

https://kuzco-watches.herokuapp.com/



















Performance

Accessibility

**Best Practices** 

**SEO** 

Progressive Web App



0-49 50-89 90-100



# Performance

First Contentful Paint

 $0.8 \, s$ 

**Metrics** 

Speed Index

Largest Contentful Paint

1.3 s

Time to Interactive

 $0.8 \, s$ 

**Total Blocking Time** 

ms

**Cumulative Layout Shift** 

0.001

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

**View Original Trace** 

**View Treemap** 



Opportunity



















 $\equiv$ 

Show audits relevant to: All FCP LCP TBT CLS



Opportunities — These suggestions can help your page load faster. They don't directly affect the Performance score.

Eliminate render-blocking resources

0.56 s ^

**Estimated Savings** 

Resources are blocking the first paint of your page. Consider delivering critical JS/CSS inline and deferring all non-critical JS/styles. Learn more. (FCP) (LCP)

	Show 3rd party re	esources (9)
URL	Transfer Size	Potential Savings
/css2?family=Lato&display=swap (fonts.googleapis.com)	0.9 KiB	210 ms
4.0.0/animate.min.css (cdnjs.cloudflare.com)	4.9 KiB	240 ms
css/all.css (use.fontawesome.com)	11.7 KiB	330 ms
css/bootstrap.min.css (stackpath.bootstrapcdn.com)	24.3 KiB	340 ms
css/style.css (kuzco-watches.s3.amazonaws.com)	13.4 KiB	440 ms
/jquery-3.6.0.min.js (code.jquery.com)	30.4 KiB	540 ms
umd/popper.min.js (cdn.jsdelivr.net)	7.6 KiB	280 ms
js/bootstrap.min.js (stackpath.bootstrapcdn.com)	16.2 KiB	80 ms
/v3/ (js.stripe.com)	71.4 KiB	510 ms
Reduce unused JavaScript		0.2 s ^
Reduce unused JavaScript and defer loading scripts until they are required to decrease b <u>Learn more</u> . <u>LCP</u>	ytes consumed by netw	ork activity.
	Show 3rd party re	esources (2)
URL	Show 3rd party re  Transfer  Size	Potential Savings
URL /v3/ (js.stripe.com)	Transfer	Potential
	Transfer Size	Potential Savings
/v3/ (js.stripe.com)	Transfer Size 71.4 KiB	Potential Savings 55.3 KiB
/v3/ (js.stripe.com) /jquery-3.6.0.min.js (code.jquery.com)	Transfer Size 71.4 KiB 30.4 KiB	Potential Savings 55.3 KiB 20.9 KiB
/v3/ (js.stripe.com) /jquery-3.6.0.min.js (code.jquery.com)  Use HTTP/2	Transfer Size 71.4 KiB 30.4 KiB	Potential Savings 55.3 KiB 20.9 KiB
/v3/ (js.stripe.com) /jquery-3.6.0.min.js (code.jquery.com)  Use HTTP/2	Transfer Size 71.4 KiB 30.4 KiB	Potential Savings 55.3 KiB 20.9 KiB
/v3/ (js.stripe.com) /jquery-3.6.0.min.js (code.jquery.com)  Use HTTP/2 HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing.	Transfer Size 71.4 KiB 30.4 KiB  searn more.	Potential Savings 55.3 KiB 20.9 KiB
/v3/ (js.stripe.com) /jquery-3.6.0.min.js (code.jquery.com)  Use HTTP/2 HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. L	Transfer Size 71.4 KiB 30.4 KiB  Learn more.  Chow 3rd-party re	Potential Savings 55.3 KiB 20.9 KiB
/v3/ (js.stripe.com) /jquery-3.6.0.min.js (code.jquery.com)  Use HTTP/2 HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. L URLcss/style.css (kuzco-watches.s3.amazonaws.com)	Transfer Size 71.4 KiB 30.4 KiB  Show 3rd-party reprotocol http/1.1	Potential Savings 55.3 KiB 20.9 KiB
/v3/ (js.stripe.com) /jquery-3.6.0.min.js (code.jquery.com)  Use HTTP/2 HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. L  URLcss/style.css (kuzco-watches.s3.amazonaws.com)favicon/favicon.png (kuzco-watches.s3.amazonaws.com)	Transfer Size 71.4 KiB 30.4 KiB 30.4 KiB  Show 3rd-party reprotocol http/1.1 http/1.1	Potential Savings 55.3 KiB 20.9 KiB
//3/ (js.stripe.com)  /jquery-3.6.0.min.js (code.jquery.com)  Use HTTP/2  HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. L  URL css/style.css (kuzco-watches.s3.amazonaws.com) favicon/favicon.png (kuzco-watches.s3.amazonaws.com) favicon/card_men.jpg (kuzco-watches.s3.amazonaws.com)	Transfer Size 71.4 KiB 30.4 KiB 30.4 KiB  Show 3rd-party re Protocol http/1.1 http/1.1	Potential Savings 55.3 KiB 20.9 KiB

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

<b>A</b>	Ensure text remains visible during webfont load		^
	Leverage the font-display CSS feature to ensure text is user-visible while webfonts	are loading. <u>Learn more</u> . FC	CP (LCP)
		Show 3rd-party	resources (3)
	URL		Potential Savings
	webfonts/fa-solid-900.woff2 (use.fontawesome.com)		2,190 ms
	webfonts/fa-regular-400.woff2 (use.fontawesome.com)		2,320 ms
	webfonts/fa-brands-400.woff2 (use.fontawesome.com)		2,790 ms
<b>A</b>	Image elements do not have explicit width and height		^
	Set an explicit width and height on image elements to reduce layout shifts and impro	ove CLS. <u>Learn more</u> CLS	
		Show 3rd-party	resources (1)
	URL	Failing Elements	
	favicon/favicon.png (kuzco-watches.s3.amazonaws.com)		img
	Serve static assets with an efficient cache policy — 4 resources found		^
	A long cache lifetime can speed up repeat visits to your page. <u>Learn more</u> .		
		Show 3rd party	resources (4)
	URL	Cache TTL	Transfer Size
	/v3/ (js.stripe.com)	1 m	71 KiB
	js/m-outer-35486fbjs (js.stripe.com)	1 m	1 KiB
	/out-4.5.41.js (m.stripe.network)	5 m	14 KiB
	dist/email.min.js (cdn.jsdelivr.net)	7 d	9 KiB
	Avoid enormous network payloads — Total size was 3,190 KiB		^
	Large network payloads cost users real money and are highly correlated with long lo	oad times. <u>Learn more</u> . <u>LCP</u>	
		Show 3rd-party r	esources (10)
	URL		Transfer Size
	video/home-video.mp4 (kuzco-watches.s3.amazonaws.com)		2,365.0 KiB
	video/home-video.mp4 (kuzco-watches.s3.amazonaws.com)		189.0 KiB
	webfonts/fa-solid-900.woff2 (use.fontawesome.com)		78.1 KiB
	webfonts/fa-brands-400.woff2 (use.fontawesome.com)		73.4 KiB
	/v3/ (js.stripe.com)		71.4 KiB

URL	Transfer Size
favicon/card_men.jpg (kuzco-watches.s3.amazonaws.com)	55.6 KiB
video/home-video.mp4 (kuzco-watches.s3.amazonaws.com)	51.0 KiB
favicon/women_card.jpg (kuzco-watches.s3.amazonaws.com)	43.7 KiB
favicon/sale_card.jpg (kuzco-watches.s3.amazonaws.com)	35.0 KiB
/jquery-3.6.0.min.js (code.jquery.com)	30.4 KiB

## O Avoid chaining critical requests — 13 chains found

The Critical Request Chains below show you what resources are loaded with a high priority. Consider reducing the length of chains, reducing the download size of resources, or deferring the download of unnecessary resources to improve page load. <u>Learn more</u>. (FCP) (LCP)

Maximum critical path latency: 3,580 ms

Initial Navigation

https://kuzco-watches.herokuapp.com

/css2?family=Lato&display=swap (fonts.googleapis.com)

...v20/S6uyw4BMU....woff2 (fonts.gstatic.com) - 50 ms, 13.83 KiB

...4.0.0/animate.min.css (cdnjs.cloudflare.com) - 180 ms, 4.89 KiB

...css/all.css (use.fontawesome.com)

...webfonts/fa-solid-900.woff2 (use.fontawesome.com) - 2,190 ms, 78.11 KiB

...webfonts/fa-regular-400.woff2 (use.fontawesome.com) - 2,320 ms, 15.31 KiB

...webfonts/fa-brands-400.woff2 (use.fontawesome.com) - 2,790 ms, 73.36 KiB

...css/bootstrap.min.css (stackpath.bootstrapcdn.com) - 70 ms, 24.33 KiB

...css/style.css (kuzco-watches.s3.amazonaws.com) - 580 ms, 13.41 KiB

/jquery-3.6.0.min.js (code.jquery.com) - 690 ms, 30.40 KiB

 $... umd/popper.min.js \ (\texttt{cdn.jsdelivr.net}) \textbf{ - 80 ms, 7.59 KiB}$ 

...js/bootstrap.min.js (stackpath.bootstrapcdn.com) - 80 ms, 16.15 KiB

/v3/ (js.stripe.com) - 80 ms, 71.44 KiB

...dist/email.min.js (cdn.jsdelivr.net) - 110 ms, 9.49 KiB

...dist/sweetalert.min.js (unpkg.com)

...dist/sweetalert.min.js (unpkg.com) - 80 ms, 12.07 KiB

Keep request counts low and transfer sizes small — 30 requests • 3,190 KiB

To set budgets for the quantity and size of page resources, add a budget json file. Learn more.

Resource Type	Requests	Transfer Size
Total	30	3,190.2 KiB
Media	3	2,605.0 KiB
Font	4	180.6 KiB
Script	8	162.4 KiB

Resource Type	Requests	Transfer Size
Image	4	162.0 KiB
Stylesheet	5	55.2 KiB
Document	3	24.3 KiB
Other	3	0.7 KiB
Third-party	29	3,168.7 KiB
Largest Contentful Paint	element — 1 element found	^
This is the largest conten	tful element painted within the viewport. <u>Learn More</u> <u>LCP</u>	
Element		
	h3.animateanimated.animatefadeInUp.animatedelay-1s	
Avoid large layout shifts	— 5 elements found	^
These DOM elements co	ntribute most to the CLS of the page. CLS	
Flement		CLS Contribution
Element	div#main-nav.collapse.navbar-collapse	
Element	div#main-nav.collapse.navbar-collapse  h4.logo-font.my-1	
Element		0
Element		
Element		0
Element		0
Element	h4.logo-font.my-1	0
Element	h4.logo-font.my-1	0
Element	h4.logo-font.my-1  div.row	0
Element	h4.logo-font.my-1	0
Element	h4.logo-font.my-1  div.row	0
Element	h4.logo-font.my-1  div.row	0

**CLS Contribution** Element li.list-inline-item.list-unstyled.text-center.text-lg-right.my-0 0 Passed audits (28) Properly size images — Potential savings of 120 KiB Serve images that are appropriately-sized to save cellular data and improve load time. Learn more. Show 3rd-party resources (4) Resource Potential **URL** Size Savings ...favicon/card\_men.jpg (kuzco-watches.s3.amazonaws.com) 55.1 KiB 44.1 KiB ..favicon/women\_card.jpg (kuzco-watches.s3.amazonaws.com) 43.2 KiB 27.1 KiB ...favicon/favicon.png (kuzco-watches.s3.amazonaws.com) 27.3 KiB 27.0 KiB KUŻCÓ 34.5 KiB 21.6 KiB ...favicon/sale\_card.jpg (kuzco-watches.s3.amazonaws.com) Defer offscreen images Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive. Learn more. Minify CSS — Potential savings of 4 KiB Minifying CSS files can reduce network payload sizes. Learn more. FCP [LCP] Show 3rd-party resources (1) Transfer Potential **URL** Size Savings ...css/style.css (kuzco-watches.s3.amazonaws.com) 13.4 KiB 3.8 KiB Minify JavaScript Minifying JavaScript files can reduce payload sizes and script parse time. Learn more. [FCP] [LCP] Reduce unused CSS — Potential savings of 34 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 (2)

<del>,</del> ,,,,,,,,,		
URL	Transfer Size	Potential Savings
css/bootstrap.min.css (stackpath.bootstrapcdn.com)	24.3 KiB	23.0 KiB
css/all.css (use.fontawesome.com)	11.7 KiB	11.5 KiB
Efficiently encode images		^
Optimized images load faster and consume less cellular data. <u>Learn more</u> .		
Serve images in next-gen formats — Potential savings of 92 KiB		^
Image formats like WebP and AVIF often provide better compression than PNG or JPI and less data consumption. <u>Learn more</u> .	EG, which means faster do	wnloads
	Show 3rd-party r	esources (4)
URL	Resource Size	Potential Savings
favicon/card_men.jpg (kuzco-watches.s3.amazonaws.com)	55.1 KiB	29.4 KiB
favicon/women_card.jpg (kuzco-watches.s3.amazonaws.com)	43.2 KiB	22.8 KiB
favicon/favicon.png (kuzco-watches.s3.amazonaws.com)	27.3 KiB	20.3 KiB
favicon/sale_card.jpg (kuzco-watches.s3.amazonaws.com)	34.5 KiB	19.9 KiB
Enable text compression — Potential savings of 27 KiB		^
Text-based resources should be served with compression (gzip, deflate or brotli) to mi more. FCP LCP	nimize total network bytes.	<u>Learn</u>
	Show 3rd-party r	esources (1)
URL	Transfer Size	Potentia Savings
https://kuzco-watches.herokuapp.com	21.3 KiB	16.8 KiB
css/style.css (kuzco-watches.s3.amazonaws.com)	12.9 KiB	9.9 KiB
Preconnect to required origins		^
Consider adding `preconnect` or `dns-prefetch` resource hints to establish early connected to the connected	ections to important third-pa	arty origins.
Initial server response time was short — Root document took 30 ms		^
Keep the server response time for the main document short because all other request [LCP]	s depend on it. <u>Learn more</u>	. FCP
	Show 3rd party re	eseurces (0)
URL		Time Spent
https://kuzco-watches.herokuapp.com		30 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>
0	Preload key requests
	Consider using ` <li>k rel=preload&gt;` to prioritize fetching resources that are currently requested later in page load. <u>Learn</u> more. <u>FCP</u> <u>LCP</u></li>
	Use video formats for animated content
	Large GIFs are inefficient for delivering animated content. Consider using MPEG4/WebM videos for animations and PNG/WebP for static images instead of GIF to save network bytes. <u>Learn more LCP</u>
	Remove duplicate modules in JavaScript bundles
	Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by network activity.
	Avoid serving legacy JavaScript to modern browsers — Potential savings of 16 KiB
	Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't necessary for modern browsers. For your bundled JavaScript, adopt a modern script deployment strategy using module/nomodule feature detection to reduce the amount of code shipped to modern browsers, while retaining support for legacy browsers. <a href="Learn More">Learn</a> More TBT
	Show 3rd-party resources (4)
	URL Potential Savings
0	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>
	Avoids an excessive DOM size — 228 elements
	A large DOM will increase memory usage, cause longer <u>style calculations</u> , and produce costly <u>layout reflows</u> . <u>Learn more</u> .
	Statistic Element Value
	Total DOM Elements 228
	Maximum DOM Depth i.fas.fa-search 13
	body
	Maximum Child Elements 12
0	User Timing marks and measures
	Consider instrumenting your app with the User Timing API to measure your app's real-world performance during key user experiences. <u>Learn more</u> .
	JavaScript execution time — 0.0 s

Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. <u>Learn more</u>. [TBT]

Show 3rd party resources (0)

URL	Total CPU Time	Script Evaluation	Script Parse
https://kuzco-watches.herokuapp.com	79 ms	1 ms	0 ms
Unattributable	76 ms	2 ms	0 ms

Minimizes main-thread work — 0.2 s

Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this. <u>Learn more</u> (TBT)

Category	Time Spent
Other	108 ms
Script Evaluation	30 ms
Style & Layout	27 ms
Rendering	14 ms
Parse HTML & CSS	11 ms
Script Parsing & Compilation	6 ms

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

Third-party code can significantly impact load performance. Limit the number of redundant third-party providers and try to load third-party code after your page has primarily finished loading. <u>Learn more</u>. TBT

Show 3rd party resources (0)

Third-Party	Transfer Size	Main-Thread Blocking Time
Amazon Web Services	2,780 KiB	0 ms
video/home-video.mp4 (kuzco-watches.s3.amazonaws.com)	2,605 KiB	0 ms
Other resources	175 KiB	0 ms
FontAwesome CDN	178 KiB	0 ms
webfonts/fa-solid-900.woff2 (use.fontawesome.com)	78 KiB	0 ms
webfonts/fa-brands-400.woff2 (use.fontawesome.com)	73 KiB	0 ms
webfonts/fa-regular-400.woff2 (use.fontawesome.com)	15 KiB	0 ms
css/all.css (use.fontawesome.com)	12 KiB	0 ms
<u>Stripe</u>	90 KiB	0 ms
/v3/ (js.stripe.com)	71 KiB	0 ms
/out-4.5.41.js (m.stripe.network)	14 KiB	0 ms
Other resources	5 KiB	0 ms
Bootstrap CDN	40 KiB	0 ms
css/bootstrap.min.css (stackpath.bootstrapcdn.com)	24 KiB	0 ms
js/bootstrap.min.js (stackpath.bootstrapcdn.com)	16 KiB	0 ms

	Third-Party	Transfer Size	Main-Thread Blocking Time
	jQuery CDN	30 KiB	0 ms
	/jquery-3.6.0.min.js (code.jquery.com)	30 KiB	0 ms
	JSDelivr CDN	17 KiB	0 ms
	dist/email.min.js (cdn.jsdelivr.net)	9 KiB	0 ms
	umd/popper.min.js (cdn.jsdelivr.net)	8 KiB	0 ms
	Google Fonts	15 KiB	0 ms
	v20/S6uyw4BMUwoff2 (fonts.gstatic.com)	14 KiB	0 ms
	<u>Unpkg</u>	12 KiB	0 ms
	dist/sweetalert.min.js (unpkg.com)	12 KiB	0 ms
	Cloudflare CDN	5 KiB	0 ms
	4.0.0/animate.min.css (cdnjs.cloudflare.com)	5 KiB	0 ms
0	Lazy load third-party resources with facades		^
	Some third-party embeds can be lazy loaded. Consider replacing then TBT	n with a facade until they a	are required. <u>Learn more</u> .
0	Largest Contentful Paint image was not lazily loaded		^
	Above-the-fold images that are lazily loaded render later in the page li <u>Learn more</u> .	fecycle, which can delay t	he largest contentful paint.
	Uses passive listeners to improve scrolling performance		^
	Consider marking your touch and wheel event listeners as `passive` to	improve your page's scr	oll performance. <u>Learn more</u> .
	Avoids document.write()		^
	For users on slow connections, external scripts dynamically injected viseconds. <u>Learn more</u> .	ia `document.write()` can	delay page load by tens of
0	Avoid long main-thread tasks		^
	Lists the longest tasks on the main thread, useful for identifying worst	contributors to input delay	. <u>Learn more</u> TBT
0	Avoid non-composited animations		^
	Animations which are not composited can be janky and increase CLS.	Learn more CLS	
	Has a <meta name="viewport"/> tag with width or initial-scale		^
	A ` <meta name="viewport"/> ` not only optimizes your app for mobile so to user input. Learn more. TBT	creen sizes, but also prevo	ents <u>a 300 millisecond delay</u>



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.

**Names and labels** — 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.

<b>A</b>	Buttons do not have an accessible name
	When a button doesn't have an accessible name, screen readers announce it as "button", making it unusable for users who
	rely on screen readers. <u>Learn more</u> .
	Failing Elements
	button.search-btn.btn-outline
Cor	ntrast — These are opportunities to improve the legibility of your content.
_	Background and foreground colors do not have a sufficient contrast ratio.
	Low-contrast text is difficult or impossible for many users to read. <u>Learn more</u> .
	Failing Elements
	h3.animateanimated.animatefadeInUp.animatedelay-1s
	input#from_email.subscribe-form
	input#button.subscribe-btn
Nav	rigation — These are opportunities to improve keyboard navigation in your application.
<b>A</b>	Heading elements are not in a sequentially-descending order
	Properly ordered headings that do not skip levels convey the semantic structure of the page, making it easier to navigate
	and understand when using assistive technologies. <u>Learn more</u> .
	Failing Elements
	h5.card-title.mt-3
	h5.service-text

**Tables and lists** — These are opportunities to improve the experience of reading tabular or list data using assistive technology, like a screen reader.

	Lists do not contain only <1i> elements and script supporting elements ( <script> and <template>).</th></tr><tr><th></th><th>Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. <u>Learn</u> more.</th></tr><tr><th></th><th>Failing Elements  ul.navbar-nav.w-auto.mx-auto</th></tr><tr><th></th><th></th></tr><tr><th></th><th>ditional items to manually check (10) — These items address areas which an automated testing tool cannot cover. Learn re in our guide on conducting an accessibility review.</th></tr><tr><td>0</td><td>The page has a logical tab order</td></tr><tr><td></td><td>Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. <u>Learn more</u>.</td></tr><tr><td>0</td><td>Interactive controls are keyboard focusable</td></tr><tr><td></td><td>Custom interactive controls are keyboard focusable and display a focus indicator. <u>Learn more</u>.</td></tr><tr><td>0</td><td>Interactive elements indicate their purpose and state</td></tr><tr><td></td><td>Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. <u>Learn more</u>.</td></tr><tr><td>0</td><td>The user's focus is directed to new content added to the page</td></tr><tr><td></td><td>If new content, such as a dialog, is added to the page, the user's focus is directed to it. <u>Learn more</u>.</td></tr><tr><td>0</td><td>User focus is not accidentally trapped in a region</td></tr><tr><td></td><td>A user can tab into and out of any control or region without accidentally trapping their focus. <u>Learn more</u>.</td></tr><tr><td>0</td><td>Custom controls have associated labels</td></tr><tr><td></td><td>Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more</u>.</td></tr><tr><td>0</td><td>Custom controls have ARIA roles</td></tr><tr><td></td><td>Custom interactive controls have appropriate ARIA roles. <u>Learn more</u>.</td></tr><tr><td>0</td><td>Visual order on the page follows DOM order</td></tr><tr><td></td><td>DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more</u>.</td></tr><tr><td rowspan=2>0</td><td>Offscreen content is hidden from assistive technology</td></tr><tr><td></td></tr></tbody></table></script>		
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Landmark elements (<main>, <nav>, etc.) are used to improve the keyboard navigation of the page for assistive technology.

O HTML5 landmark elements are used to improve navigation

Learn more.

1/8/22, 2:11 PM Passed audits (17) [aria-\*] attributes match their roles Each ARIA 'role' supports a specific subset of 'aria-\*' attributes. Mismatching these invalidates the 'aria-\*' attributes. Learn more. [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 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. [aria-\*] attributes have valid values Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. Learn more. [aria-\*] attributes are valid and not misspelled Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. 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. 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. ARIA IDs are unique The value of an ARIA ID must be unique to prevent other instances from being overlooked by 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 BCP 47 language helps screen readers announce text properly. Learn more.

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.

Form elements have associated labels

	Labels ensure that form controls are announced properly by assistive technologies, like screen readers. <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. <u>Learn more</u> .	
	List items ( <li>) are contained within <ul> or <ol> parent elements</ol></ul></li>	^
	Screen readers require list items (` <li>') to be contained within a parent `<ul>' or `<ol>' to be announced properly. <u>Learn more</u>.</ol></ul></li>	
	[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 web page. <u>Learn more</u> .	а
	<pre><video> elements contain a <track/> element with [kind="captions"]</video></pre>	^
	When a video provides a caption it is easier for deaf and hearing impaired users to access its information. <u>Learn more</u> .	
No	t applicable (23)	^
0	[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	<u>⊇</u> .
0	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. <u>Learn more</u> .	
0	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. <u>Learn more</u> .	<del>)</del>
0	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. <u>Learn more</u> .	
0	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. <u>Learn more</u> .	
0	[role]s have all required [aria-*] attributes	^
	Some ARIA roles have required attributes that describe the state of the element to screen readers. <u>Learn more</u> .	
0	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. <u>Learn more</u> .	
0	[role]s are contained by their required parent element	^

	Some ARIA child roles must be contained by specific parent roles to properly perform their intended accessibility functions. <u>Learn more</u> .	
0	[role] values are valid	^
	ARIA roles must have valid values in order to perform their intended accessibility functions. <u>Learn more</u> .	
0	ARIA toggle fields have accessible names	^
	When a toggle field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn more</u> .	
0	ARIA tooltip 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. <u>Learn more</u> .	
0	ARIA treeitem 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. <u>Learn more</u> .	
0	<pre><dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements.</pre></td><td>^</td></tr><tr><td></td><td>When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. <u>Learn more</u>.</td><td></td></tr><tr><td>0</td><td>Definition list items are wrapped in <dl> elements</td><td>^</td></tr><tr><td></td><td>Definition list items ('<dt>' and '<dd>') must be wrapped in a parent '<dl>' element to ensure that screen readers can properly announce them. <u>Learn more</u>.</td><td></td></tr><tr><td>0</td><td>No form fields have multiple labels</td><td>^</td></tr><tr><td></td><td>Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use either the first, the last, or all of the labels. <u>Learn more</u>.</td><td></td></tr><tr><td>0</td><td><frame> or <iframe> elements have a title</td><td>^</td></tr><tr><td></td><td>Screen reader users rely on frame titles to describe the contents of frames. <u>Learn more</u>.</td><td></td></tr><tr><td>0</td><td><pre><input type="image"> elements have [alt] text</pre></td><td>^</td></tr><tr><td></td><td>When an image is being used as an `<input>` button, providing alternative text can help screen reader users understand the purpose of the button. <u>Learn more</u>.</td><td></td></tr><tr><td>0</td><td>The document does not use <meta http-equiv="refresh"></td><td>^</td></tr><tr><td></td><td>Users do not expect a page to refresh automatically, and doing so will move focus back to the top of the page. This may create a frustrating or confusing experience. <u>Learn more</u>.</td><td></td></tr><tr><td>0</td><td><object> elements have [alt] text</td><td>^</td></tr><tr><td></td><td>Screen readers cannot translate non-text content. Adding alt text to `<object>` elements helps screen readers convey meaning to users. <u>Learn more</u>.</td><td></td></tr><tr><td>0</td><td>No element has a [tabindex] value greater than 0</td><td>^</td></tr><tr><td></td><td>A value greater than 0 implies an explicit navigation ordering. Although technically valid, this often creates frustrating experiences for users who rely on assistive technologies. <u>Learn more</u>.</td><td></td></tr></tbody></table></script></dd></dt></dl></pre>	

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. <u>Learn more</u>.

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. <u>Learn more</u>.

O [lang] attributes have a valid value

Specifying a valid <u>BCP 47 language</u> on elements helps ensure that text is pronounced correctly by a screen reader. <u>Learn more</u>.



# **Best Practices**

# **Trust and Safety**

Ensure CSP is effective against XSS attacks

A strong Content Security Policy (CSP) significantly reduces the risk of cross-site scripting (XSS) attacks. <u>Learn more</u>

Description Directive Severity

No CSP found in enforcement mode High

#### General

Detected JavaScript libraries

All front-end JavaScript libraries detected on the page. Learn more.

Name Version

Bootstrap 4.4.1

jQuery 3.6.0

core-js core-js-global@3.15.2

# Passed audits (16)

**Uses HTTPS** 

All sites should be protected with HTTPS, even ones that don't handle sensitive data. This includes avoiding <u>mixed content</u>, where some resources are loaded over HTTP despite the initial request being served over HTTPS. HTTPS prevents

No browser errors logged to the console

concerns. Learn more

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. Links to cross-origin destinations are safe Add `rel="noopener"` or `rel="noreferrer"` to any external links to improve performance and prevent security vulnerabilities. Learn more. 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. 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. 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. Learn more. Allows users to paste into password fields Preventing password pasting undermines good security policy. Learn more. Displays images with correct aspect ratio Image display dimensions should match natural aspect ratio. Learn more. Serves images with appropriate resolution Image natural dimensions should be proportional to the display size and the pixel ratio to maximize image clarity. Learn more. Page has the HTML doctype Specifying a doctype prevents the browser from switching to quirks-mode. Learn more. 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. 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. Learn more Avoids Application Cache Application Cache is deprecated. Learn more. Avoids deprecated APIs Deprecated APIs will eventually be removed from the browser. Learn more.

Errors logged to the console indicate unresolved problems. They can come from network request failures and other browser

17/22

Page has valid source maps

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

Show 3rd-party resources (2)

URL

Map URL

- ...js/bootstrap.min.js (stackpath.bootstrapcdn.com)
- ...js/bootstrap.min.js.map (stackpath.bootstrapcdn.com)

...umd/popper.min.js (cdn.jsdelivr.net)

...umd/popper.min.js.map (cdn.jsdelivr.net)

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.

## Not applicable (1)

^

Fonts with font-display: optional are preloaded

^

Preload 'optional' fonts so first-time visitors may use them. Learn more



#### SEC

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>.

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

 $\mathbf{A}$ 

Document does not have a meta description

Meta descriptions may be included in search results to concisely summarize page content. Learn more.

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



Structured data is valid

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

Passed audits (9)

	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. <u>Learn more</u> . <u>TBT</u>	
	Document has a <title> element&lt;/td&gt;&lt;td&gt;^&lt;/td&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 heavily to determine if a page is relevant to their search. &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;Page has successful HTTP status code&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;/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;/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;/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;/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' attribute of anchor elements links to an appropriate destination, so more pages of the site can be discovered. Learn 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 isn't blocked from indexing&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 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;Image elements have [alt] attributes&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. &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;/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 given language or region.  &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 avoids plugins&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 can't index plugin content, and many devices restrict plugins or don't support 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;No&lt;/td&gt;&lt;td&gt;t applicable (4)&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;/tr&gt;&lt;tr&gt;&lt;td&gt;0&lt;/td&gt;&lt;td&gt;robots.txt is valid&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;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.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;0&lt;/td&gt;&lt;td&gt;Document has a valid rel=canonical&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Canonical links suggest which URL to show in search results. &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;0&lt;/td&gt;&lt;td&gt;Document uses legible font sizes&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Font sizes less than 12px are too small to be legible and require mobile visitors to "pinch to zoom" in order to read. Strive to have &gt;60% of page text ≥12px. &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;0&lt;/td&gt;&lt;td&gt;Tap targets are sized appropriately&lt;/td&gt;&lt;td&gt;^&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>	

Interactive elements like buttons and links should be large enough (48x48px), and have enough space around them, to be easy enough to tap without overlapping onto other elements. <u>Learn more</u>.



# Progressive Web App

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

#### Installable

▲ Web app manifest or service worker do not meet the installability requirements — 1 reason

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**

▲ 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, add to homescreen, and push notifications. Learn more.

▲ Does not redirect 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>.

▲ 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>.

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. Learn more.

O 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 delay</u> to user input. <u>Learn more</u>. (TBT)

▲ 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>.

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>.

**Additional items to manually check (3)** — These checks are required by the baseline <u>PWA Checklist</u> but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

Site works cross-browser

To reach the most number of users, sites should work across every major browser. Learn more.

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>.

Each page has a URL

Ensure individual pages are deep linkable via URL and that URLs are unique for the purpose of shareability on social media. <u>Learn more</u>.

#### Runtime Settings

URL https://kuzco-watches.herokuapp.com/

Fetch Time Jan 8, 2022, 2:10 PM GMT

**Device** Emulated Desktop

**Network throttling** 40 ms TCP RTT, 10,240 Kbps throughput (Simulated)

CPU throttling 1x slowdown (Simulated)

Channel devtools

User agent (host) Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like

Gecko) Chrome/97.0.4692.71 Safari/537.36

User agent (network) Mozilla/5.0 (Macintosh; Intel Mac OS X 10\_15\_7) AppleWebKit/537.36 (KHTML,

like Gecko) Chrome/94.0.4590.2 Safari/537.36 Chrome-Lighthouse

CPU/Memory Power 2236

Axe version

Generated by **Lighthouse** 8.5.0 | File an issue

4.2.3