

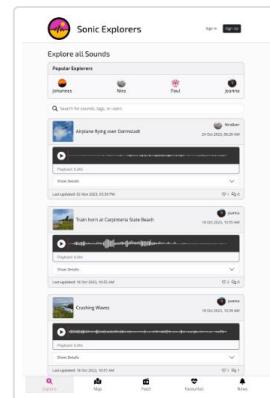
Performance

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

▲ 0–49

50–89

90–100



METRICS

[Expand view](#)

First Contentful Paint

0.6 s

▲ Largest Contentful Paint

2.6 s

Total Blocking Time

10 ms

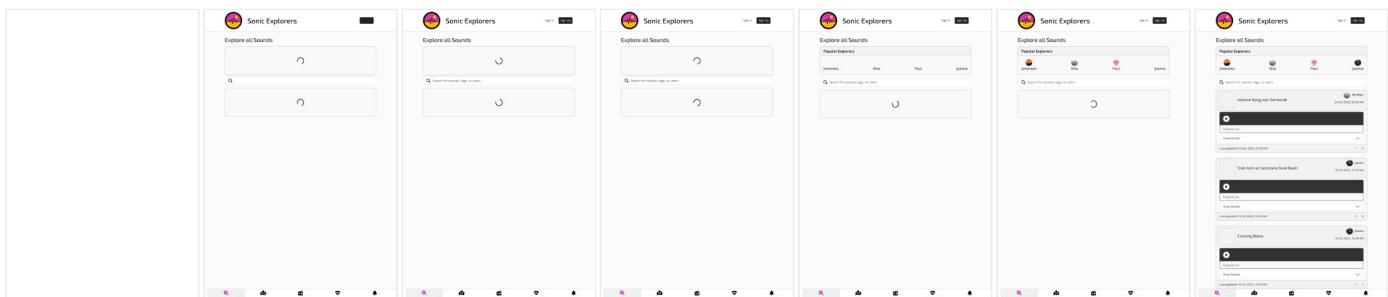
Cumulative Layout Shift

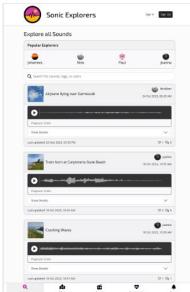
0.001

Speed Index

2.0 s

[View Treemap](#)

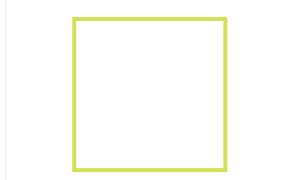




Show audits relevant to: All FCP LCP TBT CLS

OPPORTUNITIES

Opportunity	Estimated Savings
-------------	-------------------

▲ Properly size images	0.99s	^
Serve images that are appropriately-sized to save cellular data and improve load time. Learn how to size images.		
URL	Resource Size	Potential Savings
Cloudinary Content	1,337.1 KiB	1,313.4 KiB
 <pre> 9 class="SoundImage_SoundImage__ sSumv me-2" src="https://res.cloudinary.co m/dmmd6fle7/image/upload/v1/im ages/49840231047_ee..." alt="SoundImage" height="75" width="75"> </pre>	Sou ndl ma ge <im ...images/498... _eeb1d1500_c_l9k9ji (res.cloudinary.com)	173.0 KiB 171.0 KiB
Avatar <pre> </pre> 	...avatars/clarisse-... (res.cloudinary.com)	156.2 KiB 155.8 KiB
	Sou ndl ma ge	...images/640px-J32... (res.cloudinary.com)
		114.9 KiB 112.7 KiB

URL	Resource Size	Potential Savings
		
Avatar 	... avatars/DSC09040_oyhlnz (res.cloudinary.c om)	108.7 KiB 107.8 KiB
	Sou ndl ma ge <im g class="SoundImage_SoundImage__ sSumv me-2" src="https://res.cloudinary.co m/dmmd6fle7/image/upload/v1/im ages/freight-depot-..." alt="SoundImage" height="75" width="75">	...images/freight-depot- 6973277_640_hjdibg (res.cloudinary.com)
	Sou ndl ma ge <im g class="Avatar_AvatarImage__wJw Lb me-2" src="https://res.cloudinary.co m/dmmd6fle7/image/upload/v1/im ages/avatars/becca-..." alt="Avatar" height="45" width="45">	...avatars/becca-tap... (res.cloudinary.com)
	Sou ndl ma ge <im g class="SoundImage_SoundImage__ sSumv me-2" src="https://res.cloudinary.co m/dmmd6fle7/image/upload/v1/im ages/640px-BRN..." alt="SoundImage" height="75" width="75">	...images/640px-BRN... (res.cloudinary.com)

URL	Resource Size	Potential Savings	
<pre>class="SoundImage_SoundImage__ sSumv me-2" src="https://res.cloudinary.co m/dmmd6fle7/image/upload/v1/im ages/640px-BRNO_-_V..." alt="SoundImage" height="75" width="75"></pre> 	Sou ndl ma ge <im g		
<pre>class="SoundImage_SoundImage__ sSumv me-2" src="https://res.cloudinary.co m/dmmd6fle7/image/upload/v1/im ages/363px-2009-08...." alt="SoundImage" height="75" width="75"></pre> 	...images/363px-200... (res.cloudinary.com)	83.7 KiB 82.0 KiB	
<pre>class="SoundImage_SoundImage__ sSumv me-2" src="https://res.cloudinary.co m/dmmd6fle7/image/upload/v1/im ages/640px-Carpinte..." alt="SoundImage" height="75" width="75"></pre> 	Sou ndl ma ge <im g	...images/640px-Car... (res.cloudinary.com)	81.3 KiB 79.9 KiB
<pre>class="SoundImage_SoundImage__ sSumv me-2" src="https://res.cloudinary.co m/dmmd6fle7/image/upload/v1/im ages/Zion_Free_Shut..." alt="SoundImage" height="75" width="75"></pre> 	Sou ndl ma ge <im g	...images/Zion_Free... (res.cloudinary.com)	76.3 KiB 74.2 KiB

URL	Resource Size	Potential Savings
 <pre>Sou ndl ma ge <im g class="SoundImage_SoundImage__ sSumv_me-2" src="https://res.cloudinary.co m/dmmd6fle7/image/upload/v1/im ages/San_Francisco_..." alt="SoundImage" height="75" width="75"></pre>	69.6 KiB	67.5 KiB
 <pre>Avatar </pre>	67.2 KiB	66.6 KiB
 <pre>Sou ndl ma ge <im g class="SoundImage_SoundImage__ sSumv_me-2" src="https://res.cloudinary.co m/dmmd6fle7/image/upload/v1/im ages/6794625222_181..." alt="SoundImage" height="75" width="75"></pre>	61.4 KiB	58.8 KiB
 <pre>Sou ndl ma ge <im g class="SoundImage_SoundImage__ sSumv_me-2" src="https://res.cloudinary.co m/dmmd6fle7/image/upload/v1/im</pre>	34.2 KiB	33.6 KiB

URL	Resource Size	Potential Savings
<code>ages/plane-899364_6..." alt="SoundImage" height="75" width="75"></code>		

Avatar

```

```

...avatars/screenshot_crop_18-10-2023_11-19-10_j0lhod (res.cloudinary.com)

19.9 KiB

16.7 KiB

Serve images in next-gen formats

0.49s ▾

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.](#)

URL	Resource Size	Potential Savings
-----	---------------	-------------------

Cloudinary Content

1,337.1 KiB 670.9 KiB

Avatar

```

```

...avatars/clarisse-... (res.cloudinary.com)

156.2 KiB

83.1 KiB



SoundImage

Image


```

...images/498...\_eeeb1d1500\_c\_l9k9ji (res.cloudinary.com)

173.0 KiB

76.7 KiB

| URL                                                                                                                                                                                                                                                                                                   | Resource Size | Potential Savings |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|
| <p>Avatar</p> <pre>&lt;img class="Avatar_AvatarImage__wJwLb me-2" src="https://res.cloudinary.com/ dmmd6fle7/image/upload/v1/images /avatars/DSC090..." alt="Avatar" height="45" width="45"&gt;</pre>                                                                                                 | 108.7 KiB     | 72.5 KiB          |
| <p>Avatar</p> <pre>&lt;img class="Avatar_AvatarImage__wJwLb me-2" src="https://res.cloudinary.com/ dmmd6fle7/image/upload/v1/images /avatars/becca-tap..." alt="Avatar" height="45" width="45"&gt;</pre>                                                                                              | 93.1 KiB      | 58.2 KiB          |
| <p>Avatar</p> <pre>&lt;img class="Avatar_AvatarImage__wJwLb me-2" src="https://res.cloudinary.com/ dmmd6fle7/image/upload/v1/images /avatars/DSC091..." alt="Avatar" height="45" width="45"&gt;</pre>                                                                                                 | 67.2 KiB      | 55.8 KiB          |
|  <p>SoundImage</p> <pre>&lt;img class ="SoundImage_SoundImage__sSumv me-2" src="https://res.cloudinary.com/ dmmd6fle7/image/upload/v1/images /freight-depot-..." alt="SoundImage" height="75" width="75"&gt;</pre> | 106.2 KiB     | 52.1 KiB          |
|  <p>SoundImage</p> <pre>&lt;img class ="SoundImage_SoundImage__sSumv me-2" src="https://res.cloudinary.com/</pre>                                                                                                  | 114.9 KiB     | 42.6 KiB          |

| URL                                                                                                                                                                                                     | Resource Size                                                                                                                                                                                                               | Potential Savings                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <pre>dmm6fle7/image/upload/v1/images<br/>/640px-J32_370..."<br/>alt="SoundImage" height="75"<br/>width="75"&gt;</pre>  | Soun<br>dlma<br>ge<br><img<br>class<br>="SoundImage_SoundImage__sSumv<br>me-2"<br>src="https://res.cloudinary.com/<br>dmm6fle7/image/upload/v1/images<br>/6794625222_181..."<br>alt="SoundImage" height="75"<br>width="75"> | ...images/679...<br>_181cc3738b_w_qaiytw (res.cloudinary.com) 61.4 KiB 36.8 KiB |
|                                                                                                                       | Soun<br>dlma<br>ge<br><img<br>class<br>="SoundImage_SoundImage__sSumv<br>me-2"<br>src="https://res.cloudinary.com/<br>dmm6fle7/image/upload/v1/images<br>/640px-BRNO_-_V..."<br>alt="SoundImage" height="75"<br>width="75"> | ...images/640px-BRN... (res.cloudinary.com) 91.5 KiB 35.4 KiB                   |
|                                                                                                                      | Soun<br>dlma<br>ge<br><img<br>class<br>="SoundImage_SoundImage__sSumv<br>me-2"<br>src="https://res.cloudinary.com/<br>dmm6fle7/image/upload/v1/images<br>/363px-2009-08..."<br>alt="SoundImage" height="75"<br>width="75">  | ...images/363px-200... (res.cloudinary.com) 83.7 KiB 32.2 KiB                   |
|                                                                                                                      | Soun<br>dlma<br>ge<br><img<br>class<br>="SoundImage_SoundImage__sSumv<br>me-2"<br>src="https://res.cloudinary.com/<br>dmm6fle7/image/upload/v1/images<br>/640px-Car..."<br>alt="SoundImage" height="75"<br>width="75">      | ...images/640px-Car... (res.cloudinary.com) 81.3 KiB 31.8 KiB                   |

| URL                                                                                                                                                                                    | Resource Size                                                     | Potential Savings |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------|
| = "SoundImage_SoundImage__sSumv<br>me-2"<br>src="https://res.cloudinary.com/<br>dmmd6fle7/image/upload/v1/images<br>/640px-Carpinte..."<br>alt="SoundImage" height="75"<br>width="75"> |                                                                   |                   |
|  Soun<br>dIma<br>ge<br><img<br>class                                                                  |                                                                   |                   |
| = "SoundImage_SoundImage__sSumv<br>me-2"<br>src="https://res.cloudinary.com/<br>dmmd6fle7/image/upload/v1/images<br>/Zion_Free_Shut..."<br>alt="SoundImage" height="75"<br>width="75"> | ...images/Zion_Free... (res.cloudinary.com)                       | 76.3 KiB 29.2 KiB |
|  Soun<br>dIma<br>ge<br><img<br>class                                                                | ...                                                               |                   |
| = "SoundImage_SoundImage__sSumv<br>me-2"<br>src="https://res.cloudinary.com/<br>dmmd6fle7/image/upload/v1/images<br>/San_Francisco_..."<br>alt="SoundImage" height="75"<br>width="75"> | images/San_Francisco_Cable_Car_MC_ek<br>blwe (res.cloudinary.com) | 69.6 KiB 27.2 KiB |
|  Soun<br>dIma<br>ge<br><img<br>class                                                                |                                                                   |                   |
| = "SoundImage_SoundImage__sSumv<br>me-2"<br>src="https://res.cloudinary.com/<br>dmmd6fle7/image/upload/v1/images<br>/plane-899364_6..."<br>alt="SoundImage" height="75"<br>width="75"> | ...images/plane-<br>899364_640_shjr7p (res.cloudinary.com)        | 34.2 KiB 20.3 KiB |

| URL                                                                                                                                                                                                                                                                                                    | Resource Size                                                               | Potential Savings                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------|
| Avatar<br><pre>&lt;img class="Avatar_AvatarImage__wJwLb me-2" src="https://res.cloudinary.com/ dmmd6fle7/image/upload/v1/images /avatars/screen..." alt="Avatar" height="45" width="45"&gt;</pre>                                                                                                      | ...avatars/screenshot_crop_18-10- 2023_11-19-10_i0lhod (res.cloudinary.com) | 19.9 KiB    17.0 KiB              |
| openstreetmap.org                                                                                                                                                                                                                                                                                      |                                                                             | <b>199.5 KiB</b> <b>124.4 KiB</b> |
| div.leaflet-pane > div.leaflet-layer > div.leaflet-tile-container > img.leaflet- tile<br><pre>&lt;img alt="" src="https://a.tile.openstreetma p.org/6/33/21.png" class="leaflet-tile leaflet- tile-loaded" style="width: 256px; height: 256px; transform: translate3d(-138px, -187px, 0px);"&gt;</pre> | ...33/21.png (a.tile.openstreetmap.org)                                     | 54.6 KiB    35.1 KiB              |
| div.leaflet-pane > div.leaflet-layer > div.leaflet-tile-container > img.leaflet- tile<br><pre>&lt;img alt="" src="https://b.tile.openstreetma p.org/6/33/22.png" class="leaflet-tile leaflet- tile-loaded" style="width: 256px; height: 256px; transform: translate3d(-101px, -63px, 0px);"&gt;</pre>  | ...33/22.png (b.tile.openstreetmap.org)                                     | 52.1 KiB    33.0 KiB              |
| div.leaflet-pane > div.leaflet-layer > div.leaflet-tile-container > img.leaflet- tile<br><pre>&lt;img alt="" src="https://a.tile.openstreetma p.org/6/34/23.png" class="leaflet-tile leaflet- tile-loaded" style="width: 256px; height: 256px; transform: translate3d(-236px, -100px, 0px);"&gt;</pre> | ...34/23.png (a.tile.openstreetmap.org)                                     | 33.1 KiB    20.1 KiB              |

| URL                                                                                                                                                                                                                                                           | Resource Size | Potential Savings |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|
| <pre>div.leaflet-pane &gt; div.leaflet-layer &gt; div.leaflet-tile-container &gt; img.leaflet- tile </pre>  | 27.8 KiB      | 17.1 KiB          |
| <pre>div.leaflet-pane &gt; div.leaflet-layer &gt; div.leaflet-tile-container &gt; img.leaflet- tile </pre> | 16.9 KiB      | 9.7 KiB           |
| <pre>div.leaflet-pane &gt; div.leaflet-layer &gt; div.leaflet-tile-container &gt; img.leaflet- tile </pre>  | 15.0 KiB      | 9.3 KiB           |

Eliminate render-blocking resources 0.35s ^

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

Show 3rd-party resources (4)

| URL                                                                              | Transfer Size | Potential Savings |
|----------------------------------------------------------------------------------|---------------|-------------------|
| JSDelivr CDN <span style="border: 1px solid black; padding: 2px 5px;">Cdn</span> | 33.2 KiB      | 320 ms            |

| URL                                                                   | Transfer Size   | Potential Savings |
|-----------------------------------------------------------------------|-----------------|-------------------|
| ...css/bootstrap.min.css (cdn.jsdelivr.net)                           | 33.2 KiB        | 320 ms            |
| Unpkg <span>Cdn</span>                                                | <b>46.8 KiB</b> | <b>350 ms</b>     |
| ...dist/leaflet.css (unpkg.com)                                       | 3.6 KiB         | 230 ms            |
| ...dist/leaflet.js (unpkg.com)                                        | 43.1 KiB        | 120 ms            |
| Heroku <span>Other</span> <span>1st Party</span>                      | <b>3.8 KiB</b>  | <b>90 ms</b>      |
| ...css/main.ecc68b0c.css (sonic-explorers-e821805686e9.herokuapp.com) | 3.8 KiB         | 90 ms             |
| FontAwesome CDN <span>Cdn</span>                                      | <b>4.2 KiB</b>  | <b>240 ms</b>     |
| /1abfbda195.js (kit.fontawesome.com)                                  | 4.2 KiB         | 240 ms            |

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

## DIAGNOSTICS

| ⚠ Ensure text remains visible during webfont load                                                                                                                                                                                                                                                                                                                                                                                                | ▲                 |     |                   |                                                  |               |                                                                                   |        |                                                                                   |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----|-------------------|--------------------------------------------------|---------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|--------|
| Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading. <a href="#">Learn more about font-display</a> . <span>FCP</span> <span>LCP</span>                                                                                                                                                                                                                                                               |                   |     |                   |                                                  |               |                                                                                   |        |                                                                                   |        |
| <table border="1"> <thead> <tr> <th>URL</th><th>Potential Savings</th></tr> </thead> <tbody> <tr> <td>Heroku <span>Other</span> <span>1st Party</span></td><td><b>420 ms</b></td></tr> <tr> <td>...media/Exo2-Vari....aeccf0d....ttf (sonic-explorers-e821805686e9.herokuapp.com)</td><td>190 ms</td></tr> <tr> <td>...media/OpenSans-....071a1be....ttf (sonic-explorers-e821805686e9.herokuapp.com)</td><td>220 ms</td></tr> </tbody> </table> |                   | URL | Potential Savings | Heroku <span>Other</span> <span>1st Party</span> | <b>420 ms</b> | ...media/Exo2-Vari....aeccf0d....ttf (sonic-explorers-e821805686e9.herokuapp.com) | 190 ms | ...media/OpenSans-....071a1be....ttf (sonic-explorers-e821805686e9.herokuapp.com) | 220 ms |
| URL                                                                                                                                                                                                                                                                                                                                                                                                                                              | Potential Savings |     |                   |                                                  |               |                                                                                   |        |                                                                                   |        |
| Heroku <span>Other</span> <span>1st Party</span>                                                                                                                                                                                                                                                                                                                                                                                                 | <b>420 ms</b>     |     |                   |                                                  |               |                                                                                   |        |                                                                                   |        |
| ...media/Exo2-Vari....aeccf0d....ttf (sonic-explorers-e821805686e9.herokuapp.com)                                                                                                                                                                                                                                                                                                                                                                | 190 ms            |     |                   |                                                  |               |                                                                                   |        |                                                                                   |        |
| ...media/OpenSans-....071a1be....ttf (sonic-explorers-e821805686e9.herokuapp.com)                                                                                                                                                                                                                                                                                                                                                                | 220 ms            |     |                   |                                                  |               |                                                                                   |        |                                                                                   |        |
| ⚠ Image elements do not have explicit <code>width</code> and <code>height</code>                                                                                                                                                                                                                                                                                                                                                                 | ▲                 |     |                   |                                                  |               |                                                                                   |        |                                                                                   |        |
| Set an explicit width and height on image elements to reduce layout shifts and improve CLS. <a href="#">Learn how to set image dimensions</a> . <span>CLS</span>                                                                                                                                                                                                                                                                                 |                   |     |                   |                                                  |               |                                                                                   |        |                                                                                   |        |

## URL

Heroku Other 1st Party



im  
g.  
To  
p  
N  
...media/logo.e3f00b3....svg (sonic-explorers-e821805686e9.herokuapp.com)

avBar\_Logo\_\_n6-oo

## ⚠ Avoid enormous network payloads — Total size was 7,624 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 (9)

| URL                                                                               | Transfer Size |
|-----------------------------------------------------------------------------------|---------------|
| Cloudinary Content                                                                | 4,753.2 KiB   |
| ...audio/ilut68n0ms7suz4bt2yq.mp3 (res.cloudinary.com)                            | 670.3 KiB     |
| ...audio/f7pelmnuxhy8a2givpdm.mp3 (res.cloudinary.com)                            | 659.2 KiB     |
| ...audio/trgfjfmkkwh8m5qxqcf.mp3 (res.cloudinary.com)                             | 659.0 KiB     |
| ...audio/blkiuly4gubulpjnemb.mp3 (res.cloudinary.com)                             | 654.5 KiB     |
| ...audio/omforatr7gokfyixelbg.mp3 (res.cloudinary.com)                            | 642.0 KiB     |
| ...audio/aieye0jgpechkeclkwr.mp3 (res.cloudinary.com)                             | 472.2 KiB     |
| ...audio/fabn2vjmoqdovdadmdu6.mp3 (res.cloudinary.com)                            | 338.4 KiB     |
| ...audio/irn0pm8e8jofjrrqrar.mp3 (res.cloudinary.com)                             | 336.4 KiB     |
| ...audio/irlie2fo7lsn8d7pe6np.mp3 (res.cloudinary.com)                            | 321.1 KiB     |
| Heroku Other 1st Party                                                            | 337.8 KiB     |
| ...media/OpenSans-....071a1be....ttf (sonic-explorers-e821805686e9.herokuapp.com) | 337.8 KiB     |

## ⚠ Serve static assets with an efficient cache policy — 21 resources found

^

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

Show 3rd-party resources (16)

| URL                                                                               | Cache TTL | Transfer Size |
|-----------------------------------------------------------------------------------|-----------|---------------|
| Cloudinary Content                                                                |           | 1,346 KiB     |
| ...images/498..._eeeb1d1500_c_l9k9ji (res.cloudinary.com)                         | 30d       | 174 KiB       |
| ...avatars/clarisse-... (res.cloudinary.com)                                      | 30d       | 157 KiB       |
| ...images/640px-J32... (res.cloudinary.com)                                       | 30d       | 115 KiB       |
| ...avatars/DSC09040_oyhlnz (res.cloudinary.com)                                   | 30d       | 109 KiB       |
| ...images/freight-depot-6973277_640_hjdibg (res.cloudinary.com)                   | 30d       | 107 KiB       |
| ...avatars/becca-tap... (res.cloudinary.com)                                      | 30d       | 94 KiB        |
| ...images/640px-BRN... (res.cloudinary.com)                                       | 30d       | 92 KiB        |
| ...images/363px-200... (res.cloudinary.com)                                       | 30d       | 84 KiB        |
| ...images/640px-Car... (res.cloudinary.com)                                       | 30d       | 82 KiB        |
| ...images/Zion_Free... (res.cloudinary.com)                                       | 30d       | 77 KiB        |
| ...images/San_Francisco_Cable_Car_MC_ekblwe (res.cloudinary.com)                  | 30d       | 70 KiB        |
| ...avatars/DSC09119_cfmajb (res.cloudinary.com)                                   | 30d       | 68 KiB        |
| ...images/679..._181cc3738b_w_qaiytw (res.cloudinary.com)                         | 30d       | 62 KiB        |
| ...images/plane-899364_640_shjr7p (res.cloudinary.com)                            | 30d       | 35 KiB        |
| ...avatars/screenshot_crop_18-10-2023_11-19-10_i0lhod (res.cloudinary.com)        | 30d       | 20 KiB        |
| ...upload/default_profile_p5rke8 (res.cloudinary.com)                             | 30d       | 1 KiB         |
| 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       |

| URL                                                                       | Cache TTL | Transfer Size |
|---------------------------------------------------------------------------|-----------|---------------|
| ...media/logo.e3f00b3....svg (sonic-explorers-e821805686e9.herokuapp.com) | None      | 56 KiB        |
| ...css/main.ecc68b0c.css (sonic-explorers-e821805686e9.herokuapp.com)     | None      | 4 KiB         |

### Avoid an excessive DOM size — 1,117 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     |                                                                                                                     | 1,117 |
| Maximum DOM Depth      | div.leaflet-control-attribution > a > svg.leaflet-attribution-flag > path<br><path fill="#4C7BE1" d="M0 0h12v4H0z"> | 24    |
| Maximum Child Elements |                                   | 10    |

### ○ 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: **634.587 ms**

#### *Initial Navigation*

<https://sonic-explorers-e821805686e9.herokuapp.com>

```
...css/bootstrap.min.css (cdn.jsdelivr.net) - 76.754 ms, 33.20 KiB
...dist/leaflet.css (unpkg.com) - 37.366 ms, 3.61 KiB
...css/main.ecc68b0c.css (sonic-explorers-e821805686e9.herokuapp.com)
...media/Exo2-Vari....aeccf0d....ttf (sonic-explorers-e821805686e9.herokuapp.com) - 190.938 ms, 130.85 KiB
...media/OpenSans-....071a1be....ttf (sonic-explorers-e821805686e9.herokuapp.com) - 224.423 ms, 337.83 KiB
/1abfbda195.js (kit.fontawesome.com) - 44.572 ms, 4.22 KiB
...dist/leaflet.js (unpkg.com) - 45.287 ms, 43.14 KiB
```

### ○ Largest Contentful Paint element — 2,640 ms ^

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

LCP

### Element



a.active

| Phase        | % of LCP | Timing   |
|--------------|----------|----------|
| TTFB         | 8%       | 210 ms   |
| Load Delay   | 0%       | 0 ms     |
| Load Time    | 0%       | 0 ms     |
| Render Delay | 92%      | 2,430 ms |

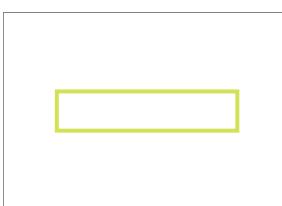
- Avoid large layout shifts — 4 elements found



These DOM elements contribute most to the CLS of the page. [Learn how to improve CLS](#) [CLS]

### Element

### CLS Contribution



Playback: 0.00s

`<span class="AudioPlayer_Time__2uYoG" data-testid="current-time">`

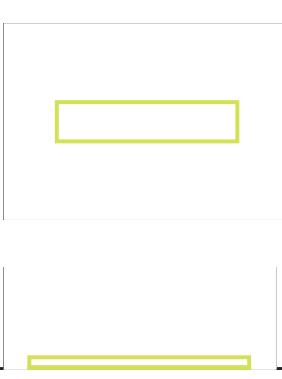
0.000



Playback: 0.00s

`<span class="AudioPlayer_Time__2uYoG" data-testid="current-time">`

0.000



Playback: 0.00s

`<span class="AudioPlayer_Time__2uYoG" data-testid="current-time">`

0.000



0.000

CLS Contribution

## Element

 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 how to avoid long main-thread tasks](#) (TBT)

| URL                                                                 | Start Time | Duration |
|---------------------------------------------------------------------|------------|----------|
| Heroku <small>Other</small> <a href="#">1st Party</a>               |            | 62 ms    |
| ...js/main.c74bf159.js (sonic-explorers-e821805686e9.herokuapp.com) | 1,682 ms   | 62 ms    |

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

## PASSED AUDITS (27)

Hide

## Defer offscreen images — Potential savings of 97 KiB

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](#).

| URL                                                                                                                                                                                                                                                                                                        | Resource Size                           | Potential Savings |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------|
| openstreetmap.org                                                                                                                                                                                                                                                                                          | 97.4 KiB                                | 97.4 KiB          |
| <pre>div.leaflet-pane &gt; div.leaflet-layer &gt; div.leaflet-tile-container &gt; img.leaflet-tile &lt;img alt="" src="https://a.tile.openstreetmap.o rg/6/33/21.png" class="leaflet-tile leaflet-tile-loaded" style="width: 256px; height: 256px; transform: translate3d(-138px, -187px, 0px);"&gt;</pre> | ...33/21.png (a.tile.openstreetmap.org) | 54.6 KiB          |
| <pre>div.leaflet-pane &gt; div.leaflet-layer &gt; div.leaflet-tile-container &gt; img.leaflet-tile &lt;img alt="" src="https://b.tile.openstreetmap.o rg/6/10/24.png" class="leaflet-tile leaflet-tile-loaded" style="width:</pre>                                                                         | ...10/24.png (b.tile.openstreetmap.org) | 27.8 KiB          |

| URL                                                                                                                                                                                                                                                                                                                                      | Resource Size                           | Potential Savings |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------|
| <code>256px; height: 256px; transform: translate3d(-61px, -187px, 0px);"&gt;</code>                                                                                                                                                                                                                                                      |                                         |                   |
| <code>div.leaflet-pane &gt; div.leaflet-layer &gt;<br/>div.leaflet-tile-container &gt; img.leaflet-tile<br/>&lt;img alt=""<br/>src="https://c.tile.openstreetmap.o<br/>rg/6/10/25.png" class="leaflet-tile<br/>leaflet-tile-loaded" style="width:<br/>256px; height: 256px; transform:<br/>translate3d(-192px, -123px, 0px);"&gt;</code> | ...10/25.png (c.tile.openstreetmap.org) | 15.0 KiB 15.0 KiB |

## 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](#)

Show 3rd-party resources (1)

| URL                                                                                                                   | Transfer Size | Potential Savings |
|-----------------------------------------------------------------------------------------------------------------------|---------------|-------------------|
| JSDelivr CDN <a href="#">Cdn</a>                                                                                      | 33.2 KiB      | 30.7 KiB          |
| ...css/bootstrap.min.css (cdn.jsdelivr.net)                                                                           | 33.2 KiB      | 30.7 KiB          |
| Unattributable                                                                                                        | 20.3 KiB      | 20.0 KiB          |
| <code>/*! * Font Awesome Free 6.4.2 by @fontawesome - https://fontawesome.com *<br/>License - https://fonta...</code> | 20.3 KiB      | 20.0 KiB          |

## Reduce unused JavaScript — Potential savings of 124 KiB

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity. [Learn how to reduce unused JavaScript.](#) [LCP](#)

Show 3rd-party resources (1)

| URL                                                                 | Transfer Size    | Potential Savings |
|---------------------------------------------------------------------|------------------|-------------------|
| Heroku [Other] <b>1st Party</b>                                     | <b>174.8 KiB</b> | <b>87.9 KiB</b>   |
| ...js/main.c74bf159.js (sonic-explorers-e821805686e9.herokuapp.com) | 174.8 KiB        | 87.9 KiB          |
| .../node_modules/react-dom/cjs/react-dom.production.min.js          | 38.0 KiB         | 11.7 KiB          |
| .../node_modules/leaflet/src/map/Map.js                             | 6.2 KiB          | 3.6 KiB           |
| .../node_modules/leaflet/src/layer/vector/Canvas.js                 | 1.7 KiB          | 1.6 KiB           |
| pages/sounds/SoundEditForm.js                                       | 1.6 KiB          | 1.6 KiB           |
| .../node_modules/leaflet/src/control/Control.Layers.js              | 1.6 KiB          | 1.5 KiB           |
| Unpkg [Cdn]                                                         | <b>43.1 KiB</b>  | <b>36.0 KiB</b>   |
| ...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 — Potential savings of 93 KiB ^

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

| URL                                                                                           | Resource Size    | Potential Savings |
|-----------------------------------------------------------------------------------------------|------------------|-------------------|
| Cloudinary [Content]                                                                          | <b>237.2 KiB</b> | <b>93.2 KiB</b>   |
| Avatar<br> | 108.7 KiB        | 39.3 KiB          |
| Avatar<br> | 67.2 KiB         | 39.1 KiB          |

| URL                                                                                                                                                                                                                                                                                                                                                                                                                                             | Resource Size | Potential Savings |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|
| <pre>src="https://res.cloudinary.com/dm md6fle7/image/upload/v1/images/ava tars/DSC091..." alt="Avatar" height="45" width="45"&gt;&gt;</pre>  <pre>SoundI mage &lt;img class=" SoundIm age_SoundImage__sSumv me-2" src="https://res.cloudinary.com/dm md6fle7/image/upload/v1/images/679 4625222_181..." alt="SoundImage" height="75" width="75"&gt;&gt;</pre> | 61.4 KiB      | 14.7 KiB          |

#### Enable text compression — Potential savings of 7 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

| URL                                                                                                                                                                                           | Transfer Size | Potential Savings |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|
| Heroku <span style="border: 1px solid #ccc; padding: 2px 5px;">Other</span> <span style="border: 1px solid #007bff; border-radius: 15px; padding: 2px 10px; color: #007bff;">1st Party</span> | 10.4 KiB      | 7.5 KiB           |
| /sounds/?search= (sonic-explorers-api-4c187c4cd99f.herokuapp.com)                                                                                                                             | 7.9 KiB       | 5.7 KiB           |
| /profiles/?ordering=-followers_count (sonic-explorers-api-4c187c4cd99f.herokuapp.com)                                                                                                         | 2.4 KiB       | 1.8 KiB           |

#### Preconnect to required origins — Potential savings of 100 ms ^

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

| URL                                                                                | Potential Savings |
|------------------------------------------------------------------------------------|-------------------|
| FontAwesome CDN <span style="border: 1px solid #ccc; padding: 2px 5px;">Cdn</span> | 100 ms            |
| https://ka-f.fontawesome.com                                                       | 100 ms            |

#### Initial server response time was short — Root document took 50 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 <a href="#">Other</a> <a href="#">1st Party</a>                                                              | 50 ms      |
| <a href="https://sonic-explorers-e821805686e9.herokuapp.com">https://sonic-explorers-e821805686e9.herokuapp.com</a> | 50 ms      |

#### Avoid multiple page redirects [^](#)

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

#### Preload key requests [^](#)

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

#### Use 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 <a href="#">Other</a> <a href="#">1st Party</a>                                                              |          |
| <a href="https://sonic-explorers-e821805686e9.herokuapp.com">https://sonic-explorers-e821805686e9.herokuapp.com</a> | http/1.1 |
| ...js/main.c74bf159.js (sonic-explorers-e821805686e9.herokuapp.com)                                                 | http/1.1 |
| ...css/main.ecc68b0c.css (sonic-explorers-e821805686e9.herokuapp.com)                                               | http/1.1 |
| ...media/logo.e3f00b3....svg (sonic-explorers-e821805686e9.herokuapp.com)                                           | http/1.1 |
| ...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 |
| /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](#)

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

## ○ Preload Largest Contentful Paint image

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

## ○ 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 — 0.4 s

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

| URL                                                                                                                 | Total CPU Time | Script Evaluation | Script Parse |
|---------------------------------------------------------------------------------------------------------------------|----------------|-------------------|--------------|
| Heroku <a href="#">Other</a> <a href="#">1st Party</a>                                                              | 569 ms         | 366 ms            | 11 ms        |
| ...js/main.c74bf159.js (sonic-explorers-e821805686e9.herokuapp.com)                                                 | 458 ms         | 364 ms            | 9 ms         |
| <a href="https://sonic-explorers-e821805686e9.herokuapp.com">https://sonic-explorers-e821805686e9.herokuapp.com</a> | 110 ms         | 3 ms              | 1 ms         |

| URL            | Total CPU Time | Script Evaluation | Script Parse |
|----------------|----------------|-------------------|--------------|
| Unattributable | 352 ms         | 72 ms             | 0 ms         |
| Unattributable | 352 ms         | 72 ms             | 0 ms         |

Minimizes main-thread work — 1.0 s ^

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

| Category                     | Time Spent |
|------------------------------|------------|
| Script Evaluation            | 460 ms     |
| Other                        | 354 ms     |
| Style & Layout               | 82 ms      |
| Rendering                    | 23 ms      |
| Parse HTML & CSS             | 14 ms      |
| Script Parsing & Compilation | 13 ms      |
| Garbage Collection           | 8 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 |
|---------------------------------------------------------|---------------|---------------------------|
| Cloudinary <small>Content</small>                       | 6,400 KiB     | 0 ms                      |
| ...audio/ilut68n0ms7suz4bt2yq.mp3 (res.cloudinary.com)  | 670 KiB       | 0 ms                      |
| ...audio/f7pelmnuxhy8a2givpdm.mp3 (res.cloudinary.com)  | 659 KiB       | 0 ms                      |
| ...audio/trgfjfmkkwh8m5qxqcf.d.mp3 (res.cloudinary.com) | 659 KiB       | 0 ms                      |
| ...audio/blkiuly4gubulpjnemb.mp3 (res.cloudinary.com)   | 654 KiB       | 0 ms                      |
| ...audio/omforatr7gokfyixelbg.mp3 (res.cloudinary.com)  | 642 KiB       | 0 ms                      |
| Other resources                                         | 3,115 KiB     | 0 ms                      |

| Third-Party                                                  | Transfer Size  | Main-Thread Blocking Time |
|--------------------------------------------------------------|----------------|---------------------------|
| openstreetmap.org                                            | <b>215 KiB</b> | <b>0 ms</b>               |
| ...33/21.png (a.tile.openstreetmap.org)                      | 55 KiB         | 0 ms                      |
| ...33/22.png (b.tile.openstreetmap.org)                      | 53 KiB         | 0 ms                      |
| ...34/23.png (a.tile.openstreetmap.org)                      | 34 KiB         | 0 ms                      |
| ...10/24.png (b.tile.openstreetmap.org)                      | 28 KiB         | 0 ms                      |
| ...11/24.png (c.tile.openstreetmap.org)                      | 17 KiB         | 0 ms                      |
| Other resources                                              | 29 KiB         | 0 ms                      |
| FontAwesome CDN <span>Cdn</span>                             | <b>206 KiB</b> | <b>0 ms</b>               |
| ...webfonts/free-fa-solid-900.woff2 (ka-f.fontawesome.com)   | 147 KiB        | 0 ms                      |
| ...webfonts/free-fa-regular-400.woff2 (ka-f.fontawesome.com) | 25 KiB         | 0 ms                      |
| ...css/free.min.css?token=1abfbda195 (ka-f.fontawesome.com)  | 23 KiB         | 0 ms                      |
| Other resources                                              | 11 KiB         | 0 ms                      |
| Unpkg <span>Cdn</span>                                       | <b>49 KiB</b>  | <b>0 ms</b>               |
| ...dist/leaflet.js (unpkg.com)                               | 43 KiB         | 0 ms                      |
| Other resources                                              | 6 KiB          | 0 ms                      |
| JSDelivr CDN <span>Cdn</span>                                | <b>33 KiB</b>  | <b>0 ms</b>               |
| ...css/bootstrap.min.css (cdn.jsdelivr.net)                  | 33 KiB         | 0 ms                      |

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

Some third-party embeds can be lazy loaded. Consider replacing them with a facade until they are required. [Learn how to defer third-parties with a facade.](#) TBT

#### ○ Largest Contentful Paint image was not lazily loaded ^

Above-the-fold images that are lazily loaded render later in the page lifecycle, which can delay the largest contentful paint. [Learn more about optimal lazy loading.](#) LCP

Uses passive listeners to improve scrolling performance ^

Consider marking your touch and wheel event listeners as passive to improve your page's scroll performance. [Learn more about adopting passive event listeners.](#)

Avoids `document.write()` ^

For users on slow connections, external scripts dynamically injected via `document.write()` can delay page load by tens of seconds. [Learn how to avoid document.write\(\).](#)

### ○ Avoid 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

Many 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](#)



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## 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.

## NAVIGATION

### ▲ Heading elements are not 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](#).

#### Failing Elements



These are opportunities to improve keyboard navigation in your application.

## ADDITIONAL ITEMS TO MANUALLY CHECK (10)

[Hide](#)

- Interactive controls are keyboard focusable

Custom interactive controls are keyboard focusable and display a focus indicator. [Learn how to make custom controls focusable](#).

- Interactive elements indicate their purpose and state

Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. [Learn how to decorate interactive elements with affordance hints](#).

- The page has a logical tab order

Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. [Learn more about logical tab ordering](#).

- Visual order on the page follows DOM order

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

- User focus is not accidentally trapped in a region

A user can tab into and out of any control or region without accidentally trapping their focus. [Learn how to avoid focus traps](#).

- The user's focus is directed to new content added to the page

If new content, such as a dialog, is added to the page, the user's focus is directed to it. [Learn how to direct focus to new content](#).

- HTML5 landmark elements are used to improve navigation

Landmark elements (<main>, <nav>, etc.) are used to improve the keyboard navigation of the page for assistive technology. [Learn more about landmark elements](#).

- Offscreen content is hidden from assistive technology

Offscreen content is hidden with display: none or aria-hidden=true. [Learn how to properly hide offscreen content](#).

- Custom controls have associated labels

Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. [Learn more about custom controls and labels](#).

- Custom controls have ARIA roles

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

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

## PASSED AUDITS (16)

Hide

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



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

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



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

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



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

### [aria-\*] attributes are valid and not misspelled



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

### 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 descendants



Focusable descendants within an [aria-hidden="true"] element prevent those interactive elements from being available to users of assistive technologies like screen readers. [Learn how aria-hidden affects focusable elements](#).

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.](#)

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.](#)

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.](#)

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.](#)

NOT APPLICABLE (42)

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

○ ARIA input fields have accessible names ^

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

○ ARIA **meter** elements have accessible names ^

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

○ ARIA **progressbar** elements have accessible names ^

When a progressbar element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. [Learn how to label progressbar elements.](#)

○ **[role]**s have all required **[aria-\*]** attributes ^

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

○ Elements with an ARIA **[role]** that require children to contain a specific **[role]** have all required children. ^

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

○ **[role]**s are contained by their required parent element ^

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

○ **[role]** values are valid ^

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

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

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

○ ARIA toggle fields have accessible names ^

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

○ ARIA `tooltip` elements have accessible names ^

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

○ ARIA `treeitem` elements have accessible names ^

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

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

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

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

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

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

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

○ `[id]` attributes on active, focusable elements are unique ^

All focusable elements must have a unique `id` to ensure that they're visible to assistive technologies. [Learn how to fix duplicate ids.](#)

○ ARIA IDs are unique ^

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

○ No form fields have multiple labels ^

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

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

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

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

If the webpage does not specify a consistent language, then the screen reader might not announce the page's text correctly. [Learn more about the lang attribute.](#)

○ Input buttons have discernible text. ^

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

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

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

○ 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.](#)

○ Links are distinguishable without relying on color. ^

Low-contrast text is difficult or impossible for many users to read. Link text that is discernible improves the experience for users with low vision. [Learn how to make links distinguishable.](#)

○ Lists contain only <li> elements and script supporting elements (<script> and <template>). ^

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

○ List items (<li>) are contained within <ul>, <ol> or <menu> parent elements ^

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

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

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

- `<object>` elements have alternate text

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

- Select elements have associated label elements.

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

- 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. [Learn more about the tabindex attribute](#).

- Tables have different content in the summary attribute and `<caption>`.

The summary attribute should describe the table structure, while `<caption>` should have the onscreen title. Accurate table mark-up helps users of screen readers. [Learn more about summary and caption](#).

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

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

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

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

- Cells in a `<table>` element that use the `[headers]` attribute refer to table cells within the same table.

Screen readers have features to make navigating tables easier. Ensuring `<td>` cells using the `[headers]` attribute only refer to other cells in the same table may improve the experience for screen reader users. [Learn more about the headers attribute](#).

- <th> elements and elements with [role="columnheader"/"rowheader"] have data cells they describe. ^

Screen readers have features to make navigating tables easier. Ensuring table headers always refer to some set of cells may improve the experience for screen reader users. [Learn more about table headers.](#)

- [lang] attributes have a valid value ^

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

- <video> elements contain a <track> element with [kind="captions"] ^

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

- All heading elements contain content. ^

A heading with no content or inaccessible text prevent screen reader users from accessing information on the page's structure. [Learn more about headings.](#)

- 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.](#)



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## Best Practices

### GENERAL

- ▲ Browser errors were 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](#)

| Source  | Description                                                                       |
|---------|-----------------------------------------------------------------------------------|
| Heroku  | <span>Other</span> <span>1st Party</span>                                         |
| user/:1 | Failed to load resource: the server responded with a status of 401 (Unauthorized) |

| Source                                         | Description                                                                          |
|------------------------------------------------|--------------------------------------------------------------------------------------|
| sonic-explorers-api-...<br>th/token/refresh/:1 | Failed to load resource: the server responded with a status of 401<br>(Unauthorized) |
| user/:1                                        | Failed to load resource: the server responded with a status of 401<br>(Unauthorized) |

#### Detected JavaScript libraries

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

| Name             | Version |
|------------------|---------|
| Leaflet          | 1.9.4   |
| Create React App |         |

## 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

#### Uses HTTPS

All sites should be protected with HTTPS, even ones that don't handle sensitive data. This includes avoiding [mixed content](#), where some resources are loaded over HTTP despite the initial request being served over HTTPS. HTTPS prevents intruders from tampering with or passively listening in on the communications between your app and your users, and is a prerequisite for HTTP/2 and many new web platform APIs. [Learn more about HTTPS](#).

#### Avoids deprecated APIs

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

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

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-e821805686e9.herokuapp.com)

...js/main.c74bf159.js.map (sonic-explorers-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)

Hide

Structured data is valid

^

Run the [Structured Data Testing Tool](#) and the [Structured Data Linter](#) to validate structured data. [Learn more about Structured Data](#).

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

## PASSED AUDITS (11)

Hide

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

A `<meta name="viewport">` not only optimizes your app for mobile screen sizes, but also prevents a [300 millisecond delay to user input](#). [Learn more about using the viewport meta tag](#). [TBT]

Document has a `<title>` element

The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. [Learn more about document titles](#).

## 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](#).

### 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)

Hide

### 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 ≥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. [Learn more about tap targets](#).



## PWA

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

## INSTALLABLE

### ⚠ Web app manifest or service worker do not meet the installability requirements — 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](#).

#### 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

#### ▲ Is not configured for a custom splash screen Failures: Manifest does not have a PNG icon of at least 512px.

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.](#)

#### ○ Page transitions don't feel like they block on the network

Transitions should feel snappy as you tap around, even on a slow network. This experience is key to a user's perception of performance. [Learn more about page transitions.](#)

Each page has a URL ^

Ensure individual pages are deep linkable via URL and that URLs are unique for the purpose of shareability on social media.  
[Learn more about providing deep links.](#)

These checks are required by the baseline [PWA Checklist](#) but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

Captured at Nov 7, 2023, 12:17

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](#)