

https://sonic-explorers-e821805686e9.herokuapp.com/map



100



100



•

Performance

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>

0-49

50-89

90-100



METRICS Expand view

First Contentful Paint

 $0.7 \, s$

▲ Largest Contentful Paint

2.5 s

Total Blocking Time

0 ms

Cumulative Layout Shift

0

▲ Speed Index

2.6 s

View Treemap



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Show audits relevant to: All $\underline{\mathsf{FCP}}$ $\underline{\mathsf{LCP}}$ $\underline{\mathsf{TBT}}$ $\underline{\mathsf{CLS}}$

OPPORTUNITIES

Opportunity Estimated Savings

Resources are blocking the first paint of your page. Consider delivering critical JS/CJS/styles. Learn how to eliminate render-blocking resources. FCP LCP	CSS inline and deferring all	non-critica
	Show 3rd-party	/ resources
URL	Transfer Size	Potenti Savinç
JSDelivr CDN Cdn	32.8 KiB	330 m
css/bootstrap.min.css (cdn.jsdelivr.net)	32.8 KiB	330 m
Unpkg Cdn	46.8 KiB	360 m
dist/leaflet.css (unpkg.com)	3.6 KiB	230 m
dist/leaflet.js (unpkg.com)	43.1 KiB	120 m
Heroku Other 1st Party	3.8 KiB	90 m
css/main.ecc68b0c.css (sonic-explorers-e821805686e9.herokuapp.com)	3.8 KiB	90 m
FontAwesome CDN Cdn	4.2 KiB	360 m
/1abfbda195.js (kit.fontawesome.com)	4.2 KiB	360 m

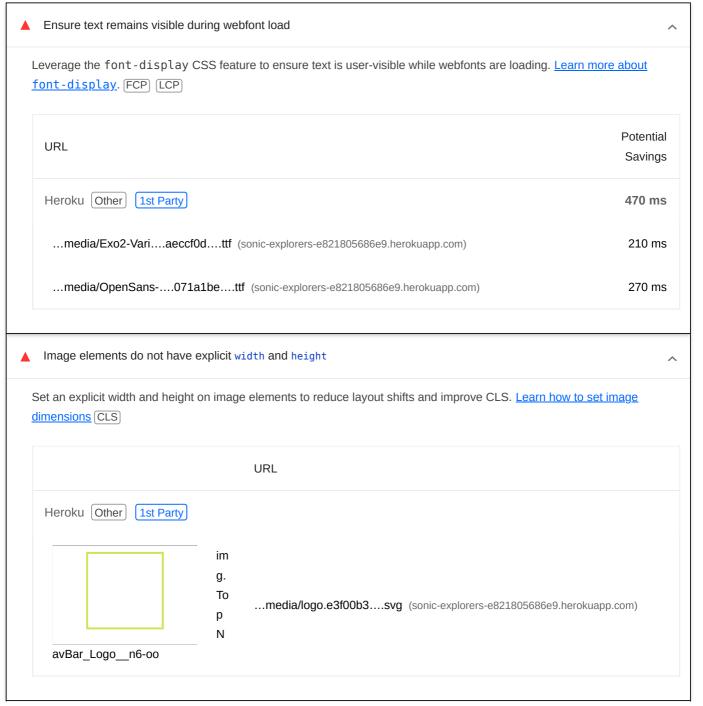
If the LCP element is dynamically added to the page, you should preload the image in order to improve LCP. <u>Learn more</u> about preloading LCP elements. LCP

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

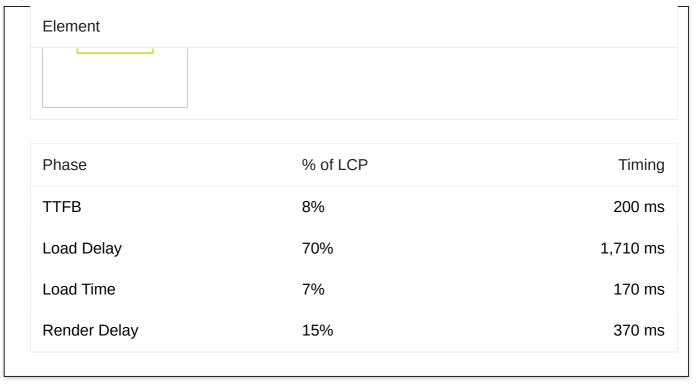
DIAGNOSTICS



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Serve static assets with an efficient cache policy — 5 resources found A long cache lifetime can speed up repeat visits to your page. Learn more about efficient cache policies. Cache Transfer URL TTL Size Heroku Other 1st Party 704 KiB ...media/OpenSans-....071a1be....ttf (sonic-explorers-e821805686e9.herokuapp.com) None 338 KiB ...js/main.c74bf159.js (sonic-explorers-e821805686e9.herokuapp.com) None 175 KiB ...media/Exo2-Vari....aeccf0d....ttf (sonic-explorers-e821805686e9.herokuapp.com) None 131 KiB 56 KiB ...media/logo.e3f00b3....svg (sonic-explorers-e821805686e9.herokuapp.com) None 4 KiB ...css/main.ecc68b0c.css (sonic-explorers-e821805686e9.herokuapp.com) None Avoid chaining critical requests — 6 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: 703.114 ms Initial Navigation /map (sonic-explorers-e821805686e9.herokuapp.com) ...css/bootstrap.min.css (cdn.jsdelivr.net) - 54.658 ms, 32.76 KiB ...dist/leaflet.css (unpkg.com) - 37.8 ms, 3.61 KiB ...css/main.ecc68b0c.css (sonic-explorers-e821805686e9.herokuapp.com) ...media/Exo2-Vari....aeccf0d...ttf (sonic-explorers-e821805686e9.herokuapp.com) - 205.402 ms, 130.85 KiB ...media/OpenSans-....071a1be....ttf (sonic-explorers-e821805686e9.herokuapp.com) - 265.037 ms, 338.32 KiB /1abfbda195.js (kit.fontawesome.com) - 168.743 ms, 4.22 KiB ...dist/leaflet.js (unpkg.com) - 57.866 ms, 43.14 KiB Largest Contentful Paint element — 2,460 ms This is the largest contentful element painted within the viewport. Learn more about the Largest Contentful Paint element LCP Element img.leaflet-tile.leaflet-tile-loaded

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

PASSED AUDITS (32)

Properly size images	^
Serve images that are appropriately-sized to save cellular data and improve load time. Learn how to size images.	
Defer offscreen images	^
Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive. <u>Learn how to defer offscreen images</u> .	
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	
Reduce unused CSS — Potential savings of 51 KiB	^
Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity. Learn how to reduce unused CSS. FCP LCP	οу
✓ Show 3rd-party resources	s (1)

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URL	Transfer Size	Potential Savings
JSDelivr CDN Cdn	32.8 KiB	31.2 KiB
css/bootstrap.min.css (cdn.jsdelivr.net)	32.8 KiB	31.2 KiB
Unattributable	20.3 KiB	20.1 KiB
<pre>/*! * Font Awesome Free 6.4.2 by @fontawesome - https://fontawesome.com * License - https://fonta</pre>	20.3 KiB	20.1 KiB

Reduce unused JavaScript $\,-\,$ Potential savings of 140 KiB

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

✓ Show 3rd-party resources (1)

URL	Transfer Size	Potential Savings
Heroku Other 1st Party	174.8 KiB	104.5 KiB
js/main.c74bf159.js (sonic-explorers-e821805686e9.herokuapp.com)	174.8 KiB	104.5 KiB
/node_modules/react-dom/cjs/react-dom.production.min.js	38.0 KiB	12.3 KiB
/node_modules/leaflet/src/map/Map.js	6.2 KiB	3.9 KiB
/node_modules/wavesurfer.js/dist/renderer.js	3.0 KiB	2.8 KiB
<pre>/node_modules/react-infinite-scroll- component/node_modules/tslib/tslib.es6.js</pre>	2.1 KiB	1.9 KiB
/node_modules/wavesurfer.js/dist/wavesurfer.js	2.0 KiB	1.8 KiB
Unpkg Cdn	43.1 KiB	36.0 KiB
dist/leaflet.js (unpkg.com)	43.1 KiB	36.0 KiB
map/Map.js	6.1 KiB	5.5 KiB
layer/tile/GridLayer.js	3.0 KiB	2.7 KiB
layer/vector/Canvas.js	1.7 KiB	1.6 KiB
control/Control.Layers.js	1.6 KiB	1.4 KiB
layer/Tooltip.js	1.4 KiB	1.2 KiB

Efficiently encode images

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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 — Potential savings of 11 KiB Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. Learn more about text compression. FCP LCP Transfer Potential URL Savings Size Heroku Other 15.4 KiB 11.0 KiB 1st Party /sounds/?search= (sonic-explorers-api-4c187c4cd99f.herokuapp.com) 7.9 KiB 5.7 KiB 5.0 KiB 3.5 KiB /sounds/?page=2 (sonic-explorers-api-4c187c4cd99f.herokuapp.com) /profiles/?ordering=-followers count (sonic-explorers-api-4c187c4cd99f.herokuapp.com) 2.4 KiB 1.8 KiB Preconnect to required origins Consider adding preconnect or dns-prefetch resource hints to establish early connections to important third-party origins. Learn how to preconnect to required origins. [FCP] [LCP] Initial server response time was short — Root document took 40 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 Heroku Other 1st Party 40 ms 40 ms /map (sonic-explorers-e821805686e9.herokuapp.com) Avoid multiple page redirects Redirects introduce additional delays before the page can be loaded. Learn how to avoid page redirects. FCP [LCP]

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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 HTTP/2 — 7 requests not served via HTTP/2 HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. Learn more about HTTP/2. URL Protocol Heroku Other 1st Party /map (sonic-explorers-e821805686e9.herokuapp.com) http/1.1 ...js/main.c74bf159.js (sonic-explorers-e821805686e9.herokuapp.com) http/1.1 http/1.1 ...css/main.ecc68b0c.css (sonic-explorers-e821805686e9.herokuapp.com) ...media/Exo2-Vari....aeccf0d...ttf (sonic-explorers-e821805686e9.herokuapp.com) http/1.1 ...media/OpenSans-....071a1be....ttf (sonic-explorers-e821805686e9.herokuapp.com) http/1.1 ...media/logo.e3f00b3....svg (sonic-explorers-e821805686e9.herokuapp.com) http/1.1 /favicon.png (sonic-explorers-e821805686e9.herokuapp.com) http/1.1 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 — 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 shipped to modern browsers, while retaining support for legacy browsers. Learn how to use modern JavaScript TBT

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URL		Potential Savings
Heroku Other 1st Party		0.0 KiB
js/main.c74bf159.js (sonic-explorers- e821805686e9.herokuapp.com)		0.0 KiB
<u>main.c74bf159.js:2</u>	@babel/plugin-transform- classes	

Avoids enormous network payloads — Total size was 1,059 KiB Large network payloads cost users real money and are highly correlated with long load times. Learn how to reduce payload sizes. [LCP] ✓ Show 3rd-party resources (5) Transfer URL Size Heroku Other 1st Party 709.1 KiB ...media/OpenSans-....071a1be....ttf (sonic-explorers-e821805686e9.herokuapp.com) 338.3 KiB ...js/main.c74bf159.js (sonic-explorers-e821805686e9.herokuapp.com) 174.8 KiB ...media/Exo2-Vari....aeccf0d....ttf (sonic-explorers-e821805686e9.herokuapp.com) 130.8 KiB ...media/logo.e3f00b3....svg (sonic-explorers-e821805686e9.herokuapp.com) 56.2 KiB 8.8 KiB /sounds/?search= (sonic-explorers-api-4c187c4cd99f.herokuapp.com) FontAwesome CDN Cdn 170.4 KiB 147.1 KiB ...webfonts/free-fa-solid-900.woff2 (ka-f.fontawesome.com) ...css/free.min.css?token=1abfbda195 (ka-f.fontawesome.com) 23.3 KiB Unpkg Cdn 43.1 KiB ...dist/leaflet.js (unpkg.com) 43.1 KiB 32.8 KiB JSDelivr CDN Cdn ...css/bootstrap.min.css (cdn.jsdelivr.net) 32.8 KiB 11.4 KiB openstreetmap.org

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Transfer URL Size 11.4 KiB ...2/1.png (a.tile.openstreetmap.org) Avoids an excessive DOM size — 116 elements A large DOM will increase memory usage, cause longer style calculations, and produce costly layout reflows. Learn how to avoid an excessive DOM size. TBT Statistic Element Value **Total DOM Elements** 116 path Maximum DOM Depth 11 Maximum Child Elements div.leaflet-tile-container.leaflet-zoom-animated 16 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 — 0.1 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 Total CPU Script Script URL Time Evaluation Parse Heroku Other 1st Party 266 ms 120 ms 9 ms ...js/main.c74bf159.js (sonic-explorers-183 ms 118 ms 8 ms e821805686e9.herokuapp.com) 84 ms 2 ms 1 ms /map (sonic-explorers-e821805686e9.herokuapp.com) Unattributable 134 ms 6 ms 0 ms

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URL	Total CPU Time	Script Evaluation	Script Parse
Unattributable	134 ms	6 ms	0 ms

Minimizes main-thread work — 0.4 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	197 ms
Script Evaluation	157 ms
Style & Layout	53 ms
Rendering	15 ms
Script Parsing & Compilation	15 ms
Parse HTML & CSS	8 ms
Garbage Collection	2 ms

Minimize third-party usage $\,$ — Third-party code blocked the main thread for 0 ms

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

Third-Party	Transfer Size	Main-Thread Blocking Time
FontAwesome CDN Cdn	181 KiB	0 ms
webfonts/free-fa-solid-900.woff2 (ka-f.fontawesome.com)	147 KiB	0 ms
css/free.min.css?token=1abfbda195 (ka-f.fontawesome.com)	23 KiB	0 ms
Other resources	10 KiB	0 ms
openstreetmap.org	68 KiB	0 ms
2/1.png (a.tile.openstreetmap.org)	11 KiB	0 ms
1/1.png (c.tile.openstreetmap.org)	8 KiB	0 ms
1/0.png (b.tile.openstreetmap.org)	7 KiB	0 ms

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Main-Thread Blocking Time
0 ms
they are required. <u>Learn how to</u>
,
CLS
,
e's scroll performance. <u>Learn mor</u>
age

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of seconds. Learn how to avoid document.write().

For users on slow connections, external scripts dynamically injected via document.write() can delay page load by tens

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

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.

ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Hide

Interactive controls are keyboard focusable
 Custom interactive controls are keyboard focusable and display a focus indicator. Learn how to make custom controls focusable.
 Interactive elements indicate their purpose and state
 Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. Learn how to decorate interactive elements with affordance hints.
 The page has a logical tab order

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Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. <u>Learn more about logical tab ordering</u> .	
Visual order on the page follows DOM order	^
DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more about DOM and visual ordering.</u>	
User focus is not accidentally trapped in a region	^
A user can tab into and out of any control or region without accidentally trapping their focus. Learn how to avoid focus tra	<u>ps</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 how to direct focus to new content</u> .	
HTML5 landmark elements are used to improve navigation	^
Landmark elements (<main>, <nav>, etc.) are used to improve the keyboard navigation of the page for assistive technology. Learn more about landmark elements.</nav></main>	
Offscreen content is hidden from assistive technology	^
Offscreen content is hidden with display: none or aria-hidden=true. Learn how to properly hide offscreen content.	
Custom controls have associated labels	^
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more about custom controls and labels</u> .	
Custom controls have ARIA roles	^
Custom interactive controls have appropriate ARIA roles. <u>Learn how to add roles to custom controls</u> .	
These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessib	nility

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 (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.

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[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

 [role]s have all required [aria-*] attributes Some ARIA roles have required attributes that describe the state of the element to screen readers. Learn more about roles and required attributes. [aria-*] attributes have valid values Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. Learn more about valid values for ARIA attributes. [aria-*] attributes are valid and not misspelled Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. Learn more about valid ARIA attributes. Buttons have an accessible name When a button doesn't have an accessible name, screen readers announce it as "button", making it unusable for users who rely on screen readers. Learn how to make buttons more accessible. 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. [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 descendents 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 roles.

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Background and foreground colors have a sufficient contrast ratio Low-contrast text is difficult or impossible for many users to read. Learn how to provide sufficient color contrast. Document has a <title> element The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. Learn more about document titles. <html> element has a [lang] attribute If a page doesn't specify a lang attribute, a screen reader assumes that the page is in the default language that the user chose when setting up the screen reader. If the page isn't actually in the default language, then the screen reader might not announce the page's text correctly. Learn more about the lang attribute. html element has a valid value for its [lang] attribute Specifying a valid BCP 47 language helps screen readers announce text properly. Learn how to use the lang attribute. Elements with visible text labels have matching accessible names. Visible text labels that do not match the accessible name can result in a confusing experience for screen reader users. Learn more about accessible names. Form elements have associated labels Labels ensure that form controls are announced properly by assistive technologies, like screen readers. Learn more about form element labels. Links 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. No element has a [tabindex] value greater than 0 A value greater than 0 implies an explicit navigation ordering. Although technically valid, this often creates frustrating experiences for users who rely on assistive technologies. Learn more about the tabindex attribute. 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.

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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.

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. <u>Learn more about the alt attribute</u>.

NOT APPLICABLE (39)

NOT APPLICABLE (39)	HIGE
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. <u>Learn about access keys</u> .	<u>more</u>
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 unusa for users who rely on screen readers. <u>Learn how to make command elements more accessible</u> .	ble
Elements with role="dialog" or role="alertdialog" have accessible names.	^
ARIA dialog elements without accessible names may prevent screen readers users from discerning the purpose of these elements. Learn how to make ARIA dialog elements more accessible.	se
ARIA input fields have accessible names	^
When an input field doesn't have an accessible name, screen readers announce it with a generic name, making it unus for users who rely on screen readers. <u>Learn more about input field labels</u> .	sable
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. <u>Learn how to name meter elements</u> .	
ARIA progressbar elements have accessible names	^
When a progressbar element doesn't have an accessible name, screen readers announce it with a generic name, m it unusable for users who rely on screen readers. <u>Learn how to label progressbar elements</u> .	naking
Elements with an ARIA [role] that require children to contain a specific [role] have all required children.	^

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Some ARIA parent roles must contain specific child roles to perform their intended accessibility functions. <u>Learn more about roles and required children elements</u> .
[role]s are contained by their required parent element
Some ARIA child roles must be contained by specific parent roles to properly perform their intended accessibility functions. <u>Learn more about ARIA roles and required parent element.</u>
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. <u>Learn how to name tooltip elements</u> .
O 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. <u>Learn more about labeling treeitem elements</u> .
The page contains a heading, skip link, or landmark region
Adding ways to bypass repetitive content lets keyboard users navigate the page more efficiently. <u>Learn more about bypass blocks</u> .
<dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements.</td></tr><tr><td>When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. <u>Learn how to structure definition lists correctly</u>.</td></tr><tr><td>O Definition list items are wrapped in <dl> elements</td></tr><tr><td>Definition list items (<dt> and <dd>) must be wrapped in a parent <dl> element to ensure that screen readers can properl announce them. Learn how to structure definition lists correctly.</td></tr><tr><td>O [id] attributes on active, focusable elements are unique</td></tr><tr><td></td></tr></tbody></table></script></dd></dt></dl>

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All focusable elements must have a unique id to ensure that they're visible to assistive technologies. Learn how to fix duplicate ids.
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 how to fix duplicate ARIA IDs</u> .
O 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> .
O <frame/> or <iframe> elements have a title</iframe>
Screen reader users rely on frame titles to describe the contents of frames. <u>Learn more about frame titles</u> .
<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> .
O 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.
<pre>O <input type="image"/> elements have [alt] text</pre>
When an image is being used as an <input/> button, providing alternative text can help screen reader users understand the purpose of the button. Learn about input image alt text.
Links are distinguishable without relying on color.
Low-contrast text is difficult or impossible for many users to read. Link text that is discernible improves the experience for users with low vision. Learn how to make links distinguishable.
Lists contain only elements and script supporting elements (<script> and <template>).</td></tr><tr><td>Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. <u>Learn more about proper list structure</u>.</td></tr><tr><td>O List items () are contained within , or <menu> parent elements</td></tr><tr><td>Screen readers require list items () to be contained within a parent , or <menu> to be announced properly. <u>Learn more about proper list structure</u>.</td></tr></tbody></table></script>

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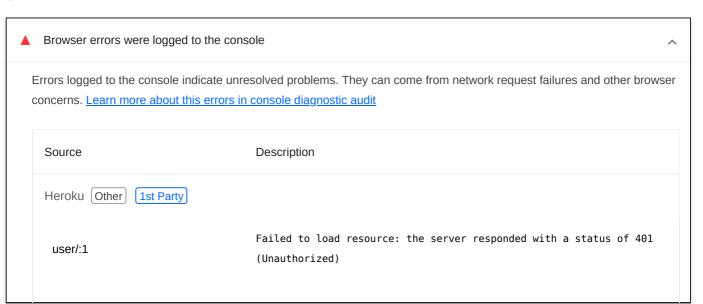
The document does not use <meta http-equiv="refresh"/>	^
Users do not expect a page to refresh automatically, and doing so will move focus back to the top of the page. This create a frustrating or confusing experience. <u>Learn more about the refresh meta tag</u> .	may
object> elements have alternate text	^
Screen readers cannot translate non-text content. Adding alternate text to <object> elements helps screen reader meaning to users. Learn more about alt text for object elements.</object>	rs convey
Select elements have associated label elements.	^
Form elements without effective labels can create frustrating experiences for screen reader users. <u>Learn more abouted the select element.</u>	<u>ut the</u>
Skip links are focusable.	^
Including a skip link can help users skip to the main content to save time. <u>Learn more about skip links</u> .	
Tables have different content in the summary attribute and <caption>.</caption>	^
The summary attribute should describe the table structure, while <caption> should have the onscreen title. Accura mark-up helps users of screen readers. <u>Learn more about summary and caption</u>.</caption>	ate table
Tables use <caption> instead of cells with the [colspan] attribute to indicate a caption.</caption>	^
Screen readers have features to make navigating tables easier. Ensuring that tables use the actual caption element of cells with the <code>[colspan]</code> attribute may improve the experience for screen reader users. Learn more about caption	
elements in a large have one or more table headers.	^
Screen readers have features to make navigating tables easier. Ensuring that elements in a large table (3 or r cells in width and height) have an associated table header may improve the experience for screen reader users. <u>Leadout table headers</u> .	
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 refer to other cells in the same table may improve the experience for screen reader users. Learn more about the heattribute.	-
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 may improve the experience for screen reader users. <u>Learn more about table headers</u> .	cells

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Best Practices

GENERAL



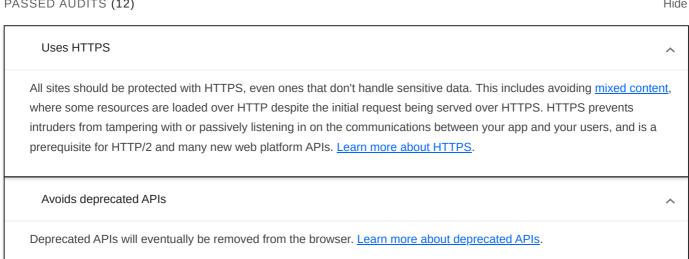
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Source	Description
sonic-explorers-api th/token/refresh/:1	Failed to load resource: the server responded with a status of 401 (Unauthorized)
user/:1	Failed to load resource: the server responded with a status of 401 (Unauthorized)
Detected JavaScript libraries	
•	detected on the page. <u>Learn more about this JavaScript library detection diagnostic au</u> Version
NII front-end JavaScript libraries	

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

PASSED AUDITS (12) Hide



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Allows users to paste into input fields Preventing input pasting is a bad practice for the UX, and weakens security by blocking password managers. Learn more about user-friendly input fields. 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. 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 A character encoding declaration is required. It can be done with a <meta> tag in the first 1024 bytes of the HTML or in the Content-Type HTTP response header. Learn more about declaring the character encoding. 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 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

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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. Show 3rd-party resources (1) URL Map URL Unpkg | Cdn ...dist/leaflet.js (unpkg.com) ...dist/leaflet.js.map (unpkg.com) Warning: missing 78 items in `.sourcesContent` Heroku Other 1st Party ...js/main.c74bf159.js (sonic-explorers-...js/main.c74bf159.js.map (sonic-explorerse821805686e9.herokuapp.com) e821805686e9.herokuapp.com)

NOT APPLICABLE (1) Hide

Fonts with font-display: optional are preloaded

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)

Structured data is valid

Structured Data.

Hide

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

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

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PASSED AUDITS (11)

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. Document has a meta description Meta descriptions may be included in search results to concisely summarize page content. Learn more about the meta description. Page has successful HTTP status code Pages with unsuccessful HTTP status codes may not be indexed properly. Learn more about HTTP status codes. Links have descriptive text Descriptive link text helps search engines understand your content. Learn how to make links more accessible. Links are crawlable Search engines may use href attributes on links to crawl websites. Ensure that the href attribute of anchor elements links to an appropriate destination, so more pages of the site can be discovered. Learn how to make links crawlable 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. robots.txt is valid If your robots.txt file is malformed, crawlers may not be able to understand how you want your website to be crawled or indexed. Learn more about robots.txt. Image elements have [alt] attributes Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. Learn more about the alt attribute.

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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

Search engines can't index plugin content, and many devices restrict plugins or don't support them. Learn more about avoiding plugins.

NOT APPLICABLE (3)

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 \ge 12px. 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. <u>Learn more about tap targets</u>.



PWA

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

INSTALLABLE

lacktriangle Web app manifest or service worker do not meet the installability requirements — 2 reasons

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.

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Failure reason

Manifest does not contain a suitable icon - PNG, SVG or WebP format of at least 144 px is required, the sizes attribute must be set, and the purpose attribute, if set, must include "any".

No supplied icon is at least 144 px square in PNG, SVG or WebP format, with the purpose attribute unset or set to "any"

PWA OPTIMIZED

A themed splash screen ensures a high-quality experience when users launch your app from their homescreens. Learn more about splash screens.

Sets a theme color for the address bar.

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

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

ADDITIONAL ITEMS TO MANUALLY CHECK (3)

Hide

Site works cross-browser

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

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. Learn more about page transitions.

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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 Nov 7, 2023, 12:18

PM GMT+1

Initial page load

Emulated Desktop with

Lighthouse 11.1.0

Custom throttling

Single page load

Using Chromium 119.0.0.0 with

devtools

Generated by **Lighthouse** 11.1.0 | File an issue

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