





Performance

Metrics			=
First Contentful Paint	3.2 s	Time to Interactive	3.2 s
Speed Index	3.2 s	Total Blocking Time	0 ms
▲ Largest Contentful Paint	5.7 s	Cumulative Layout Shift	0.047

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

View Original Trace

Use HTTP/2



























1.47 s ^

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

Opportunity **Estimated Savings**

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

Show 3rd-party resources (1)

URL Protocol

http/1.1 ...api/js?client=... (maps.googleapis.com)

	Show 3rd-party r	esources (2)
URL	Transfer Size	Potentia Savings
css/bootstrap.min.css (maxcdn.bootstrapcdn.com)	20.3 KiB	1,520 ms
css/all.css (use.fontawesome.com)	13.3 KiB	1,270 ms
css/style.css (michaelhesch.github.io)	1.9 KiB	250 ms
Preload Largest Contentful Paint image		Error! ^
Preload the image used by the LCP element in order to improve your LCP time. Learn n	nore.	
gnostics — More information about the performance of your application. These number formance score.	s don't <u>directly affect</u> the	
Ensure text remains visible during webfont load		^
Leverage the font-display CSS feature to ensure text is user-visible while webfonts are le	oading. <u>Learn more</u> .	
	Show 3rd-party r	esources (2)
URL		Potentia Savings
v18/mem8YaGs1woff2 (fonts.gstatic.com)		20 ms
webfonts/fa-brands-400.woff2 (use.fontawesome.com)		70 ms
Does not use passive listeners to improve scrolling performance		^
Consider marking your touch and wheel event listeners as `passive` to improve your page	ge's scroll performance. <u>L</u>	earn more.
	Show 3rd-party r	esources (4)
URL	Location	
10/init_embed.js (maps.gstatic.com)	line: 85	
api/js?client= (maps.googleapis.com)	line: 237	
api/js?client= (maps.googleapis.com)	line: 272	
10/util.js (maps.googleapis.com)	line: 40	
Serve static assets with an efficient cache policy — 14 resources found		^
A long cache lifetime can speed up repeat visits to your page. <u>Learn more</u> .		
	css/bootstrap.min.css (maxcdn.bootstrapcdn.com)css/style.css (michaelhesch.github.io) Preload Largest Contentful Paint image Preload the image used by the LCP element in order to improve your LCP time. Learn nostics — More information about the performance of your application. These number ormance score. Ensure text remains visible during webfont load Leverage the font-display CSS feature to ensure text is user-visible while webfonts are I URLv18/mem8YaGs1woff2 (fonts.gstatic.com)webfonts/fa-brands-400.woff2 (use.fontawesome.com) Does not use passive listeners to improve scrolling performance Consider marking your touch and wheel event listeners as 'passive' to improve your particular marking your fouch and wheel event listeners as 'passive' to improve your particular marking your scrolling performance URL10/init_embed.js (maps.googleapis.com)api/js?client= (maps.googleapis.com)api/js?client= (maps.googleapis.com)api/js?client= (maps.googleapis.com)10/util.js (maps.googleapis.com)	css/bootstrap.min.css (maxcdn.bootstrapcdn.com) css/stll.css (use fontawesome.com) 13.3 KiB css/stlyle.css (michaelhesch.github.lo) 1.9 KiB Preload Largest Contentful Paint image Preload the image used by the LCP element in order to improve your LCP time. Learn more. **Preload the image used by the LCP element in order to improve your LCP time. Learn more. **Indicate the ormance score.** Ensure text remains visible during webfont load **Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading. Learn more. **Shew-3rd-party-f

Cache TTL Transfer Size

10 m

455 KiB

URL

...img/hero.jpg (michaelhesch.github.io)

Resources are blocking the first paint of your page. Consider delivering critical JS/CSS inline and deferring all non-critical

URL	Cache TTL	Transfer Size
css/style.css (michaelhesch.github.io)	10 m	2 KiB
api/js?client= (maps.googleapis.com)	30 m	44 KiB
api/js?client= (maps.googleapis.com)	30 m	44 KiB
api/js?client= (maps.googleapis.com)	30 m	44 KiB
api/js?client= (maps.googleapis.com)	30 m	43 KiB
api/js?client= (maps.googleapis.com)	30 m	43 KiB
api/js?client= (maps.googleapis.com)	30 m	43 KiB
js/StaticMapService.GetMapImage? (maps.googleapis.com)	1 d	24 KiB
js/StaticMapService.GetMapImage? (maps.googleapis.com)	1 d	23 KiB
js/StaticMapService.GetMapImage? (maps.googleapis.com)	1 d	21 KiB
js/StaticMapService.GetMapImage? (maps.googleapis.com)	1 d	19 KiB
js/StaticMapService.GetMapImage? (maps.googleapis.com)	1 d	18 KiB
js/StaticMapService.GetMapImage? (maps.googleapis.com)	1 d	13 KiB

Avoid chaining critical requests — 6 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 more.

Maximum critical path latency: 330 ms

Initial Navigation

```
/ci-ms-1/locations.html (michaelhesch.github.io)
```

```
...css/bootstrap.min.css (maxcdn.bootstrapcdn.com) - 30 ms, 20.29 KiB
```

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

...webfonts/fa-brands-400.woff2 (use.fontawesome.com) - 70 ms, 72.95 KiB

...css/style.css (michaelhesch.github.io)

/css?family=Open+Sans (fonts.googleapis.com)

...v18/mem8YaGs1....woff2 (fonts.gstatic.com) - 20 ms, 8.98 KiB

/jquery-3.3.1.slim.min.js (code.jquery.com) - 100 ms, 23.62 KiB

...umd/popper.min.js (cdnjs.cloudflare.com) - 100 ms, 6.81 KiB

...js/bootstrap.min.js (stackpath.bootstrapcdn.com) - 100 ms, 13.84 KiB

Keep request counts low and transfer sizes small $\,$ — 101 requests • 2,320 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 101 2,319.7 KiB

^

Resource Type	Requests	Transfer Size
Script	63	1,608.8 KiB
Image	19	586.4 KiB
Font	2	81.9 KiB
Stylesheet	4	37.1 KiB
Document	7	3.2 KiB
Other	6	2.3 KiB
Media	0	0.0 KiB
Third-party	98	1,859.7 KiB
Largest Contentful Paint element — 1 element found This is the largest contentful element painted within the vertical div#hero-image	viewport. <u>Learn More</u>	^
Avoid large layout shifts — 3 elements found		^
These DOM elements contribute most to the CLS of the	page.	
These DOM elements contribute most to the CLS of the Element	page.	CLS Contribution
	page.	CLS Contribution
Element	page.	CLS Contribution 0.023
Element		0.023
Element h3		
Element h3		0.023
h3 a#page-name.navbar-b		0.023

	Show 3rd-party r	resources (C
URL	Start Time	Durati
/ci-ms-1/locations.html (michaelhesch.github.io)	962 ms	73 m
/ci-ms-1/locations.html (michaelhesch.github.io)	847 ms	72 m
ssed audits (26)		
Properly size images		
Serve images that are appropriately-sized to save cellular data and improve I	load time. <u>Learn more</u> .	
Defer offscreen images		
Consider lazy-loading offscreen and hidden images after all critical resources interactive. <u>Learn more</u> .	s have finished loading to lower time	to
Minify CSS		
Minifying CSS files can reduce network payload sizes. <u>Learn more</u> .		
Minify JavaScript		
Minifying JavaScript files can reduce payload sizes and script parse time. Lea	arn more.	
Remove unused CSS — Potential savings of 33 KiB		
Remove unused CSS — Potential savings of 33 KiB Remove dead rules from stylesheets and defer the loading of CSS not used funnecessary bytes consumed by network activity. Learn more.	for above-the-fold content to reduce	
Remove dead rules from stylesheets and defer the loading of CSS not used f	for above-the-fold content to reduce Show 3rd-party r	resources (
Remove dead rules from stylesheets and defer the loading of CSS not used f		resources (Poten Savir
Remove dead rules from stylesheets and defer the loading of CSS not used funnecessary bytes consumed by network activity. <u>Learn more</u> .	<mark>⊘ Show 3rd-party r</mark> Transfer	Poten Savir
Remove dead rules from stylesheets and defer the loading of CSS not used funnecessary bytes consumed by network activity. Learn more. URL	Show 3rd-party r Transfer Size	Poter Savii 19.7 K
Remove dead rules from stylesheets and defer the loading of CSS not used funnecessary bytes consumed by network activity. Learn more. URLcss/bootstrap.min.css (maxcdn.bootstrapcdn.com)	Show 3rd-party r Transfer Size 20.3 KiB	Poter Savii 19.7 K
Remove dead rules from stylesheets and defer the loading of CSS not used funnecessary bytes consumed by network activity. Learn more. URL css/bootstrap.min.css (maxcdn.bootstrapcdn.com) css/all.css (use.fontawesome.com)	Show 3rd-party r Transfer Size 20.3 KiB 13.3 KiB	Poter Savii 19.7 K
Remove dead rules from stylesheets and defer the loading of CSS not used funnecessary bytes consumed by network activity. Learn more. URLcss/bootstrap.min.css (maxcdn.bootstrapcdn.com)css/all.css (use.fontawesome.com) Remove unused JavaScript	Show 3rd-party r Transfer Size 20.3 KiB 13.3 KiB	Poten
Remove dead rules from stylesheets and defer the loading of CSS not used funnecessary bytes consumed by network activity. Learn more. URL css/bootstrap.min.css (maxcdn.bootstrapcdn.com) css/all.css (use.fontawesome.com) Remove unused JavaScript Remove unused JavaScript to reduce bytes consumed by network activity. Learn more.	Show 3rd-party r Transfer Size 20.3 KiB 13.3 KiB	Poten Savii 19.7 K
Remove dead rules from stylesheets and defer the loading of CSS not used funnecessary bytes consumed by network activity. Learn more. URL css/bootstrap.min.css (maxcdn.bootstrapcdn.com) css/all.css (use.fontawesome.com) Remove unused JavaScript Remove unused JavaScript to reduce bytes consumed by network activity. Learn more. Efficiently encode images Optimized images load faster and consume less cellular data. Learn more.	Show 3rd-party r Transfer Size 20.3 KiB 13.3 KiB	Poter Savii 19.7 K
Remove dead rules from stylesheets and defer the loading of CSS not used funnecessary bytes consumed by network activity. Learn more. URL css/bootstrap.min.css (maxcdn.bootstrapcdn.com) css/all.css (use.fontawesome.com) Remove unused JavaScript Remove unused JavaScript to reduce bytes consumed by network activity. Le	Show 3rd-party r Transfer Size 20.3 KiB 13.3 KiB	Poter Savii 19.7 K 13.2 K

<u>more</u> .	
Preconnect to required origins	^
Consider adding `preconnect` or `dns-prefetch` resource hints to establish early connections to important third-party origins. <u>Learn more</u> .	
Initial server response time was short — Root document took 50 ms	^
Keep the server response time for the main document short because all other requests depend on it. <u>Learn more</u> .	
Show 3rd-party resources (0	0)
URL Time Spe	ent
/ci-ms-1/locations.html (michaelhesch.github.io) 50 m	าร
Avoid multiple page redirects	^
Redirects introduce additional delays before the page can be loaded. <u>Learn more</u> .	
Preload key requests	^
Consider using ` <link rel="preload"/> ` to prioritize fetching resources that are currently requested later in page load. <u>Learn more</u> .	
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</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	^
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. <u>Learn More</u>	
Avoids enormous network payloads — Total size was 2,320 KiB	^
Large network payloads cost users real money and are highly correlated with long load times. Learn more.	
✓ Show 3rd-party resources (S	9)
URL Transfer Si	ize
img/hero.jpg (michaelhesch.github.io) 454.9 Ki	В
10/util.js (maps.googleapis.com) 85.5 Ki	В
10/util.js (maps.googleapis.com)	В
10/util.js (maps.googleapis.com)	В
10/util.js (maps.googleapis.com) 85.5 Ki	В

Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. Learn

		Transfer Size
		85.5 KiB
		85.5 KiB
		72.9 KiB
		64.7 KiB
		64.6 KiB
		^
alculations, and produ	ce costly <u>layout reflows</u> . <u>L</u>	<u>earn more</u> .
t		Value
		140
nk		7
md-4.map-container		10
		^
easure your app's rea	l-world performance durin	g key user
		^
iting JS. You may find	delivering smaller JS pay	
iting JS. You may find		
iting JS. You may find Total CPU Time		loads helps
Total CPU	Show 3rd-part	rloads helps y resources (0)
Total CPU Time	Show 3rd-part	rloads helps y resources (0) Script Parse
Total CPU Time 315 ms	Show 3rd-part Script Evaluation 5 ms	y resources (0) Script Parse 2 ms
Total CPU Time 315 ms 158 ms	Show 3rd-part Script Evaluation 5 ms	y resources (0) Script Parse 2 ms 1 ms
Total CPU Time 315 ms 158 ms	Show 3rd-part Script Evaluation 5 ms 9 ms	y resources (0) Script Parse 2 ms 1 ms
Total CPU Time 315 ms 158 ms	Show 3rd-part Script Evaluation 5 ms 9 ms	y resources (0) Script Parse 2 ms 1 ms
Total CPU Time 315 ms 158 ms	Show 3rd-part Script Evaluation 5 ms 9 ms	y resources (0) Script Parse 2 ms 1 ms oads helps Time Spent
Total CPU Time 315 ms 158 ms	Show 3rd-part Script Evaluation 5 ms 9 ms	y resources (0) Script Parse 2 ms 1 ms oads helps Time Spent 240 ms
Total CPU Time 315 ms 158 ms	Show 3rd-part Script Evaluation 5 ms 9 ms	y resources (0) Script Parse 2 ms 1 ms oads helps Time Spent 240 ms 105 ms
	nk md-4.map-container	nk

Category Time Spent

Script Parsing & Compilation

13 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>.

		Show 3rd-party resources (0)
Third-Party	Transfer Size	Main-Thread Blocking Time
Google Maps	1,698 KiB	0 ms
10/util.js (maps.googleapis.com)	513 KiB	0 ms
10/init_embed.js (maps.gstatic.com)	388 KiB	0 ms
api/js?client= (maps.googleapis.com)	262 KiB	0 ms
10/common.js (maps.googleapis.com)	185 KiB	0 ms
10/map.js (maps.googleapis.com)	127 KiB	0 ms
Other resources	224 KiB	0 ms
FontAwesome CDN	86 KiB	0 ms
webfonts/fa-brands-400.woff2 (use.fontawesome.com)	73 KiB	0 ms
css/all.css (use.fontawesome.com)	13 KiB	0 ms
Bootstrap CDN	34 KiB	0 ms
css/bootstrap.min.css (maxcdn.bootstrapcdn.com)	20 KiB	0 ms
js/bootstrap.min.js (stackpath.bootstrapcdn.com)	14 KiB	0 ms
jQuery CDN	24 KiB	0 ms
/jquery-3.3.1.slim.min.js (code.jquery.com)	24 KiB	0 ms
Google Fonts	11 KiB	0 ms
v18/mem8YaGs1woff2 (fonts.gstatic.com)	9 KiB	0 ms
Cloudflare CDN	7 KiB	0 ms
umd/popper.min.js (cdnjs.cloudflare.com)	7 KiB	0 ms
Other Google APIs/SDKs	0 KiB	0 ms
Lazy load third-party resources with facades		^
Some third-party embeds can be lazy loaded. Consider replacing then	n with a facade until they	are required. <u>Learn more</u> .
Avoids document.write()		^
For users on slow connections, external scripts dynamically injected v seconds. <u>Learn more</u> .	ia `document.write()` can	delay page load by tens of
Avoid non-composited animations		^
Animations which are not composited can be janky and increase CLS.	. <u>Learn more</u>	
Image elements have explicit width and height		^

Set an explicit width and height on image elements to reduce layout shifts and improve CLS. Learn more



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.

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

A	Lists do not contain only <1i> elements and script supporting elements (<script> and <template>).</th><th>^</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 more</u>.</th><th></th></tr><tr><th></th><th>Failing Elements</th><th></th></tr><tr><th></th><th>ul</th><th></th></tr><tr><th></th><th></th><th></th></tr><tr><td></td><td>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.</td><td>^</td></tr><tr><td></td><td>The page has a logical tab order</td><td>^</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><td></td></tr><tr><td></td><td>Interactive controls are keyboard focusable</td><td>^</td></tr><tr><td></td><td>Custom interactive controls are keyboard focusable and display a focus indicator. <u>Learn more</u>.</td><td></td></tr><tr><td></td><td>Interactive elements indicate their purpose and state</td><td>^</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><td></td></tr><tr><td></td><td>The user's focus is directed to new content added to the page</td><td>^</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><td></td></tr><tr><td></td><td>User focus is not accidentally trapped in a region</td><td>^</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><td></td></tr><tr><td></td><td>Custom controls have associated labels</td><td>^</td></tr></tbody></table></script>
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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. <u>Learn more</u> .	
Visual order on the page follows DOM order	^
DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more</u> .	
Offscreen content is hidden from assistive technology	^
Offscreen content is hidden with display: none or aria-hidden=true. <u>Learn more</u> .	
HTML5 landmark elements are used to improve navigation	^
Landmark elements (<main>, <nav>, etc.) are used to improve the keyboard navigation of the page for assistive <u>Learn more</u>.</nav></main>	technology.
ssed audits (16)	^
[aria-*] attributes match their roles	^
Each ARIA `role` supports a specific subset of `aria-*` attributes. Mismatching these invalidates the `aria-*` attributes. more.	outes. <u>Learn</u>
[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 documer Learn more.	it ` <body>`.</body>
[aria-*] attributes have valid values	^
Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. <u>Learn more</u> .	
[aria-*] attributes are valid and not misspelled	^
Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. <u>Learn more</u> .	
Buttons have an accessible name	
When a button doesn't have an accessible name, screen readers announce it as "button", making it unusable for rely on screen readers. <u>Learn more</u> .	r users who
The page contains a heading, skip link, or landmark region	^
Adding ways to bypass repetitive content lets keyboard users navigate the page more efficiently. <u>Learn more</u> .	
Background and foreground colors have a sufficient contrast ratio	
Low-contrast text is difficult or impossible for many users to read. <u>Learn more</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 determ is relevant to their search. <u>Learn more</u>.</td><td>nine if a page</td></tr><tr><td>[id] attributes on active, focusable elements are unique</td><td></td></tr></tbody></table></title>	

All focusable elements must have a unique 'id' to ensure that they're visible to assistive technologies. Learn more <frame> or <iframe> elements have a title Screen reader users rely on frame titles to describe the contents of frames. 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. <a 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. 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. List items () are contained within or parent elements Screen readers require list items ('') to be contained within a parent '' or '' to be announced properly. 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 (27) [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. 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-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 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.

ARI	A meter elements have accessible names
	en an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for rs who rely on screen readers. <u>Learn more</u> .
ARI	A progressbar elements have accessible names
	en an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for rs who rely on screen readers. <u>Learn more</u> .
[rol	Le]s have all required [aria-*] attributes
Som	ne ARIA roles have required attributes that describe the state of the element to screen readers. <u>Learn more</u> .
Eler	ments with an ARIA [role] that require children to contain a specific [role] have all required children.
Som	ne ARIA parent roles must contain specific child roles to perform their intended accessibility functions. <u>Learn more</u> .
[rol	Le]s are contained by their required parent element
	ne ARIA child roles must be contained by specific parent roles to properly perform their intended accessibility functions.
[rol	le] values are valid
ARI	A roles must have valid values in order to perform their intended accessibility functions. <u>Learn more</u> .
ARI	A toggle fields have accessible names
	en a toggle field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable users who rely on screen readers. <u>Learn more</u> .
ARI	A tooltip elements have accessible names
	en an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for rs who rely on screen readers. <u>Learn more</u> .
ARI	A treeitem elements have accessible names
	en an element doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for rs who rely on screen readers. <u>Learn more</u> .
<d1></d1>	s's contain only properly-ordered <dt> and <dd> groups, <script>, <template> or <div> elements.</td></tr><tr><td>Whe</td><td>en definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. <u>Learn more</u>.</td></tr><tr><td>Defi</td><td>inition list items are wrapped in <dl> elements</td></tr><tr><td></td><td>inition list items ('<dt>' and '<dd>') must be wrapped in a parent '<dl>' element to ensure that screen readers can perly announce them. <u>Learn more</u>.</td></tr><tr><td>ARI</td><td>A IDs are unique</td></tr><tr><td>The more</td><td>e value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. <u>Learn</u></td></tr><tr><td>No f</td><td>form fields have multiple labels</td></tr></tbody></table></script></dd></dt>

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>.

Image elements have [alt] attributes

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

<input type="image"> elements have [alt] text

When an image is being used as an `<input>` button, providing alternative text can help screen reader users understand the purpose of the button. <u>Learn more</u>.

Form elements have associated labels

Labels ensure that form controls are announced properly by assistive technologies, like screen readers. Learn more.

The document does not use <meta http-equiv="refresh">

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

<object> elements have [alt] text

Screen readers cannot translate non-text content. Adding all text to `<object>` elements helps screen readers convey meaning to users. <u>Learn more</u>.

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</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. <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>.

[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> more.

<video> elements contain a <track> element with [kind="captions"]

When a video provides a caption it is easier for deaf and hearing impaired users to access its information. Learn more.

Best Practices

Trust and Safety

Includes front-end JavaScript libraries with known security vulnerabilities — 4 vulnerabilities detected

Some third-party scripts may contain known security vulnerabilities that are easily identified and exploited by attackers. <u>Learn more</u>.

Library Version	Vulnerability Count	Highest Severity
Bootstrap@4.2.1	1	Medium
j <u>Query@3.3.1</u>	3	Medium

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.

Show 3rd-party resources (0)

Issue type

SameSite cookie

...css/bootstrap.min.css (maxcdn.bootstrapcdn.com)

/maps?width=... (maps.google.com)

/maps?width=... (maps.google.com)

/maps?width=... (maps.google.com)

/maps?width=... (maps.google.com)

/maps?width=... (maps.google.com)

/maps?width=... (maps.google.com)

Passed audits (15)

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 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</u>.

Links to cross-origin destinations are safe

Add `rel="noopener"` or `rel="noreferrer"` to any external links to improve performance and prevent security vulnerabilities. <u>Learn more</u>.

Avoids requesting the geolocation permission on page load

action instead. <u>Learn more</u> .	
Avoids requesting the notification permission on page load	^
Users are mistrustful of or confused by sites that request to send notifications without context. Consider tying the request to user gestures instead. <u>Learn more</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> .	
Detected JavaScript libraries	^
All front-end JavaScript libraries detected on the page. <u>Learn more</u> .	
Name Version	
Bootstrap 4.2.1	
jQuery 3.3.1	
Avoids deprecated APIs	^
Deprecated APIs will eventually be removed from the browser. <u>Learn more</u> .	
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	Γ
Page has valid source maps	^

Users are mistrustful of or confused by sites that request their location without context. Consider tying the request to a user

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.

Map URL

Show 3rd-party resources (2) ...js/bootstrap.min.js.map (stackpath.bootstrapcdn.com)

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

...umd/popper.min.js (cdnjs.cloudflare.com) ...umd/popper.min.js.map (cdnjs.cloudflare.com)

Not applicable (1)

URL

Fonts with font-display: optional are preloaded

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



These checks ensure that your page is optimized for search engine results ranking. There are additional factors Lighthouse does not check that may affect your search ranking. Learn more.

Mobile Friendly — Make sure your pages are mobile friendly so users don't have to pinch or zoom in order to read the content pages. Learn more.

Tap targets are not sized appropriately — 67% appropriately sized tap targets

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. Learn more.

Tap Target	Size	Overlapping Target
а	4x22	а

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

Structured data is valid

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Pages with unsucc	essful HTTP status codes may no	ot be indexed properly. <u>Learn more</u> .		
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Descriptive link tex	t helps search engines understan	nd your content. <u>Learn more</u> .		
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robots.txt is valid	^
If your robots.txt file is malformed, crawlers may not be able to understand how you want your website to be crawled or indexed. <u>Learn more</u> .	
Image elements have [alt] attributes	^
Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. <u>Learn more</u> .	
Document has a valid rel=canonical	^
Canonical links suggest which URL to show in search results. <u>Learn more</u> .	

Runtime Settings

URL https://michaelhesch.github.io/ci-ms-1/locations.html

Fetch Time Apr 14, 2021, 11:28 PM GMT+1

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 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like

Gecko) Chrome/89.0.4389.114 Safari/537.36

User agent (network) Mozilla/5.0 (Linux; Android 7.0; Moto G (4)) AppleWebKit/537.36 (KHTML, like

Gecko) Chrome/84.0.4143.7 Mobile Safari/537.36 Chrome-Lighthouse

CPU/Memory Power 1262

Axe version 4.1.1

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