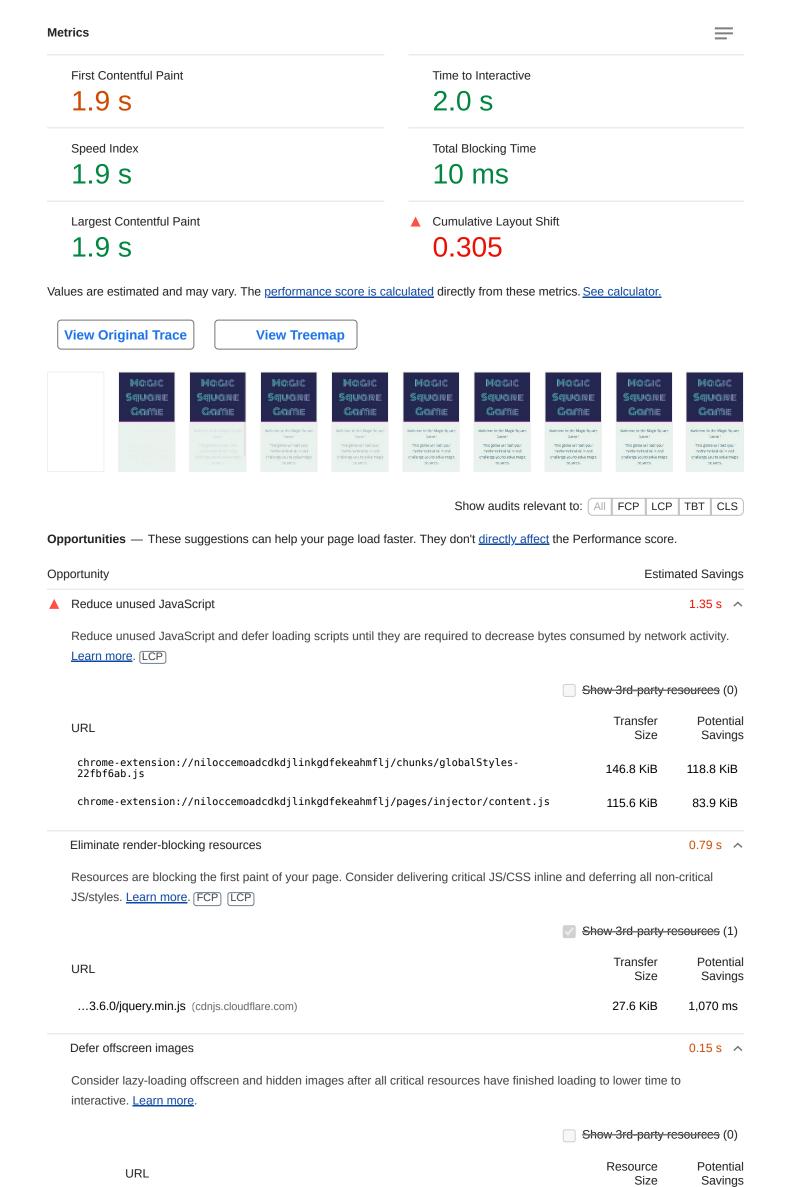
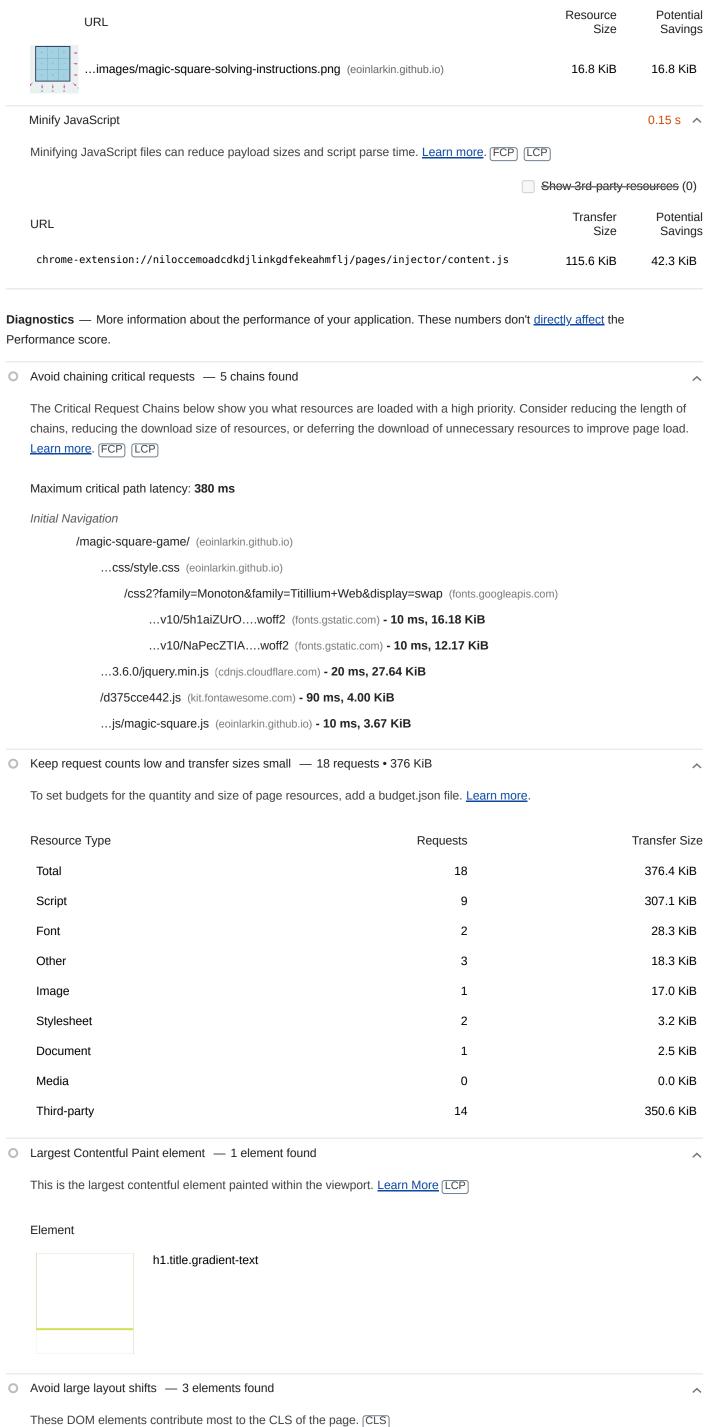


#### Performance





Those Dem demands contained to the OLE of the page.

Element CLS Contribution

Element **CLS Contribution** div.container 0.187 а 0.111 button#start-button.btn 0.008 O Avoid long main-thread tasks — 6 long tasks found Lists the longest tasks on the main thread, useful for identifying worst contributors to input delay. Learn more [TBT] ✓ Show 3rd-party resources (1) URL Start Time Duration 831 ms 277 ms /magic-square-game/ (eoinlarkin.github.io) /magic-square-game/ (eoinlarkin.github.io) 758 ms 73 ms ...3.6.0/jquery.min.js (cdnjs.cloudflare.com) 2,125 ms 63 ms /magic-square-game/ (eoinlarkin.github.io) 1,149 ms 62 ms chrome-extension://bfbmjmiodbnnpllbbbfblcplfjjepjdn/js/constants.js 1,211 ms 62 ms chrome-extension://aapbdbdomjkkjkaonfhkkikfgjllcleb/bubble\_compiled.js 1,273 ms 55 ms Passed audits (30) Properly size images Serve images that are appropriately-sized to save cellular data and improve load time. Learn more. Minify CSS Minifying CSS files can reduce network payload sizes. Learn more. FCP [LCP] Reduce unused CSS — Potential savings of 12 KiB Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity. Learn more. FCP LCP Show 3rd-party resources (0) Transfer Potential URL Savings Size /\*! \* Font Awesome Free 5.15.4 by @fontawesome - https://fontawesome.com \* 12.0 KiB 12.0 KiB License - https://fonta... Efficiently encode images Optimized images load faster and consume less cellular data. Learn more. Serve images in next-gen formats Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which means faster downloads and less data consumption. Learn more. Enable text compression Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. Learn more. [FCP] [LCP] Preconnect to required origins Consider adding 'preconnect' or 'dns-prefetch' resource hints to establish early connections to important third-party origins. Learn more. [FCP] [LCP] Initial server response time was short — Root document took 10 ms Keep the server response time for the main document short because all other requests depend on it. Learn more. [FCP] [LCP] Show 3rd-party resources (0)

URL Time Spent

	URL		Time Spe
	/magic-square-game/ (eoinlarkin.github.io)		10 ms
	Avoid multiple page redirects		
	Redirects introduce additional delays before the page can be loaded. <u>Learn more</u> . <u>FCP</u> <u>LCP</u>		
)	Preload key requests		
	Consider using ` <li>k rel=preload&gt;` to prioritize fetching resources that are currently requested later in parameters. FCP LCP</li>	age load	l. <u>Learn</u>
	Use HTTP/2		
	HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. <u>Learn more</u> .		
	Use video formats for animated content		
	Large GIFs are inefficient for delivering animated content. Consider using MPEG4/WebM videos for anim PNG/WebP for static images instead of GIF to save network bytes. Learn more CCP	nations	and
	Remove duplicate modules in JavaScript bundles		
	Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by n	etwork a	activity.
	Avoid serving legacy JavaScript to modern browsers — Potential savings of 0 KiB		
	Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't r modern browsers. For your bundled JavaScript, adopt a modern script deployment strategy using modul detection to reduce the amount of code shipped to modern browsers, while retaining support for legacy to More TBT	le/nomo	dule feature
		ra party	Potent
	URL		Savin
	<pre>chrome- extension://niloccemoadcdkdjlinkgdfekeahmflj/pages/injector/cont ent.js</pre>		0.2 Ki
	content.js:3361 @babel/plugin-transfo	orm-	
)	Preload Largest Contentful Paint image		
	Preload the image used by the LCP element in order to improve your LCP time. <u>Learn more</u> . <u>LCP</u>		
	Preload the image used by the LCP element in order to improve your LCP time. Learn more. LCP  Avoids enormous network payloads — Total size was 391 KiB	re (CP	
	Preload the image used by the LCP element in order to improve your LCP time. Learn more. LCP  Avoids enormous network payloads — Total size was 391 KiB  Large network payloads cost users real money and are highly correlated with long load times. Learn more		,
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	Preload the image used by the LCP element in order to improve your LCP time. Learn more. CCP  Avoids enormous network payloads — Total size was 391 KiB  Large network payloads cost users real money and are highly correlated with long load times. Learn mo  Show 3  URL  chrome-extension://niloccemoadcdkdjlinkgdfekeahmflj/chunks/globalStyles-22fbf6ab.js  chrome-extension://niloccemoadcdkdjlinkgdfekeahmflj/pages/injector/content.js 3.6.0/jquery.min.js (cdnjs.cloudflare.com) images/magic-square-solving-instructions.png (eoinlarkin.github.io) v10/5h1aiZUrOwoff2 (fonts.gstatic.com) assets/favicon.ico (eoinlarkin.github.io) css/free.min.css?token=d375cce442 (ka-f.fontawesome.com) v10/NaPecZTIAwoff2 (fonts.gstatic.com)  chrome-extension://niloccemoadcdkdjlinkgdfekeahmflj/chunks/actions-c28cfaee.js css/free-v4-shims.min.css?token=d375cce442 (ka-f.fontawesome.com)  Uses efficient cache policy on static assets — 3 resources found  A long cache lifetime can speed up repeat visits to your page. Learn more.	rd-party	resources (5 Transfer Si 146.8 Ki 115.6 Ki 27.6 Ki 17.0 Ki 16.2 Ki 15.0 Ki 12.9 Ki 12.2 Ki 4.8 Ki 4.4 Ki
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	Statistic	Element	:		Value
	Total DOM Elements				86
	Maximum DOM Depth	br			6
			body		
	Maximum Child Elements				10
	User Timing marks and measures				
					^
	Consider instrumenting your app with the User Timing API to measure you experiences. <u>Learn more</u> .	our app s	real-world peric	ormance during key	/ user
	JavaScript execution time — 0.6 s				^
	Consider reducing the time spent parsing, compiling, and executing JS.	You may	find delivering s	maller JS payloads	s helps
	with this. <u>Learn more</u> . (TBT)		J	. ,	·
			<b>✓</b> 5	Show 3rd-party res	ources (1)
	URL		Total CPU	Script	Script
			Time	Evaluation	Parse
	/magic-square-game/ (eoinlarkin.github.io)		650 ms	132 ms	85 ms
	3.6.0/jquery.min.js (cdnjs.cloudflare.com)		445 ms	223 ms	12 ms
	Unattributable		363 ms	48 ms	1 ms
	<pre>chrome-extension://bfbmjmiodbnnpllbbbfblcplfjjepjdn/js/content .</pre>	.js	68 ms	15 ms	51 ms
	<pre>chrome- extension://aapbdbdomjkkjkaonfhkkikfgjllcleb/bubble_compiled.j</pre>	is	63 ms	21 ms	39 ms
	Minimizes main-thread work — 1.8 s				^
	Consider reducing the time spent parsing, compiling and executing JS. Y	′ou mav	find delivering sr	naller JS navloads	helps
	with this. Learn more TBT		3	, ,	·
	Category				Time Spent
	Script Evaluation				537 ms
	Other				518 ms
	Style & Layout				262 ms
	Script Parsing & Compilation				238 ms
	Parse HTML & CSS				112 ms
	Rendering				101 ms
	Garbage Collection				33 ms
	Carbage Concentri				30 ms
	All text remains visible during webfont loads				^
	Leverage the font-display CSS feature to ensure text is user-visible while	webfon	ts are loading. <u>L</u>	earn more. FCP (	LCP
	Minimize third-party usage — Third-party code blocked the main thread	for 0 ms	6		^
	Third-party code can significantly impact load performance. Limit the num		-	arty providers and	try to
	load third-party code after your page has primarily finished loading. Learn	<u>n more</u> . (	TBT		
				Show 3rd party res	<del>ources</del> (0)
	Third-Party		Transfer Size	Main-Thread Blo	
	Google Fonts		29 KiB		0 ms
	v10/5h1aiZUrOwoff2 (fonts.gstatic.com)v10/NaPecZTIAwoff2 (fonts.gstatic.com)		16 KiB 12 KiB		0 ms 0 ms
	Cloudflare CDN		28 KiB		0 ms
	3.6.0/jquery.min.js (cdnjs.cloudflare.com)		28 KiB		0 ms
	FontAwesome CDN		22 KiB		0 ms
	css/free.min.css?token=d375cce442 (ka-f.fontawesome.com)		13 KiB		0 ms
	css/free-v4-shims.min.css?token=d375cce442 (ka-f.fontawesome.co	om)	4 KiB		0 ms
	Google Analytics		5 KiB 0 KiB		0 ms
	<u> </u>		O MD		J 1113
0	Lazy load third-party resources with facades				^
	Some third-party embeds can be lazy loaded. Consider replacing them w	vith a fac	ade until they ar	e required. <u>Learn r</u>	more.
0	Largest Contentful Paint image was not lazily loaded				^

	Above-the-fold images that are lazily loaded render later in the page lifecycle, which can delay the largest contentful paint. <u>Learn more</u> .	
	Uses passive listeners to improve scrolling performance	^
	Consider marking your touch and wheel event listeners as `passive` to improve your page's scroll performance. <u>Learn more</u> .	
	Avoids document.write()	^
	For users on slow connections, external scripts dynamically injected via `document.write()` can delay page load by tens of seconds. <u>Learn more</u> .	
0	Avoid non-composited animations	^
	Animations which are not composited can be janky and increase CLS. <u>Learn more</u> <u>CLS</u>	
	Image elements have explicit width and height	^
	Set an explicit width and height on image elements to reduce layout shifts and improve CLS. <u>Learn more CLS</u>	
	Has a <meta name="viewport"/> tag with width or initial-scale	^
	A ` <meta name="viewport"/> ` not only optimizes your app for mobile screen sizes, but also prevents <u>a 300 millisecond delay</u> to user input, Learn more, (TBT)	



## Accessibility

These checks highlight opportunities to improve the accessibility of your web app. Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

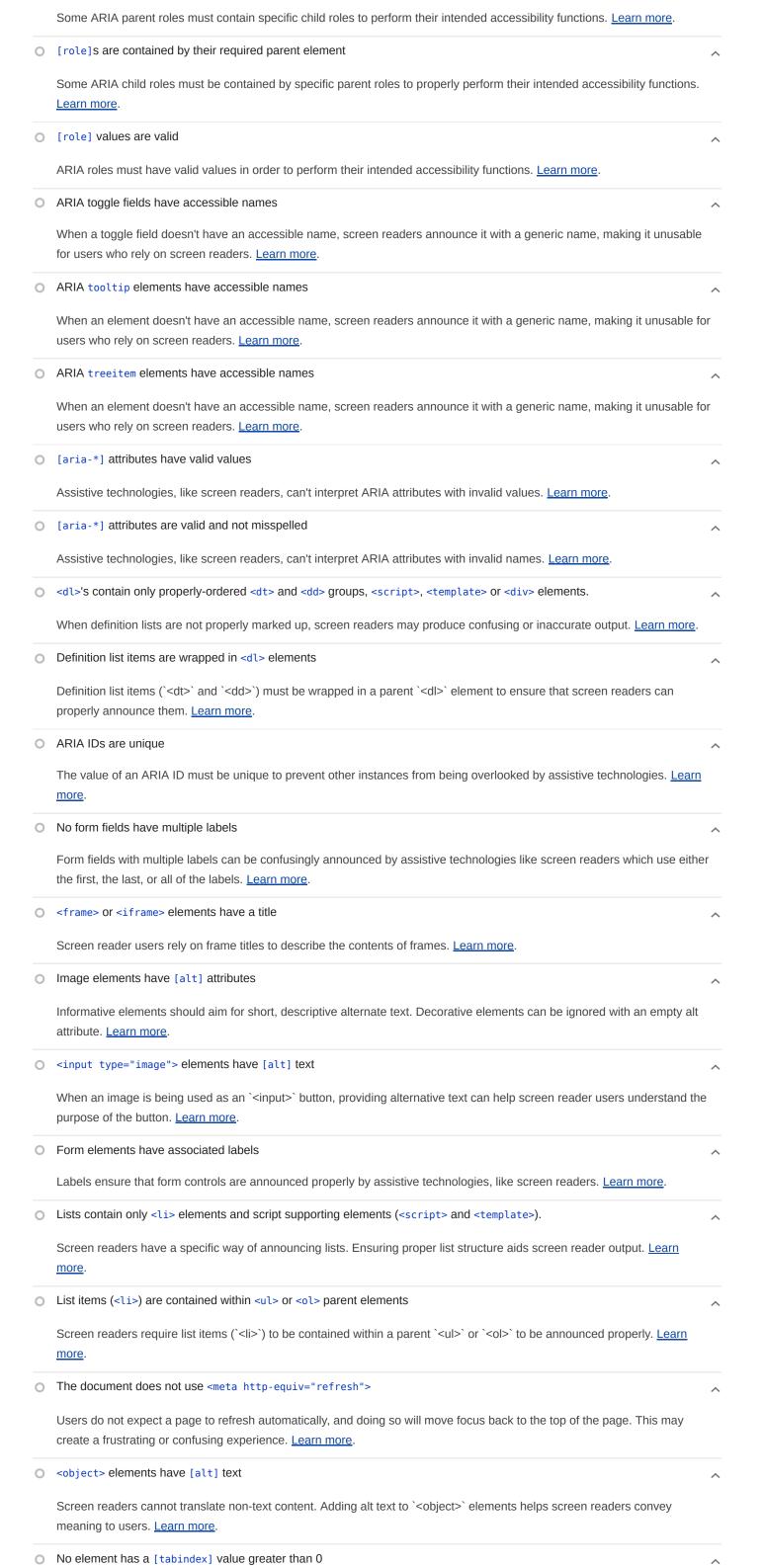
Additional items to manually check (10) — These items address areas which an automated testing tool cannot cover. Learn ^ more in our guide on conducting an accessibility review. The page has a logical tab order Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. Learn more. Interactive controls are keyboard focusable Custom interactive controls are keyboard focusable and display a focus indicator. Learn more. O Interactive elements indicate their purpose and state Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. Learn more. O The user's focus is directed to new content added to the page If new content, such as a dialog, is added to the page, the user's focus is directed to it. Learn more. O User focus is not accidentally trapped in a region A user can tab into and out of any control or region without accidentally trapping their focus. Learn more. Custom controls have associated labels Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. Learn more. Custom controls have ARIA roles Custom interactive controls have appropriate ARIA roles. Learn more O Visual order on the page follows DOM order DOM order matches the visual order, improving navigation for assistive technology. Learn more. Offscreen content is hidden from assistive technology Offscreen content is hidden with display: none or aria-hidden=true. Learn more. O HTML5 landmark elements are used to improve navigation Landmark elements (<main>, <nav>, etc.) are used to improve the keyboard navigation of the page for assistive technology. Learn more. Passed audits (12)

Assistive technologies, like screen readers, work inconsistently when `aria-hidden="true"` is set on the document `<body>`.

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

Learn more.

[aria-hidden="true"] elements do not contain focusable descendents Focusable descendents within an `[aria-hidden="true"]` element prevent those interactive elements from being available to users of assistive technologies like screen readers. Learn more. 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 more. 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. Background and foreground colors have a sufficient contrast ratio Low-contrast text is difficult or impossible for many users to read. Learn more 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. [id] attributes on active, focusable elements are unique All focusable elements must have a unique 'id' to ensure that they're visible to assistive technologies. Learn more. Heading elements appear in a sequentially-descending order Properly ordered headings that do not skip levels convey the semantic structure of the page, making it easier to navigate and understand when using assistive technologies. Learn more. <html> element has a [lang] attribute If a page doesn't specify a lang attribute, a screen reader assumes that the page is in the default language that the user chose when setting up the screen reader. If the page isn't actually in the default language, then the screen reader might not announce the page's text correctly. Learn more. <html> element has a valid value for its [lang] attribute Specifying a valid <u>BCP 47 language</u> helps screen readers announce text properly. <u>Learn more.</u> Links have a discernible name Link text (and alternate text for images, when used as links) that is discernible, unique, and focusable improves the navigation experience for screen reader users. Learn more. [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. Not applicable (32) [accesskey] values are unique Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. Learn more. [aria-\*] attributes match their roles Each ARIA `role` supports a specific subset of `aria-\*` attributes. Mismatching these invalidates the `aria-\*` attributes. Learn more. 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 more 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. ARIA meter 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 more 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 more [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. Elements with an ARIA [role] that require children to contain a specific [role] have all required children.



experiences for users who rely on assistive technologies. Learn more.

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

Screen readers have features to make navigating tables easier. Ensuring '' cells using the '[headers]' attribute only refer to other cells in the same table may improve the experience for screen reader users. Learn more.

Learn more.

elements and elements with [role="columnheader"/"rowheader"] have data cells they describe.

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

[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 more.

<a href="wideo-vid

A value greater than 0 implies an explicit navigation ordering. Although technically valid, this often creates frustrating



Best Practices				
Tru	ist and Safety			
0	Ensure CSP is effective against XSS attacks			^
	A strong Content Security Policy (CSP) significantly reduces the	e risk of cross-site scripting	(XSS) attacks. <u>Learn more</u>	
	Description	Directive	Severity	
	No CSP found in enforcement mode		High	
Ge	neral			
0	Detected JavaScript libraries			^
	All front-end JavaScript libraries detected on the page. Learn n	nore.		
	Name	Version		
	jQuery	3.6.0		
<u> </u>	Browser errors were logged to the console			^
	Errors logged to the console indicate unresolved problems. The concerns. <u>Learn more</u>	ey can come from network re	equest failures and other browser	
			Show 3rd-party resources (	1)
	Source Description	n		
	www.google-analytics.com/analytics.js:1 Failed to	load resource: net::ERR	_CONNECTION_REFUSED	
Pa	ssed audits (15)			^
	Uses HTTPS			^
	All sites should be protected with HTTPS, even ones that don't where some resources are loaded over HTTP despite the initial intruders from tampering with or passively listening in on the coprerequisite for HTTP/2 and many new web platform APIs. Lea	I request being served over ommunications between you	HTTPS. HTTPS prevents	
	Links to cross-origin destinations are safe			^
	Add `rel="noopener"` or `rel="noreferrer"` to any external links <u>Learn more</u> .	to improve performance and	prevent security vulnerabilities.	
	Avoids requesting the geolocation permission on page load			^
	Users are mistrustful of or confused by sites that request their laction instead. <u>Learn more</u> .	ocation without context. Cor	nsider tying the request to a user	
	Avoids requesting the notification permission on page load			^
	Users are mistrustful of or confused by sites that request to ser user gestures instead. <u>Learn more</u> .	nd notifications without conte	ext. Consider tying the request to	

	Avoids front-end JavaScript libraries with known security vulnerabilities	^
	Some third-party scripts may contain known security vulnerabilities that are easily identified and exploited by attackers. <u>Learn more</u> .	
	Allows users to paste into password fields	^
	Preventing password pasting undermines good security policy. <u>Learn more</u> .	
	Displays images with correct aspect ratio	^
	Image display dimensions should match natural aspect ratio. <u>Learn more</u> .	
	Serves images with appropriate resolution	^
	Image natural dimensions should be proportional to the display size and the pixel ratio to maximize image clarity. <u>Learn more</u> .	
	Page has the HTML doctype	^
	Specifying a doctype prevents the browser from switching to quirks-mode. <u>Learn more</u> .	
	Properly defines charset	^
	A character encoding declaration is required. It can be done with a ` <meta/> ` tag in the first 1024 bytes of the HTML or in the Content-Type HTTP response header. <u>Learn more</u> .	
	Avoids unload event listeners	^
	The `unload` event does not fire reliably and listening for it can prevent browser optimizations like the Back-Forward Cache. Consider using the `pagehide` or `visibilitychange` events instead. <u>Learn more</u>	
	Avoids Application Cache	^
	Application Cache is deprecated. <u>Learn more</u> .	
	Avoids deprecated APIs	^
	Deprecated APIs will eventually be removed from the browser. <u>Learn more</u> .	
	Page has valid source maps	^
	Source maps translate minified code to the original source code. This helps developers debug in production. In addition, Lighthouse is able to provide further insights. Consider deploying source maps to take advantage of these benefits. <a href="Learn more"><u>Learn more</u></a> .	
	No issues in the Issues panel in Chrome Devtools	^
	Issues logged to the `Issues` panel in Chrome Devtools indicate unresolved problems. They can come from network request failures, insufficient security controls, and other browser concerns. Open up the Issues panel in Chrome DevTools for more details on each issue.	t
No	t applicable (1)	^
0	Fonts with font-display: optional are preloaded	^
	Preload `optional` fonts so first-time visitors may use them. <u>Learn more</u>	



# 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 <a href="Core Web Vitals">Core Web Vitals</a>. <a href="Learn more">Learn more</a>.

**Additional items to manually check (1)** — Run these additional validators on your site to check additional SEO best practices.

O Structured data is valid

Run the Structured Data Testing Tool and the Structured Data Linter to validate structured data. Learn more.

Passed audits (11)

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

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

	Document has a <title> element&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;^&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;The title gives screen reader users an overview of the page, and search engine users rely on it h is relevant to their search. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;eavily to determine if a pag&lt;/td&gt;&lt;td&gt;ge&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Document has a meta description&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Meta descriptions may be included in search results to concisely summarize page content. Learn&lt;/td&gt;&lt;td&gt;n more.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Page has successful HTTP status code&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Pages with unsuccessful HTTP status codes may not be indexed properly. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Links have descriptive text&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Descriptive link text helps search engines understand your content. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Links are crawlable&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Search engines may use `href` attributes on links to crawl websites. Ensure that the `href` attributo an appropriate destination, so more pages of the site can be discovered. Learn More&lt;/td&gt;&lt;td&gt;te of anchor elements link&lt;/td&gt;&lt;td&gt;6&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Page isn't blocked from indexing&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Search engines are unable to include your pages in search results if they don't have permission to&lt;/td&gt;&lt;td&gt;to crawl them. &lt;u&gt;Learn more&lt;/u&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Document has a valid hreflang&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;hreflang links tell search engines what version of a page they should list in search results for a gi&lt;br&gt;&lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;ven language or region.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Document uses legible font sizes — 100% legible text&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Font sizes less than 12px are too small to be legible and require mobile visitors to "pinch to zoom have &gt;60% of page text ≥12px. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/th&gt;&lt;th&gt;" in order to read. Strive to&lt;/th&gt;&lt;th&gt;)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;have &gt;60% of page text ≥12px. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/th&gt;&lt;th&gt;" in order to read. Strive to&lt;br&gt;Show 3rd party resources&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;have &gt;60% of page text ≥12px. &lt;u&gt;Learn more&lt;/u&gt;.  Source Selector % of Page Text&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;have &gt;60% of page text ≥12px. &lt;u&gt;Learn more&lt;/u&gt;.&lt;/td&gt;&lt;td&gt;Show 3rd-party resources&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;have &gt;60% of page text ≥12px. &lt;u&gt;Learn more&lt;/u&gt;.  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Source Selector % of Page Text  Legible text 100.00%  Document avoids plugins  Search engines can't index plugin content, and many devices restrict plugins or don't support the&lt;/td&gt;&lt;td&gt;Show 3rd-party resources  Font Size  ≥ 12px  m. Learn more.&lt;/td&gt;&lt;td&gt;(0)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;No&lt;/td&gt;&lt;td&gt;have &gt;60% of page text ≥12px. Learn more.  Source Selector % of Page Text  Legible text 100.00%  Document avoids plugins  Search engines can't index plugin content, and many devices restrict plugins or don't support the Tap targets are sized appropriately — 100% appropriately sized tap targets  Interactive elements like buttons and links should be large enough (48x48px), and have enough sized tap targets.&lt;/td&gt;&lt;td&gt;Show 3rd-party resources  Font Size  ≥ 12px  m. Learn more.&lt;/td&gt;&lt;td&gt;(0)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;No&lt;/td&gt;&lt;td&gt;have &gt;60% of page text ≥12px. Learn more.  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Source Selector % of Page Text  Legible text 100.00%  Document avoids plugins  Search engines can't index plugin content, and many devices restrict plugins or don't support the  Tap targets are sized appropriately — 100% appropriately sized tap targets  Interactive elements like buttons and links should be large enough (48x48px), and have enough easy enough to tap without overlapping onto other elements. Learn more.  Not applicable (3)  O robots.txt is valid  If your robots.txt file is malformed, crawlers may not be able to understand how you want your were&lt;/td&gt;&lt;td&gt;Show 3rd-party resources  Font Size  ≥ 12px  m. Learn more.  space around them, to be&lt;/td&gt;&lt;td&gt;^ ^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;No&lt;/td&gt;&lt;td&gt;have &gt;60% of page text ≥12px. Learn more.  Source Selector % of Page Text  Legible text 100.00%  Document avoids plugins  Search engines can't index plugin content, and many devices restrict plugins or don't support the  Tap targets are sized appropriately — 100% appropriately sized tap targets  Interactive elements like buttons and links should be large enough (48x48px), and have enough easy enough to tap without overlapping onto other elements. Learn more.  Not applicable (3)  Probots.txt is valid  If your robots.txt file is malformed, crawlers may not be able to understand how you want your we indexed. Learn more.&lt;/td&gt;&lt;td&gt;Show 3rd-party resources  Font Size  ≥ 12px  m. Learn more.  space around them, to be&lt;/td&gt;&lt;td&gt;(0)&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>
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## Progressive Web App

These checks validate the aspects of a Progressive Web App. Learn more.

#### Installable

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

Canonical links suggest which URL to show in search results. Learn more.

Service worker is the technology that enables your app to use many Progressive Web App features, such as offline, add to homescreen, and push notifications. With proper service worker and manifest implementations, browsers can proactively prompt users to add your app to their homescreen, which can lead to higher engagement. <u>Learn more</u>.

Failure reason

No manifest was fetched

	PWA Optimized	
<b>A</b>	Does not register a service worker that controls page and start_url	/
	The service worker is the technology that enables your app to use many Progressive Web App features, such as offline, act to homescreen, and push notifications. <u>Learn more</u> .	d
	Redirects HTTP traffic to HTTPS	/
	If you've already set up HTTPS, make sure that you redirect all HTTP traffic to HTTPS in order to enable secure web features for all your users. <u>Learn more</u> .	
<b>A</b>	Is not configured for a custom splash screen Failures: No manifest was fetched.	,
	A themed splash screen ensures a high-quality experience when users launch your app from their homescreens. <u>Learn more</u> .	
<u> </u>	Does not set a theme color for the address bar.	
	Failures: No manifest was fetched, No ` <meta name="theme-color"/> ` tag found.	
	The browser address bar can be themed to match your site. <u>Learn more</u> .	
	Content is sized correctly for the viewport	,
	If the width of your app's content doesn't match the width of the viewport, your app might not be optimized for mobile screens. <u>Learn more</u> .	
	Has a <meta name="viewport"/> tag with width or initial-scale	
	A ` <meta name="viewport"/> ` not only optimizes your app for mobile screen sizes, but also prevents <u>a 300 millisecond dela to user input</u> . <u>Learn more</u> . <u>TBT</u>	<u>(</u>
<b>A</b>	Does not provide a valid apple-touch-icon	
	For ideal appearance on iOS when users add a progressive web app to the home screen, define an `apple-touch-icon`. It must point to a non-transparent 192px (or 180px) square PNG. <u>Learn More</u> .	
<u> </u>	Manifest doesn't have a maskable icon No manifest was fetched	
	A maskable icon ensures that the image fills the entire shape without being letterboxed when installing the app on a device <u>Learn more</u> .	
	ditional items to manually check (3) — These checks are required by the baseline PWA Checklist but are not omatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.	
0	Site works cross-browser	,
	To reach the most number of users, sites should work across every major browser. <u>Learn more</u> .	
0	Page transitions don't feel like they block on the network	
	Transitions should feel snappy as you tap around, even on a slow network. This experience is key to a user's perception of performance. <u>Learn more</u> .	
0	Each page has a URL	
	Ensure individual pages are deep linkable via URL and that URLs are unique for the purpose of shareability on social medi Learn more.	ì.

### Runtime Settings

URL	https://eoinlarkin.github.io/magic-square-game/
Fetch Time	Dec 9, 2021, 8:52 AM GMT
Device	Emulated Moto G4
Network throttling	150 ms TCP RTT, 1,638.4 Kbps throughput (Simulated)
CPU throttling	4x slowdown (Simulated)
Channel	devtools
User agent (host)	Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.93 Safari/537.36
User agent (network)	Mozilla/5.0 (Linux; Android 7.0; Moto G (4)) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/94.0.4590.2 Mobile Safari/537.36 Chrome-Lighthouse
CPU/Memory Power	1436
Axe version	4.2.3

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