





There were issues affecting this run of Lighthouse:

• Chrome extensions negatively affected this page's load performance. Try auditing the page in incognito mode or from a Chrome profile without extensions.



Performance

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

▲ 0-49 50-89 90-100



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METRICS Expand view

▲ First Contentful Paint

3.6 s

Total Blocking Time

80 ms

Speed Index

3.6 s

▲ Largest Contentful Paint

15.5 s

Cumulative Layout Shift

0.01

View Treemap





















Later this year, insights will replace performance audits. Learn more and provide feedback

here.

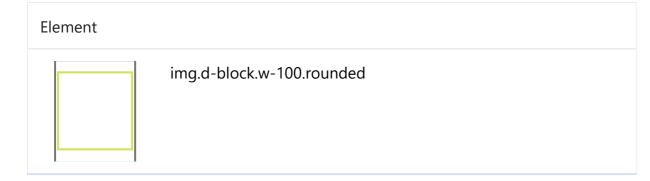
Try insights

Show audits relevant to: All <u>FCP LCP TBT CLS</u>

DIAGNOSTICS

▲ Largest Contentful Paint element — 15,470 ms

This is the largest contentful element painted within the viewport. <u>Learn more about the Largest Contentful Paint element</u> <u>LCP</u>



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Phase	% of LCP	Timing
TTFB	3%	450 ms
Load Delay	7%	1,020 ms
Load Time	12%	1,880 ms
Render Delay	78%	12,110 ms

▲ Enable text compression — Est savings of 1,445 KiB

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

URL	Transfer Size	Est Savings
localhost 1st Party	1,772.7 KiB	1,444.5 KiB
/@vite/client (localhost)	280.8 KiB	229.2 KiB
ui-library/icons.js?v=c016cbe6 (localhost)	271.1 KiB	226.4 KiB
deps/astroaria-query.js?v=c016cbe6 (localhost)	200.5 KiB	184.4 KiB
deps/astroaxobject-query.js?v=c016cbe6 (localhost)	109.9 KiB	100.8 KiB
rules/a11y.js?v=c016cbe6 (localhost)	119.3 KiB	95.9 KiB
apps/astro.js?v=c016cbe6 (localhost)	106.5 KiB	84.5 KiB
dev-toolbar/toolbar.js?v=c016cbe6 (localhost)	84.3 KiB	67.7 KiB
dev-toolbar/entrypoint.js?v=c016cbe6 (localhost)	51.2 KiB	41.0 KiB
ui/audit-list-window.js?v=c016cbe6 (localhost)	50.8 KiB	40.2 KiB
audit/index.js?v=c016cbe6 (localhost)	36.8 KiB	29.1 KiB
scripts/script.js (localhost)	36.8 KiB	27.9 KiB
apps/settings.js?v=c016cbe6 (localhost)	34.2 KiB	26.7 KiB
apps/xray.js?v=c016cbe6 (localhost)	30.3 KiB	23.1 KiB

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URL	Transfer Size	Est Savings
ui/audit-ui.js?v=c016cbe6 (localhost)	27.4 KiB	20.2 KiB
ui-library/button.js?v=c016cbe6 (localhost)	24.6 KiB	19.2 KiB
rules/perf.js?v=c016cbe6 (localhost)	22.7 KiB	18.2 KiB
ui-library/tooltip.js?v=c016cbe6 (localhost)	22.5 KiB	16.7 KiB
ui-library/highlight.js?v=c016cbe6 (localhost)	21.2 KiB	16.1 KiB
ui-library/card.js?v=c016cbe6 (localhost)	19.4 KiB	14.7 KiB
http://localhost:4321	17.7 KiB	14.4 KiB
ui-library/toggle.js?v=c016cbe6 (localhost)	18.6 KiB	14.1 KiB
ui-library/window.js?v=c016cbe6 (localhost)	18.8 KiB	14.0 KiB
ui-library/select.js?v=c016cbe6 (localhost)	17.7 KiB	13.4 KiB
ui/audit-list-item.js?v=c016cbe6 (localhost)	16.3 KiB	12.1 KiB
ui-library/badge.js?v=c016cbe6 (localhost)	16.1 KiB	12.0 KiB
ui-library/radio-checkbox.js?v=c016cbe6 (localhost)	15.9 KiB	11.9 KiB
dev-toolbar/helpers.js?v=c016cbe6 (localhost)	13.9 KiB	10.3 KiB
esm/index.js?v=c016cbe6 (localhost)	12.6 KiB	8.6 KiB
utils/highlight.js?v=c016cbe6 (localhost)	11.5 KiB	8.2 KiB
/@id/_x00_astro:toolbar:internal (localhost)	8.7 KiB	6.4 KiB
/style.css (localhost)	8.2 KiB	5.7 KiB
utils/window.js?v=c016cbe6 (localhost)	7.4 KiB	5.1 KiB
ui-library/index.js?v=c016cbe6 (localhost)	6.4 KiB	5.0 KiB
rules/index.js?v=c016cbe6 (localhost)	6.9 KiB	4.6 KiB
dev-toolbar/settings.js?v=c016cbe6 (localhost)	6.5 KiB	4.4 KiB

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URL	Transfer Size	Est Savings
utils/icons.js?v=c016cbe6 (localhost)	5.5 KiB	3.7 KiB
ui-library/icon.js?v=c016cbe6 (localhost)	5.5 KiB	3.6 KiB
client/env.mjs (localhost)	4.3 KiB	2.8 KiB
audit/annotations.js?v=c016cbe6 (localhost)	3.8 KiB	2.3 KiB

▲ Minify JavaScript — Est savings of 1,654 KiB

Minifying JavaScript files can reduce payload sizes and script parse time. <u>Learn how to minify JavaScript</u>. FCP <u>LCP</u>

Show 3rd-party resources (2)

	Show starp	arty resources (2)
URL	Transfer Size	Est Savings
localhost 1st Party	1,746.7 KiB	1,313.9 KiB
/@vite/client (localhost)	280.8 KiB	240.7 KiB
ui-library/icons.js?v=c016cbe6 (localhost)	271.1 KiB	223.9 KiB
rules/a11y.js?v=c016cbe6 (localhost)	119.3 KiB	101.4 KiB
apps/astro.js?v=c016cbe6 (localhost)	106.5 KiB	88.7 KiB
dev-toolbar/toolbar.js?v=c016cbe6 (localhost)	84.3 KiB	71.4 KiB
deps/astroaria-query.js?v=c016cbe6 (localhost)	200.5 KiB	62.7 KiB
dev-toolbar/entrypoint.js?v=c016cbe6 (localhost)	51.2 KiB	43.3 KiB
ui/audit-list-window.js?v=c016cbe6 (localhost)	50.8 KiB	42.7 KiB
deps/astroaxobject-query.js?v=c016cbe6 (localhost)	109.9 KiB	35.6 KiB
scripts/script.js (localhost)	36.8 KiB	32.8 KiB
audit/index.js?v=c016cbe6 (localhost)	36.8 KiB	31.9 KiB
apps/settings.js?v=c016cbe6 (localhost)	34.2 KiB	29.1 KiB
apps/xray.js?v=c016cbe6 (localhost)	30.3 KiB	25.8 KiB

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URL	Transfer Size	Est Savings
ui/audit-ui.js?v=c016cbe6 (localhost)	27.4 KiB	22.6 KiB
ui-library/button.js?v=c016cbe6 (localhost)	24.6 KiB	20.7 KiB
rules/perf.js?v=c016cbe6 (localhost)	22.7 KiB	19.2 KiB
ui-library/tooltip.js?v=c016cbe6 (localhost)	22.5 KiB	18.9 KiB
ui-library/highlight.js?v=c016cbe6 (localhost)	21.2 KiB	17.8 KiB
ui-library/card.js?v=c016cbe6 (localhost)	19.4 KiB	16.4 KiB
ui-library/window.js?v=c016cbe6 (localhost)	18.8 KiB	15.9 KiB
ui-library/toggle.js?v=c016cbe6 (localhost)	18.6 KiB	15.6 KiB
ui-library/select.js?v=c016cbe6 (localhost)	17.7 KiB	14.9 KiB
ui-library/badge.js?v=c016cbe6 (localhost)	16.1 KiB	13.6 KiB
ui/audit-list-item.js?v=c016cbe6 (localhost)	16.3 KiB	13.6 KiB
ui-library/radio-checkbox.js?v=c016cbe6 (localhost)	15.9 KiB	13.4 KiB
dev-toolbar/helpers.js?v=c016cbe6 (localhost)	13.9 KiB	12.9 KiB
esm/index.js?v=c016cbe6 (localhost)	12.6 KiB	12.2 KiB
utils/highlight.js?v=c016cbe6 (localhost)	11.5 KiB	9.7 KiB
/@id/_x00_astro:toolbar:internal (localhost)	8.7 KiB	7.7 KiB
utils/window.js?v=c016cbe6 (localhost)	7.4 KiB	6.2 KiB
rules/index.js?v=c016cbe6 (localhost)	6.9 KiB	5.8 KiB
dev-toolbar/settings.js?v=c016cbe6 (localhost)	6.5 KiB	5.6 KiB
ui-library/index.js?v=c016cbe6 (localhost)	6.4 KiB	5.1 KiB
ui-library/icon.js?v=c016cbe6 (localhost)	5.5 KiB	4.7 KiB
utils/icons.js?v=c016cbe6 (localhost)	5.5 KiB	4.6 KiB

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URL	Transfer Size	Est Savings
client/env.mjs (localhost)	4.3 KiB	3.7 KiB
audit/annotations.js?v=c016cbe6 (localhost)	3.8 KiB	3.1 KiB
Screenshot & Screen Recorder Tool Chrome Extension	803.3 KiB	240.3 KiB
chrome-extension://ijejnggjjphlenbhmjhhgcdpehhacaal/js/webcam.js	803.3 KiB	240.3 KiB
Unattributable	206.7 KiB	54.2 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.json-edit-fetch-response.js</pre>	11.0 KiB	4.5 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.prevent-xhr.js</pre>	10.4 KiB	2.8 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.trusted-replace-argument.js</pre>	9.7 KiB	2.8 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.trusted-set-constant.js</pre>	7.2 KiB	2.7 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/easypr ivacy.set-constant.js</pre>	6.6 KiB	2.7 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.href-sanitizer.js</pre>	8.9 KiB	2.7 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.json-prune-fetch-response.js</pre>	8.0 KiB	2.7 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.prevent-fetch.js</pre>	11.0 KiB	2.6 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.trusted-suppress-native-method.js</pre>	6.7 KiB	2.4 KiB

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URL	Transfer Size	Est Savings
chrome-extension://pfkofdhiaclpognkfgkoeipepalkgfal/contentScript.js	6.4 KiB	2.4 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.addEventListener-defuser.js</pre>	18.2 KiB	2.3 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.json-prune.js</pre>	8.3 KiB	2.3 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.trusted-click-element.js</pre>	5.9 KiB	2.3 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.prevent-window-open.js</pre>	15.9 KiB	2.3 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.xml-prune.js</pre>	6.2 KiB	2.2 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.trusted-override-element-method.js</pre>	5.6 KiB	2.2 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.prevent-setInterval.js</pre>	7.0 KiB	2.1 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.prevent-setTimeout.js</pre>	18.7 KiB	2.1 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.trusted-replace-node-text.js</pre>	16.4 KiB	2.0 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/easypr ivacy.remove-node-text.js</pre>	6.3 KiB	2.0 KiB
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.trusted-replace-outbound-text.js</pre>	6.5 KiB	2.0 KiB

URL	Transfer Size	Est Savings
<pre>chrome- extension://ddkjiahejlhfcafbddmgiahcphecmpfh/rulesets/scripting/scriptlet/ublock -filters.set-cookie.js</pre>	5.9 KiB	2.0 KiB
Adobe Acrobat: PDF edit, convert, sign tools Chrome Extension	91.8 KiB	45.5 KiB
<pre>chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/libs/readability.js</pre>	91.8 KiB	45.5 KiB

▲ Eliminate render-blocking resources — Est savings of 300 ms

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

✓ Show 3rd-party resources (1)

URL	Transfer Size	Est Savings
JSDelivr CDN Cdn	32.5 KiB	1,060 ms
css/bootstrap.min.css (cdn.jsdelivr.net)	32.5 KiB	1,060 ms
localhost 1st Party	8.5 KiB	150 ms
/style.css (localhost)	8.5 KiB	150 ms

▲ Reduce unused JavaScript — Est savings of 757 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>. FCP LCP

✓ Show 3rd-party resources (4)

URL	Transfer Size	Est Savings
Screenshot & Screen Recorder Tool Chrome Extension	1,040.3 KiB	643.7 KiB
<pre>chrome-extension://ijejnggjjphlenbhmjhhgcdpehhacaal/js/webcam.js</pre>	803.3 KiB	474.7 KiB
<pre>chrome-extension://ijejnggjjphlenbhmjhhgcdpehhacaal/js/video-recorder-content.js</pre>	237.0 KiB	169.1 KiB
Adobe Acrobat: PDF edit, convert, sign tools Chrome Extension	119.7 KiB	91.9 KiB

URL	Transfer Size	Est Savings
<pre>chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/libs/readability.js</pre>	91.8 KiB	71.3 KiB
Readability.js	81.6 KiB	65.7 KiB
Readability-readerable.js	3.6 KiB	0.5 KiB
chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/libs/jquery-3.1.1.min.js	27.9 KiB	20.6 KiB
localhost 1st Party	280.8 KiB	21.2 KiB
/@vite/client (localhost)	280.8 KiB	21.2 KiB
	49.7 KiB	21.2 KiB

▲ Reduce JavaScript execution time — 2.2 s

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

Show 3rd-party resources (2)

URL	Total CPU Time	Script Evaluation	Script Parse
localhost 1st Party	2,205 ms	783 ms	592 ms
http://localhost:4321	1,974 ms	628 ms	592 ms
dev-toolbar/toolbar.js?v=c016cbe6 (localhost)	166 ms	99 ms	0 ms
dev-toolbar/entrypoint.js?v=c016cbe6 (localhost)	65 ms	55 ms	0 ms
Unattributable	984 ms	285 ms	0 ms
Unattributable	757 ms	86 ms	0 ms
<pre>chrome- extension://pfkofdhiaclpognkfgkoeipepalkgfal/contentScript.js</pre>	228 ms	199 ms	0 ms
Screenshot & Screen Recorder Tool Chrome Extension	607 ms	115 ms	436 ms
chrome-extension://ijejnggjjphlenbhmjhhgcdpehhacaal/js/webcam.js	438 ms	49 ms	389 ms

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URL	Total CPU Time	Script Evaluation	Script Parse	
<pre>chrome-extension://ijejnggjjphlenbhmjhhgcdpehhacaal/js/content- script.js</pre>	169 ms	66 ms	47 ms	

▲ Minimize main-thread work — 4.2 s

Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this. <u>Learn how to minimize main-thread work</u> TBT

Category	Time Spent
Script Evaluation	1,379 ms
Other	1,242 ms
Script Parsing & Compilation	1,055 ms
Style & Layout	233 ms
Parse HTML & CSS	216 ms
Rendering	65 ms

▲ Serve images in next-gen formats — Est savings of 1,085 KiB

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

	URL	Resource Size	Est Savings
localhost 1st Party		1,538.8 KiB	1,085.1 KiB
img.card-img-top	/images/events.jpg (localhost)	604.4 KiB	483.9 KiB

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	URL	Resource Size	Est Savings
img.card-img-top	/images/transport.jpg (localhost)	354.0 KiB	291.9 KiB
img.card-img-top	/images/history.jpeg (localhost)	225.6 KiB	190.8 KiB
img.d-block.w-100.rounded	/images/DHome03.jpg (localhost)	125.4 KiB	49.4 KiB
img.d-block.w-100.rounded	/images/DHome01.jpg (localhost)	134.4 KiB	36.5 KiB
section.fixedImageSection.my-5	/images/fixedImage.jpg (localhost)	95.1 KiB	32.6 KiB

▲ Efficiently encode images — Est savings of 729 KiB

Optimized images load faster and consume less cellular data. <u>Learn how to efficiently encode images</u>. FCP LCP

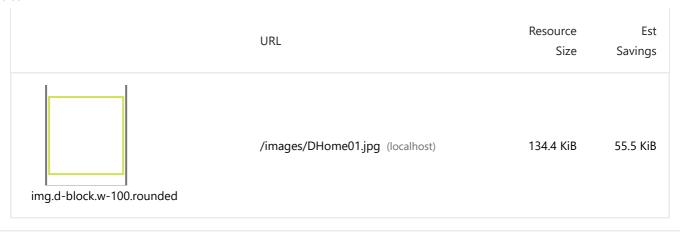
	URL	Resource Size	Est Savings
localhost 1st Party		1,183.9 KiB	729.4 KiB
img.card-img-top	/images/events.jpg (localhost)	604.4 KiB	371.8 KiB

	URL	Resource Size	Est Savings
img.card-img-top	/images/transport.jpg (localhost)	354.0 KiB	215.2 KiB
img.card-img-top	/images/history.jpeg (localhost)	225.6 KiB	142.4 KiB

▲ Properly size images — Est savings of 567 KiB

Serve images that are appropriately-sized to save cellular data and improve load time. Learn how to size images. FCP LCP

	URL	Resource Size	Es Savings
localhost 1st Party		1,318.3 KiB	567.2 KiE
img.card-img-top	/images/events.jpg (localhost)	604.4 KiB	261.2 KiE
img.card-img-top	/images/transport.jpg (localhost)	354.0 KiB	153.0 Kil
img.card-img-top	/images/history.jpeg (localhost)	225.6 KiB	97.5 Kil



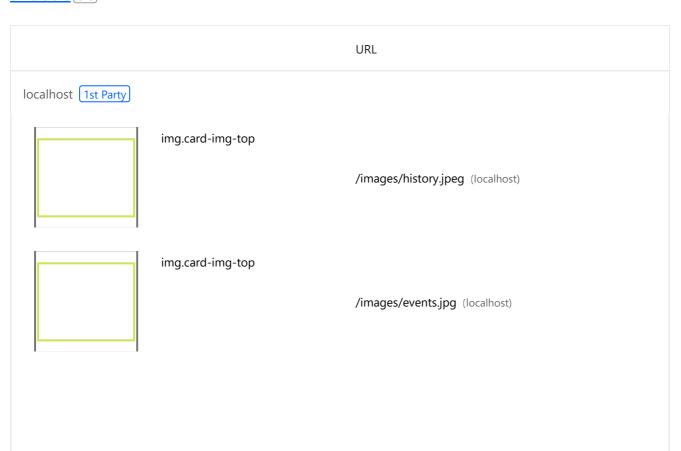
▲ Page prevented back/forward cache restoration — 1 failure reason

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. <u>Learn more about the bfcache</u>

Failure reason	Failure type
Pages with WebSocket cannot enter back/forward cache.	Pending browser support
http://localhost:4321	

Image elements do not have explicit width and height

Set an explicit width and height on image elements to reduce layout shifts and improve CLS. <u>Learn how to set image</u> <u>dimensions</u> (CLS)



img.card-img-top
/images/transport.jpg (localhost)

Minify CSS — Est savings of 3 KiB

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

URL	Transfer Size	Est Savings
localhost (1st Party)	8.5 KiB	3.5 KiB
/style.css (localhost)	8.5 KiB	3.5 KiB

Serve static assets with an efficient cache policy — 2 resources found

A long cache lifetime can speed up repeat visits to your page. Learn more about efficient cache policies.

✓ Show 3rd-party resources (1)

URL	Cache TTL	Transfer Size
localhost 1st Party		18 KiB
http://localhost:4321	None	18 KiB
openweathermap.org		2 KiB
wn/04n@2x.png (openweathermap.org)	7d	2 KiB

Avoid serving legacy JavaScript to modern browsers — Est savings of 12 KiB

Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't necessary for modern browsers. Consider modifying your JavaScript build process to not transpile <u>Baseline</u> features, unless you know you must support legacy browsers. <u>Learn why most sites can deploy ES6+ code without transpiling FCP LCP</u>

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URL		Est Savings
Screenshot & Screen Recorder Tool Chrome Extension		11.6 KiB
chrome-extension://ijejnggjjphlenbhmjhhgcdpehhacaal/js/webcam.js		11.3 KiB
webcam.js:285	<pre>@babel/plugin- transform-classes</pre>	
webcam.js:359	<pre>@babel/plugin- transform-regenerator</pre>	
webcam.js:2657	Array.from	
<pre>chrome-extension://ijejnggjjphlenbhmjhhgcdpehhacaal/js/video- recorder-content.js</pre>		0.3 KiB
video-recorder-content.js:15	<pre>@babel/plugin- transform-classes</pre>	

Reduce unused CSS — Est savings of 230 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

URL	Transfer Size	Est Savings
<pre>.app-drawing-canvas{pointer- events:none;cursor:default;position:absolute;top:0;left:0}</pre>	115.8 KiB	115.7 KiB
<pre>.app-select-area[data-v-3213e954]{border:0px solid var(border- color);position:fixed;top:100px; }</pre>	57.3 KiB	57.3 KiB
<pre>button.btn[data-v-2b23e28f]{display:inline-block;font-weight:300;line- height:1.25;text-align:center; }</pre>	56.7 KiB	56.6 KiB

Avoid enormous network payloads — Total size was 4,196 KiB

Large network payloads cost users real money and are highly correlated with long load times. <u>Learn how to reduce payload sizes</u>.

URL	Transfer Size
localhost 1st Party	3,105.6 КіВ

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URL	Transfer Size
/images/DHome02.webp (localhost)	787.7 KiB
/images/events.jpg (localhost)	604.6 KiB
/images/transport.jpg (localhost)	354.2 KiB
/@vite/client (localhost)	281.1 KiB
ui-library/icons.js?v=c016cbe6 (localhost)	271.4 KiB
/images/history.jpeg (localhost)	225.8 KiB
deps/astroaria-query.js?v=c016cbe6 (localhost)	200.8 KiB
/images/DHome01.jpg (localhost)	134.6 KiB
/images/DHome03.jpg (localhost)	125.6 KiB
rules/a11y.js?v=c016cbe6 (localhost)	119.6 KiB

O Avoid long main-thread tasks — 11 long tasks found

Lists the longest tasks on the main thread, useful for identifying worst contributors to input delay. <u>Learn how to avoid long main-thread tasks</u> (TBT)

Show 3rd-party resources (1)

URL	Start Time	Duration
localhost 1st Party		1,683 ms
http://localhost:4321	810 ms	916 ms
http://localhost:4321	2,557 ms	209 ms
http://localhost:4321	2,829 ms	183 ms
dev-toolbar/toolbar.js?v=c016cbe6 (localhost)	15,936 ms	164 ms
utils/window.js?v=c016cbe6 (localhost)	22,386 ms	95 ms
http://localhost:4321	1,753 ms	60 ms
http://localhost:4321	754 ms	56 ms

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URL	Start Time	Duration
Screenshot & Screen Recorder Tool Chrome Extension		607 ms
<pre>chrome-extension://ijejnggjjphlenbhmjhhgcdpehhacaal/js/content-script.js</pre>	1,894 ms	607 ms
Unattributable		179 ms
Unattributable	1,821 ms	73 ms
Unattributable	2,501 ms	56 ms
chrome-extension://pfkofdhiaclpognkfgkoeipepalkgfal/contentScript.js	3,083 ms	50 ms

Avoid large layout shifts — 1 layout shift found

These are the largest layout shifts observed on the page. Each table item represents a single layout shift, and shows the element that shifted the most. Below each item are possible root causes that led to the layout shift. Some of these layout shifts may not be included in the CLS metric value due to <u>windowing</u>. <u>Learn how to improve CLS (CLS)</u>

Element		Layout shift score
	button#themeToggle.btn.btn-outline-secondary.ms-2	0.010

O Avoid non-composited animations — 1 animated element found

Animations which are not composited can be janky and increase CLS. Learn how to avoid non-composited animations CLS

Element	Name
html	
Unsupported CSS Property: background-color	background-color
Filter-related property may move pixels	filter

O Avoid chaining critical requests — 29 chains found

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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.

```
Maximum critical path latency: 897.316 ms
Initial Navigation
         http://localhost:4321
             ...css/bootstrap.min.css (cdn.jsdelivr.net) - 16.768 ms, 32.52 KiB
             /style.css (localhost) - 13.686 ms, 8.46 KiB
             /@vite/client (localhost)
                  ...client/env.mjs (localhost) - 2.357 ms, 4.56 KiB
             ...dev-toolbar/entrypoint.js?v=c016cbe6 (localhost)
                  /@id/_x00_astro:toolbar:internal (localhost) - 7.005 ms, 9.03 KiB
                  ...dev-toolbar/helpers.js?v=c016cbe6 (localhost) - 7.021 ms, 14.23 KiB
                  ...dev-toolbar/settings.js?v=c016cbe6 (localhost) - 16.21 ms, 6.79 KiB
             ...pages/index.astro?astro&type=script&index=0&lang.ts (localhost)
                  ...scripts/script.js (localhost)
                      ...apps/astro.js?v=c016cbe6 (localhost)
                           ...ui-library/icons.js?v=c016cbe6 (localhost) - 16.263 ms, 271.38 KiB
                           ...utils/icons.js?v=c016cbe6 (localhost) - 17.331 ms, 5.82 KiB
                           ...utils/window.js?v=c016cbe6 (localhost) - 18.32 ms, 7.72 KiB
                      ...audit/index.js?v=c016cbe6 (localhost)
                           ...utils/highlight.js?v=c016cbe6 (localhost) - 17.479 ms, 11.78 KiB
                           ...audit/annotations.js?v=c016cbe6 (localhost) - 15.523 ms, 4.07 KiB
                           ...rules/index.js?v=c016cbe6 (localhost)
                                ...rules/a11y.js?v=c016cbe6 (localhost)
                                     ...deps/astro___aria-query.js?v=c016cbe6 (localhost)
                                         ...deps/chunk-BUSYA2B4.js?v=c016cbe6 (localhost) - 7.491 ms, 1.67 KiB
                                     ...deps/astro__axobject-query.js?v=c016cbe6 (localhost) - 20.161 ms, 110.20 KiB
                                ...rules/perf.js?v=c016cbe6 (localhost) - 7.331 ms, 23.04 KiB
                           ...ui/audit-list-item.js?v=c016cbe6 (localhost) - 18.391 ms, 16.65 KiB
                           ...ui/audit-list-window.js?v=c016cbe6 (localhost) - 26.493 ms, 51.10 KiB
                           ...ui/audit-ui.js?v=c016cbe6 (localhost) - 27.128 ms, 27.66 KiB
                      ...apps/xray.js?v=c016cbe6 (localhost)
                           ...esm/index.js?v=c016cbe6 (localhost) - 27.545 ms, 12.90 KiB
                      ...apps/settings.js?v=c016cbe6 (localhost)
                           ...ui-library/window.js?v=c016cbe6 (localhost) - 13.844 ms, 19.13 KiB
```

...ui-library/button.js?v=c016cbe6 (localhost) - **32.245 ms**, 24.91 KiB about:blank

...ui-library/badge.js?v=c016cbe6 (localhost) - 28.855 ms, 16.40 KiB

...dev-toolbar/toolbar.js?v=c016cbe6 (localhost) - 29.11 ms, 84.61 KiB

...ui-library/index.js?v=c016cbe6 (localhost)

```
...ui-library/card.js?v=c016cbe6 (localhost) - 34.568 ms, 19.68 KiB
...ui-library/highlight.js?v=c016cbe6 (localhost) - 35.871 ms, 21.45 KiB
...ui-library/icon.js?v=c016cbe6 (localhost) - 36.462 ms, 5.83 KiB
...ui-library/radio-checkbox.js?v=c016cbe6 (localhost) - 37.696 ms, 16.25 KiB
...ui-library/select.js?v=c016cbe6 (localhost) - 37.84 ms, 18.02 KiB
...ui-library/toggle.js?v=c016cbe6 (localhost) - 40.92 ms, 18.87 KiB
...ui-library/tooltip.js?v=c016cbe6 (localhost) - 41.122 ms, 22.84 KiB
```

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. <u>Learn how to minimize third-party impact</u>. <u>TBT</u>

Third-Party	Transfer Size	Main-Thread Blocking Time
Screenshot & Screen Recorder Tool Chrome Extension	867 KiB	0 ms
<pre>chrome-extension://ijejnggjjphlenbhmjhhgcdpehhacaal/assets/video-recorder- content.css</pre>	579 KiB	0 ms
chrome-extension://ijejnggjjphlenbhmjhhgcdpehhacaal/assets/webcam.css	287 KiB	0 ms
chrome-extension://ijejnggjjphlenbhmjhhgcdpehhacaal/js/audio-devices.js	1 KiB	0 ms
chrome-extension://ijejnggjjphlenbhmjhhgcdpehhacaal/audio-devices.html	0 KiB	0 ms
Adobe Acrobat: PDF edit, convert, sign tools Chrome Extension	109 KiB	0 ms
chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/libs/readability.js	92 KiB	0 ms
<pre>chrome- extension://efaidnbmnnnibpcajpcglclefindmkaj/content_scripts/express/express -fte.js</pre>	7 KiB	0 ms
<pre>chrome- extension://efaidnbmnnnibpcajpcglclefindmkaj/content_scripts/gsuite/fte- utils.js</pre>	4 KiB	0 ms
chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/common/local-storage.js	2 KiB	0 ms
<pre>chrome- extension://efaidnbmnnnibpcajpcglclefindmkaj/resources/SidePanel/sidePanelUt il.js</pre>	2 KiB	0 ms
<pre>chrome- extension://efaidnbmnnnibpcajpcglclefindmkaj/content_scripts/express/express -utils.js</pre>	2 KiB	0 ms
JSDelivr CDN Cdn	56 KiB	0 ms
css/bootstrap.min.css (cdn.jsdelivr.net)	33 KiB	0 ms
js/bootstrap.bundle.min.js (cdn.jsdelivr.net)	24 KiB	0 ms

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Third-Party	Transfer Size	Main-Thread Blocking Time
openweathermap.org	3 KiB	0 ms
wn/04n@2x.png (openweathermap.org)	2 KiB	0 ms
2.5/weather? q=Dunshaughlin,IE&units=metric&appid=0455b4a (api.openweathermap.org)	1 KiB	0 ms

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

SSED AUDITS (16)	Hid
Defer offscreen images	^
Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lowe interactive. Learn how to defer offscreen images. FCP LCP	er time to
Preconnect to required origins	^
Consider adding preconnect or dns-prefetch resource hints to establish early connections to important origins. Learn how to preconnect to required origins. LCP FCP	third-party
Initial server response time was short — Root document took 10 ms	^
Keep the server response time for the main document short because all other requests depend on it. <u>Learn Time to First Byte metric</u> . FCP <u>LCP</u>	n more about the
URL	Time Spent
localhost 1st Party	10 ms
http://localhost:4321	10 ms
Avoid multiple page redirects	^
Redirects introduce additional delays before the page can be loaded. <u>Learn how to avoid page redirects</u> . <u>[</u>	CP FCP
Use HTTP/2	^
HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. <u>Learn more about</u> FCP	HTTP/2. LCP
Use video formats for animated content	^

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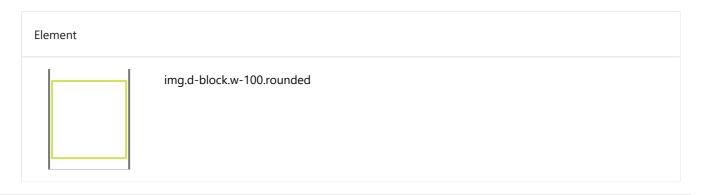
Large GIFs are inefficient for delivering animated content. Consider using MPEG4/WebM videos for animatic	ns an	ıd
PNG/WebP for static images instead of GIF to save network bytes. <u>Learn more about efficient video formats</u>	FCP	LCP

Remove duplicate modules in JavaScript bundles		^
Remove large, duplicate JavaScript modules from bundles	to reduce unnecessary bytes consumed b	by network activity. FCP
Preload Largest Contentful Paint image		^
If the LCP element is dynamically added to the page, you s about preloading LCP elements. LCP	should preload the image in order to imp	rove LCP. <u>Learn more</u>
Avoids an excessive DOM size — 524 elements		^
A large DOM will increase memory usage, cause longer <u>sty</u> avoid an excessive DOM size. (TBT)	<u>rle calculations</u> , and produce costly <u>layou</u>	t reflows. <u>Learn how to</u>
Statistic	Element	Value
Total DOM Elements		524
Maximum DOM Depth	path	12
Maximum Child Elements	filter#g	25
User Timing marks and measures		^
Osci filming marks and measures		
Consider instrumenting your app with the User Timing API experiences. <u>Learn more about User Timing marks</u> .	to measure your app's real-world perfor	mance during key user
All text remains visible during webfont loads		^
Leverage the font-display CSS feature to ensure text is udisplay.	user-visible while webfonts are loading. <u>L</u>	earn more about font-
Lazy load third-party resources with facades		^
Some third-party embeds can be lazy loaded. Consider reparties with a facade. (TBT)	placing them with a facade until they are	required. <u>Learn how to</u>
Largest Contentful Paint image was not lazily loaded		^

Above-the-fold images that are lazily loaded render later in the page lifecycle, which can delay the largest contentful paint.

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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. <u>Learn more about adopting passive event listeners</u>.

Avoids document.write()

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

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.



Accessibility

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

NAMES AND LABELS

▲ Buttons do not 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. <u>Learn how to make buttons more accessible</u>.

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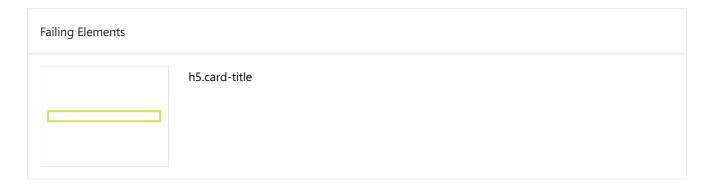
Failing Elements	
	button.navbar-toggler

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

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. <u>Learn more about heading order</u>.



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. <u>Learn how to make custom controls focusable.</u>

Interactive elements indicate their purpose and state

^

Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. <u>Learn how to decorate interactive elements with affordance hints</u>.

The page has a logical tab order

^

Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. <u>Learn more about logical tab ordering</u>.

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O Visual order on the page follows DOM order	^
DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more about DOM and visordering</u> .	<u>ual</u>
User focus is not accidentally trapped in a region	^
A user can tab into and out of any control or region without accidentally trapping their focus. <u>Learn how to avoid for traps.</u>	<u>cus</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 rontent</u> .	<u>new</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 tech Learn more about landmark elements.</nav></main>	inology.
Offscreen content is hidden from assistive technology	^
Offscreen content is hidden with display: none or aria-hidden=true. <u>Learn how to properly hide offscreen content</u> .	
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.	<u>om</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 accertication.	<u>essibility</u>
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 how to match ARIA attributes to their roles.	s. <u>Learn</u>
[aria-hidden="true"] is not present on the document <body></body>	^

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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. <u>Learn more about valid values</u> <u>for ARIA attributes</u>.

[aria-*] attributes are valid and not misspelled

Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. <u>Learn more about valid ARIA</u> attributes.

Image elements have [alt] attributes

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

[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. <u>Learn more about the viewport meta tag.</u>

ARIA attributes are used as specified for the element's role

Some ARIA attributes are only allowed on an element under certain conditions. <u>Learn more about conditional ARIA attributes</u>.

[aria-hidden="true"] elements do not contain focusable descendents

Focusable descendents within an [aria-hidden="true"] element prevent those interactive elements from being available to users of assistive technologies like screen readers. <u>Learn how aria-hidden affects focusable elements</u>.

Elements use only permitted ARIA attributes

Using ARIA attributes in roles where they are prohibited can mean that important information is not communicated to users of assistive technologies. <u>Learn more about prohibited ARIA roles</u>.

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

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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. <u>Learn more about document titles</u>.

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

<html> element has a valid value for its [lang] attribute

Specifying a valid <u>BCP 47 language</u> helps screen readers announce text properly. <u>Learn how to use the lang attribute</u>.

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. <u>Learn how to make links accessible</u>.

Touch targets have sufficient size and spacing.

Touch targets with sufficient size and spacing help users who may have difficulty targeting small controls to activate the targets. Learn more about touch targets.

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 (39)

[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 more about access keys</u>.

Uses ARIA roles only on compatible elements

Many HTML elements can only be assigned certain ARIA roles. Using ARIA roles where they are not allowed can interfere with the accessibility of the web page. Learn more about ARIA roles.

O button, link, and menuitem elements have accessible names

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users who rely on screen readers. Learn how to make command elements more accessible. Deprecated ARIA roles were not used Deprecated ARIA roles may not be processed correctly by assistive technology. Learn more about deprecated ARIA roles. 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. O [role] values are valid

When an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for

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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 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 unusabl for users who rely on screen readers. <u>Learn more about toggle fields</u> .	е
 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> .	
 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 bypablocks.</u>	<u>SS</u>
<dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements.</td><td>^</td></tr><tr><td>When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. <u>Learn how structure definition lists correctly.</u></td><td><u>/ to</u></td></tr><tr><td>O Definition list items are wrapped in <dl> elements</td><td>^</td></tr><tr><td>Definition list items (<dt> and <dd>) must be wrapped in a parent <dl> element to ensure that screen readers can prope announce them. Learn how to structure definition lists correctly.</td><td>rly</td></tr><tr><td>ARIA IDs are unique</td><td>^</td></tr><tr><td>The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. <u>Lear</u> how to fix duplicate ARIA IDs.</td><td><u>rn</u></td></tr></tbody></table></script></dd></dt></dl>	

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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 correct Learn more about the lang attribute.	ctly.
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.	ut
<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 t purpose of the button. Learn about input image alt text.	:he
O Form elements have associated labels	^
Labels ensure that form controls are announced properly by assistive technologies, like screen readers. <u>Learn more about form element labels</u> .	ţ
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.	r
 Lists contain only elements and script supporting elements (<script> and <template>). </td><td>^</td></tr><tr><td>Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. <u>Learn mo</u> <u>about proper list structure</u>.</td><td><u>ire</u></td></tr><tr><td>O List items (<1i>) are contained within , or <menu> parent elements</td><td>^</td></tr><tr><td>Screen readers require list items () to be contained within a parent , or <menu> to be announced properly. Learn more about proper list structure.</td><td></td></tr><tr><td>The document does not use <meta http-equiv="refresh"></td><td>^</td></tr></tbody></table></script>	

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Users do not expect a page to refresh automatically, and doing so will move focus back to the top of the page. This may create a frustrating or confusing experience. <u>Learn more about the refresh meta tag</u>.

O <object> elements have alternate text</object>	^
Screen readers cannot translate non-text content. Adding alternate text to <object> elements helps screen readers commeaning to users. Learn more about alt text for object elements.</object>	vey
Select elements have associated label elements.	^
Form elements without effective labels can create frustrating experiences for screen reader users. <u>Learn more about the select element</u> .	
O Skip links are focusable.	^
Including a skip link can help users skip to the main content to save time. Learn more about skip links.	
No element has a [tabindex] value greater than 0	^
A value greater than 0 implies an explicit navigation ordering. Although technically valid, this often creates frustrating experiences for users who rely on assistive technologies. <u>Learn more about the tabindex attribute</u> .	
 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. Accurate tall mark-up helps users of screen readers. Learn more about summary and caption.</caption>	ole
O Cells in a element that use the [headers] attribute refer to table cells within the same table.	^
Screen readers have features to make navigating tables easier. Ensuring cells using the [headers] attribute only reto other cells in the same table may improve the experience for screen reader users. Learn more about the headers attribute.	efer
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 make improve the experience for screen reader users. <u>Learn more about table headers</u> .	nay
O [lang] attributes have a valid value	^
Specifying a valid <u>BCP 47 language</u> on elements helps ensure that text is pronounced correctly by a screen reader. <u>Learn</u> how to use the <u>lang attribute</u> .	<u> </u>
	^

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When a video provides a caption it is easier for deaf and hearing impaired users to access its information. <u>Learn more about video captions</u>.



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
localhost 1st Party	
script.js:173	Error fetching weather: TypeError: Cannot read properties of null (reading 'appendChild') at fetchWeather (http://localhost:4321/src/scripts/script.js:171:24)
script.js:20	TypeError: Cannot read properties of null (reading 'addEventListener') at HTMLDocument. <anonymous> (http://localhost:4321/src/scripts/script.js:20:14)</anonymous>
script.js:174	TypeError: Cannot set properties of null (setting 'innerHTML') at fetchWeather (http://localhost:4321/src/scripts/script.js:174:34)

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. <u>Learn how to use a CSP to prevent XSS</u>

Description	Directive	Severity
No CSP found in enforcement mode		High

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Use a strong HSTS policy			/
Deployment of the HSTS header significant A rollout in stages, starting with a low max			ing attacks
Description	Directive	Severity	
No HSTS header found		High	
Ensure proper origin isolation with COO	P		
The Cross-Origin-Opener-Policy (COOP) caups. Learn more about deploying the COO		dow from other documents such	as pop-
Description	Directive	Severity	
No COOP header found		High	
Mitigate clickjacking with XFO or CSP			
The X-Frame-Options (XFO) header or the control where a page can be embedded. T embedding the page. Learn more about m	hese can mitigate clickjacking attacks k		
Description		Severity	
No frame control policy found		High	
SED AUDITS (14)			ŀ
Uses HTTPS			,
All sites should be protected with HTTPS, e where some resources are loaded over HT from tampering with or passively listening for HTTP/2 and many new web platform A	TP despite the initial request being ser in on the communications between yo	ved over HTTPS. HTTPS prevents	intruders
Avoids deprecated APIs			
Avoids deprecated APIs Deprecated APIs will eventually be remove	ed from the browser. <u>Learn more about</u>	deprecated APIs.	

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Third-party cookies may be blocked in some contexts. Learn more about preparing for third-party cookie restrictions.

Allows users to paste into input fields

Preventing input pasting is a bad practice for the UX, and weakens security by blocking password managers. <u>Learn more about user-friendly input fields</u>.

Avoids requesting the geolocation permission on page load

Users are mistrustful of or confused by sites that request their location without context. Consider tying the request to a user action instead. <u>Learn more about the geolocation permission</u>.

Avoids requesting the notification permission on page load

Users are mistrustful of or confused by sites that request to send notifications without context. Consider tying the request to user gestures instead. <u>Learn more about responsibly getting permission for notifications</u>.

Displays images with correct aspect ratio

Image display dimensions should match natural aspect ratio. 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. <u>Learn how to provide responsive images</u>.

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.

Document uses legible font sizes — 100% legible text

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.

Source	Selector	% of Page Text	Font Size
Legible text		100.00%	≥ 12px

Page has the HTML doctype

Specifying a doctype prevents the browser from switching to guirks-mode. Learn more about the doctype declaration.

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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. <u>Learn more about declaring the character encoding.</u>

No issues in the Issues panel in Chrome Devtools

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

Page has valid source maps

Source maps translate minified code to the original source code. This helps developers debug in production. In addition, Lighthouse is able to provide further insights. Consider deploying source maps to take advantage of these benefits. <u>Learn more about source maps</u>.

✓ Show 3rd-party resources (2)

URL Map URL JSDelivr CDN Cdn ...js/bootstrap.bundle.min.js (cdn.jsdelivr.net) js/bootstrap.bundle.min.js.map (cdn.jsdelivr.n localhost 1st Party ...scripts/script.js (localhost) ...pages/index.astro?astro&type=script&index=0&lang.ts (localhost) ...client/env.mjs (localhost) ...esm/index.js?v=c016cbe6 (localhost) ...ui-library/window.js?v=c016cbe6 (localhost) ...ui-library/tooltip.js?v=c016cbe6 (localhost) ...ui-library/toggle.js?v=c016cbe6 (localhost) ...ui-library/select.js?v=c016cbe6 (localhost) ...ui-library/radio-checkbox.js?v=c016cbe6 (localhost)

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URL Map URL ...ui-library/index.js?v=c016cbe6 (localhost) ...ui-library/icons.js?v=c016cbe6 (localhost) ...ui-library/icon.js?v=c016cbe6 (localhost) ...ui-library/highlight.js?v=c016cbe6 (localhost) ...ui-library/card.js?v=c016cbe6 (localhost) ...ui-library/button.js?v=c016cbe6 (localhost) ...ui-library/badge.js?v=c016cbe6 (localhost) ...dev-toolbar/toolbar.js?v=c016cbe6 (localhost) ...dev-toolbar/settings.js?v=c016cbe6 (localhost) ...dev-toolbar/helpers.js?v=c016cbe6 (localhost) ...apps/xray.js?v=c016cbe6 (localhost) ...utils/window.js?v=c016cbe6 (localhost) ...utils/icons.js?v=c016cbe6 (localhost) ...utils/highlight.js?v=c016cbe6 (localhost) ...apps/settings.js?v=c016cbe6 (localhost) ...ui/audit-ui.js?v=c016cbe6 (localhost) ...ui/audit-list-window.js?v=c016cbe6 (localhost) ...ui/audit-list-item.js?v=c016cbe6 (localhost) ...rules/perf.js?v=c016cbe6 (localhost) ...rules/index.js?v=c016cbe6 (localhost) ...rules/a11y.js?v=c016cbe6 (localhost) ...audit/index.js?v=c016cbe6 (localhost)

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URL Map URL ...audit/annotations.js?v=c016cbe6 (localhost) ...apps/astro.js?v=c016cbe6 (localhost) ...deps/chunk-BUSYA2B4.js?v=c016cbe6 (localhost) ...deps/astro__axobject-...deps/astro__axobject-query.js?v=c016cbe6 (localhost) query.js.map (localhost) ...deps/astro__aria-query.js?v=c016cbe6 (localhost) ...deps/astro__aria-query.js.map (localhost) /@vite/client (localhost) /@id/_x00_astro:toolbar:internal (localhost) ...dev-toolbar/entrypoint.js?v=c016cbe6 (localhost) Adobe Acrobat: PDF edit, convert, sign tools Chrome Extension chromechromeextension://efaidnbmnnnibpcajpcglclefindmk extension://efaidnbmnnnibpcajpcglclefindmkaj/libs/readability.js aj/libs/readability.js.map

NOT APPLICABLE (2)

Redirects HTTP traffic to HTTPS

Make sure that you redirect all HTTP traffic to HTTPS in order to enable secure web features for all your users. Learn more.

Detected JavaScript libraries

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



SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not

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score here that may affect your search ranking, including performance on <u>Core Web Vitals.</u> <u>Learn more about Google Search Essentials.</u>

CONTENT BEST PRACTICES

▲ Document does not have a meta description	^
Meta descriptions may be included in search results to concisely summa description.	arize page content. <u>Learn more about the meta</u>
▲ Links do not have descriptive text — 1 link found	^
Descriptive link text helps search engines understand your content. <u>Lea</u>	rn how to make links more accessible.
Link destination	Link Text
reference/cli-reference (docs.astro.build)	Learn more
Format your HTML in a way that enables crawlers to better understand your	app's content.
CRAWLING AND INDEXING	
▲ Links are not crawlable	^
Search engines may use href attributes on links to crawl websites. Ensuan appropriate destination, so more pages of the site can be discovered	
Uncrawlable Link	
a.lightboxPrev	
a.lightboxNext	
To appear in search results, crawlers need access to your app.	
ADDITIONAL ITEMS TO MANUALLY CHECK (1)	Hide
Structured data is valid	^
Run the <u>Structured Data Testing Tool</u> and the <u>Structured Data Linter</u> to value.	validate structured data. <u>Learn more about Structured</u>

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

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PASSED AUDITS (5)		Hid
Page isn't blocked from indexing		^
Search engines are unable to include yabout crawler directives.	your pages in search results if they don't have	permission to crawl them. <u>Learn more</u>
Document has a <title> element</td><td></td><td>^</td></tr><tr><td>The title gives screen reader users and is relevant to their search. <u>Learn more</u></td><td>overview of the page, and search engine users about document titles.</td><td>rely on it heavily to determine if a page</td></tr><tr><td>Page has successful HTTP status coo</td><td>de</td><td>^</td></tr><tr><td>Pages with unsuccessful HTTP status o</td><td>codes may not be indexed properly. <u>Learn mo</u></td><td>re about HTTP status codes.</td></tr><tr><td>Image elements have [alt] attribute</td><td>tes</td><td>^</td></tr><tr><td>Informative elements should aim for s attribute. Learn more about the alt a</td><td>short, descriptive alternate text. Decorative ele attribute.</td><td>ments can be ignored with an empty alt</td></tr><tr><td>Document has a valid hreflang</td><td></td><td>^</td></tr><tr><td>hreflang links tell search engines what
Learn more about hreflang.</td><td>t version of a page they should list in search re</td><td>esults for a given language or region.</td></tr><tr><td>NOT APPLICABLE (2)</td><td></td><td>Hid</td></tr><tr><td>o robots.txt is valid</td><td></td><td>^</td></tr><tr><td>If your robots.txt file is malformed, craindexed. <u>Learn more about robots.txt</u>.</td><td>awlers may not be able to understand how you</td><td>u want your website to be crawled or</td></tr><tr><td>O Document has a valid rel=canonical</td><td>1</td><td>^</td></tr><tr><td>Canonical links suggest which URL to</td><td>show in search results. <u>Learn more about cano</u></td><td>onical links.</td></tr><tr><td>Captured at Sep 8, 2025, 9:37
PM GMT+1</td><td>Emulated Moto G Power with Lighthouse 12.6.1</td><td>Single page session</td></tr><tr><td>Initial page load</td><td>Slow 4G throttling</td><td>Using Chromium 139.0.0.0 with</td></tr></tbody></table></title>		

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devtools

Generated by **Lighthouse** 12.6.1 | File an issue

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