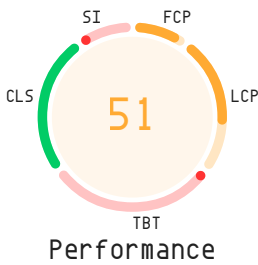


There were issues affecting this run of Lighthouse:

- Chrome extensions negatively affected this page's load performance. Try auditing the page in incognito mode or from a Chrome profile without extensions.
- Clearing the browser cache timed out. Try auditing this page again and file a bug if the issue persists.



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

▲ 0-49 ■ 50-89 ● 90-100

METRICS Collapse view

<div>■ First Contentful Paint</div> <div>0.9 s</div> <div>First Contentful Paint marks the time at which the first text or image is painted. Learn more about the First Contentful Paint metric.</div>	<div>■ Largest Contentful Paint</div> <div>1.9 s</div> <div>Largest Contentful Paint marks the time at which the largest text or image is painted. Learn more about the Largest Contentful Paint metric.</div>
<div>▲ Total Blocking Time</div> <div>8,540 ms</div> <div>Sum of all time periods between FCP and Time to Interactive, when task length exceeded 50ms, expressed in milliseconds. Learn more about the Total Blocking Time metric.</div>	<div>● Cumulative Layout Shift</div> <div>0</div> <div>Cumulative Layout Shift measures the movement of visible elements within the viewport. Learn more about the Cumulative Layout Shift metric.</div>
<div>▲ Speed Index</div> <div>15.2 s</div> <div>Speed Index shows how quickly the contents of a page are visibly populated. Learn more about the Speed Index metric.</div>	





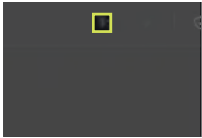




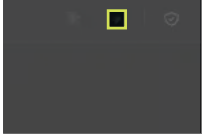




Show audits relevant to: [All](#) [FCP](#) [LCP](#) [TBT](#) [CLS](#)




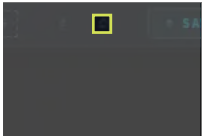
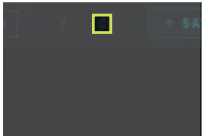
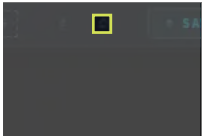
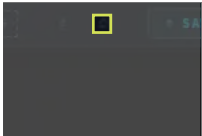
INSIGHTS

▲ Improve image delivery - Est savings of 18,074 KiB ^

Reducing the download time of images can improve the perceived load time of the page and LCP. [Learn more about optimizing image size](#) FCP LCP Unscored

	URL	Resource Size	Est Savings
localhost 1st Party		18,416.6 KiB	18,074.0 KiB
	img.w-5.h-5.opacity-80		
	..ui/action-zoom-in.png (localhost)	1,526.5 KiB	1,526.4 KiB
	Using a modern image format (WebP, AVIF) or increasing the image compression could improve this image's download size.		1,355.8 KiB
	This image file is larger than it needs to be (1024x1024) for its displayed dimensions (18x18). Use responsive images to reduce the image download size.		1,526.0 KiB
	img.w-4.h-4.opacity-70		
	..ui/action-3d.png (localhost)	1,509.4 KiB	1,509.3 KiB
	Using a modern image format (WebP, AVIF) or increasing the image compression could improve this image's download size.		1,338.7 KiB
	This image file is larger than it needs to be (1024x1024) for its displayed dimensions (14x14). Use responsive images to reduce the image download size.		1,509.1 KiB
	div.loading-tech.scale-50		
	..ui/loading.png (localhost)	1,623.4 KiB	1,452.7 KiB
	Using a modern image format (WebP, AVIF) or increasing the image compression could improve this image's download size.		1,452.7 KiB
div#initial-loader > img.boot-logo			
	..ui/logo.png (localhost)	1,430.1 KiB	1,429.3 KiB
	Using a modern image format (WebP, AVIF) or increasing the image compression could improve this image's download size.		1,259.5 KiB
	This image file is larger than it needs to be (1024x1024) for its displayed dimensions (71x71). Use responsive images to reduce the image download size.		1,423.2 KiB
	img.w-4.h-4.opacity-70		
	..ui/action-grid.png (localhost)	1,414.6 KiB	1,414.5 KiB

	URL	Resource Size	Est Savings
	Using a modern image format (WebP, AVIF) or increasing the image compression could improve this image's download size.		1,243.9 KiB
	This image file is larger than it needs to be (1024x1024) for its displayed dimensions (14x14). Use responsive images to reduce the image download size.		1,414.3 KiB
 img.w-3.5.h-3.5.opacity-60	..ui/action-voice.png (localhost)	1,276.0 KiB	1,276.0 KiB
	Using a modern image format (WebP, AVIF) or increasing the image compression could improve this image's download size.		1,105.3 KiB
	This image file is larger than it needs to be (1024x1024) for its displayed dimensions (13x13). Use responsive images to reduce the image download size.		1,275.8 KiB
 img.w-3.5.h-3.5.opacity-70.group-hover:opacity-100	..ui/action-undo.png (localhost)	1,272.2 KiB	1,272.2 KiB
	Using a modern image format (WebP, AVIF) or increasing the image compression could improve this image's download size.		1,101.5 KiB
	This image file is larger than it needs to be (1024x1024) for its displayed dimensions (13x13). Use responsive images to reduce the image download size.		1,272.0 KiB
 img.w-3.5.h-3.5.opacity-60.group-hover:opacity-100	..ui/action-settings.png (localhost)	1,257.9 KiB	1,257.9 KiB
	Using a modern image format (WebP, AVIF) or increasing the image compression could improve this image's download size.		1,087.2 KiB
	This image file is larger than it needs to be (1024x1024) for its displayed dimensions (13x13). Use responsive images to reduce the image download size.		1,257.7 KiB
 img.w-5.h-5.opacity-80	..ui/action-load.png (localhost)	1,247.6 KiB	1,247.5 KiB
	Using a modern image format (WebP, AVIF) or increasing the image		1,076.9 KiB

		URL	Resource Size	Est Savings
	img.w-5.h-5.opacity-80	compression could improve this image's download size.		
		This image file is larger than it needs to be (1024x1024) for its displayed dimensions (18x18). Use responsive images to reduce the image download size.		1,247.2 KiB
	img.w-4.h-4.opacity-80.invert	..ui/action-zoom-out.png (localhost)	1,241.1 KiB	1,241.1 KiB
		Using a modern image format (WebP, AVIF) or increasing the image compression could improve this image's download size.		1,070.5 KiB
	img.w-5.h-5.transition-all.group-hover:scale-110	This image file is larger than it needs to be (1024x1024) for its displayed dimensions (18x18). Use responsive images to reduce the image download size.		1,240.8 KiB
		..ui/action-save.png (localhost)	1,186.9 KiB	1,186.9 KiB
	img.w-3.5.h-3.5.opacity-70.group-hover:opacity-100	Using a modern image format (WebP, AVIF) or increasing the image compression could improve this image's download size.		1,016.3 KiB
		This image file is larger than it needs to be (1024x1024) for its displayed dimensions (14x14). Use responsive images to reduce the image download size.		1,186.7 KiB
	img.w-3.5.h-3.5.opacity-70.group-hover:opacity-100	..ui/icon-microcontroller.png (localhost)	1,149.1 KiB	1,149.0 KiB
		Using a modern image format (WebP, AVIF) or increasing the image compression could improve this image's download size.		970.4 KiB
	img.w-3.5.h-3.5.opacity-70.group-hover:opacity-100	This image file is larger than it needs to be (1024x1024) for its displayed dimensions (18x18). Use responsive images to reduce the image download size.		1,148.7 KiB
		..ui/action-redo.png (localhost)	1,144.2 KiB	1,144.2 KiB
	img.w-3.5.h-3.5.opacity-70.group-hover:opacity-100	Using a modern image format (WebP, AVIF) or increasing the image compression could improve this image's download size.		973.5 KiB

	URL	Resource Size	Est Savings
	This image file is larger than it needs to be (1024x1024) for its displayed dimensions (13x13). Use responsive images to reduce the image download size.		1,144.0 KiB
	<pre>div.w-full > div.w-full > div.absolute > ::before <::before></pre> ..ui/flourish.png (localhost)	1,137.6 KiB	966.9 KiB
	Using a modern image format (WebP, AVIF) or increasing the image compression could improve this image's download size.		966.9 KiB

▲ Forced reflow

A forced reflow occurs when JavaScript queries geometric properties (such as `offsetWidth`) after styles have been invalidated by a change to the DOM state. This can result in poor performance. Learn more about [forced reflows](#) and possible mitigations. Unscored

Top function call	Total reflow time
react-dom_client.js?v=cbe08797:17	546 ms
Source	Total reflow time
[unattributed]	9 ms
react-dom_client.js?v=cbe08797:15879	203 ms
DiagramCanvas.tsx:110	257 ms
installHook.js:1	85 ms

▲ LCP breakdown

Each [subpart has specific improvement strategies](#). Ideally, most of the LCP time should be spent on loading the resources, not within delays. LCP Unscored




Subpart	Duration
Time to first byte	30 ms
Resource load delay	11,010 ms
Resource load duration	440 ms
Element render delay	670 ms

```
div#initial-loader > img.boot-logo

```

▲ LCP request discovery

[Optimize LCP](#) by making the LCP image discoverable from the HTML immediately, and avoiding lazy-loading LCP Unscored

-  `fetchpriority=high` should be applied
-  Request is discoverable in initial document
-  lazy load not applied

```
div#initial-loader > img.boot-logo

```

▲ Network dependency tree

[Avoid chaining critical requests](#) by reducing the length of chains, reducing the download size of resources, or deferring the download of unnecessary resources to improve page load. LCP Unscored

Maximum critical path latency: **29,643 ms**

Initial Navigation

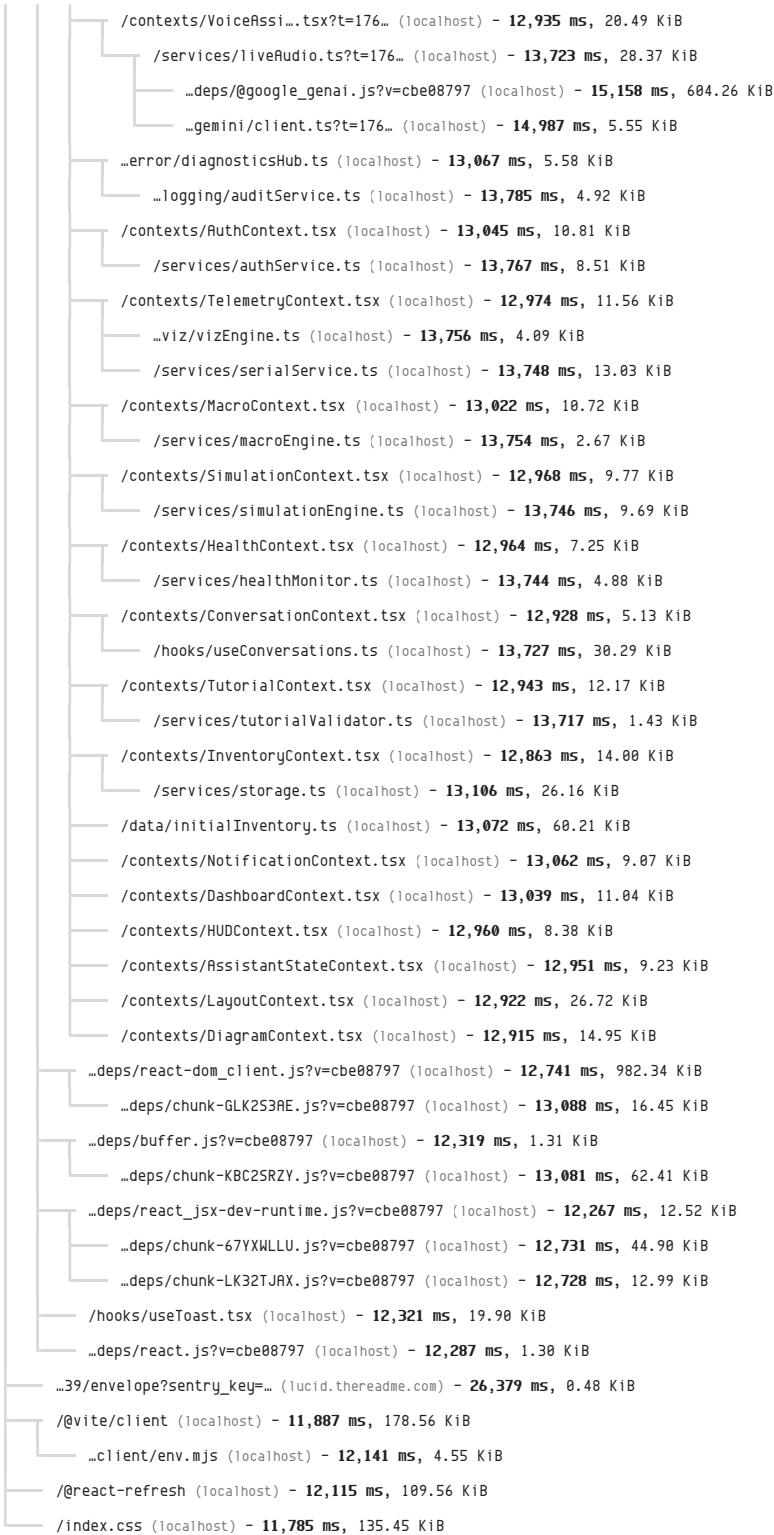


..layout/AppHeader.tsx?t=176...	(localhost)	- 13,231 ms,	51.93 KiB
..layout/CollaboratorList.tsx	(localhost)	- 13,970 ms,	9.67 KiB
..services/collabService.ts	(localhost)	- 15,269 ms,	4.91 KiB
..deps/yjs.js?v=cbe08797	(localhost)	- 16,030 ms,	15.98 KiB
..deps/chunk-2GVQ64BU.js?v=cbe08797	(localhost)	- 16,454 ms,	272.60 KiB
..deps/y-webrtc.js?v=cbe08797	(localhost)	- 16,058 ms,	185.28 KiB
..inventory/BOMModal.tsx?t=176...	(localhost)	- 13,859 ms,	37.33 KiB
..deps/jspdf.js?v=cbe08797	(localhost)	- 15,293 ms,	677.36 KiB
..deps/chunk-D7ZASVPN.js?v=cbe08797	(localhost)	- 16,027 ms,	0.75 KiB
..services/bomService.ts	(localhost)	- 15,109 ms,	4.96 KiB
..deps/papaparse.js?v=cbe08797	(localhost)	- 15,052 ms,	28.53 KiB
..services/gitService.ts?t=176...	(localhost)	- 13,963 ms,	11.24 KiB
..deps/isomorphic-git.js?v=cbe08797	(localhost)	- 15,300 ms,	563.21 KiB
..deps/isomorphic-git_http_web.js?v=cbe08797	(localhost)	- 15,263 ms,	2.54 KiB
..deps/@isomorphic-git_lightning-fs.js?v=cbe08797	(localhost)	- 15,194 ms,	44.67 KiB
..dashboard/WidgetLibrary.tsx	(localhost)	- 13,978 ms,	9.00 KiB
..layout/SecurityReport.tsx	(localhost)	- 13,959 ms,	22.16 KiB
..layout/ModeSelector.tsx	(localhost)	- 13,809 ms,	7.45 KiB
..components/IconButton.tsx	(localhost)	- 13,807 ms,	8.01 KiB
..services/geminiService.ts?t=176...	(localhost)	- 13,712 ms,	2.79 KiB
..gemini/index.ts?t=176...	(localhost)	- 14,876 ms,	2.33 KiB
..features/components.ts?t=176...	(localhost)	- 15,862 ms,	34.10 KiB
..services/standardsService.ts	(localhost)	- 16,277 ms,	6.96 KiB
..standards/ipc_dimensions.json?import	(localhost)	- 16,447 ms,	1.16 KiB
..features/wiring.ts?t=176...	(localhost)	- 15,842 ms,	6.35 KiB
..services/circuitAnalysisService.ts	(localhost)	- 16,274 ms,	11.67 KiB
..gemini/prompts.ts?t=176...	(localhost)	- 15,818 ms,	31.17 KiB
..services/knowledgeService.ts	(localhost)	- 16,266 ms,	6.15 KiB
..services/ragService.ts?t=176...	(localhost)	- 16,239 ms,	8.26 KiB
..features/versioning.ts?t=176...	(localhost)	- 15,975 ms,	3.65 KiB
..features/datasheets.ts?t=176...	(localhost)	- 15,964 ms,	4.83 KiB
..features/bom.ts?t=176...	(localhost)	- 15,963 ms,	3.97 KiB
..features/simulation.ts?t=176...	(localhost)	- 15,926 ms,	3.85 KiB
..features/predictions.ts?t=176...	(localhost)	- 15,926 ms,	3.77 KiB
..features/hud.ts?t=176...	(localhost)	- 15,925 ms,	4.51 KiB
..features/suggestions.ts?t=176...	(localhost)	- 15,899 ms,	7.68 KiB
..features/media.ts?t=176...	(localhost)	- 15,888 ms,	23.92 KiB
..features/chat.ts?t=176...	(localhost)	- 15,887 ms,	32.46 KiB
..gemini/parsers.ts	(localhost)	- 15,836 ms,	8.64 KiB
..gemini/types.ts	(localhost)	- 15,798 ms,	21.15 KiB
..components/ChatPanel.tsx	(localhost)	- 13,659 ms,	132.20 KiB
..components/ChatMessage.tsx	(localhost)	- 14,269 ms,	67.03 KiB
..deps/remark-gfm.js?v=cbe08797	(localhost)	- 15,453 ms,	91.64 KiB
..deps/chunk-FGCYCZNP.js?v=cbe08797	(localhost)	- 16,049 ms,	125.96 KiB
..deps/remark-breaks.js?v=cbe08797	(localhost)	- 15,443 ms,	0.90 KiB
..deps/chunk-UBEP225Y.js?v=cbe08797	(localhost)	- 16,038 ms,	5.63 KiB
..deps/chunk-43GICWLZ.js?v=cbe08797	(localhost)	- 16,033 ms,	3.65 KiB
..deps/react-markdown.js?v=cbe08797	(localhost)	- 15,481 ms,	212.10 KiB
..services/aiMetricsService.ts	(localhost)	- 14,337 ms,	7.56 KiB
..components/ConversationSwitcher.tsx	(localhost)	- 14,319 ms,	46.77 KiB
..layout/AnalyticsDashboard.tsx?t=176...	(localhost)	- 13,681 ms,	28.85 KiB
..deps/recharts.js?v=cbe08797	(localhost)	- 14,960 ms,	1,246.36 KiB
..deps/chunk-Q7IPHA12.js?v=cbe08797	(localhost)	- 15,992 ms,	4.46 KiB
..analytics/projectAnalyzer.ts	(localhost)	- 14,561 ms,	4.82 KiB
..hooks/useAIFactions.ts	(localhost)	- 13,701 ms,	25.92 KiB
..actions/index.ts	(localhost)	- 14,818 ms,	4.76 KiB

```

-- ...actions/types.ts (localhost) - 15,794 ms, 0.28 KiB
-- ...actions/appControlHandlers.ts (localhost) - 15,740 ms, 7.47 KiB
-- ...actions/diagramHandlers.ts (localhost) - 15,716 ms, 15.43 KiB
-- ...actions/navHandlers.ts (localhost) - 15,593 ms, 4.25 KiB
-- ...actions/canvasHandlers.ts (localhost) - 15,587 ms, 4.97 KiB
-- /hooks/useActionHistory.ts (localhost) - 14,837 ms, 4.21 KiB
-- /hooks/useAutonomySettings.ts (localhost) - 14,827 ms, 5.02 KiB
-- ...dashboard/DashboardView.tsx?t=176... (localhost) - 13,694 ms, 13.88 KiB
-- ...deps/react-grid-layout.js?v=cbe08797 (localhost) - 14,627 ms, 191.68 KiB
-- ...deps/chunk-FC5S27DJ.js?v=cbe08797 (localhost) - 15,531 ms, 0.91 KiB
-- ...dashboard/HeatmapWidget.tsx (localhost) - 14,815 ms, 9.38 KiB
-- ...dashboard/AnalogGauge.tsx (localhost) - 14,804 ms, 9.56 KiB
-- ...dashboard/LogicAnalyzerWidget.tsx (localhost) - 14,632 ms, 9.24 KiB
-- ...dashboard/OscilloscopeWidget.tsx (localhost) - 14,617 ms, 14.16 KiB
-- ...dashboard/WidgetWrapper.tsx (localhost) - 14,613 ms, 10.43 KiB
-- /components/Inventory.tsx?t=176... (localhost) - 13,643 ms, 172.88 KiB
-- ...inventory/InventoryList.tsx (localhost) - 14,217 ms, 15.63 KiB
-- ...inventory/InventoryItem.tsx (localhost) - 15,361 ms, 22.16 KiB
-- ...inventory/MacroPanel.tsx (localhost) - 14,221 ms, 23.19 KiB
-- ...inventory/inventoryUtils.ts (localhost) - 14,215 ms, 6.64 KiB
-- ...layout/HardwareTerminal.tsx (localhost) - 14,207 ms, 18.66 KiB
-- /services/componentValidator.ts (localhost) - 14,200 ms, 31.30 KiB
-- ...layout/StatusRail.tsx (localhost) - 13,615 ms, 24.99 KiB
-- /hooks/useConnectivity.ts (localhost) - 14,023 ms, 1.81 KiB
-- /services/connectivityService.ts (localhost) - 15,277 ms, 2.69 KiB
-- ...layout/SystemVitals.tsx (localhost) - 14,138 ms, 18.17 KiB
-- /hooks/usePermissions.ts (localhost) - 14,012 ms, 1.73 KiB
-- /services/aiContextBuilder.ts (localhost) - 13,711 ms, 27.44 KiB
-- ...feedback/correctionService.ts (localhost) - 14,887 ms, 6.07 KiB
-- /services/userProfileService.ts (localhost) - 14,863 ms, 7.41 KiB
-- ...search/searchIndexer.ts (localhost) - 13,707 ms, 3.69 KiB
-- ...deps/minisearch.js?v=cbe08797 (localhost) - 14,846 ms, 63.02 KiB
-- /hooks/useSync.ts?t=176... (localhost) - 13,698 ms, 2.26 KiB
-- /services/syncService.ts?t=176... (localhost) - 14,822 ms, 6.59 KiB
-- ...layout/DebugWorkbench.tsx?t=176... (localhost) - 13,685 ms, 25.05 KiB
-- /services/visionAna...ts?t=176... (localhost) - 14,580 ms, 7.16 KiB
-- ...layout/BootcampPanel.tsx (localhost) - 13,671 ms, 15.38 KiB
-- ...tutorials/index.ts (localhost) - 14,417 ms, 6.85 KiB
-- ...diagram/TacticalHUD.tsx (localhost) - 13,653 ms, 17.02 KiB
-- ...deps/react-dom.js?v=cbe08797 (localhost) - 14,219 ms, 1.62 KiB
-- /components/AssistantSidebar.tsx (localhost) - 13,628 ms, 20.25 KiB
-- /hooks/useHoverBehavior.ts (localhost) - 14,165 ms, 6.58 KiB
-- /hooks/useResizeHandler.ts (localhost) - 14,142 ms, 9.29 KiB
-- /hooks/useClickOutside.ts (localhost) - 14,140 ms, 4.27 KiB
-- /types.ts (localhost) - 13,732 ms, 10.31 KiB
-- /services/securityAuditor.ts (localhost) - 13,715 ms, 6.93 KiB
-- /services/predictionEngine.ts (localhost) - 13,709 ms, 7.44 KiB
-- /hooks/useInventorySync.ts (localhost) - 13,703 ms, 17.49 KiB
-- /components/ErrorBoundary.tsx (localhost) - 13,699 ms, 19.76 KiB
-- ...auth/Gatekeeper.tsx (localhost) - 13,696 ms, 18.82 KiB
-- ...layout/CyberToast.tsx (localhost) - 13,691 ms, 14.52 KiB
-- ...layout/OmniSearch.tsx (localhost) - 13,689 ms, 21.02 KiB
-- ...layout/ProjectTimeline.tsx?t=176... (localhost) - 13,687 ms, 18.56 KiB
-- ...layout/SystemLogViewer.tsx (localhost) - 13,683 ms, 17.66 KiB
-- ...layout/MentorOverlay.tsx (localhost) - 13,675 ms, 13.70 KiB
-- ...layout/SimControls.tsx (localhost) - 13,664 ms, 14.56 KiB

```

Preconnected origins

[preconnect](#) hints help the browser establish a connection earlier in the page load, saving time when the first request for that origin is made. The following are the origins that the page preconnected to.

no origins were preconnected

Preconnect candidates

Add [preconnect](#) hints to your most important origins, but try to use no more than 4.
No additional origins are good candidates for preconnecting

■ Use efficient cache lifetimes — Est savings of 77 KiB

A long cache lifetime can speed up repeat visits to your page. [Learn more about caching.](#) FCP LCP
Unscored

Request	Cache TTL	Transfer Size
adafruit.com		106 KiB
/970x728/1770-00.jpg (cdn-shop.adafruit.com)	4h	106 KiB
components101.com		50 KiB
...components/16x2-LCD-Module.jpg (components101.com)	14d	32 KiB
...component_pin/TIP120-Pinout.png (components101.com)	14d	18 KiB

■ Document request latency — Est savings of 2 KiB

Your first network request is the most important. [Reduce its latency](#) by avoiding redirects, ensuring a fast server response, and enabling text compression. FCP LCP Unscored

- ✓ Avoids redirects
- ✓ Server responds quickly (observed 13 ms)
- ✗ No compression applied

■ Render blocking requests

Requests are blocking the page's initial render, which may delay LCP. [Deferring or inlining](#) can move these network requests out of the critical path. FCP LCP Unscored

☒ Show 3rd-party resources (1)

URL	Transfer Size	Duration
localhost 1st Party	135.5 KiB	340 ms
/index.css (localhost)	135.5 KiB	340 ms
Google Fonts Cdn	1.3 KiB	260 ms
/css2?family=... (fonts.googleapis.com)	1.3 KiB	260 ms

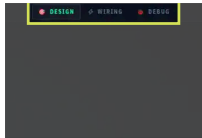
○ Layout shift culprits

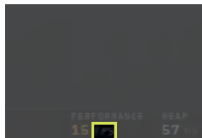
Layout shifts occur when elements move absent any user interaction. [Investigate the causes of layout shifts](#), such as elements being added, removed, or their fonts changing as the page loads. CLS
Unscored


Element	Layout shift score
Total	0.000
System Boot Sequence	0.000
<div class="boot-text">	
...v20/-F63fjptA...woff2 (fonts.gstatic.com)	Web font
div#initial-loader > div.boot-bar > div.boot-progress	
<div class="boot-progress">	0.000
div#initial-loader > div.boot-bar > div.boot-progress	
<div class="boot-progress">	0.000
div#initial-loader > div.boot-bar > div.boot-progress	
<div class="boot-progress">	0.000
div#initial-loader > div.boot-bar > div.boot-progress	
<div class="boot-progress">	0.000

Element	Layout shift score
Total	0.000
div#initial-loader > div.boot-bar > div.boot-progress <div class="boot-progress">	0.000
div#initial-loader > div.boot-bar > div.boot-progress <div class="boot-progress">	0.000

Element

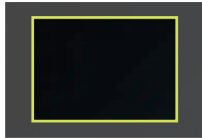
Total	div.flex.items-center.gap-1.p-1.bg-slate-900/50.border.border-slate-800.cut-c...
	
...v15/Gg8gN4UfR....woff2 (fonts.gstatic.com)	Web
...v15/Gg81N4UfR....woff2 (fonts.gstatic.com)	Web
...v20/-F6qfjptA....woff2 (fonts.gstatic.com)	Web
...v15/Gg8gN4UfR....woff2 (fonts.gstatic.com)	Web

Element	Layout shift score
Total	0.000
	span.text-[7px].text-slate-600.font-mono
	0.000

Element	Layout shift score
Total	0.000
	div.flex.items-center.gap-4
	0.000

Optimize DOM size


A large DOM can increase the duration of style calculations and layout reflows, impacting page responsiveness. A large DOM will also increase memory usage. [Learn how to avoid an excessive DOM size.](#) (Unscored)

Statistic	Element	Value
Total elements		2,579
DOM depth	path	16
Most children	 g.pointer-events-none	62

3rd parties

3rd party code can significantly impact load performance. [Reduce and defer loading of 3rd party code](#) to prioritize your page's content. (Unscored)

3rd party	Transfer size	Main thread time
npdkkcjlmhcnaoobfdjndibfkkhhdn	0 KiB	1,555 ms

3rd party	Transfer size	Main thread time
chrome-extension://npdkkcjlmhcnaaobfdjndibfkkhhdn/content/content.js	0 KiB	1,021 ms
chrome-extension://npdkkcjlmhcnaaobfdjndibfkkhhdn/content/content-read.js	0 KiB	534 ms
aapbdbdomjkkjkaonfhkkikfgjllcleb	0 KiB	454 ms
chrome-extension://aapbdbdomjkkjkaonfhkkikfgjllcleb/bubble_compiled.js	0 KiB	454 ms
fmkadamgogafadopljbjfkapdkoiienihi	0 KiB	331 ms
chrome-extension://fmkadamgogafadopljbjfkapdkoiienihi/build/installHook.js	0 KiB	270 ms
chrome-extension://fmkadamgogafadopljbjfkapdkoiienihi/build/react_devtools_backend_compact.js	0 KiB	26 ms
chrome-extension://fmkadamgogafadopljbjfkapdkoiienihi/build/backendManager.js	0 KiB	12 ms
chrome-extension://fmkadamgogafadopljbjfkapdkoiienihi/build/proxy.js	0 KiB	11 ms
chrome-extension://fmkadamgogafadopljbjfkapdkoiienihi/build/prepareInjection.js	0 KiB	8 ms
chrome-extension://fmkadamgogafadopljbjfkapdkoiienihi/build/hookSettingsInjector.js	0 KiB	2 ms
chrome-extension://fmkadamgogafadopljbjfkapdkoiienihi/build/fileFetcher.js	0 KiB	1 ms
gighmmpiobklfepjocnamgkkbiglidom	0 KiB	241 ms
chrome-extension://gighmmpiobklfepjocnamgkkbiglidom/vendor/@eyeo/webext-ad-filtering-solution/content.js	0 KiB	155 ms
chrome-extension://gighmmpiobklfepjocnamgkkbiglidom/globals-front.js	0 KiB	32 ms
chrome-extension://gighmmpiobklfepjocnamgkkbiglidom/polyfill.js	0 KiB	23 ms
chrome-extension://gighmmpiobklfepjocnamgkkbiglidom/ext/content.js	0 KiB	10 ms
chrome-extension://gighmmpiobklfepjocnamgkkbiglidom/adblock-pi creplacement.js	0 KiB	6 ms
chrome-extension://gighmmpiobklfepjocnamgkkbiglidom/adblock-functions.js	0 KiB	5 ms
chrome-extension://gighmmpiobklfepjocnamgkkbiglidom/cookie-banner-detection.preload.js	0 KiB	5 ms
chrome-extension://gighmmpiobklfepjocnamgkkbiglidom/contentscript-loader.js	0 KiB	2 ms
chrome-extension://gighmmpiobklfepjocnamgkkbiglidom/premium.preload.js	0 KiB	1 ms
chrome-extension://gighmmpiobklfepjocnamgkkbiglidom/adblock-uiscrpts-rightclick_hook.js	0 KiB	1 ms
chrome-extension://gighmmpiobklfepjocnamgkkbiglidom/ext/common.js	0 KiB	1 ms
iabnclnclchijjckhdlijmocghgmgnii	0 KiB	43 ms
chrome-extension://iabnclnclchijjckhdlijmocghgmgnii/inject/index.js	0 KiB	39 ms
chrome-extension://iabnclnclchijjckhdlijmocghgmgnii/inject/fallback.js	0 KiB	4 ms
eeijfnjmjelapkebgockoeaadonbchdd	0 KiB	12 ms
chrome-extension://eeijfnjmjelapkebgockoeaadonbchdd/content_script_binary.js	0 KiB	12 ms
fcoeoabgfenejglbffdggkbbkcdhcgfn	0 KiB	6 ms
chrome-extension://fcoeoabgfenejglbffdggkbbkcdhcgfn/assets/agent-visual-indicator.js-Ct7LqXhp.js	0 KiB	3 ms
chrome-extension://fcoeoabgfenejglbffdggkbbkcdhcgfn/assets/accessibility-tree-D8KNCIWO.js	0 KiB	3 ms
eeikailopagacbcdloonjhbiecobagjci	0 KiB	4 ms
chrome-extension://eeikailopagacbcdloonjhbiecobagjci/content_script.js	0 KiB	3 ms
chrome-extension://eeikailopagacbcdloonjhbiecobagjci/is_editable.js	0 KiB	1 ms
bmhfelbhbkeoldaiiphchjibggnoodpcj	0 KiB	3 ms
chrome-extension://bmhfelbhbkeoldaiiphchjibggnoodpcj/data/content_script/inject.js	0 KiB	3 ms
hkgfoioedgoejojocmhlaklaeopbecg	0 KiB	1 ms
chrome-extension://hkgfoioedgoejojocmhlaklaeopbecg/autoPip.js	0 KiB	1 ms
Google Fonts 	78 KiB	0 ms

3rd party	Transfer size	Main thread time
...v15/Gg8gN4UfR...woff2 (fonts.gstatic.com)	14 KiB	0 ms
...v15/Gg8gN4UfR...woff2 (fonts.gstatic.com)	14 KiB	0 ms
...v15/Gg81N4UfR...woff2 (fonts.gstatic.com)	14 KiB	0 ms
...v15/Gg8gN4UfR...woff2 (fonts.gstatic.com)	14 KiB	0 ms
...v20/-F6qfjptA...woff2 (fonts.gstatic.com)	10 KiB	0 ms
...v20/-F63fjptA...woff2 (fonts.gstatic.com)	10 KiB	0 ms
/css2?family=... (fonts.googleapis.com)	1 KiB	0 ms
adafruit.com	106 KiB	0 ms
/970x728/1770-00.jpg (cdn-shop.adafruit.com)	106 KiB	0 ms
components101.com	50 KiB	0 ms
...components/16x2-LCD-Module.jpg (components101.com)	32 KiB	0 ms
...component_pin/TIP120-Pinout.png (components101.com)	18 KiB	0 ms
thereadme.com	0 KiB	0 ms
...39/envelope?sentry_key=... (lucid.thereadme.com)	0 KiB	0 ms

These insights are also available in the Chrome DevTools Performance Panel - [record a trace](#) to view more detailed information.

DIAGNOSTICS

▲ Minimize main-thread work - 19.0 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 Unscored

Category	Time Spent
Other	8,376 ms
Script Evaluation	7,234 ms
Script Parsing & Compilation	1,835 ms
Style & Layout	921 ms
Rendering	326 ms
Garbage Collection	234 ms
Parse HTML & CSS	80 ms

▲ Minify JavaScript - Est savings of 5,716 KiB

Minifying JavaScript files can reduce payload sizes and script parse time. [Learn how to minify JavaScript](#). FCP LCP Unscored

URL	Transfer Size	Est Savings
localhost 1st Party	11,108.9 KiB	4,972.1 KiB
...deps/chunk-AGPXCMHV.js?v=cbe00797 (localhost)	1,606.5 KiB	627.2 KiB
...deps/recharts.js?v=cbe00797 (localhost)	1,246.1 KiB	312.3 KiB

URL	Transfer Size	Est Savings
...deps/react-dom_client.js?v=cbe08797 (localhost)	982.0 KiB	299.4 KiB
...deps/isomorphic-git.js?v=cbe08797 (localhost)	562.9 KiB	231.2 KiB
...deps/jspdf.js?v=cbe08797 (localhost)	677.1 KiB	191.0 KiB
...diagram/Diagram3DView.tsx (localhost)	220.4 KiB	173.4 KiB
/components/DiagramCanvas.tsx (localhost)	200.8 KiB	156.2 KiB
/@vite/client (localhost)	178.3 KiB	155.3 KiB
...deps/@google_genai.js?v=cbe08797 (localhost)	604.0 KiB	147.6 KiB
/components/Inventory.tsx?t=176... (localhost)	172.6 KiB	125.6 KiB
...diagram/DiagramNode.tsx (localhost)	177.3 KiB	120.8 KiB
...deps/chunk-2GVQ64BU.js?v=cbe08797 (localhost)	272.3 KiB	116.9 KiB
...deps/framer-motion.js?v=cbe08797 (localhost)	407.5 KiB	115.9 KiB
/components/SettingsPanel.tsx (localhost)	160.6 KiB	115.2 KiB
/@react-refresh (localhost)	109.3 KiB	99.3 KiB
/components/ChatPanel.tsx (localhost)	131.9 KiB	93.2 KiB
/components/MainLayout.tsx?t=176... (localhost)	109.1 KiB	81.3 KiB
...deps/react-markdown.js?v=cbe08797 (localhost)	211.0 KiB	78.7 KiB
...deps/react-grid-layout.js?v=cbe08797 (localhost)	191.4 KiB	60.3 KiB
...deps/y-webrtc.js?v=cbe08797 (localhost)	185.0 KiB	59.5 KiB
...deps/three.js?v=cbe08797 (localhost)	64.0 KiB	50.3 KiB
...diagram/componentShapes.ts (localhost)	59.5 KiB	47.9 KiB
/components/ChatMessage.tsx (localhost)	66.7 KiB	46.5 KiB
/data/initialInventory.ts (localhost)	59.9 KiB	44.1 KiB
...deps/chunk-FGCYCZNP.js?v=cbe08797 (localhost)	125.7 KiB	42.5 KiB
...deps/minisearch.js?v=cbe08797 (localhost)	62.7 KiB	35.7 KiB
...layout/AppHeader.tsx?t=176... (localhost)	51.6 KiB	34.0 KiB
/components/ConversationSwitcher.tsx (localhost)	46.5 KiB	33.9 KiB
...deps/react-i18next.js?v=cbe08797 (localhost)	129.5 KiB	31.6 KiB
...deps/remark-gfm.js?v=cbe08797 (localhost)	91.3 KiB	26.7 KiB
...features/components.ts?t=176... (localhost)	33.8 KiB	25.6 KiB
/services/componentValidator.ts (localhost)	31.0 KiB	24.9 KiB
...features/chat.ts?t=176... (localhost)	32.2 KiB	24.5 KiB

URL	Transfer Size	Est Savings
...inventory/BOMModal.tsx?t=176... (localhost)	37.0 KiB	24.0 KiB
/hooks/useConversations.ts (localhost)	30.0 KiB	23.9 KiB
/services/liveAudio.ts?t=176... (localhost)	28.1 KiB	22.3 KiB
/services/aiContextBuilder.ts (localhost)	27.2 KiB	21.1 KiB
/services/storage.ts (localhost)	25.9 KiB	20.5 KiB
...gemini/prompts.ts?t=176... (localhost)	30.9 KiB	20.4 KiB
...diagram/Wire.tsx (localhost)	26.5 KiB	19.7 KiB
/contexts/LayoutContext.tsx (localhost)	26.4 KiB	19.7 KiB
/hooks/useAIActions.ts (localhost)	25.6 KiB	19.6 KiB
...deps/chunk-KBC2SRZY.js?v=cbe08797 (localhost)	62.1 KiB	19.6 KiB
...deps/js-yaml.js?v=cbe08797 (localhost)	86.4 KiB	19.3 KiB
...features/media.ts?t=176... (localhost)	23.6 KiB	18.3 KiB
...layout/AnalyticsDashboard.tsx?t=176... (localhost)	28.6 KiB	17.5 KiB
...gemini/types.ts (localhost)	20.9 KiB	16.9 KiB
...settings/DeveloperPortal.tsx (localhost)	26.2 KiB	16.0 KiB
...layout/DebugWorkbench.tsx?t=176... (localhost)	24.8 KiB	15.7 KiB
...deps/@isomorphic-git_lightning-fs.js?v=cbe08797 (localhost)	44.4 KiB	15.1 KiB
...inventory/MacroPanel.tsx (localhost)	22.9 KiB	14.8 KiB
/contexts/VoiceAssi...tsx?t=176... (localhost)	20.2 KiB	14.7 KiB
...layout/StatusRail.tsx (localhost)	24.7 KiB	14.6 KiB
/hooks/useToast.tsx (localhost)	19.6 KiB	14.3 KiB
...inventory/InventoryItem.tsx (localhost)	21.9 KiB	14.2 KiB
/hooks/useInventorySync.ts (localhost)	17.2 KiB	13.9 KiB
/components/AssistantSidebar.tsx (localhost)	20.0 KiB	13.8 KiB
...layout/OmniSearch.tsx (localhost)	20.7 KiB	13.3 KiB
...settings/LocalizationSettings.tsx (localhost)	21.5 KiB	13.2 KiB
...layout/SecurityReport.tsx (localhost)	21.9 KiB	13.0 KiB
...diagram/diagramState.ts (localhost)	15.6 KiB	13.0 KiB
/components/ErrorBoundary.tsx (localhost)	19.5 KiB	12.8 KiB
...deps/chunk-67YXWLLU.js?v=cbe08797 (localhost)	44.6 KiB	12.7 KiB
...deps/yjs.js?v=cbe08797 (localhost)	15.7 KiB	12.4 KiB

URL	Transfer Size	Est Savings
...actions/diagramHandlers.ts (localhost)	15.1 KiB	11.9 KiB
...settings/ConfigPortal.tsx (localhost)	18.6 KiB	11.9 KiB
...diagram/PredictiveGhost.tsx (localhost)	17.0 KiB	11.9 KiB
...auth/Gatekeeper.tsx (localhost)	18.5 KiB	11.8 KiB
...layout/ProjectTimeline.tsx?t=176... (localhost)	18.3 KiB	11.3 KiB
...layout/HardwareTerminal.tsx (localhost)	18.4 KiB	11.2 KiB
...deps/chunk-LK32TJAX.js?v=cbe08797 (localhost)	12.7 KiB	11.0 KiB
...diagram/TacticalHUD.tsx (localhost)	16.7 KiB	11.0 KiB
...layout/SystemLogViewer.tsx (localhost)	17.4 KiB	10.9 KiB
/services/serialService.ts (localhost)	12.8 KiB	10.8 KiB
/contexts/DiagramContext.tsx (localhost)	14.7 KiB	10.6 KiB
...inventory/InventoryList.tsx (localhost)	15.3 KiB	10.4 KiB
...layout/SystemVitals.tsx (localhost)	17.9 KiB	10.2 KiB
/contexts/InventoryContext.tsx (localhost)	13.7 KiB	10.0 KiB
...settings/DiagnosticsView.tsx (localhost)	16.3 KiB	9.8 KiB
/types.ts (localhost)	10.0 KiB	9.5 KiB
...layout/BootcampPanel.tsx (localhost)	15.1 KiB	9.2 KiB
...dashboard/OscilloscopeWidget.tsx (localhost)	13.9 KiB	9.1 KiB
...layout/CyberToast.tsx (localhost)	14.2 KiB	9.0 KiB
/services/circuitAnalysisService.ts (localhost)	11.4 KiB	9.0 KiB
/services/gitService.ts?t=176... (localhost)	11.0 KiB	8.5 KiB
...layout/SimControls.tsx (localhost)	14.3 KiB	8.4 KiB
...dashboard/DashboardView.tsx?t=176... (localhost)	13.6 KiB	8.3 KiB
/contexts/TutorialContext.tsx (localhost)	11.9 KiB	8.2 KiB
...layout/MentorOverlay.tsx (localhost)	13.4 KiB	8.1 KiB
...deps/papaparse.js?v=cbe08797 (localhost)	28.2 KiB	7.9 KiB
/services/simulationEngine.ts (localhost)	9.4 KiB	7.9 KiB
/contexts/TelemetryContext.tsx (localhost)	11.3 KiB	7.8 KiB
/contexts/DashboardContext.tsx (localhost)	10.8 KiB	7.5 KiB
/index.tsx?t=176... (localhost)	11.7 KiB	7.3 KiB
/hooks/useResizeHandler.ts (localhost)	9.0 KiB	7.3 KiB

URL	Transfer Size	Est Savings
...deps/three_add...js?v=cbe08797 (localhost)	29.6 KiB	7.3 KiB
/contexts/AuthContext.tsx (localhost)	10.5 KiB	7.3 KiB
/contexts/MacroContext.tsx (localhost)	10.4 KiB	7.2 KiB
/App.tsx?t=176... (localhost)	11.9 KiB	7.1 KiB
...gemini/parsers.ts (localhost)	8.4 KiB	6.9 KiB
/services/datasetService.ts (localhost)	8.1 KiB	6.7 KiB
/services/authService.ts (localhost)	8.2 KiB	6.7 KiB
...layout/AppLayout.tsx (localhost)	10.1 KiB	6.6 KiB
/services/ragService.ts?t=176... (localhost)	8.0 KiB	6.5 KiB
/contexts/SimulationContext.tsx (localhost)	9.5 KiB	6.3 KiB
...dashboard/WidgetWrapper.tsx (localhost)	10.1 KiB	6.1 KiB
/contexts/AssistantStateContext.tsx (localhost)	8.9 KiB	6.0 KiB
...actions/appControlHandlers.ts (localhost)	7.2 KiB	5.9 KiB
/contexts/NotificationContext.tsx (localhost)	8.8 KiB	5.9 KiB
/services/userProfileService.ts (localhost)	7.1 KiB	5.9 KiB
/services/predictionEngine.ts (localhost)	7.2 KiB	5.9 KiB
/services/aiMetricsService.ts (localhost)	7.3 KiB	5.8 KiB
...layout/CollaboratorList.tsx (localhost)	9.4 KiB	5.8 KiB
...dashboard/HeatmapWidget.tsx (localhost)	9.1 KiB	5.7 KiB
...dashboard/AnalogGauge.tsx (localhost)	9.3 KiB	5.7 KiB
...features/suggestions.ts?t=176... (localhost)	7.4 KiB	5.6 KiB
/services/standardsService.ts (localhost)	6.7 KiB	5.4 KiB
/contexts/HUDContext.tsx (localhost)	8.1 KiB	5.4 KiB
...dashboard/LogicAnalyzerWidget.tsx (localhost)	9.0 KiB	5.4 KiB
/services/securityAuditor.ts (localhost)	6.6 KiB	5.4 KiB
/services/visionAna...ts?t=176... (localhost)	6.9 KiB	5.2 KiB
/hooks/useHoverBehavior.ts (localhost)	6.3 KiB	5.2 KiB
/services/syncService.ts?t=176... (localhost)	6.3 KiB	5.2 KiB
...dashboard/WidgetLibrary.tsx (localhost)	8.7 KiB	5.1 KiB
...inventory/inventoryUtils.ts (localhost)	6.4 KiB	5.0 KiB
/components/IconButton.tsx (localhost)	7.7 KiB	5.0 KiB

URL	Transfer Size	Est Savings
...tutorials/index.ts (localhost)	6.6 KiB	4.9 KiB
...deps/three_add...js?v=cbe08797 (localhost)	10.0 KiB	4.9 KiB
...feedback/correctionService.ts (localhost)	5.8 KiB	4.7 KiB
...features/wiring.ts?t=176... (localhost)	6.1 KiB	4.6 KiB
...error/diagnosticsHub.ts (localhost)	5.3 KiB	4.3 KiB
/contexts/HealthContext.tsx (localhost)	7.0 KiB	4.2 KiB
...gemini/client.ts?t=176... (localhost)	5.3 KiB	4.2 KiB
...layout/ModeSelector.tsx (localhost)	7.2 KiB	4.2 KiB
/services/knowledgeService.ts (localhost)	5.9 KiB	4.1 KiB
/services/bomService.ts (localhost)	4.7 KiB	3.9 KiB
...actions/canvasHandlers.ts (localhost)	4.7 KiB	3.8 KiB
...logging/auditService.ts (localhost)	4.6 KiB	3.8 KiB
/services/healthMonitor.ts (localhost)	4.6 KiB	3.7 KiB
/services/collabService.ts (localhost)	4.6 KiB	3.7 KiB
...client/env.mjs (localhost)	4.3 KiB	3.7 KiB
...analytics/projectAnalyzer.ts (localhost)	4.5 KiB	3.6 KiB
/styles/colors.ts (localhost)	4.4 KiB	3.6 KiB
/hooks/useAutonomySettings.ts (localhost)	4.7 KiB	3.5 KiB
...deps/chunk-GLK2S3RE.js?v=cbe08797 (localhost)	16.1 KiB	3.5 KiB
...actions/index.ts (localhost)	4.5 KiB	3.4 KiB
...features/datasheets.ts?t=176... (localhost)	4.5 KiB	3.4 KiB
...deps/chunk-GNWC3YX7.js?v=cbe08797 (localhost)	12.6 KiB	3.3 KiB
...deps/three_add...js?v=cbe08797 (localhost)	14.2 KiB	3.3 KiB
/hooks/useClickOutside.ts (localhost)	4.0 KiB	3.3 KiB
...features/hud.ts?t=176... (localhost)	4.2 KiB	3.3 KiB
...deps/react_jsx-dev-runtime.js?v=cbe08797 (localhost)	12.2 KiB	3.2 KiB
...api/tokenService.ts (localhost)	3.9 KiB	3.2 KiB
...actions/navHandlers.ts (localhost)	4.0 KiB	3.2 KiB
...viz/vizEngine.ts (localhost)	3.8 KiB	3.0 KiB
/hooks/useActionHistory.ts (localhost)	3.9 KiB	3.0 KiB
...search/searchIndexer.ts (localhost)	3.4 KiB	2.8 KiB

URL	Transfer Size	Est Savings
...features/predictions.ts?t=176... (localhost)	3.5 KiB	2.8 KiB
...config/configManager.ts (localhost)	3.3 KiB	2.7 KiB
...features/bom.ts?t=176... (localhost)	3.7 KiB	2.7 KiB
...deps/chunk-UBEP225Y.js?v=cbe00797 (localhost)	5.3 KiB	2.6 KiB
...features/simulation.ts?t=176... (localhost)	3.6 KiB	2.6 KiB
/contexts/ConversationContext.tsx (localhost)	4.8 KiB	2.5 KiB
...localization/unitConverter.ts (localhost)	3.0 KiB	2.5 KiB
...features/versioning.ts?t=176... (localhost)	3.4 KiB	2.5 KiB
/services/threeCodeRunner.ts (localhost)	2.9 KiB	2.3 KiB
/services/macroEngine.ts (localhost)	2.4 KiB	2.1 KiB
Unattributable	1,493.5 KiB	743.9 KiB
chrome-extension://npdkkcjlmhcnnaobfdjndibfkkhhdfn/content/content-read.js	770.7 KiB	389.1 KiB
chrome-extension://npdkkcjlmhcnnaobfdjndibfkkhhdfn/content/content.js	484.2 KiB	221.1 KiB
chrome-extension://gighmmplobklfepjocnamgkbbiglidom/vendor/@eyeo/webext-ad-filtering-solution/content.js	93.7 KiB	76.2 KiB
chrome-extension://gighmmplobklfepjocnamgkbbiglidom/globals-front.js	39.8 KiB	18.7 KiB
chrome-extension://iabncinclichjckhdjlmocghgmgnli/inject/index.js	57.9 KiB	15.0 KiB
chrome-extension://gighmmplobklfepjocnamgkbbiglidom/polyfill.js	10.6 KiB	5.7 KiB
chrome-extension://gighmmplobklfepjocnamgkbbiglidom/polyfill.js	10.6 KiB	5.7 KiB
chrome-extension://gighmmplobklfepjocnamgkbbiglidom/cookie-banner-detection.preload.js	10.0 KiB	5.3 KiB
chrome-extension://gighmmplobklfepjocnamgkbbiglidom/adblock-picreplacement.js	9.1 KiB	3.8 KiB
chrome-extension://gighmmplobklfepjocnamgkbbiglidom/adblock-functions.js	6.9 KiB	3.2 KiB

▲ Reduce JavaScript execution time - 8.8 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 Unscored

URL	Total CPU Time	Script Evaluation	Script Parse
localhost 1st Party	9,671 ms	6,143 ms	474 ms
...deps/react-dom_client.js?v=cbe00797 (localhost)	6,641 ms	5,611 ms	8 ms
http://localhost:3000	2,558 ms	333 ms	465 ms
/services/healthMonitor.ts (localhost)	363 ms	99 ms	0 ms

URL	Total CPU Time	Script Evaluation	Script Parse
...deps/@isomorphic-git_lightning-fs.js?v=cbe08797 (localhost)	110 ms	100 ms	0 ms
Unattributable	8,333 ms	991 ms	1,188 ms
Unattributable	6,039 ms	158 ms	0 ms
chrome-extension://npdkkcjlmhcnnaobfdjndibfkkhdfn/content/content.js	1,193 ms	615 ms	406 ms
chrome-extension://npdkkcjlmhcnnaobfdjndibfkkhdfn/content/content-read.js	534 ms	123 ms	411 ms
chrome-extension://aapbdbdomjkkjkaonfhkkikfgjllcieb/bubble_compiled.js	508 ms	83 ms	371 ms
chrome-extension://fmkadmagofadopljbjfkapdkolenihl/build/proxy.js	60 ms	12 ms	0 ms

▲ Page prevented back/forward cache restoration – 2 failure reasons ^

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](#) (Unscored)

Failure reason	Failure type
Pages with WebSocket cannot enter back/forward cache. http://localhost:3000	Pending browser support
Pages that use FileChooser API are not eligible for back/forward cache. http://localhost:3000	Pending browser support

■ Minify CSS – Est savings of 28 KiB ^

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

URL	Transfer Size	Est Savings
localhost 1st Party	135.5 KiB	28.1 KiB
/index.css (localhost)	135.5 KiB	28.1 KiB

■ Reduce unused JavaScript – Est savings of 6,577 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](#). (FCP) (LCP) (Unscored)

URL	Transfer Size	Est Savings
localhost 1st Party	7,781.9 KiB	5,059.6 KiB
...deps/chunk-AGPXC MHV.js?v=cbe08797 (localhost)	1,606.5 KiB	1,006.8 KiB

URL	Transfer Size	Est Savings
...deps/recharts.js?v=cbe08797 (localhost)	1,246.1 KiB	1,004.3 KiB
...deps/jspdf.js?v=cbe08797 (localhost)	677.0 KiB	587.0 KiB
...deps/@google_genai.js?v=cbe08797 (localhost)	604.0 KiB	531.3 KiB
...converters/_models_converters.ts	115.5 KiB	115.4 KiB
...converters/_batches_converters.ts	41.0 KiB	40.9 KiB
...models.ts	38.5 KiB	38.4 KiB
...converters/_live_converters.ts	34.3 KiB	34.3 KiB
...converters/_tunings_converters.ts	25.0 KiB	25.0 KiB
...deps/isomorphic-git.js?v=cbe08797 (localhost)	562.9 KiB	338.8 KiB
...deps/react-dom_client.js?v=cbe08797 (localhost)	982.0 KiB	317.3 KiB
...react-dom/cjs/react-dom-client.development.js	969.2 KiB	314.7 KiB
...scheduler/cjs/scheduler.development.js	11.1 KiB	2.6 KiB
...deps/framer-motion.js?v=cbe08797 (localhost)	407.5 KiB	238.8 KiB
...../motion-dom/src/projection/node/create-projection-node.ts	39.0 KiB	32.0 KiB
...../framer-motion/src/gestures/drag/VisualElementDragControls.ts	13.1 KiB	13.0 KiB
...../framer-motion/src/animation/sequence/create.ts	6.6 KiB	6.5 KiB
...../framer-motion/src/gestures/pan/PanSession.ts	6.3 KiB	6.2 KiB
...../motion-dom/src/layout/projection-tree.ts	4.4 KiB	4.3 KiB
...deps/chunk-2GVQ64BU.js?v=cbe08797 (localhost)	272.3 KiB	192.2 KiB
...yjs/src/types/YText.js	23.9 KiB	23.3 KiB
...yjs/src/utils/updates.js	15.1 KiB	14.5 KiB
...yjs/src/types/AbstractType.js	13.7 KiB	12.9 KiB
...yjs/src/structs/Item.js	13.1 KiB	12.7 KiB
...yjs/src/utils/encoding.js	10.4 KiB	9.9 KiB
...deps/y-webrtc.js?v=cbe08797 (localhost)	185.0 KiB	153.3 KiB
...simple-peer/simplepeer.min.js	152.3 KiB	125.5 KiB
...y-webrtc/src/y-webrtc.js	17.0 KiB	15.3 KiB
...y-protocols/awareness.js	5.8 KiB	5.4 KiB
...lib0/websocket.js	3.1 KiB	2.8 KiB
...y-webrtc/src/crypto.js	1.9 KiB	1.8 KiB
...deps/react-grid-layout.js?v=cbe08797 (localhost)	191.4 KiB	143.9 KiB
...deps/react-i18next.js?v=cbe08797 (localhost)	129.3 KiB	115.4 KiB
...deps/js-yaml.js?v=cbe08797 (localhost)	86.4 KiB	73.7 KiB
...deps/react-markdown.js?v=cbe08797 (localhost)	211.7 KiB	63.3 KiB
...deps/remark-gfm.js?v=cbe08797 (localhost)	91.3 KiB	62.3 KiB
...deps/chunk-FGCYCZNP.js?v=cbe08797 (localhost)	125.6 KiB	61.9 KiB
...diagram/Diagram3DView.tsx (localhost)	220.4 KiB	54.5 KiB
...	58.2 KiB	54.2 KiB
...deps/chunk-KBC2SRZY.js?v=cbe08797 (localhost)	62.1 KiB	33.2 KiB
...deps/minisearch.js?v=cbe08797 (localhost)	62.7 KiB	27.7 KiB

URL	Transfer Size	Est Savings
...deps/three_add...js?v=cbe08797 (localhost)	29.6 KiB	27.4 KiB
...deps/papaparse.js?v=cbe08797 (localhost)	28.2 KiB	26.5 KiB
-	27.9 KiB	26.5 KiB
Unattributable	2,108.1 KiB	1,517.9 KiB
chrome-extension://npdkkcjlmhcnnaobfdjndibfkkhdfn/content/content-read.js	770.7 KiB	669.6 KiB
chrome-extension://aapbdbdomjkkjkaonfhkkikfgjllcleb/bubble_compiled.js	737.6 KiB	422.4 KiB
chrome-extension://npdkkcjlmhcnnaobfdjndibfkkhdfn/content/content.js	484.2 KiB	339.0 KiB
chrome-extension://iabncinclichijckhdlijmoghgmgnli/inject/index.js	57.9 KiB	48.9 KiB
chrome-extension://fmkadmavgofadop1jbjfkapdkoiени/build/installHook.js	57.6 KiB	38.1 KiB

Avoid enormous network payloads — Total size was 33,821 KiB

Large network payloads cost users real money and are highly correlated with long load times. [Learn how to reduce payload sizes.](#) (Unscored)

URL	Transfer Size
localhost 1st Party	14,439.8 KiB
...ui/loading.png (localhost)	1,623.7 KiB
...deps/chunk-AGPXCMHV.js?v=cbe08797 (localhost)	1,606.8 KiB
...ui/action-zoom-in.png (localhost)	1,526.7 KiB
...ui/icon-sensor.png (localhost)	1,520.9 KiB
...ui/action-3d.png (localhost)	1,509.6 KiB
...ui/logo.png (localhost)	1,430.4 KiB
...ui/action-grid.png (localhost)	1,414.8 KiB
...ui/action-voice.png (localhost)	1,276.3 KiB
...ui/action-undo.png (localhost)	1,272.5 KiB
...ui/action-settings.png (localhost)	1,258.2 KiB

Avoid long main-thread tasks — 20 long tasks 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) (Unscored)

URL	Start Time	Duration
Unattributable		6,061 ms
chrome-extension://npdkkcjlmhcnnaobfdjndibfkkhdfn/content/content.js	3,485 ms	1,722 ms

URL	Start Time	Duration
Unattributable	2,225 ms	1,142 ms
Unattributable	5,986 ms	673 ms
Unattributable	6,685 ms	668 ms
Unattributable	9,981 ms	684 ms
Unattributable	11,519 ms	588 ms
chrome-extension://aapbdbdomjkkjkaonfhbkikfkgjl1c1eb/bubble_compiled.js	5,489 ms	497 ms
Unattributable	951 ms	167 ms
localhost 1st Party		4,197 ms
...deps/react-dom_client.js?v=cbe08797 (localhost)	7,358 ms	1,088 ms
...deps/react-dom_client.js?v=cbe08797 (localhost)	9,212 ms	686 ms
http://localhost:3000	297 ms	685 ms
...deps/react-dom_client.js?v=cbe08797 (localhost)	8,366 ms	478 ms
...deps/react-dom_client.js?v=cbe08797 (localhost)	11,033 ms	330 ms
...deps/react-dom_client.js?v=cbe08797 (localhost)	12,107 ms	283 ms
...deps/react-dom_client.js?v=cbe08797 (localhost)	8,931 ms	244 ms
...deps/react-dom_client.js?v=cbe08797 (localhost)	10,712 ms	149 ms
http://localhost:3000	1,655 ms	147 ms
/services/healthMonitor.ts (localhost)	5,259 ms	128 ms
http://localhost:3000	174 ms	123 ms
...deps/react-dom_client.js?v=cbe08797 (localhost)	10,929 ms	184 ms

User Timing marks and measures – 281 user timings

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.](#) Unscored

Name	Type	Start Time	Duration
Update Blocked	Measure	18,152.80 ms	68.80 ms
Mount	Measure	18,234.30 ms	1,484.70 ms
Mount	Measure	19,737.10 ms	5.30 ms
Mount	Measure	19,799.20 ms	224.10 ms
Mount	Measure	22,979.70 ms	148.10 ms
Cascading Update	Measure	23,443.80 ms	244.70 ms
InventoryList	Measure	23,887.40 ms	447.60 ms

Name	Type	Start Time	Duration
InventoryItem	Measure	23,874.50 ms	12.10 ms
InventoryItem	Measure	23,886.60 ms	11.40 ms
InventoryItem	Measure	23,898.00 ms	12.90 ms
InventoryItem	Measure	23,910.90 ms	12.10 ms
InventoryItem	Measure	23,923.00 ms	11.20 ms
InventoryItem	Measure	23,934.20 ms	9.70 ms
InventoryItem	Measure	23,944.10 ms	11.20 ms
InventoryItem	Measure	23,955.30 ms	12.50 ms
InventoryItem	Measure	23,967.80 ms	13.10 ms
InventoryItem	Measure	23,980.90 ms	12.60 ms
InventoryItem	Measure	23,993.50 ms	12.70 ms
InventoryItem	Measure	24,006.20 ms	14.30 ms
InventoryItem	Measure	24,020.50 ms	12.70 ms
InventoryItem	Measure	24,033.20 ms	13.00 ms
InventoryItem	Measure	24,046.20 ms	12.60 ms
InventoryItem	Measure	24,058.80 ms	12.80 ms
InventoryItem	Measure	24,071.60 ms	12.70 ms
InventoryItem	Measure	24,084.50 ms	12.80 ms
InventoryItem	Measure	24,097.30 ms	12.60 ms
InventoryItem	Measure	24,110.00 ms	12.60 ms
InventoryItem	Measure	24,122.60 ms	12.40 ms
InventoryItem	Measure	24,135.00 ms	11.20 ms
InventoryItem	Measure	24,146.20 ms	9.70 ms
InventoryItem	Measure	24,155.90 ms	9.70 ms
InventoryItem	Measure	24,165.90 ms	9.80 ms
InventoryItem	Measure	24,175.70 ms	12.40 ms
InventoryItem	Measure	24,188.10 ms	10.80 ms
InventoryItem	Measure	24,198.90 ms	10.70 ms
InventoryItem	Measure	24,209.70 ms	11.00 ms
InventoryItem	Measure	24,220.70 ms	11.80 ms
InventoryItem	Measure	24,232.70 ms	10.80 ms
InventoryItem	Measure	24,243.60 ms	10.30 ms

Name	Type	Start Time	Duration
PredictiveGhost	Measure	24,321.40 ms	0.40 ms
Wire2	Measure	24,321.90 ms	5.10 ms
Mount	Measure	24,325.70 ms	1.30 ms
Wire2	Measure	24,327.00 ms	4.30 ms
Mount	Measure	24,330.30 ms	1.00 ms
Wire2	Measure	24,331.30 ms	4.50 ms
Mount	Measure	24,334.90 ms	0.90 ms
Wire2	Measure	24,335.80 ms	3.90 ms
Mount	Measure	24,339.00 ms	0.70 ms
Wire2	Measure	24,339.70 ms	4.10 ms
Mount	Measure	24,342.90 ms	0.90 ms
Wire2	Measure	24,343.80 ms	4.20 ms
Mount	Measure	24,347.20 ms	0.80 ms
Wire2	Measure	24,348.00 ms	4.80 ms
Mount	Measure	24,351.90 ms	0.90 ms
Wire2	Measure	24,352.80 ms	3.90 ms
Mount	Measure	24,356.00 ms	0.70 ms
Wire2	Measure	24,356.70 ms	4.50 ms
Mount	Measure	24,360.30 ms	0.90 ms
Wire2	Measure	24,361.20 ms	5.00 ms
Mount	Measure	24,365.00 ms	1.20 ms
Mount	Measure	24,366.30 ms	250.10 ms
Mount	Measure	24,616.40 ms	49.00 ms
Mount	Measure	24,665.40 ms	36.50 ms
Mount	Measure	24,701.90 ms	38.50 ms
Mount	Measure	24,740.50 ms	0.10 ms
Mount	Measure	24,740.60 ms	0.10 ms
Mount	Measure	24,740.70 ms	0.20 ms
Cascading Update	Measure	26,283.60 ms	437.40 ms
PredictiveGhost	Measure	26,783.60 ms	0.50 ms
Update	Measure	27,527.50 ms	0.50 ms
Update	Measure	28,172.00 ms	0.60 ms

Name	Type	Start Time	Duration
AppLayout	Measure	28,188.50 ms	85.80 ms
PresenceChild	Measure	28,191.90 ms	12.60 ms
AnimatePresence	Measure	28,195.00 ms	0.70 ms
ForwardRef(motion.div)	Measure	28,201.60 ms	1.60 ms
ForwardRef(motion.div)	Measure	28,201.60 ms	2.90 ms
AnimatePresence	Measure	28,203.90 ms	0.60 ms
AnimatePresence	Measure	28,203.90 ms	0.60 ms
AssistantSidebar	Measure	28,204.60 ms	68.90 ms
ErrorBoundary	Measure	28,223.00 ms	50.50 ms
ChatPanel	Measure	28,223.40 ms	50.10 ms
Mount	Measure	28,267.80 ms	0.40 ms
IconButton	Measure	28,268.30 ms	0.50 ms
Mount	Measure	28,268.80 ms	0.90 ms
Mount	Measure	28,270.00 ms	0.10 ms
IconButton	Measure	28,270.10 ms	0.50 ms
IconButton	Measure	28,270.60 ms	0.50 ms
IconButton	Measure	28,271.90 ms	0.50 ms
IconButton	Measure	28,272.40 ms	0.50 ms
IconButton	Measure	28,273.00 ms	0.50 ms
Update Blocked	Measure	28,319.30 ms	60.60 ms
AppLayout	Measure	28,403.30 ms	113.10 ms
PresenceChild	Measure	28,411.10 ms	16.70 ms
AnimatePresence	Measure	28,415.40 ms	0.70 ms
ForwardRef(motion.div)	Measure	28,423.90 ms	2.00 ms
ForwardRef(motion.div)	Measure	28,423.90 ms	3.90 ms
AnimatePresence	Measure	28,426.80 ms	0.90 ms
AnimatePresence	Measure	28,426.80 ms	1.00 ms
OmniSearch	Measure	28,427.70 ms	0.10 ms
AssistantSidebar	Measure	28,457.60 ms	54.40 ms
ErrorBoundary	Measure	28,460.50 ms	51.50 ms
ChatPanel	Measure	28,460.70 ms	51.30 ms
ConversationSwitcher	Measure	28,504.30 ms	2.60 ms

Name	Type	Start Time	Duration
IconButton	Measure	28,507.20 ms	0.60 ms
IconButton	Measure	28,507.80 ms	0.40 ms
IconButton	Measure	28,508.70 ms	0.50 ms
IconButton	Measure	28,509.20 ms	0.60 ms
IconButton	Measure	28,510.50 ms	0.50 ms
IconButton	Measure	28,511.00 ms	0.40 ms
IconButton	Measure	28,511.50 ms	0.40 ms
Reconnect	Measure	28,512.10 ms	4.30 ms
Reconnect	Measure	28,540.80 ms	0.20 ms
Update Blocked	Measure	28,543.60 ms	7.00 ms
AppLayout	Measure	28,564.20 ms	76.50 ms
PresenceChild	Measure	28,567.30 ms	11.60 ms
AnimatePresence	Measure	28,569.90 ms	0.60 ms
ForwardRef(motion.div)	Measure	28,576.20 ms	1.40 ms
ForwardRef(motion.div)	Measure	28,576.20 ms	2.70 ms
AnimatePresence	Measure	28,578.30 ms	0.50 ms
AnimatePresence	Measure	28,578.30 ms	0.60 ms
OmniSearch	Measure	28,578.80 ms	0.10 ms
AssistantSidebar	Measure	28,589.00 ms	51.40 ms
ErrorBoundary	Measure	28,592.30 ms	48.10 ms
ChatPanel	Measure	28,592.40 ms	48.00 ms
IconButton	Measure	28,636.00 ms	0.50 ms
IconButton	Measure	28,636.50 ms	0.50 ms
IconButton	Measure	28,637.20 ms	0.60 ms
IconButton	Measure	28,637.80 ms	0.40 ms
IconButton	Measure	28,638.70 ms	0.50 ms
IconButton	Measure	28,639.30 ms	0.40 ms
IconButton	Measure	28,639.80 ms	0.60 ms
SettingsPanel	Measure	28,640.50 ms	0.20 ms
Update	Measure	28,688.20 ms	4.40 ms
AppLayout	Measure	28,708.00 ms	169.10 ms
PresenceChild	Measure	28,711.30 ms	77.70 ms

Name	Type	Start Time	Duration
AnimatePresence	Measure	28,713.90 ms	0.50 ms
DiagramCanvas	Measure	28,714.40 ms	65.20 ms
PredictiveGhost	Measure	28,778.40 ms	0.40 ms
ForwardRef(motion.div)	Measure	28,786.10 ms	1.60 ms
ForwardRef(motion.div)	Measure	28,786.10 ms	2.90 ms
AnimatePresence	Measure	28,788.40 ms	0.60 ms
AnimatePresence	Measure	28,788.40 ms	0.60 ms
AssistantSidebar	Measure	28,818.70 ms	58.00 ms
ErrorBoundary	Measure	28,822.00 ms	54.70 ms
ChatPanel	Measure	28,822.20 ms	54.50 ms
ConversationSwitcher	Measure	28,868.60 ms	2.80 ms
IconButton	Measure	28,871.50 ms	0.60 ms
IconButton	Measure	28,872.10 ms	0.50 ms
IconButton	Measure	28,873.10 ms	0.60 ms
IconButton	Measure	28,873.70 ms	0.50 ms
IconButton	Measure	28,874.80 ms	0.70 ms
IconButton	Measure	28,875.50 ms	0.50 ms
IconButton	Measure	28,876.10 ms	0.50 ms
SettingsPanel	Measure	28,876.80 ms	0.30 ms
Update	Measure	28,925.60 ms	1.20 ms
AppLayout	Measure	28,948.30 ms	582.70 ms
PresenceChild	Measure	28,951.90 ms	14.20 ms
AnimatePresence	Measure	28,955.30 ms	0.60 ms
ForwardRef(motion.div)	Measure	28,962.90 ms	1.80 ms
ForwardRef(motion.div)	Measure	28,962.90 ms	3.20 ms
AnimatePresence	Measure	28,965.40 ms	0.70 ms
AnimatePresence	Measure	28,965.40 ms	0.70 ms
AssistantSidebar	Measure	28,994.50 ms	536.00 ms
ErrorBoundary	Measure	28,997.60 ms	532.90 ms
ChatPanel	Measure	28,997.80 ms	532.70 ms
IconButton	Measure	29,076.90 ms	0.50 ms
IconButton	Measure	29,077.40 ms	0.60 ms

Name	Type	Start Time	Duration
IconButton	Measure	29,078.30 ms	0.50 ms
IconButton	Measure	29,078.90 ms	0.50 ms
Mount	Measure	29,080.10 ms	448.20 ms
IconButton	Measure	29,528.50 ms	0.60 ms
IconButton	Measure	29,529.10 ms	0.60 ms
IconButton	Measure	29,529.70 ms	0.80 ms
SettingsPanel	Measure	29,530.70 ms	0.30 ms
Cascading Update	Measure	29,631.00 ms	105.00 ms
IconButton	Measure	29,829.00 ms	0.50 ms
IconButton	Measure	29,829.50 ms	0.70 ms
IconButton	Measure	29,830.70 ms	0.60 ms
IconButton	Measure	29,831.30 ms	0.50 ms
IconButton	Measure	29,832.90 ms	0.80 ms
IconButton	Measure	29,833.70 ms	0.70 ms
IconButton	Measure	29,834.40 ms	0.70 ms
Update Blocked	Measure	30,463.70 ms	17.90 ms
AppLayout	Measure	30,504.20 ms	513.10 ms
PresenceChild	Measure	30,507.60 ms	77.10 ms
AnimatePresence	Measure	30,510.00 ms	0.60 ms
DiagramCanvas	Measure	30,510.60 ms	64.20 ms
PredictiveGhost	Measure	30,573.70 ms	0.50 ms
ForwardRef(motion.div)	Measure	30,581.70 ms	1.60 ms
ForwardRef(motion.div)	Measure	30,581.70 ms	3.00 ms
AnimatePresence	Measure	30,584.10 ms	0.60 ms
AnimatePresence	Measure	30,584.10 ms	0.60 ms
AssistantSidebar	Measure	30,596.50 ms	420.40 ms
ErrorBoundary	Measure	30,599.70 ms	417.20 ms
ChatPanel	Measure	30,599.90 ms	417.00 ms
IconButton	Measure	30,676.10 ms	0.60 ms
IconButton	Measure	30,676.70 ms	0.60 ms
IconButton	Measure	30,677.50 ms	0.60 ms
IconButton	Measure	30,678.10 ms	0.50 ms

Name	Type	Start Time	Duration
ChatMessage	Measure	30,678.60 ms	15.60 ms
Markdown	Measure	30,683.50 ms	10.60 ms
Mount	Measure	30,693.00 ms	0.70 ms
Mount	Measure	30,693.70 ms	0.40 ms
ChatMessage	Measure	30,694.40 ms	10.60 ms
Markdown	Measure	30,697.90 ms	7.00 ms
Mount	Measure	30,704.40 ms	0.50 ms
ChatMessage	Measure	30,705.00 ms	15.70 ms
Markdown	Measure	30,713.00 ms	7.40 ms
Mount	Measure	30,719.90 ms	0.50 ms
ChatMessage	Measure	30,720.70 ms	9.00 ms
Markdown	Measure	30,724.20 ms	5.50 ms
Mount	Measure	30,729.20 ms	0.50 ms
ChatMessage	Measure	30,729.70 ms	13.00 ms
Markdown	Measure	30,736.90 ms	5.60 ms
Mount	Measure	30,742.00 ms	0.50 ms
ChatMessage	Measure	30,742.70 ms	11.10 ms
Markdown	Measure	30,746.30 ms	7.50 ms
Mount	Measure	30,753.20 ms	0.60 ms
ChatMessage	Measure	30,753.80 ms	12.10 ms
Markdown	Measure	30,758.70 ms	7.10 ms
Mount	Measure	30,765.10 ms	0.70 ms
ChatMessage	Measure	30,765.90 ms	11.10 ms
Markdown	Measure	30,769.40 ms	7.50 ms
Mount	Measure	30,776.40 ms	0.50 ms
ChatMessage	Measure	30,777.00 ms	10.60 ms
Markdown	Measure	30,781.70 ms	5.80 ms
Mount	Measure	30,787.00 ms	0.50 ms
ChatMessage	Measure	30,787.60 ms	10.20 ms
Markdown	Measure	30,791.00 ms	6.80 ms
Mount	Measure	30,797.20 ms	0.60 ms
ChatMessage	Measure	30,797.80 ms	10.60 ms


Name	Type	Start Time	Duration
Markdown	Measure	30,802.60 ms	5.70 ms
Mount	Measure	30,807.80 ms	0.50 ms
ChatMessage	Measure	30,808.40 ms	9.20 ms
Markdown	Measure	30,812.00 ms	5.60 ms
Mount	Measure	30,817.00 ms	0.60 ms
ChatMessage	Measure	30,817.60 ms	28.90 ms
Markdown	Measure	30,824.70 ms	21.50 ms
Mount	Measure	30,845.70 ms	0.50 ms
ChatMessage	Measure	30,846.50 ms	7.80 ms
Markdown	Measure	30,849.90 ms	4.40 ms
Mount	Measure	30,853.80 ms	0.50 ms
ChatMessage	Measure	30,854.30 ms	13.30 ms
Markdown	Measure	30,861.30 ms	6.00 ms
Mount	Measure	30,866.80 ms	0.50 ms
ChatMessage	Measure	30,867.60 ms	9.40 ms
Markdown	Measure	30,871.00 ms	5.70 ms
Mount	Measure	30,876.10 ms	0.60 ms
ChatMessage	Measure	30,877.00 ms	24.80 ms
Markdown	Measure	30,894.50 ms	6.50 ms
Mount	Measure	30,900.50 ms	0.50 ms
ChatMessage	Measure	30,901.80 ms	8.80 ms
Markdown	Measure	30,905.50 ms	5.00 ms
Mount	Measure	30,910.00 ms	0.50 ms
ChatMessage	Measure	30,910.60 ms	30.30 ms
Markdown	Measure	30,915.50 ms	25.30 ms
Mount	Measure	30,937.00 ms	0.50 ms
Mount	Measure	30,937.50 ms	0.90 ms
Mount	Measure	30,938.40 ms	2.40 ms
ChatMessage	Measure	30,940.90 ms	9.50 ms
Markdown	Measure	30,944.40 ms	6.00 ms
Mount	Measure	30,949.80 ms	0.60 ms
ChatMessage	Measure	30,950.40 ms	15.20 ms

Name	Type	Start Time	Duration
Markdown	Measure	30,957.90 ms	7.40 ms
Mount	Measure	30,964.60 ms	0.70 ms
ChatMessage	Measure	30,965.60 ms	11.10 ms
Markdown	Measure	30,970.20 ms	6.40 ms
Mount	Measure	30,976.00 ms	0.60 ms
ChatMessage	Measure	30,976.70 ms	38.60 ms
Markdown	Measure	30,990.50 ms	24.30 ms
Mount	Measure	31,011.40 ms	0.60 ms
Mount	Measure	31,012.00 ms	2.40 ms
Mount	Measure	31,014.40 ms	0.40 ms
IconButton	Measure	31,015.40 ms	0.60 ms
IconButton	Measure	31,016.00 ms	0.40 ms
IconButton	Measure	31,016.40 ms	0.50 ms
SettingsPanel	Measure	31,017.10 ms	0.20 ms
Unmount	Measure	31,031.60 ms	0.10 ms
Unmount	Measure	31,059.10 ms	0.10 ms
Update	Measure	31,442.30 ms	0.80 ms
__v3	Mark	0.00 ms	

○ 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) (Unscored)

Element



div.w-full.h-full

Filter-related property may move pixels

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

PASSED AUDITS (8) Hide

● Duplicated JavaScript ^

Remove large, [duplicate JavaScript modules](#) from bundles to reduce unnecessary bytes consumed by network activity. (FCP) (LCP) (Unscored)

● Font display ^

Consider setting [font-display](#) to swap or optional to ensure text is consistently visible. swap can be further optimized to mitigate layout shifts with [font metric overrides](#). (Unscored)

○

INP breakdown

^

Start investigating [how to improve INP](#) by looking at the longest subpart. (Unscored)

●

Legacy JavaScript

^

Polyfills and transforms enable older browsers to use new JavaScript features. However, many aren't necessary for modern browsers. Consider modifying your JavaScript build process to not transpile [Baseline](#) features, unless you know you must support older browsers. [Learn why most sites can deploy ES6+ code without transpiling](#) (FCP) (LCP) (Unscored)

●

Modern HTTP

^

HTTP/2 and HTTP/3 offer many benefits over HTTP/1.1, such as multiplexing. [Learn more about using modern HTTP](#). (FCP) (LCP) (Unscored)

●

Optimize viewport for mobile

^

Tap interactions may be [delayed by up to 300 ms](#) if the viewport is not optimized for mobile. (Unscored)

meta

●

Reduce unused CSS

^

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) (Unscored)

●

Image elements have explicit [width](#) and [height](#)

^

Set an explicit width and height on image elements to reduce layout shifts and improve CLS. [Learn how to set image dimensions](#) (CLS) (Unscored)



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.

NAMES AND LABELS

▲

Form elements do not have associated labels

^

Labels ensure that form controls are announced properly by assistive technologies, like screen readers. [Learn more about form element labels](#).

Failing Elements
input.appearance-none.w-3.h-3.border.border-slate-600.bg-transparent.checked:bg-neon...
input.appearance-none.w-3.h-3.border.border-slate-600.bg-transparent.checked:bg-neon...
input.appearance-none.w-3.h-3.border.border-slate-600.bg-transparent.checked:bg-neon...

[illegible]

[illegible]

▲ Select elements do not have associated label elements.

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

Failing Elements

 `select.bg-transparent.text-[9px].font-bold.text-slate-300.focus:outline-none.upperca...`

Failing Elements



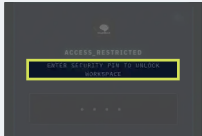
These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

CONTRAST

▲ Background and foreground colors do not have a sufficient contrast ratio. ^

Low-contrast text is difficult or impossible for many users to read. [Learn how to provide sufficient color contrast.](#)

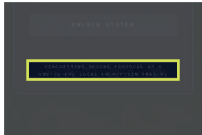
Failing Elements



p.text-[10px].text-slate-500.uppercase.tracking-widest.font-mono



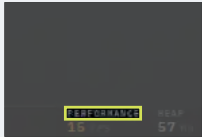
div.w-full.max-w-sm.bg-slate-900.border.border-neon-cyan/30.cut-corner-md.p-8.shadow...



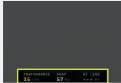
p.text-[8px].text-slate-600.uppercase.tracking-[0.2em].font-mono.leading-relaxed



div.w-full.max-w-sm.bg-slate-900.border.border-neon-cyan/30.cut-corner-md.p-8.shadow...



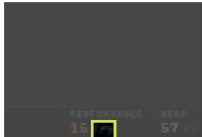
span.text-[7px].text-slate-500.uppercase.font-bold.tracking-widest.leading-none.mb-0...



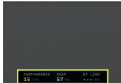
div.flex.items-center.gap-4.px-3.py-1.bg-black/40.border.border-white/5.cut-corner-s...



div.h-7.bg-[#050608].border-t.border-white/10.flex.items-center.justify-between.px-3...



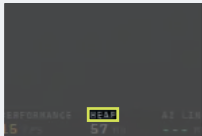
span.text-[7px].text-slate-600.font-mono



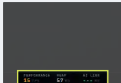
div.flex.items-center.gap-4.px-3.py-1.bg-black/40.border.border-white/5.cut-corner-s...



div.h-7.bg-[#050608].border-t.border-white/10.flex.items-center.justify-between.px-3...



span.text-[7px].text-slate-500.uppercase.font-bold.tracking-widest.leading-none.mb-0...



div.flex.items-center.gap-4.px-3.py-1.bg-black/40.border.border-white/5.cut-corner-s...

Failing Elements



div.h-7.bg-[#050608].border-t.border-white/10.flex.items-center.justify-between.px-3...



span.text-[7px].text-slate-600.font-mono



div.flex.items-center.gap-4.px-3.py-1.bg-black/40.border.border-white/5.cut-corner-s...



div.h-7.bg-[#050608].border-t.border-white/10.flex.items-center.justify-between.px-3...



span.text-[7px].text-slate-500.uppercase.font-bold.tracking-widest.leading-none.mb-0...



div.flex.items-center.gap-4.px-3.py-1.bg-black/40.border.border-white/5.cut-corner-s...



div.h-7.bg-[#050608].border-t.border-white/10.flex.items-center.justify-between.px-3...



span.text-[7px].text-slate-600.font-mono



div.flex.items-center.gap-4.px-3.py-1.bg-black/40.border.border-white/5.cut-corner-s...



div.h-7.bg-[#050608].border-t.border-white/10.flex.items-center.justify-between.px-3...



span



div.h-7.bg-[#050608].border-t.border-white/10.flex.items-center.justify-between.px-3...



span.text-neon-purple.bg-neon-purple/10.px-1



div.h-7.bg-[#050608].border-t.border-white/10.flex.items-center.justify-between.px-3...



span



div.h-7.bg-[#050608].border-t.border-white/10.flex.items-center.justify-between.px-3...



span.text-[8px].border.border-white/10.px-1



div.h-7.bg-[#050608].border-t.border-white/10.flex.items-center.justify-between.px-3...

Failing Elements

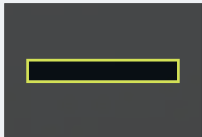
These are opportunities to improve the legibility of your content.

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



h4.text-[9px].font-bold.text-white.uppercase.tracking-wider.mb-2.border-b.border-whi...

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.](#) (Unscored)

○ 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.](#) (Unscored)

○ 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.](#) (Unscored)

○ 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.](#) (Unscored)

○ 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.](#) (Unscored)

○ 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.](#) (Unscored)

○ 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.](#) (Unscored)

○ 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.](#) (Unscored)

○ 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.](#) (Unscored)

○ Custom controls have ARIA roles

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

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

PASSED AUDITS (20)

Hide

● [aria-*] attributes match their roles

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

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

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

● [role]s have all required [aria-*] attributes

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

● [role] values are valid

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

● [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.](#)

<div><div></div><div>ARIA attributes are used as specified for the element's role</div><div></div></div>	
<div>Some ARIA attributes are only allowed on an element under certain conditions. Learn more about conditional ARIA attributes.</div>	
<div><div></div><div>Elements use only permitted ARIA attributes</div><div></div></div>	
<div>Using ARIA attributes in roles where they are prohibited can mean that important information is not communicated to users of assistive technologies. Learn more about prohibited ARIA roles.</div>	
<div><div></div><div>Document has a <code><title></code> element</div><div></div></div>	
<div>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.</div>	
<div><div></div><div><code><html></code> element has a <code>[lang]</code> attribute</div><div></div></div>	
<div>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.</div>	
<div><div></div><div><code><html></code> element has a valid value for its <code>[lang]</code> attribute</div><div></div></div>	
<div>Specifying a valid BCP 47 language helps screen readers announce text properly. Learn how to use the lang attribute.</div>	
<div><div></div><div>Lists contain only <code></code> elements and script supporting elements (<code><script></code> and <code><template></code>).</div><div></div></div>	
<div>Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. Learn more about proper list structure.</div>	
<div><div></div><div>List items (<code></code>) are contained within <code></code>, <code></code> or <code><menu></code> parent elements</div><div></div></div>	
<div>Screen readers require list items (<code></code>) to be contained within a parent <code></code>, <code></code> or <code><menu></code> to be announced properly. Learn more about proper list structure.</div>	
<div><div></div><div>No element has a <code>[tabindex]</code> value greater than 0</div><div></div></div>	
<div>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.</div>	
<div><div></div><div>Touch targets have sufficient size and spacing.</div><div></div></div>	
<div>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.</div>	
<div><div></div><div>Document has a main landmark.</div><div></div></div>	
<div>One main landmark helps screen reader users navigate a web page. Learn more about landmarks.</div>	
<div><div></div><div>Deprecated ARIA roles were not used</div><div></div></div>	
<div>Deprecated ARIA roles may not be processed correctly by assistive technology. Learn more about deprecated ARIA roles.</div>	
NOT APPLICABLE (36)	Hide
<div><div></div><div><code>[accesskey]</code> values are unique</div><div></div></div>	

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.](#) (Unscored)

☐ 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.](#) (Unscored)

☐ 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.](#) (Unscored)

☐ [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.](#) (Unscored)

☐ 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.](#) (Unscored)

☐ 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.](#) (Unscored)

☐ 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.](#) (Unscored)

☐ 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.](#) (Unscored)

☐ [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.](#) (Unscored)

☐ 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.](#) (Unscored)

☐ 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.](#) (Unscored)

☐ 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.](#) (Unscored)

- ☐ 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.](#) (Unscored)
- ☐ 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.](#) (Unscored)
- ☐ `<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.](#) (Unscored)
- ☐ 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.](#) (Unscored)
- ☐ 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.](#) (Unscored)
- ☐ 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.](#) (Unscored)
- ☐ `<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.](#) (Unscored)
- ☐ `<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.](#) (Unscored)
- ☐ 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.](#) (Unscored)
- ☐ `<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.](#) (Unscored)
- ☐ 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.](#) (Unscored)
- ☐ 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.](#) (Unscored)

- ☐ 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.](#) (Unscored)

- ☐ `<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.](#) (Unscored)

- ☐ Skip links are focusable. ^

Including a skip link can help users skip to the main content to save time. [Learn more about skip links.](#) (Unscored)

- ☐ 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.](#) (Unscored)

- ☐ `<th>` elements and elements with `[role="columnheader"]`/`[role="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.](#) (Unscored)

- ☐ `[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.](#) (Unscored)

- ☐ `<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.](#) (Unscored)

- ☐ 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.](#) (Unscored)

- ☐ 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.](#) (Unscored)

- ☐ 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.](#) (Unscored)

- ☐ 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.](#) (Unscored)

- ☐ 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.](#) (Unscored)



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	
(index):1	Unchecked runtime.lastError: The message port closed before a response was received.

▲ Issues were logged 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.

Issue type
Cookie
...5/13794-01.jpg (cdn.sparkfun.com)
...4/11308-01.jpg (cdn.sparkfun.com)

▲ Missing source maps for large first-party JavaScript ^

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.](#) (Unscored)

URL	Map URL
localhost 1st Party	
...deps/recharts.js?v=cbe08797 (localhost)	...deps/recharts.js.map (localhost)
Large JavaScript file is missing a source map	
Error: Timed out fetching resource	
...deps/jspdf.js?v=cbe08797 (localhost)	...deps/jspdf.js.map (localhost)
Large JavaScript file is missing a source map	
Error: Timed out fetching resource	
...deps/isomorphic-git.js?v=cbe08797 (localhost)	...deps/isomorphic-git.js.map (localhost)
Large JavaScript file is missing a source map	
Error: Waiting for the end of the IO stream exceeded the allotted time.	

URL	Map URL
<div>..deps/chunk-AGPXCMMHV.js?v=cbe08797 (localhost)</div> <div>Large JavaScript file is missing a source map</div> <div>Error: Timed out fetching resource</div>	<div>..deps/chunk-AGPXCMMHV.js.map (localhost)</div>
<div>..deps/three_add...js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>... deps/three_addons_shaders_FXAAShader__js.js.m ap (localhost)</div>
<div>..deps/three_add...js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>... deps/three_addons_postprocessing_UnrealBloomP ass__js.js.map (localhost)</div>
<div>..deps/three_add...js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>... deps/three_addons_postprocessing_RenderPass__ js.js.map (localhost)</div>
<div>..deps/three_add...js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>... deps/three_addons_postprocessing_OutputPass__ js.js.map (localhost)</div>
<div>..deps/three_add...js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>... deps/three_addons_postprocessing_EffectCompos er__js.js.map (localhost)</div>
<div>..deps/three_addons_libs_stats__module__js.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>... deps/three_addons_libs_stats__module__js.js.m ap (localhost)</div>
<div>..deps/three_add...js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>... deps/three_addons_controls_OrbitControls__js. js.map (localhost)</div>
<div>..deps/remark-gfm.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>..deps/remark-gfm.js.map (localhost)</div>
<div>..deps/remark-breaks.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>..deps/remark-breaks.js.map (localhost)</div>
<div>..deps/react-markdown.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>..deps/react-markdown.js.map (localhost)</div>
<div>..deps/react-i18next.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>..deps/react-i18next.js.map (localhost)</div>
<div>..deps/react-grid-layout.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>..deps/react-grid-layout.js.map (localhost)</div>
<div>..deps/minisearch.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>..deps/minisearch.js.map (localhost)</div>
<div>..deps/js-yaml.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>..deps/js-yaml.js.map (localhost)</div>

URL	Map URL
<div>...deps/isomorphic-git_http_web.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>...deps/isomorphic-git_http_web.js.map (localhost)</div>
<div>...deps/chunk-UBEP22SY.js?v=cbe08797 (localhost)</div> <div>Error: Waiting for the end of the IO stream exceeded the allotted time.</div>	<div>...deps/chunk-UBEP22SY.js.map (localhost)</div>
<div>...deps/chunk-Q7IPHAI2.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>...deps/chunk-Q7IPHAI2.js.map (localhost)</div>
<div>...deps/chunk-NY4Z4LNU.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>...deps/chunk-NY4Z4LNU.js.map (localhost)</div>
<div>...deps/chunk-KBC2SRZY.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>...deps/chunk-KBC2SRZY.js.map (localhost)</div>
<div>...deps/chunk-FQWSPWBL.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>...deps/chunk-FQWSPWBL.js.map (localhost)</div>
<div>...deps/chunk-FGCYCZNP.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>...deps/chunk-FGCYCZNP.js.map (localhost)</div>
<div>...deps/chunk-FCSS27DJ.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>...deps/chunk-FCSS27DJ.js.map (localhost)</div>
<div>...deps/chunk-SUITERNN.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>...deps/chunk-SUITERNN.js.map (localhost)</div>
<div>...deps/chunk-43GICWLZ.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>...deps/chunk-43GICWLZ.js.map (localhost)</div>
<div>...deps/@isomorphic-git_lightning-fs.js?v=cbe08797 (localhost)</div> <div>Error: Timed out fetching resource</div>	<div>...deps/@isomorphic-git_lightning-fs.js.map (localhost)</div>
<div>/types.ts (localhost)</div>	
<div>/styles/colors.ts (localhost)</div>	
<div>...viz/vizEngine.ts (localhost)</div>	
<div>/services/visionAna...ts?t=176... (localhost)</div>	
<div>/services/userProfileService.ts (localhost)</div>	
<div>/services/tutorialValidator.ts (localhost)</div>	
<div>/services/threeCodeRunner.ts (localhost)</div>	
<div>/services/syncService.ts?t=176... (localhost)</div>	
<div>/services/storage.ts (localhost)</div>	
<div>/services/standardsService.ts (localhost)</div>	
<div>/services/simulationEngine.ts (localhost)</div>	
<div>/services/serialService.ts (localhost)</div>	

URL	Map URL
/services/securityAuditor.ts (localhost)	
...search/searchIndexer.ts (localhost)	
/services/ragService.ts?t=176... (localhost)	
/services/predictionEngine.ts (localhost)	
/services/macroEngine.ts (localhost)	
...logging/auditService.ts (localhost)	
...localization/unitConverter.ts (localhost)	
/services/liveAudio.ts?t=176... (localhost)	
/services/knowledgeService.ts (localhost)	
/services/healthMonitor.ts (localhost)	
/services/gitService.ts?t=176... (localhost)	
/services/geminiService.ts?t=176... (localhost)	
...gemini/types.ts (localhost)	
...gemini/prompts.ts?t=176... (localhost)	
...gemini/parsers.ts (localhost)	
...gemini/index.ts?t=176... (localhost)	
...features/wiring.ts?t=176... (localhost)	
...features/versioning.ts?t=176... (localhost)	
...features/suggestions.ts?t=176... (localhost)	
...features/simulation.ts?t=176... (localhost)	
...features/predictions.ts?t=176... (localhost)	
...features/media.ts?t=176... (localhost)	
...features/hud.ts?t=176... (localhost)	
...features/datasheets.ts?t=176... (localhost)	
...features/components.ts?t=176... (localhost)	
...features/chat.ts?t=176... (localhost)	
...features/bom.ts?t=176... (localhost)	
...gemini/client.ts?t=176... (localhost)	
...feedback/correctionService.ts (localhost)	
...error/diagnosticsHub.ts (localhost)	
/services/datasetService.ts (localhost)	
/services/connectivityService.ts (localhost)	

URL	Map URL
...config/configManager.ts (localhost)	
/services/componentValidator.ts (localhost)	
/services/collabService.ts (localhost)	
/services/circuitAnalysisService.ts (localhost)	
/services/bomService.ts (localhost)	
/services/authService.ts (localhost)	
/services/apiKeyStorage.ts (localhost)	
...api/tokenService.ts (localhost)	
...analytics/projectAnalyzer.ts (localhost)	
/services/aiMetricsService.ts (localhost)	
/services/aiContextBuilder.ts (localhost)	
...client/env.mjs (localhost)	
...deps/yjs.js?v=cbe08797 (localhost)	
...deps/y-webrtc.js?v=cbe08797 (localhost)	...deps/y-webrtc.js.map (localhost)
...deps/three.js?v=cbe08797 (localhost)	
...deps/three_add...js?v=cbe08797 (localhost)	
...deps/react.js?v=cbe08797 (localhost)	
...deps/react-dom.js?v=cbe08797 (localhost)	
...deps/react-dom_client.js?v=cbe08797 (localhost)	...deps/react-dom_client.js.map (localhost)
...deps/react_jsx-dev-runtime.js?v=cbe08797 (localhost)	...deps/react_jsx-dev-runtime.js.map (localhost)
...deps/papaparse.js?v=cbe08797 (localhost)	...deps/papaparse.js.map (localhost)
...deps/framer-motion.js?v=cbe08797 (localhost)	...deps/framer-motion.js.map (localhost)
...deps/chunk-LK32TJAX.js?v=cbe08797 (localhost)	
...deps/chunk-GNWC3YX7.js?v=cbe08797 (localhost)	...deps/chunk-GNWC3YX7.js.map (localhost)
...deps/chunk-GLK2S3AE.js?v=cbe08797 (localhost)	...deps/chunk-GLK2S3AE.js.map (localhost)
...deps/chunk-D7ZASVPN.js?v=cbe08797 (localhost)	...deps/chunk-D7ZASVPN.js.map (localhost)
...deps/chunk-67YXWLLU.js?v=cbe08797 (localhost)	...deps/chunk-67YXWLLU.js.map (localhost)
...deps/chunk-2GVQ64BU.js?v=cbe08797 (localhost)	...deps/chunk-2GVQ64BU.js.map (localhost)
...deps/buffer.js?v=cbe08797 (localhost)	
...deps/@google_genai.js?v=cbe08797 (localhost)	...deps/@google_genai.js.map (localhost)
/index.tsx?t=176... (localhost)	

URL	Map URL
/hooks/useToast.tsx (localhost)	
/hooks/useSync.ts?t=176... (localhost)	
/hooks/useResizeHandler.ts (localhost)	
/hooks/usePermissions.ts (localhost)	
/hooks/useInventorySync.ts (localhost)	
/hooks/useHoverBehavior.ts (localhost)	
/hooks/useConversations.ts (localhost)	
/hooks/useConnectivity.ts (localhost)	
/hooks/useClickOutside.ts (localhost)	
/hooks/useAutonomySettings.ts (localhost)	
/hooks/useAIActions.ts (localhost)	
/hooks/useActionHistory.ts (localhost)	
...actions/navHandlers.ts (localhost)	
...actions/index.ts (localhost)	
...actions/diagramHandlers.ts (localhost)	
...actions/canvasHandlers.ts (localhost)	
...actions/appControlHandlers.ts (localhost)	
...tutorials/index.ts (localhost)	
/data/initialInventory.ts (localhost)	
/contexts/VoiceAssi...tsx?t=176... (localhost)	
/contexts/TutorialContext.tsx (localhost)	
/contexts/TelemetryContext.tsx (localhost)	
/contexts/SimulationContext.tsx (localhost)	
/contexts/NotificationContext.tsx (localhost)	
/contexts/MacroContext.tsx (localhost)	
/contexts/LayoutContext.tsx (localhost)	
/contexts/InventoryContext.tsx (localhost)	
/contexts/HUDContext.tsx (localhost)	
/contexts/HealthContext.tsx (localhost)	
/contexts/DiagramContext.tsx (localhost)	
/contexts/DashboardContext.tsx (localhost)	
/contexts/ConversationContext.tsx (localhost)	

URL	Map URL
/contexts/AuthContext.tsx (localhost)	
/contexts/AssistantStateContext.tsx (localhost)	
/components/SettingsPanel.tsx (localhost)	
...settings/LocalizationSettings.tsx (localhost)	
...settings/DiagnosticsView.tsx (localhost)	
...settings/DeveloperPortal.tsx (localhost)	
...settings/ConfigPortal.tsx (localhost)	
/components/MainLayout.tsx?t=176... (localhost)	
...layout/SystemVitals.tsx (localhost)	
...layout/SystemLogViewer.tsx (localhost)	
...layout/StatusRail.tsx (localhost)	
...layout/SimControls.tsx (localhost)	
...layout/SecurityReport.tsx (localhost)	
...layout/ProjectTimeline.tsx?t=176... (localhost)	
...layout/Omnisearch.tsx (localhost)	
...layout/ModeSelector.tsx (localhost)	
...layout/MentorOverlay.tsx (localhost)	
...layout/HardwareTerminal.tsx (localhost)	
...layout/DebugWorkbench.tsx?t=176... (localhost)	
...layout/CyberToast.tsx (localhost)	
...layout/CollaboratorList.tsx (localhost)	
...layout/BootcampPanel.tsx (localhost)	
...layout/AppLayout.tsx (localhost)	
...layout/AppHeader.tsx?t=176... (localhost)	
...layout/AnalyticsDashboard.tsx?t=176... (localhost)	
...inventory/MacroPanel.tsx (localhost)	
...inventory/inventoryUtils.ts (localhost)	
...inventory/InventoryList.tsx (localhost)	
...inventory/InventoryItem.tsx (localhost)	
...inventory/BOMModal.tsx?t=176... (localhost)	
/components/Inventory.tsx?t=176... (localhost)	
/components/IconButton.tsx (localhost)	

URL	Map URL
/components/ErrorBoundary.tsx (localhost)	
/components/DiagramCanvas.tsx (localhost)	
...diagram/Wire.tsx (localhost)	
...diagram/TacticalHUD.tsx (localhost)	
...diagram/PredictiveGhost.tsx (localhost)	
...diagram/index.ts (localhost)	
...diagram/diagramState.ts (localhost)	
...diagram/DiagramNode.tsx (localhost)	
...diagram/Diagram3DView.tsx (localhost)	
...diagram/componentShapes.ts (localhost)	
...dashboard/WidgetWrapper.tsx (localhost)	
...dashboard/WidgetLibrary.tsx (localhost)	
...dashboard/OscilloscopeWidget.tsx (localhost)	
...dashboard/LogicAnalyzerWidget.tsx (localhost)	
...dashboard/HeatmapWidget.tsx (localhost)	
...dashboard/DashboardView.tsx?t=176... (localhost)	
...dashboard/AnalogGauge.tsx (localhost)	
/components/ConversationSwitcher.tsx (localhost)	
/components/ChatPanel.tsx (localhost)	
/components/ChatMessage.tsx (localhost)	
...auth/Gatekeeper.tsx (localhost)	
/components/AssistantSidebar.tsx (localhost)	
/App.tsx?t=176... (localhost)	
/@vite/client (localhost)	
/@react-refresh (localhost)	
Unattributable	
chrome-extension://gighmmplobk1fepjocnamgkbbiglidom/polyfill.js	chrome-extension://gighmmplobk1fepjocnamgkbbiglidom/polyfill.js.map
Error: Failed fetching source map (null)	
chrome-extension://gighmmplobk1fepjocnamgkbbiglidom/polyfill.js	chrome-extension://gighmmplobk1fepjocnamgkbbiglidom/polyfill.js.map
Error: Failed fetching source map (null)	

URL	Map URL
chrome-extension://gighmmplobklfepjocnangkkbiglidom/globals-front.js	chrome-extension://gighmmplobklfepjocnangkkbiglidom/globals-front.js.map
Error: Failed fetching source map (null)	
chrome-extension://gighmmplobklfepjocnangkkbiglidom/cookie-banner-detection.preload.js	chrome-extension://gighmmplobklfepjocnangkkbiglidom/cookie-banner-detection.preload.js.map
Error: Failed fetching source map (null)	
chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/react_devtools_backend_compact.js	chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/react_devtools_backend_compact.js.map
Error: Failed fetching source map (null)	
chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/installHook.js	chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/installHook.js.map
Error: Failed fetching source map (null)	
chrome-extension://gighmmplobklfepjocnangkkbiglidom/vendor/@eyeo/webext-ad-filtering-solution/content.js	

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](#) (Unscored)

Description	Directive	Severity
No CSP found in enforcement mode		High

○ Use a strong HSTS policy

Deployment of the HSTS header significantly reduces the risk of downgrading HTTP connections and eavesdropping attacks. A rollout in stages, starting with a low max-age is recommended. [Learn more about using a strong HSTS policy.](#) (Unscored)

Description	Directive	Severity
No HSTS header found		High

○ Ensure proper origin isolation with COOP

The Cross-Origin-Opener-Policy (COOP) can be used to isolate the top-level window from other documents such as pop-ups. [Learn more about deploying the COOP header.](#) (Unscored)

Description	Directive	Severity
No COOP header found		High

○ Mitigate clickjacking with XFO or CSP

The X-Frame-Options (XFO) header or the frame-ancestors directive in the Content-Security-Policy (CSP) header control where a page can be embedded. These can mitigate clickjacking attacks by blocking some

or all sites from embedding the page. [Learn more about mitigating clickjacking.](#) (Unscored)

Description	Severity
No frame control policy found	High

Mitigate DOM-based XSS with Trusted Types

The require-trusted-types-for directive in the Content-Security-Policy (CSP) header instructs user agents to control the data passed to DOM XSS sink functions. [Learn more about mitigating DOM-based XSS with Trusted Types.](#) (Unscored)

Description	Severity
No `Content-Security-Policy` header with Trusted Types directive found	High

PASSED AUDITS (10) 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.](#)

Avoids third-party cookies

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. [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.](#)

NOT APPLICABLE (2)

Hide

- 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.](#)

Unscored

- Detected JavaScript libraries

^

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

Unscored



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.](#)

CONTENT BEST PRACTICES

- ▲

 Document does not have a meta description

^

Meta descriptions may be included in search results to concisely summarize page content. [Learn more about the meta description.](#)

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

CRAWLING AND INDEXING

- ▲

 robots.txt is not valid - 50 errors found

^

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.](#)

Line #	Content	Error
1	<!DOCTYPE html>	Syntax not understood
2	<html lang="en">	Syntax not understood
3	<head>	Syntax not understood
4	<script type="importmap">	Syntax not understood


Line #	Content	Error
5	{	Syntax not understood
6	"imports": {	Unknown directive
7	"react/": "https://esm.sh/react@^19.2.3/",	Unknown directive
8	"react": "https://esm.sh/react@^19.2.3",	Unknown directive
9	"react-dom/": "https://esm.sh/react-dom@^19.2.3/",	Unknown directive
10	"@google/genai": "https://esm.sh/@google/genai@^1.34.0",	Unknown directive
11	"three": "https://esm.sh/three@0.173.0",	Unknown directive
12	"three/addons/": "https://esm.sh/three@0.173.0/examples/jsm/",	Unknown directive
13	"three/": "https://esm.sh/three@^0.182.0/"	Unknown directive
14	}	Syntax not understood
15	}	Syntax not understood
16	</script>	Syntax not understood
17	<script type="module">import { injectIntoGlobalHook } from "@react-refresh";	Syntax not understood
18	injectIntoGlobalHook(window);	Syntax not understood
19	window.\$RefreshReg\$ = () => {};	Syntax not understood
20	window.\$RefreshSig\$ = () => (type) => type;</script>	Syntax not understood
22	<script type="module" src="@vite/client"></script>	Syntax not understood
24	<meta charset="UTF-8" />	Syntax not understood
25	<meta name="viewport" content="width=device-width, initial-scale=1.0" />	Syntax not understood
26	<title>CircuitMind AI</title>	Syntax not understood
27	<link href="https://fonts.googleapis.com/css2?family=IBM+Plex+Sans+Condensed:wght@300;400;500;600;700&family=IBM+Plex+Mono:wght@400;600&display=swap" rel="stylesheet">	Unknown directive

Line #	Content	Error
29	<link rel="stylesheet" href="/index.css">	Syntax not understood
30	</head>	Syntax not understood
31	<body>	Syntax not understood
32	<div id="root">	Syntax not understood
33	<style>	Syntax not understood
34	@keyframes boot-pulse { 0%, 100% { opacity: 0.4; transform: scale(0.95); } 50% { opacity: 1; transform: scale(1); } }	Unknown directive
35	@keyframes boot-scan { 0% { left: -100%; } 100% { left: 100%; } }	Unknown directive
37	position: fixed; inset: 0; background: #050508;	Unknown directive
38	display: flex; flex-direction: column; align-items: center; justify-content: center;	Unknown directive
39	gap: 24px; z-index: 9999; font-family: 'IBM Plex Mono', monospace;	Unknown directive
40	}	Syntax not understood
41	.boot-logo { width: 64px; height: 64px; animation: boot-pulse 2s infinite ease-in-out; filter: drop-shadow(0 0 12px rgba(0, 243, 255, 0.4)); }	Unknown directive
42	.boot-bar { width: 160px; height: 1px; background: rgba(255,255,255,0.05); position: relative; overflow: hidden; }	Unknown directive
43	.boot-progress { position: absolute; top: 0; bottom: 0; width: 60%; background: #00f3ff; animation: boot-scan 1.5s infinite linear; box-shadow: 0 0 8px #00f3ff; }	Unknown directive
44	.boot-text { color: #00f3ff; font-size: 9px; letter-spacing: 0.4em; text-transform: uppercase; opacity: 0.8; }	Unknown directive
45	</style>	Syntax not understood
46	<div id="initial-loader">	Syntax not understood
47		Syntax not understood
48	<div class="boot-bar"><div class="boot-progress"></div></div>	Syntax not understood
49	<div class="boot-text">System Boot Sequence</div>	Syntax not understood
50	</div>	Syntax not understood

Line #	Content	Error
51	</div>	Syntax not understood
52	<script type="module" src="/index.tsx?t=1769306620498"></script>	Syntax not understood
53	</body>	Syntax not understood
54	</html>	Syntax not understood

To appear in search results, crawlers need access to your app.

ADDITIONAL ITEMS TO MANUALLY CHECK (1) Hide


 Structured data is valid

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


Unscored

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


PASSED AUDITS (7) Hide

 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.](#)

 Document has a <title> element


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

 Page has successful HTTP status code


Pages with unsuccessful HTTP status codes may not be indexed properly. [Learn more about HTTP status codes.](#)

 Links have descriptive text


Descriptive link text helps search engines understand your content. [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](#)

 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.](#)

NOT APPLICABLE (1)

Hide

Document has a valid `rel=canonical`

^

Canonical links suggest which URL to show in search results. [Learn more about canonical links.](#)

Unscored

Captured at Jan 24, 2026, 8:11 PM CST

Initial page load

Emulated Desktop with Lighthouse 13.0.1

Custom throttling

Single page session

Using Chromium 144.0.0.0 with devtools

Generated by **Lighthouse** 13.0.1 | [File an issue](#)