

https://kcboyy.github.io/Portfolio/index.html



68

75

80



Performance

Accessibility

Best Practices SEO

O PWA



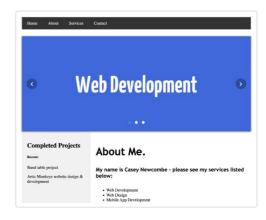
Performance

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

0-49

50-89

90-100



METRICS Expand view

First Contentful Paint

 $0.5 \, s$

Total Blocking Time

0 ms

Speed Index

 $0.5 \, s$

Largest Contentful Paint

 $0.5 \, s$

Cumulative Layout Shift

0

View Treemap

View Original Trace

Sono Ahest Services	Cornet	Hose Ahost Soviess	Conset	Hose Ahost Soviess	Conset	Stone Ahest Services	Comot	Hone Ahne Services	Comot	Hose Aheit Services	Comot	Hone Ahest Services	Comer
• V	Veb Development	o W	eb Development	o W	eb Development	o W	eb Development	o W	eb Development	• W	eb Development	o W	eb Development
Completed Projects	About Me.	Completed Projects	About Me.	Completed Projects	About Me.	Completed Projects	About Me.	Completed Projects	About Me.	Completed Projects	About Me.	Completed Projects	About Me.
Band table project Artic Monkeys website design & development	My name is Casey Newcombe - please see my ser- below:	Band table project Artic Mankeys website design & development	My name is Casey Newcombe - please see my ser below:	Band table project Artic Mankeys website design & development	My name is Casey Newcombe - please see my ser below:	Band table project Artic Monkeys website design & development	My name is Casey Newcombe - please see my ser- below:	Band side project Artic Monkeys website design & development	My name is Casey Nowcombe - please see my ser- below:	Sand table project Artic Monkeys website design & development	My name is Casey Newcombe - please see my ser- below:	Band side project Artic Monkeys website design & development	My name is Casey Newcombe - please see my services It below:
	With Chrydopasse With Cholige Michille Age Development		Web Development Web Design Widdle-Arm Construences		Web Development Web Design Widdle Arm Construence		With Chrosiognast With Chrosiognast Modella App Development		With Development With Development Mobile App Development		With Development With Development Mobile App Development		Not-Development Not-Design Mobile App Development



Show audits relevant to: All FCP LCP TBT CLS

about:blank

OPPORTUNITIES

Opportunity Estimated Savings

Eliminate render-blocking resources

0.22s ^

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

URL	Transfer Size	Potential Savings
Cloudflare CDN Cdn	5.8 KiB	230 ms
css/font-awesome.min.css (cdnjs.cloudflare.com)	5.8 KiB	230 ms

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

DIAGNOSTICS

▲ Ensure text remains visible during webfont load

^

Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading. <u>Learn more about font-display</u>. <u>(FCP)</u> <u>(LCP)</u>

URL	Potential Savings
Cloudflare CDN Cdn	70 ms
fonts/fontawesome-webfont.woff2?v=4.7.0 (cdnjs.cloudflare.com)	70 ms

▲ Image elements do not have explicit width and height

^

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

			URL
fakeir	mg.pl		
		img	4169E1/fff?text=Web%20Development (fakeimg.pl)

about:blank 2/27

	URL
img	0000FF/fff?text=Web%20Design (fakeimg.pl)
img	000080/fff?text=Mobile%20App%20Development (fakeimg.pl)

Serve static assets with an efficient cache policy — 4 resources found

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

✓ Show 3rd-party resources (3)

URL	Cache TTL	Transfer Size
fakeimg.pl		89 KiB
000080/fff?text=Mobile%20App%20Development (fakeimg.pl)	10h	34 KiB
4169E1/fff?text=Web%20Development (fakeimg.pl)	10h	30 KiB
0000FF/fff?text=Web%20Design (fakeimg.pl)	10h	25 KiB
GitHub Utility 1st Party		2 KiB
/Portfolio/style.css (kcboyy.github.io)	10m	2 KiB

○ Avoid chaining critical requests - 2 chains found

The Critical Request Chains below show you what resources are loaded with a high priority. Consider reducing the length of chains, reducing the download size of resources, or deferring the download of unnecessary resources to improve page load. Learn how to avoid chaining critical requests. FCP LCP

Maximum critical path latency: 272.34 ms

Initial Navigation

/Portfolio/index.html (kcboyy.github.io)

/Portfolio/style.css (kcboyy.github.io) - 128.457 ms, 1.89 KiB

...css/font-awesome.min.css (cdnjs.cloudflare.com)

about:blank 3/27

...fonts/fontawesome-webfont.woff2?v=4.7.0 (cdnjs.cloudflare.com) - 73.225 ms, 76.00 KiB

○ Keep request counts low and transfer sizes small − 7 requests • 174 KiB

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

Resource Type	Requests	Transfer Size
Total	7.0	173.9 KiB
Image	3.0	88.9 KiB
Font	1.0	76.0 KiB
Stylesheet	2.0	7.7 KiB
Document	1.0	1.3 KiB
Media	0.0	0.0 KiB
Script	0.0	0.0 KiB
Other	0.0	0.0 KiB
Third-party	7.0	173.9 KiB

0	Largest	Contentful	Paint	element		l e	lemen ⁻	t 1	found	l
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This is the largest contentful element painted within the viewport. <u>Learn more about the Largest Contentful Paint element</u> <u>LCP</u>

Element			
	img		

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

PASSED AUDITS (33)

Properly size images — Potential savings of 19 KiB

about:blank 4/27

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

	URL	Resource Size	Potential Savings
fakeimg.pl		88.0 KiB	19.2 KiB
img	000080/fff? text=Mobile%20App%20Development (fakeimg.pl)	33.5 KiB	7.3 KiB
img	4169E1/fff?text=Web%20Development (fakeimg.pl)	29.4 KiB	6.4 KiB
img	0000FF/fff?text=Web%20Design (fakeimg.pl)	25.1 KiB	5.5 KiB
Defer offscreen images			^
Consider lazy-loading offscre interactive. <u>Learn how to defend</u>	en and hidden images after all critical resources have finished ler offscreen images.	oading to lower t	ime to
Minify CSS			^
Minifying CSS files can reduc	e network payload sizes. Learn how to minify CSS. FCP LCP		
Minify JavaScript			^
Minifying JavaScript files can	reduce payload sizes and script parse time. Learn how to mini	f <u>y JavaScript</u> . (FC	EP LCP
Reduce unused CSS			^
	ylesheets and defer CSS not used for above-the-fold content to preduce unused CSS. FCP LCP	decrease bytes	consumed by

about:blank 5/27

Reduce unused JavaScript

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity. <u>Learn how to reduce unused JavaScript</u>. [LCP]

Efficiently encode images

^

Optimized images load faster and consume less cellular data. Learn how to efficiently encode images.

Serve images in next-gen formats — Potential savings of 33 KiB

^

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

	URL	Resource Size	Potential Savings
fakeimg.pl		88.0 KiB	32.7 KiB
img	4169E1/fff?text=Web%20Development (fakeimg.pl)	29.4 KiB	12.1 KiB
img	000080/fff? text=Mobile%20App%20Development (fakeimg.pl)	33.5 KiB	11.0 KiB
img	0000FF/fff?text=Web%20Design (fakeimg.pl)	25.1 KiB	9.6 KiB

Enable text compression

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

Preconnect to required origins

^

about:blank 6/27

Consider adding preconnect or dns-prefetch resource hints to establish early connections to important third-party origins. Learn how to preconnect to required origins. FCP [LCP]

Initial server response time was short — Root document took 30 ms

Keep the server response time for the main document short because all other requests depend on it. <u>Learn more about the Time to First Byte metric</u>. FCP <u>LCP</u>

URL

GitHub Utility 1st Party

30 ms

/Portfolio/index.html (kcboyy.github.io)

30 ms

Avoid multiple page redirects

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

Preload key requests

Consider using link rel=preload> to prioritize fetching resources that are currently requested later in page load.

<u>Learn how to preload key requests</u>. FCP <u>LCP</u>

Use HTTP/2

HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing. Learn more about HTTP/2.

Use video formats for animated content

Large GIFs are inefficient for delivering animated content. Consider using MPEG4/WebM videos for animations and PNG/WebP for static images instead of GIF to save network bytes. Learn more about efficient video formats [LCP]

Remove duplicate modules in JavaScript bundles

Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by network activity. [TBT]

Avoid serving legacy JavaScript to modern browsers

Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't necessary for modern browsers. For your bundled JavaScript, adopt a modern script deployment strategy using module/nomodule feature detection to reduce the amount of code shipped to modern browsers, while retaining support for legacy browsers. Learn how to use modern JavaScript (TBT)

Preload Largest Contentful Paint image

about:blank 7/27

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

Avoids enormous network payloads — Total size was 174 KiB

sizes. [LCP]

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

✓ Show 3rd-party resources (5)

URL	Transfer Size
fakeimg.pl	88.9 KiB
000080/fff?text=Mobile%20App%20Development (fakeimg.pl)	33.8 KiB
4169E1/fff?text=Web%20Development (fakeimg.pl)	29.7 KiB
0000FF/fff?text=Web%20Design (fakeimg.pl)	25.4 KiB
Cloudflare CDN Cdn	81.8 KiB
fonts/fontawesome-webfont.woff2?v=4.7.0 (cdnjs.cloudflare.com)	76.0 KiB
css/font-awesome.min.css (cdnjs.cloudflare.com)	5.8 KiB
GitHub Utility 1st Party	3.2 KiB
/Portfolio/style.css (kcboyy.github.io)	1.9 KiB
/Portfolio/index.html (kcboyy.github.io)	1.3 KiB

Avoids an excessive DOM size - 60 elements

A large DOM will increase memory usage, cause longer style calculations, and produce costly layout reflows. Learn how to avoid an excessive DOM size. TBT

Statistic	Element		Value
Total DOM Elements			60
Maximum DOM Depth		label.carousel-bullet	7

about:blank 8/27

Statistic	Element		Value
Maximum Child Elements		div.carousel-inner	13

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 about User Timing marks</u>.

JavaScript execution time

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)

Minimizes main-thread work - 0.1 s

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

Category	Time Spent
Other	44 ms
Style & Layout	16 ms
Script Evaluation	7 ms
Rendering	3 ms
Parse HTML & CSS	2 ms
Script Parsing & Compilation	0 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 how to minimize third-party impact</u>. (TBT)

Third-Party	Transfer Size	Main-Thread Blocking Time
fakeimg.pl	89 KiB	0 ms

about:blank 9/27

Third-Party	Transfer Size	Main-Thread Blocking Time
000080/fff?text=Mobile%20App%20Development (fakeimg.pl)	34 KiB	0 ms
4169E1/fff?text=Web%20Development (fakeimg.pl)	30 KiB	0 ms
0000FF/fff?text=Web%20Design (fakeimg.pl)	25 KiB	0 ms
Cloudflare CDN Cdn	82 KiB	0 ms
fonts/fontawesome-webfont.woff2?v=4.7.0 (cdnjs.cloudflare.com)	76 KiB	0 ms
css/font-awesome.min.css (cdnjs.cloudflare.com)	6 KiB	0 ms

0	Lazy load third-party resources with facades
	Some third-party embeds can be lazy loaded. Consider replacing them with a facade until they are required. <u>Learn how to defer third-parties with a facade</u> . <u>TBT</u>
	Largest Contentful Paint image was not lazily loaded
	Above-the-fold images that are lazily loaded render later in the page lifecycle, which can delay the largest contentful paint. <u>Learn more about optimal lazy loading</u> . <u>LCP</u>
	Element
	img

Avoid large layout shifts

These DOM elements contribute most to the CLS of the page. <u>Learn how to improve CLS</u> <u>CLS</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 about adopting passive event listeners</u>.

Avoids document.write()

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

O Avoid long main-thread tasks

about:blank 10/27

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

Avoid non-composited animations

Animations which are not composited can be janky and increase CLS. <u>Learn how to avoid non-composited animations</u> <u>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</u> <u>delay to user input</u>. <u>Learn more about using the viewport meta tag</u>. [TBT]

Page didn't prevent back/forward cache restoration

Many navigations are performed by going back to a previous page, or forwards again. The back/forward cache (bfcache) can speed up these return navigations. <u>Learn more about the bfcache</u>



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.

NAMES AND LABELS

▲ Image elements do not 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.

Failing Elements

img

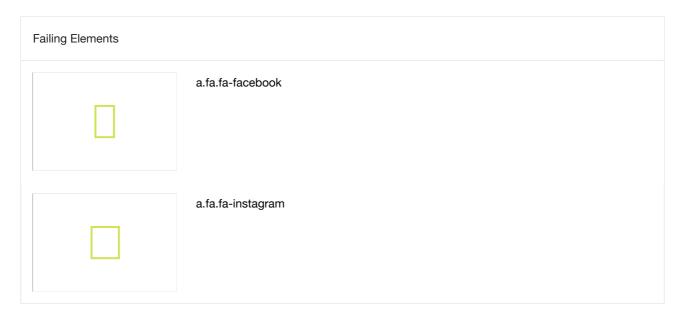
img

about:blank

Failing Elements			
	img		

▲ Links do not have a discernible name

Link text (and alternate text for images, when used as links) that is discernible, unique, and focusable improves the navigation experience for screen reader users. <u>Learn how to make links accessible</u>.

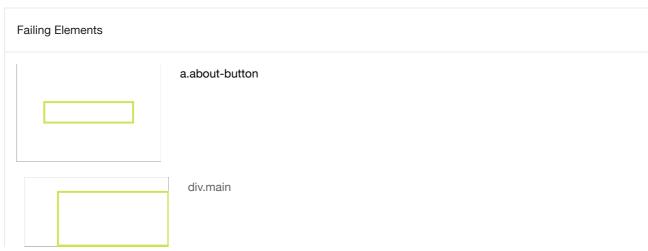


These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

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.



about:blank 12/27

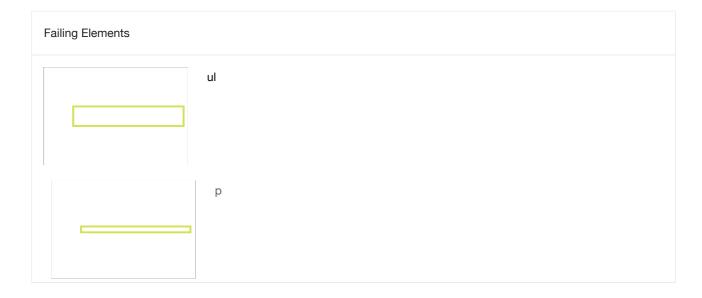
Failing Elements

These are opportunities to improve the legibility of your content.

TABLES AND LISTS

Lists do not contain only elements and script supporting elements (<script> and <template>).

Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. <u>Learn</u> more about proper list structure.

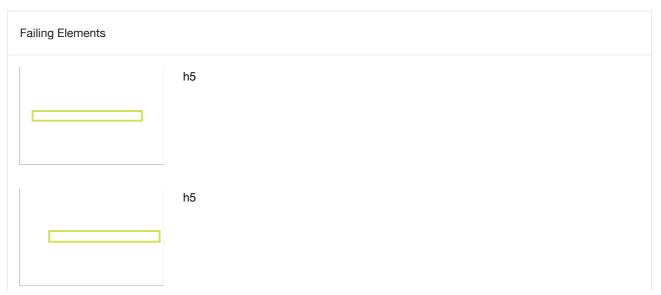


These are opportunities to improve the experience of reading tabular or list data using assistive technology, like a screen reader.

NAVIGATION

Heading elements are not in a sequentially-descending order

Properly ordered headings that do not skip levels convey the semantic structure of the page, making it easier to navigate and understand when using assistive technologies. <u>Learn more about heading order</u>.



about:blank 13/27

Failing Elements

These are opportunities to improve keyboard navigation in your application. ADDITIONAL ITEMS TO MANUALLY CHECK (10) Hide 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. Interactive controls are keyboard focusable Custom interactive controls are keyboard focusable and display a focus indicator. Learn how to make custom controls focusable. Interactive elements indicate their purpose and state Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. Learn how to decorate interactive elements with affordance hints. The 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. 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. Custom controls have associated labels Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. Learn more about custom controls and labels. Custom controls have ARIA roles Custom interactive controls have appropriate ARIA roles. Learn how to add roles to custom controls.

about:blank 14/27

DOM order matches the visual order, improving navigation for assistive technology. Learn more about DOM and visual

Visual order on the page follows DOM order

ordering.

	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.	
	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 about landmark elements.</nav></main>	
	ese items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an acceiew.	<u>ssibility</u>
PA	SSED AUDITS (8)	Hid
	[aria-hidden="true"] is not present on the document <body></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.</body>	:
	ARIA IDs are unique	^
	The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. how to fix duplicate ARIA IDs.	<u>_earn</u>
	[user-scalable="no"] is not used in the <meta name="viewport"/> element and the [maximum-scale] attribute is not less than 5.	ot ^
	Disabling zooming is problematic for users with low vision who rely on screen magnification to properly see the conte a web page. Learn more about the viewport meta tag.	nts of
	[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 how aria-hidden affects focusable elements	
	Document has a <title> element</td><td>^</td></tr><tr><td></td><td>The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if page is relevant to their search. Learn more about document titles.</td><td>a</td></tr><tr><td></td><td><html> element has a [lang] attribute</td><td>^</td></tr><tr><td></td><td>If a page doesn't specify a lang attribute, a screen reader assumes that the page is in the default language that the chose when setting up the screen reader. If the page isn't actually in the default language, then the screen reader mig</td><td></td></tr></tbody></table></title>	

about:blank 15/27

announce the page's text correctly. Learn more about the lang attribute.

html element has a valid value for its [lang] attribute Specifying a valid BCP 47 language helps screen readers announce text properly. Learn how to use the lang attribute. List items () are contained within , or <menu> parent elements Screen readers require list items () to be contained within a parent , or <menu> to be announced properly. Learn more about proper list structure. NOT APPLICABLE (31) Hide [accesskey] values are unique Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. Learn more about access keys. [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. 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. ARIA input fields have accessible names When an input field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn more about input field labels. ARIA meter elements have accessible names When a meter element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn how to name meter elements. ARIA progressbar elements have accessible names When a progressbar element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. Learn how to label progressbar elements. [role]s have all required [aria-*] attributes Some ARIA roles have required attributes that describe the state of the element to screen readers. Learn more about roles

about:blank

and required attributes.

O 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 about roles and required children elements</u> .	<u>ə</u>
 [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 fund Learn more about ARIA roles and required parent element.	ctions.
[role] values are valid	^
ARIA roles must have valid values in order to perform their intended accessibility functions. <u>Learn more about valid Al roles</u> .	<u>RIA</u>
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 unu for users who rely on screen readers. <u>Learn more about toggle fields</u> .	ısable
ARIA tooltip elements have accessible names	^
When a tooltip element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. <u>Learn how to name tooltip elements</u> .	
 ARIA treeitem elements have accessible names 	^
When a treeitem element doesn't have an accessible name, screen readers announce it with a generic name, making unusable for users who rely on screen readers. <u>Learn more about labeling treeitem elements</u> .	ng it
O [aria-*] attributes have valid values	^
Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. <u>Learn more about valid values for ARIA attributes</u> .	
 [aria-*] attributes are valid and not misspelled 	^
Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. Learn more about valid attributes.	ARIA
O Buttons have an accessible name	^
When a button doesn't have an accessible name, screen readers announce it as "button", making it unusable for user who rely on screen readers. Learn how to make buttons more accessible.	rs

about:blank 17/27

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 by blocks.	<u>ypass</u>
<dl>'s contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements.</td><td>^</td></tr><tr><td>When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. Learn has to structure definition lists correctly.</td><td><u>now</u></td></tr><tr><td>O Definition list items are wrapped in <dl> elements</td><td>^</td></tr><tr><td>Definition list items (<dt> and <dd>) must be wrapped in a parent <dl> element to ensure that screen readers can properly announce them. Learn how to structure definition lists correctly.</td><td></td></tr><tr><td> [id] attributes on active, focusable elements are unique </td><td>^</td></tr><tr><td>All focusable elements must have a unique id to ensure that they're visible to assistive technologies. <u>Learn how to fix duplicate ids</u>.</td><td><u>C</u></td></tr><tr><td>No form fields have multiple labels</td><td>^</td></tr><tr><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 how to use form labels</u>.</td><td>е</td></tr><tr><td><frame> or <iframe> elements have a title</td><td>^</td></tr><tr><td>Screen reader users rely on frame titles to describe the contents of frames. Learn more about frame titles.</td><td></td></tr><tr><td><pre>o <input type="image"> elements have [alt] text</pre></td><td>^</td></tr><tr><td>When an image is being used as an <input> button, providing alternative text can help screen reader users understathe purpose of the button. Learn about input image alt text.</td><td>and</td></tr><tr><td>O Form elements have associated labels</td><td>^</td></tr><tr><td>Labels ensure that form controls are announced properly by assistive technologies, like screen readers. <u>Learn more at form element labels</u>.</td><td><u>bout</u></td></tr><tr><td>The document does not use <meta http-equiv="refresh"></td><td>^</td></tr><tr><td>Users do not expect a page to refresh automatically, and doing so will move focus back to the top of the page. This move a frustrating or confusing experience. Learn more about the refresh meta tag.</td><td>nay</td></tr><tr><td><object> elements have alternate text</td><td>^</td></tr></tbody></table></script></dd></dt></dl>	

about:blank 18/27

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.

No element has a [tabindex] value greater than 0

A value greater than 0 implies an explicit navigation ordering. Although technically valid, this often creates frustrating experiences for users who rely on assistive technologies. <u>Learn more about the tabindex attribute</u>.

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 about the headers attribute.

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 about table headers</u>.

[lang] attributes have a valid value

Specifying a valid <u>BCP 47 language</u> on elements helps ensure that text is pronounced correctly by a screen reader. <u>Learn</u> how to use the <u>lang attribute</u>.

<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. <u>Learn more</u> about video captions.



Best Practices

TRUST AND SAFETY

▲ Does not use HTTPS — 3 insecure requests found

All sites should be protected with HTTPS, even ones that don't handle sensitive data. This includes avoiding <u>mixed</u> <u>content</u>, 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. <u>Learn more about HTTPS</u>.

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Insecure URL	Request Resolution
4169E1/fff?text=Web%20Development (fakeimg.pl)	Automatically upgraded to HTTPS
0000FF/fff?text=Web%20Design (fakeimg.pl)	Automatically upgraded to HTTPS
000080/fff?text=Mobile%20App%20Development (fakeimg.pl)	Automatically upgraded to HTTPS

Ensure CSP is effective against XSS attacks

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

Description	Directive	Severity	
No CSP found in enforcement mode		High	

USER EXPERIENCE

Displays images with incorrect aspect ratio

Image display dimensions should match natural aspect ratio. <u>Learn more about image aspect ratio</u>.

	URL	Aspect Ratio (Displayed)	Aspect Ratio (Actual)
fakeimg.pl			
img	4169E1/fff? text=Web%20Development (fakeimg.pl)	869 x 360 (2.41)	2000 x 800 (2.50)
img	0000FF/fff?text=Web%20Design (fakeimg.pl)	869 x 360 (2.41)	2000 x 800 (2.50)
	000080/fff? text=Mobile%20App%20Development (fakeimg.p	869 x 360 (2.41)	2000 x 800 (2.50)

about:blank 20/27

	URL	Aspect Ratio (Displayed)	Aspect Ratio (Actual)
img			

GENERAL

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 Mixed content ...4169E1/fff?text=Web%20Development (fakeimg.pl) ...0000FF/fff?text=Web%20Design (fakeimg.pl) ...000080/fff?text=Mobile%20App%20Development (fakeimg.pl)

PASSED AUDITS (10) Hide

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.

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.

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.

about:blank 21/27

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. <u>Learn more about declaring the character encoding</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. Use pagehide or visibilitychange events instead. Learn more about unload event listeners Avoids deprecated APIs Deprecated APIs will eventually be removed from the browser. Learn more about deprecated APIs. No browser errors 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 Page has valid source maps Source maps translate minified code to the original source code. This helps developers debug in production. In addition, Lighthouse is able to provide further insights. Consider deploying source maps to take advantage of these benefits. Learn more about source maps. **NOT APPLICABLE (2)** Hide Fonts with font-display: optional are preloaded Preload optional fonts so first-time visitors may use them. Learn more about preloading fonts **Detected JavaScript libraries** All front-end JavaScript libraries detected on the page. Learn more about this JavaScript library detection diagnostic audit.



about:blank 22/27

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

Structured Data.

▲ Document does not have a meta description	^
Meta descriptions may be included in search results to concisely summarize page content. <u>Learn more about the medescription</u> .	<u>eta</u>
▲ Image elements do not have [alt] attributes	^
Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an emattribute. Learn more about the alt attribute.	ıpty alt
Failing Elements	
img	
img	
img	
Format your HTML in a way that enables crawlers to better understand your app's content.	
ADDITIONAL ITEMS TO MANUALLY CHECK (1)	Hide
O Structured data is valid	^

about:blank 23/27

Run the <u>Structured Data Testing Tool</u> and the <u>Structured Data Linter</u> to validate structured data. <u>Learn more about</u>

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

PASSED AUDITS (8)	Hide
Has a <meta name="viewport"/> tag with width or initial-scale	^
A <meta name="viewport"/> not only optimizes your app for mobile screen sizes, but also prevents a 300 millisecond delay to user input. Learn more about using the viewport meta tag. (TBT)	<u>d</u>
Document has a <title> element</td><td>^</td></tr><tr><td>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.</td><td></td></tr><tr><td>Page has successful HTTP status code</td><td>^</td></tr><tr><td>Pages with unsuccessful HTTP status codes may not be indexed properly. Learn more about HTTP status codes.</td><td></td></tr><tr><td>Links have descriptive text</td><td>^</td></tr><tr><td>Descriptive link text helps search engines understand your content. Learn how to make links more accessible.</td><td></td></tr><tr><td>Links are crawlable</td><td>^</td></tr><tr><td>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</td><td></td></tr><tr><td>Page isn't blocked from indexing</td><td>^</td></tr><tr><td>Search engines are unable to include your pages in search results if they don't have permission to crawl them. <u>Learn months</u> about crawler directives.</td><td><u>ore</u></td></tr><tr><td>Document has a valid hreflang</td><td>^</td></tr><tr><td>hreflang links tell search engines what version of a page they should list in search results for a given language or region. <u>Learn more about hreflang</u>.</td><td></td></tr><tr><td>Document avoids plugins</td><td>^</td></tr><tr><td>Search engines can't index plugin content, and many devices restrict plugins or don't support them. <u>Learn more about avoiding plugins</u>.</td><td></td></tr><tr><td>NOT APPLICABLE (4)</td><td>Hide</td></tr><tr><td>o robots.txt is valid</td><td>^</td></tr></tbody></table></title>	

about:blank 24/27

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.

Document has a valid rel=canonical

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

Document uses legible font sizes

Font sizes less than 12px are too small to be legible and require mobile visitors to "pinch to zoom" in order to read. Strive to have >60% of page text $\ge 12px$. Learn more about legible font sizes.

Tap targets are sized appropriately

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



PWA

These checks validate the aspects of a Progressive Web App. <u>Learn what makes a good Progressive Web App.</u>

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. Learn more about manifest installability requirements.

Failure reason

Page has no manifest <link> URL

PWA OPTIMIZED

Does not register a service worker that controls page and start_url

about:blank 25/27

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. <u>Learn more about Service Workers</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. Learn more about splash screens. 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 about theming the address bar. Content is sized correctly for the viewport If the width of your app's content doesn't match the width of the viewport, your app might not be optimized for mobile screens. Learn how to size content for the viewport. Has a <meta name="viewport"> tag with width or initial-scale A <meta name="viewport"> not only optimizes your app for mobile screen sizes, but also prevents a 300 millisecond delay to user input. Learn more about using the viewport meta tag. [TBT] Manifest doesn't have a maskable icon 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. Learn about maskable manifest icons. ADDITIONAL ITEMS TO MANUALLY CHECK (3) Hide Site works cross-browser To reach the most number of users, sites should work across every major browser. Learn about cross-browser compatibility. Page transitions don't feel like they block on the network Transitions should feel snappy as you tap around, even on a slow network. This experience is key to a user's perception of performance. Learn more about page transitions. Each page has a URL Ensure individual pages are deep linkable via URL and that URLs are unique for the purpose of shareability on social

about:blank 26/27

media. Learn more about providing deep links.

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.

Captured at Jul 14, 2023, 3:23 Emulated Desktop with Single page load

PM GMT+1 Lighthouse 10.1.1

Initial page load Custom throttling Using Chromium 114.0.0.0

with devtools

Generated by Lighthouse 10.1.1 | File an issue

about:blank 27/27