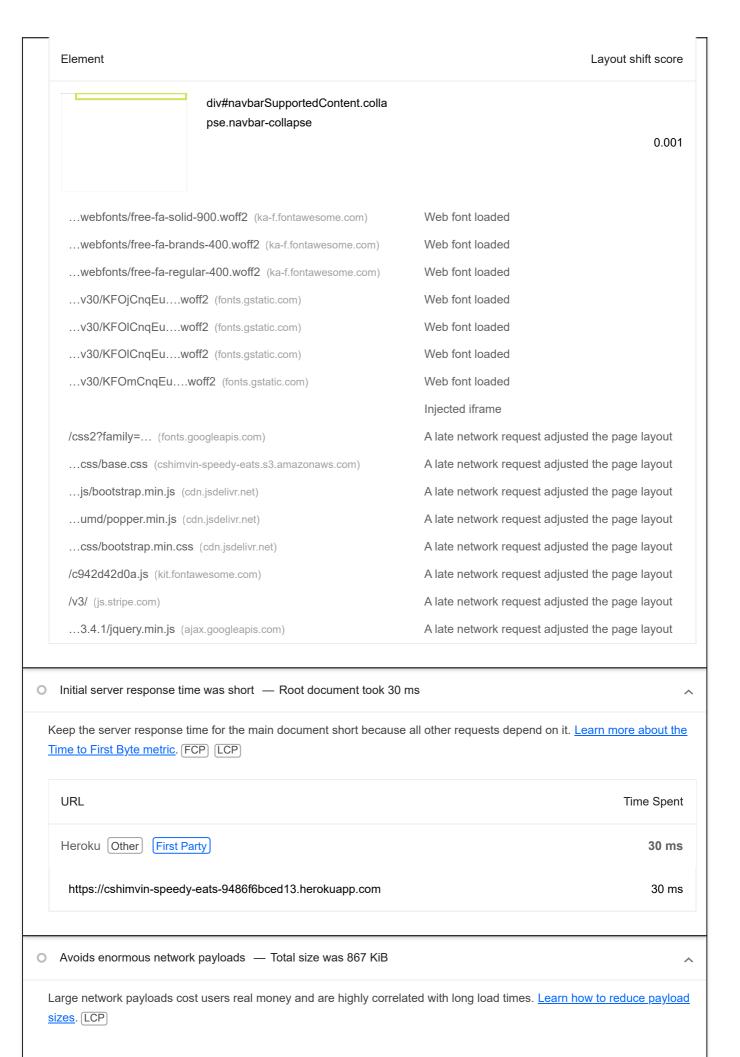
URL		Potential savings
JSDelivr CDN Cdn		0.1 KiB
umd/popper.min.js (cdn.jsdelivr.net)		0.1 KiB
popper.min.js:4	@babel/plugin-transform-classes	
Stripe Utility		0.0 KiB
/v3/ (js.stripe.com)		0.0 KiB
v3/:1	@babel/plugin-transform-classes	

^

O Avoid large layout shifts — 3 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
em	
	0.002
v30/KFOmCnqEuwoff2 (fonts.gstatic.com)	Web font loaded Injected iframe
/css2?family= (fonts.googleapis.com)	A late network request adjusted the page layout
css/base.css (cshimvin-speedy-eats.s3.amazonaws.com)	A late network request adjusted the page layout
js/bootstrap.min.js (cdn.jsdelivr.net)	A late network request adjusted the page layout
umd/popper.min.js (cdn.jsdelivr.net)	A late network request adjusted the page layout
css/bootstrap.min.css (cdn.jsdelivr.net)	A late network request adjusted the page layout
/c942d42d0a.js (kit.fontawesome.com)	A late network request adjusted the page layout
/v3/ (js.stripe.com)	A late network request adjusted the page layout
3.4.1/jquery.min.js (ajax.googleapis.com)	A late network request adjusted the page layout
	0.001
v30/KFOjCnqEuwoff2 (fonts.gstatic.com)	Web font loaded
v30/KFOICnqEuwoff2 (fonts.gstatic.com)	Web font loaded
v30/KFOICnqEuwoff2 (fonts.gstatic.com)	Web font loaded
v30/KFOmCnqEuwoff2 (fonts.gstatic.com)	Web font loaded
	Injected iframe
/css2?family= (fonts.googleapis.com)	A late network request adjusted the page layout
css/base.css (cshimvin-speedy-eats.s3.amazonaws.com)	A late network request adjusted the page layout
js/bootstrap.min.js (cdn.jsdelivr.net)	A late network request adjusted the page layout
umd/popper.min.js (cdn.jsdelivr.net)	A late network request adjusted the page layout
css/bootstrap.min.css (cdn.jsdelivr.net)	A late network request adjusted the page layout
/c942d42d0a.js (kit.fontawesome.com)	A late network request adjusted the page layout
/v3/ (js.stripe.com)	A late network request adjusted the page layout
3.4.1/jquery.min.js (ajax.googleapis.com)	A late network request adjusted the page layout



URL		Transfel size
FontAwesome CDN Cdn		317.9 KiB
webfonts/free-fa-solid-900.woff	2 (ka-f.fontawesome.com)	153.4 KiB
webfonts/free-fa-brands-400.we	off2 (ka-f.fontawesome.com)	115.8 KiB
webfonts/free-fa-regular-400.w	off2 (ka-f.fontawesome.com)	25.5 KiB
css/free.min.css?token=c942d4	42d0a (ka-f.fontawesome.com)	23.2 KiB
Amazon Web Services Other		212.3 KiB
/media/homepage-header-image.	jpg (cshimvin-speedy-eats.s3.amazonaws.com)	212.3 KiE
Stripe Utility		181.9 KiE
/v3/ (js.stripe.com)		166.6 KiE
/out-4.5.43.js (m.stripe.network)		15.2 KiE
JSDelivr CDN Cdn		42.4 KiB
css/bootstrap.min.css (cdn.jsde	elivr.net)	25.6 KiB
js/bootstrap.min.js (cdn.jsdelivr.	net)	16.8 KiB
Google CDN Cdn		30.1 KiB
3.4.1/jquery.min.js (ajax.googlea	apis.com)	30.1 KiE
Avoids an excessive DOM size —	106 elements	
A large DOM will increase memory us	sage, cause longer <u>style calculations</u> and produce	costly <u>layout reflows</u> . <u>Learn how to</u>
Statistic	Element	Value
Total DOM Elements		106
Maximum DOM Depth	td	9

Statistic	Element	Value
Maximum Child Elements	div.dropdown-menu	7

O Avoid chaining critical requests — 13 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: 389.902 ms

Initial Navigation

https://cshimvin-speedy-eats-9486f6bced13.herokuapp.com

- ...css/bootstrap.min.css (cdn.jsdelivr.net) 82.117 ms, 25.59 KiB
- ...css/base.css (cshimvin-speedy-eats.s3.amazonaws.com)

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

- ...v30/KFOmCnqEu....woff2 (fonts.gstatic.com) 18.652 ms, 10.83 KiB
- ...v30/KFOjCnqEu....woff2 (fonts.gstatic.com) 25.126 ms, 12.58 KiB
- ...v30/KFOlCnqEu....woff2 (fonts.gstatic.com) 22.833 ms, 10.96 KiB
- ...v30/KFOlCnqEu....woff2 (fonts.gstatic.com) 20.767 ms, 10.88 KiB
- ...webfonts/free-fa-solid-900.woff2 (ka-f.fontawesome.com) 67.784 ms, 153.44 KiB
- ...webfonts/free-fa-regular-400.woff2 (ka-f.fontawesome.com) 34.194 ms, 25.50 KiB
- ...webfonts/free-fa-brands-400.woff2 (ka-f.fontawesome.com) 38.423 ms, 115.79 KiB

/c942d42d0a.js (kit.fontawesome.com) - 39 ms, 4.33 KiB

- ...3.4.1/jquery.min.js (ajax.googleapis.com) 28.776 ms, 30.13 KiB
- $...umd/popper.min.js \ \, (\texttt{cdn.jsdelivr.net}) \ \textbf{-100.385} \ \, \textbf{ms, 7.70} \ \, \textbf{KiB}$
- ...js/bootstrap.min.js (cdn.jsdelivr.net) 101.841 ms, 16.83 KiB

/v3/ (js.stripe.com) - 28.491 ms, 166.62 KiB

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
Heroku Other First Party	83 ms	1 ms	0 ms
https://cshimvin-speedy-eats-9486f6bced13.herokuapp.com	83 ms	1 ms	0 ms

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

Category	Time Spent
Other	61 ms
Style & Layout	60 ms
Script Evaluation	46 ms
Script Parsing & Compilation	10 ms
Parse HTML & CSS	6 ms
Rendering	5 ms

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

Third-party code can significantly impact load performance. Limit the number of redundant third-party providers and try to load third-party code after your page has primarily finished loading. <u>Learn how to minimise third-party impact</u>. <u>TBT</u>

Third-party	Transfer size	Main-thread blocking time
FontAwesome CDN Cdn	328 KiB	0 ms
webfonts/free-fa-solid-900.woff2 (ka-f.fontawesome.com)	153 KiB	0 ms
webfonts/free-fa-brands-400.woff2 (ka-f.fontawesome.com)	116 KiB	0 ms
webfonts/free-fa-regular-400.woff2 (ka-f.fontawesome.com)	26 KiB	0 ms
css/free.min.css?token=c942d42d0a (ka-f.fontawesome.com)	23 KiB	0 ms
css/free-v4-shims.min.css?token=c942d42d0a (ka-f.fontawesome.com)	5 KiB	0 ms
/c942d42d0a.js (kit.fontawesome.com)	4 KiB	0 ms
css/free-v4-font-face.min.css?token=c942d42d0a (ka-f.fontawesome.com)	1 KiB	0 ms
css/free-v5-font-face.min.css?token=c942d42d0a (ka-f.fontawesome.com)	1 KiB	0 ms
Amazon Web Services Other	218 KiB	0 ms
/media/homepage-header-image.jpg (cshimvin-speedy-eats.s3.amazonaws.com)	212 KiB	0 ms
css/base.css (cshimvin-speedy-eats.s3.amazonaws.com)	4 KiB	0 ms

Third-party	Transfer size	Main-thread blocki tin
/static/favicon-32x32.png (cshimvin-speedy-eats.s3.amazonaws.com)	1 KiB	0 r
Stripe Utility	185 KiB	0 n
/v3/ (js.stripe.com)	167 KiB	0 r
/out-4.5.43.js (m.stripe.network)	15 KiB	0 r
/inner.html (m.stripe.network)	1 KiB	0 n
/v3/m-outer-3437aadhtml (js.stripe.com)	1 KiB	0 n
/6 (m.stripe.com)	1 KiB	0 n
js/m-outer-15a2b40js (js.stripe.com)	0 KiB	0 n
JSDelivr CDN Cdn	50 KiB	0 n
css/bootstrap.min.css (cdn.jsdelivr.net)	26 KiB	0 r
js/bootstrap.min.js (cdn.jsdelivr.net)	17 KiB	0 r
umd/popper.min.js (cdn.jsdelivr.net)	8 KiB	0 r
Google Fonts Cdn	47 KiB	0 n
v30/KFOjCnqEuwoff2 (fonts.gstatic.com)	13 KiB	0 r
v30/KFOICnqEuwoff2 (fonts.gstatic.com)	11 KiB	0 r
v30/KFOICnqEuwoff2 (fonts.gstatic.com)	11 KiB	0 r
v30/KFOmCnqEuwoff2 (fonts.gstatic.com)	11 KiB	0 r
/css2?family= (fonts.googleapis.com)	1 KiB	0 r
Google CDN Cdn	30 KiB	0 n
3.4.1/jquery.min.js (ajax.googleapis.com)	30 KiB	1 0

 $\label{thm:model} \mbox{More information about the performance of your application. These numbers don't $$\underline{\mbox{directly affect}}$$ the performance score.$

PASSED AUDITS (22)

Properly size images	^
Serve images that are appropriately-sized to save mobile data and improve load time. Learn how to size images.	
Defer off-screen 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	^

Minifying CSS files can reduce network payload sizes. Learn how to minify CSS. FCP LCP	
Minify JavaScript	^
Minifying JavaScript files can reduce payload sizes and script parse time. Learn how to minify JavaScript. FCP LCP	
Efficiently encode images	^
Optimised images load faster and consume less mobile data. <u>Learn how to efficiently encode images</u> .	
Pre-connect to required origins	^
Consider adding preconnect or dns-prefetch resource hints to establish early connections to important third-party origins. FCP LCP	gins.
Avoid multiple page redirects	^
Redirects introduce additional delays before the page can be loaded. <u>Learn how to avoid page redirects</u> . FCP LCP	
O Pre-load key requests	^
Consider using link rel=preload> to prioritise fetching resources that are currently requested later in page load. Leanness to preload key requests. FCP LCP	arn
Use HTTP/2	^
HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. <u>Learn more about HTTP/2</u> .	
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	
User Timing marks and measures	^
Consider instrumenting your app with the User Timing API to measure your app's real-world performance during key use experiences. <u>Learn more about User Timing marks</u> .	er
All text remains visible during webfont loads	^

Leverage the font-display CSS feature to ensure that text is user-visible while webfonts are loading. Learn more about font-display. FCP LCP
Lazy load third-party resources with facades
Some third-party embeds can be lazy loaded. Consider replacing them with a facade until they are required. Learn how to defer third-parties with a facade. (TBT)
Largest contentful paint image was not lazily loaded
Above-the-fold images that are lazily loaded render later in the page lifecycle, which can delay the Largest Contentful Paint. <u>Learn more about optimal lazy loading.</u> <u>LCP</u>
Element
div.jumbotron.jumbotron-fluid
Uses passive listeners to improve scrolling performance
Consider marking your touch and wheel event listeners as passive to improve your page's scroll performance. <u>Learn more about adopting passive event listeners</u> .
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().
O Avoid long main-thread tasks
Lists the longest tasks on the main thread – useful for identifying worst contributors to input delay. <u>Learn how to avoid long</u> <u>main-thread tasks</u> (TBT)
O Avoid non-composited animations
Animations that are not composited can be poor, slow and increase CLS. <u>Learn how to avoid non-composited animations</u> CLS
Image elements have explicit width and height
Set an explicit width and height on image elements to reduce layout shifts and improve CLS. <u>Learn how to set image</u> <u>dimensions</u> <u>CLS</u>

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

A <meta name="viewport"> not only optimises 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

Page didn't prevent back-forward cache restoration

Amany navigations are performed by going back to a previous page, or forwards again. The back-forward cache (bfcache) can speed up these return navigations. Learn more about the bfcache



Accessibility

These checks highlight opportunities to improve the accessibility of your web app. Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so manual testing is also encouraged.

CONTRAST

▲ Background and foreground colours do not have a sufficient contrast ratio.	^
Low-contrast text is difficult or impossible for many users to read. Learn how to provide sufficient colour contrast.	
Failing elements	
a.nav-link	
nav.navbar.navbar-expand-lg.navbar-dark.brand-color	
a#navbarDropdown1.nav-link.dropdown-toggle	
nav.navbar.navbar-expand-lg.navbar-dark.brand-color	

	a#navbarDropdown2.nav-link.dropdown-toggle	
nav.navbar.r	navbar-expand-lg.navbar-dark.brand-color	
	a.nav-link	
nav.navbar.r	navbar-expand-lg.navbar-dark.brand-color	

These are opportunities to improve the legibility of your content.

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. O 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. O 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. O Visual order on the page follows DOM order DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more about DOM and visual</u> ordering. O 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 tra	<u>ps</u> .
O 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 how to direct focus to new content</u> .	
O 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 technolo Learn more about landmark elements.</nav></main>	gy.
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.	
O Custom controls have associated labels	^
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more about custom controls and labels</u> .	
O Custom controls have ARIA roles	^
Custom interactive controls have appropriate ARIA roles. <u>Learn how to add roles to custom controls</u> .	
These items address areas which an automated testing tool cannot cover. Learn more in our guide on <u>conducting an accessib</u> eview.	<u>ility</u>
PASSED AUDITS (21)	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. [role]s have all required [aria-*] attributes Some ARIA roles have required attributes that describe the state of the element to screen readers. <u>Learn more about roles</u>

and required attributes.

[aria-*] attributes have valid values Assistive technologies, such as 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, such as 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-hidden="true"] elements do not contain focusable descendents 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. [role] values are valid ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more about valid ARIA 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.

Form elements have associated labels Labels ensure that form controls are announced properly by assistive technologies, such as screen readers. Learn more about form element labels. Links have a discernible name Link text (and alternative 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. 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 that the scale 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. 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. Values assigned to role="" are valid ARIA roles. ARIA roles enable assistive technologies to know the role of each element on the web page. If the role values are misspelled, not existing ARIA role values or abstract roles, then the purpose of the element will not be communicated to users of assistive technologies. Learn more about ARIA roles. Tables have different content in the summary attribute and <caption>. The summary attribute should describe the table structure, while <caption> should have the onscreen title. Accurate table mark-up helps users of screen readers. Learn more about summary and caption. Tables use <caption> instead of cells with the [colspan] attribute to indicate a caption. Screen readers have features to make navigating tables easier. Ensuring that tables use the actual caption element instead of cells with the [colspan] attribute may improve the experience for screen reader users. Learn more about captions.

NOT APPLICABLE (38) 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. Elements with role="dialog" or role="alertdialog" have accessible names. ARIA dialogue elements without accessible names may prevent screen reader 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. 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. Elements with the role=text attribute do not have focusable descendents.

Adding role=text around a text node split by markup enables VoiceOver to treat it as one phrase, but the element's focusable descendents will not be announced. Learn more about the role=text attribute.
ARIA toggle fields have accessible names
When a toggle field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more about toggle fields</u> .
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 labelling 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.
When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. Learn how to structure definition lists correctly.
O Definition list items are wrapped in <dl> elements</dl>
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.</dl></dd></dt>
O [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. <u>Learn how to fix duplicate ids</u> .
O ARIA IDs are unique
The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. <u>Learn</u> how to fix duplicate ARIA IDs.
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. <u>Learn how to use form labels</u> .
<frame/> Or <iframe> elements have a title</iframe>
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.</html>
If the webpage does not specify a consistent language, then the screen reader might not announce the page's text correctly. <u>Learn more about the lang attribute</u> .
Image elements have [alt] attributes
Informative elements should aim for short, descriptive alternative 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.
O Input buttons have discernible text.
Adding discernable and accessible text to input buttons may help screen reader users to understand the purpose of the input button. Learn more about input buttons.
<pre></pre>
When an image is being used as an <input/> button, providing alternative text can help screen reader users understand the purpose of the button. Learn about input image alt text.
Links are distinguishable without relying on colour.
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.
The document does not use <meta http-equiv="refresh"/>
Users do not expect a page to refresh automatically and doing so will move focus back to the top of the page. This may create a frustrating or confusing experience. Learn more about the refresh meta tag.
O <object> elements have alternative text</object>

Screen readers cannot translate non-text content. Adding alternative text to <object> elements helps screen readers convey meaning to users. Learn more about alt text for object elements.</object>	
Select elements have associated label elements.	^
Form elements without effective labels can create frustrating experiences for screen reader users. <u>Learn more about the select element</u> .	
O Skip links are focusable.	^
Including a skip link can help users skip to the main content to save time. Learn more about skip links.	
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 about the tabindex attribute</u> .	
elements and elements with [role="columnheader"/"rowheader"] have data cells they describe.	^
Screen readers have features to make navigating tables easier. Ensuring that table headers always refer to some set of cells may improve the experience for screen reader users. <u>Learn more about table headers</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 how to use the lang attribute</u> .	Ī
	^
When a video provides a caption it is easier for deaf and hearing-impaired users to access its information. <u>Learn more about the captions.</u>	<u>out</u>
All heading elements contain content.	^
A heading with no content or inaccessible text prevents screen reader users from accessing information on the page's structure. <u>Learn more about headings</u> .	
O Identical links have the same purpose.	^
Links with the same destination should have the same description, to help users understand the link's purpose and decide whether to follow it. Learn more about identical links.	;
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.	



Best Practices

TRUST AND SAFETY

O 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

O Detected JavaScript libraries

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

Name

Version

Bootstrap

4.4.1

jQuery

3.4.1

PASSED AUDITS (14) Hide

Uses HTTPS
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 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 about HTTPS</u> .
Avoids deprecated APIs
Deprecated APIs will eventually be removed from the browser. <u>Learn more about deprecated APIs</u> .
Avoids third-party cookies
Support for third-party cookies will be removed in a future version of Chrome. <u>Learn more about phasing out third-party cookies</u> .
Allows users to paste into input fields
Preventing input pasting is bad practice for the UX and weakens security by blocking password managers. <u>Learn more about user-friendly input fields</u> .
Avoids requesting the geolocation permission on page load
Users are mistrustful of or confused by sites that request their location without context. Consider tying the request to a user action instead. <u>Learn more about the geolocation permission</u> .
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. <u>Learn more about responsibly getting permission for notifications</u> .
Displays images with correct aspect ratio
Image display dimensions should match natural aspect ratio. <u>Learn more about image aspect ratio</u> .
Serves images with appropriate resolution
Image natural dimensions should be proportional to the display size and the pixel ratio to maximise image clarity. <u>Learn how to provide responsive images</u> .
Page has the HTML doctype
Specifying a DOCTYPE prevents the browser from switching to quirks mode. <u>Learn more about the doctype declaration</u> .

Properly defines charset A character encoding declaration is required. It can be done with a <meta> tag in the first 1,024 bytes of the HTML or in the Content-Type HTTP response header. Learn more about declaring the character encoding. Avoids unload event listeners The unload event does not fire reliably and listening for it can prevent browser optimisations like the back-forward cache. Use pagehide or visibilitychange events instead. Learn more about unload event listeners No browser errors logged to the console Errors logged to the console indicate unresolved problems. They can come from network request failures and other browser concerns. Learn more about this errors in console diagnostic audit No issues in the Issues panel in Chrome DevTools Issues logged to the Issues panel in Chrome DevTools indicate unresolved problems. They can come from network request failures, insufficient security controls and other browser concerns. Open up the Issues panel in Chrome DevTools for more details on each issue. Page has valid source maps ^ Source maps translate minified code to the original source code. This helps developers to 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 JSDelivr CDN Cdn ...umd/popper.min.js (cdn.jsdelivr.net) ...umd/popper.min.js.map (cdn.jsdelivr.net)

NOT APPLICABLE (1) Hide

...js/bootstrap.min.js.map (cdn.jsdelivr.net)

O Fonts with font-display: optional are preloaded

...js/bootstrap.min.js (cdn.jsdelivr.net)

Preload optional fonts so that first-time visitors may use them. <u>Learn more about preloading fonts</u>



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

CONTENT BEST PRACTICES

Structured data is valid

data.

▲ Document does not have a meta description

Meta descriptions may be included in search results to concisely summarise page content. Learn more about the meta description.

Format your HTML in a way that enables crawlers to better understand your app's content.

ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Hide

Run the <u>Structured Data Testing Tool</u> and the <u>Structured Data Linter</u> to validate structured data. <u>Learn more about structured</u>

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

PASSED AUDITS (8)

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

A <meta name="viewport"> not only optimises 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.

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. <u>Learn how to make links more accessible</u> .	
Links are crawlable	^
Search engines may use href attributes on links to crawl websites. Ensure that the href attribute of anchor elements link to an appropriate destination so that more pages of the site can be discovered. Learn how to make links crawlable	KS
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. <u>Learn mor about crawler directives</u> .	<u>re</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 about hreflang.</u>	
Document avoids plugins	^
Search engines can't index plug-in content and many devices restrict plug-ins or don't support them. <u>Learn more about</u> <u>avoiding plugins</u> .	
NOT APPLICABLE (5)	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. Learn more about robots.txt.	
Image elements have [alt] attributes	^
Informative elements should aim for short, descriptive alternative text. Decorative elements can be ignored with an empty attribute. Learn more about the alt attribute.	alt
O Document has a valid rel=canonical	^
Canonical links suggest which URL to show in search results. Learn more about canonical links.	
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 to	

Tap targets are sized appropriately

Interactive elements like buttons and links should be large enough (48 x 48 px) or have enough space around them to be easy enough to tap without overlapping onto other elements. <u>Learn more about tap targets</u>.

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



PWA

These checks validate the aspects of a progressive web app. <u>Learn what</u> <u>makes a good progressive web app</u>.

INSTALLABLE

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

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

Reason for failure

Page has no manifest <link> URL

PWA OPTIMISED

▲ 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 home screens. Learn more about splash screens.

Does not set a theme colour 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 optimised 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 optimises your app for mobile screen sizes, but also prevents <u>a 300 millisecond delay</u> to user input. <u>Learn more about using the viewport meta tag</u> . TBT	
▲ Manifest doesn't have a maskable icon No manifest was fetched	
A maskable icon ensures that the image fills the entire shape without being letterboxed when installing the app on a device. <u>Learn about maskable manifest icons</u> .	

ADDITIONAL ITEMS TO MANUALLY CHECK (3)

Site works cross-browser

Hide

To reach the most users, sites should work across every major browser. <u>Learn about cross-browser compatibility.</u>

O 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. <u>Learn more about page transitions</u>.

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. <u>Learn more about providing deep links</u>.

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

Captured at 20 Apr 2024, 15:55

BST Initial page load Emulated desktop with Lighthouse 11.5.0

Custom throttling

Single-page session

Using Chromium 123.0.0.0 with

devtools

Generated by Lighthouse 11.5.0 | File an issue