

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



0-49

50-89

90-100



METRICS Expand view

First Contentful Paint

0.2 s

Total Blocking Time

80 ms

Speed Index

0.3 s

Largest Contentful Paint

0.5 s

Cumulative Layout Shift

0



Later this year, insights will replace performance audits. <u>Learn more and provide</u>

Go back to audits

Show audits relevant to: All FCP LCP TBT

INSIGHTS

feedback here.

▲ Use efficient cache lifetimes — Est savings of 180 KiB

A long cache lifetime can speed up repeat visits to your page. Learn more. FCP [LCP]

| Request | Cache TTL | Transfer Size |
|---|-----------|------------------|
| localhost 1st Party | | 180 KiB |
| /TrainBook/sandy.jpg (localhost) | None | 178 KiB |
| /TrainBook/UserHome_Css.css (localhost) | None | 2 KiB |

Network dependency tree

<u>Avoid chaining critical requests</u> by reducing the length of chains, reducing the download size of resources, or deferring the download of unnecessary resources to improve page load. [LCP]

Maximum critical path latency: 98 ms

Initial Navigation

/TrainBook/addtrainfwd (localhost) - 98 ms, 1.79 KiB

/TrainBook/UserHome_Css.css (localhost) - 98 ms, 2.18 KiB

Preconnected origins

<u>preconnect</u> hints help the browser establish a connection earlier in the page load, saving time when the first request for that origin is made. The following are the origins that the page preconnected to.

no origins were preconnected

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Preconnect candidates

Add <u>preconnect</u> hints to your most important origins, but try to use no more than 4.

No additional origins are good candidates for preconnecting

Render blocking requests

Requests are blocking the page's initial render, which may delay LCP. <u>Deferring or inlining</u> can move these network requests out of the critical path. FCP [LCP]

| URL | Transfer Size | Duration |
|---|------------------|----------|
| localhost 1st Party | 2.2 KiB | 50 ms |
| /TrainBook/UserHome_Css.css (localhost) | 2.2 KiB | 50 ms |

LCP breakdown

Each <u>subpart has specific improvement strategies</u>. Ideally, most of the LCP time should be spent on loading the resources, not within delays. [LCP]

| Subpart | Duration |
|----------------------|----------|
| Time to first byte | 40 ms |
| Element render delay | 250 ms |



3rd parties

3rd party code can significantly impact load performance. Reduce and defer loading of 3rd party code to prioritize your page's content.

| 3rd party | Transfer size | Main thread time |
|---|------------------|---------------------|
| hfgkoaengklibhfagaababcngpehggmm | 0 KiB | 126 ms |
| chrome-extension://hfgkoaengklibhfagaababcngpehggmm/content/content.js | 0 KiB | 126 ms |
| ekhagklcjbdpajgpjgmbionohlpdbjgc | 0 KiB | 36 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/xregexp-all.js</pre> | 0 KiB | 8 ms |

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| 3rd party | Transfer size | Main thread time |
|---|------------------|---------------------|
| chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/schema.js | 0 KiB | 8 ms |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/translation/translate .js</pre> | 0 KiB | 3 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/utilities.js</pre> | 0 KiB | 2 ms |
| chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/browser-polyfill.js | 0 KiB | 1 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/zotero.js</pre> | 0 KiB | 1 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/proxy.js</pre> | 0 KiB | 1 ms |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/utilities_item.js</pre> | 0 KiB | 1 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/date.js</pre> | 0 KiB | 1 ms |
| chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/singlefile.js | 0 KiB | 1 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/inject.js</pre> | 0 KiB | 1 ms |
| chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/http.js | 0 KiB | 1 ms |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/progressWindow_inject.js</pre> | 0 KiB | 1 ms |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/rdf/identity.js</pre> | 0 KiB | 1 ms |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/utilities_translate.j s</pre> | 0 KiB | 1 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/rdf/term.js</pre> | 0 KiB | 1 ms |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/resource/zoteroTypeSc hemaData.js</pre> | 0 KiB | 1 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/lib/SingleFile/single- file-hooks-frames.js</pre> | 0 KiB | 1 ms |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/rdf/rdfparser.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/messages.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/openurl.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/api.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/translator.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/messaging_inject.js</pre> | 0 KiB | 0 ms |

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| 3rd party | Transfer size | Main thread time |
|--|------------------|---------------------|
| chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/messagingGeneric.js | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/debug.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/cachedTypes.js</pre> | 0 KiB | 0 ms |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/translation/translate _item.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/http.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/promise.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/rdf/uri.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/xregexp- unicode-zotero.js</pre> | 0 KiB | 0 ms |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/virtualOffscreenTranslat e.js</pre> | 0 KiB | 0 ms |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/integration/connectorIntegratio n.js</pre> | 0 KiB | 0 ms |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/modalPrompt_inject.js</pre> | 0 KiB | 0 ms |
| chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/sandboxManager.js | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/zotero_config.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/rdf/init.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/schema.js</pre> | 0 KiB | 0 ms |
| chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/i18n.js | 0 KiB | 0 ms |
| fmkadmapgofadopljbjfkapdkoienihi | 0 KiB | 9 ms |
| <pre>chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/installHook.js</pre> | 0 KiB | 7 ms |
| <pre>chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/proxy.js</pre> | 0 KiB | 1 ms |
| <pre>chrome- extension://fmkadmapgofadopljbjfkapdkoienihi/build/prepareInjection.js</pre> | 0 KiB | 0 ms |
| <pre>chrome- extension://fmkadmapgofadopljbjfkapdkoienihi/build/hookSettingsInjector.js</pre> | 0 KiB | 0 ms |
| <pre>chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/fileFetcher.js</pre> | 0 KiB | 0 ms |
| gmhgdiamihghcepkeapfoeakphffcdkk | 0 KiB | 2 ms |
| <pre>chrome-extension://gmhgdiamihghcepkeapfoeakphffcdkk/src/scripts/content.js</pre> | 0 KiB | 2 ms |

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| 3rd party | Transfer size | Main thread time |
|---|------------------|---------------------|
| bcjindcccaagfpapjjmafapmmgkkhgoa | 0 KiB | 1 ms |
| <pre>chrome-extension://bcjindcccaagfpapjjmafapmmgkkhgoa/content.js</pre> | 0 KiB | 1 ms |
| chrome-extension://bcjindcccaagfpapjjmafapmmgkkhgoa/set-json-global.js | 0 KiB | 0 ms |
| kdoofkpcjhkbhedgkdbagobockcmeoeb | 0 KiB | 1 ms |
| <pre>chrome-extension://kdoofkpcjhkbhedgkdbagobockcmeoeb/content.min.js</pre> | 0 KiB | 1 ms |
| nalkmonnmldhpfcpdlbdpljlaajlaphh | 0 KiB | 1 ms |
| <pre>chrome-extension://nalkmonnmldhpfcpdlbdpljlaajlaphh/contentScript.js</pre> | 0 KiB | 1 ms |
| majdfhpaihoncoakbjgbdhglocklcgno | 0 KiB | 0 ms |
| <pre>chrome-extension://majdfhpaihoncoakbjgbdhglocklcgno/assets/main.tsx-loader- DAV5MfjH.js</pre> | 0 KiB | 0 ms |
| chrome-extension://majdfhpaihoncoakbjgbdhglocklcgno/assets/index-4StdGBpg.js | 0 KiB | 0 ms |
| <pre>chrome-extension://majdfhpaihoncoakbjgbdhglocklcgno/assets/main.tsx- CdIPJLhc.js</pre> | 0 KiB | 0 ms |
| hmlcjjclebjnfohgmgikjfnbmfkigocc | 0 KiB | 0 ms |
| <pre>chrome-extension://hmlcjjclebjnfohgmgikjfnbmfkigocc/assets/anti-fb- phishing.ts-loader-7b6e3729.js</pre> | 0 KiB | 0 ms |

These insights are also available in the Chrome DevTools Performance Panel - <u>record a trace</u> to view more detailed information.

DIAGNOSTICS

Minify JavaScript — Est savings of 107 KiB

Minifying JavaScript files can reduce payload sizes and script parse time. <u>Learn how to minify JavaScript</u>. <u>FCP</u> <u>LCP</u>

| URL | Transfer Size | Est Savings |
|---|------------------|----------------|
| Zotero Connector Chrome Extension | 246.4 KiB | 106.8 KiB |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/xregexp- all.js</pre> | 74.9 KiB | 31.1 KiB |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/translation/transla te.js</pre> | 34.6 KiB | 14.4 KiB |

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| URL | Transfer Size | Est Savings |
|---|------------------|----------------|
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/itemSaver.js</pre> | 21.4 KiB | 9.0 KiB |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/pageSaving.js</pre> | 23.1 KiB | 8.7 KiB |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/utilities.js</pre> | 18.4 KiB | 7.9 KiB |
| chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/browser-polyfill.js | 8.4 KiB | 5.6 KiB |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/proxy.js</pre> | 11.7 KiB | 4.7 KiB |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/utilities_item.js</pre> | 11.2 KiB | 4.6 KiB |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/date.js</pre> | 8.3 KiB | 3.4 KiB |
| chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translateWeb.js | 4.7 KiB | 3.3 KiB |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/rdf/rdfparser.js</pre> | 6.5 KiB | 3.2 KiB |
| <pre>chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/http.js</pre> | 6.9 KiB | 3.0 KiB |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/rdf/identity.js</pre> | 6.1 KiB | 3.0 KiB |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/utilities_translate .js</pre> | 5.2 KiB | 2.5 KiB |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/progressWindow_inject. js</pre> | 5.0 KiB | 2.4 KiB |

Avoid serving legacy JavaScript to modern browsers — Est savings of 36 KiB

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Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't necessary for modern browsers. Consider modifying your JavaScript build process to not transpile <u>Baseline</u> features, unless you know you must support legacy browsers. <u>Learn why most sites can deploy ES6+ code without transpiling FCP LCP</u>

☐ Show 3rd-party resources (1)

| URL | Est Savings |
|--|-------------------------------------|
| Unattributable | 0.7 KiB |
| <pre>chrome- extension://hfgkoaengklibhfagaababcngpehggmm/content/conte t.js</pre> | n 0.7 KiB |
| content.js:2 | @babel/plugin-transform- classes |
| content.js:2 | @babel/plugin-transform- spread |

Reduce unused JavaScript — Est savings of 1,005 KiB

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity. Learn how to reduce unused JavaScript. FCP LCP

✓ Show 3rd-party resources (4)

| | Circuit or all part | ., |
|---|---------------------|----------------|
| URL | Transfer Size | Est Savings |
| Unattributable | 912.5 KiB | 660.2 KiB |
| chrome-extension://hfgkoaengklibhfagaababcngpehggmm/content/content.js | 855.4 KiB | 607.6 KiB |
| <pre>chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/installHook.js</pre> | 57.1 KiB | 52.5 KiB |
| //react-devtools-shared/src/backend/fiber/renderer.js | 24.4 KiB | 24.3 KiB |
| //react-devtools-shared/src/backend/legacy/renderer.js | 4.2 KiB | 4.2 KiB |
| <pre>//build/oss-experimental/react-debug-tools/cjs/react-debug- tools.production.js</pre> | 4.2 KiB | 3.9 KiB |
| //react-devtools-shared/src/utils.js | 3.3 KiB | 3.2 KiB |
| //react-devtools-shared/src/backend/profilingHooks.js | 2.9 KiB | 2.7 KiB |
| Free VPN for Chrome - VPN Proxy VeePN Chrome Extension | 432.7 KiB | 318.9 KiB |
| <pre>chrome-extension://majdfhpaihoncoakbjgbdhglocklcgno/assets/client- xiAOdzW2.js</pre> | 189.2 KiB | 166.9 KiB |
| <pre>chrome-extension://majdfhpaihoncoakbjgbdhglocklcgno/assets/main.tsx- CdIPJLhc.js</pre> | 135.1 KiB | 96.2 KiB |
| <pre>chrome-extension://majdfhpaihoncoakbjgbdhglocklcgno/assets/index- 4StdGBpg.js</pre> | 108.3 KiB | 55.8 KiB |
| | | |

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| URL | Transfer Size | Est Savings |
|---|------------------|----------------|
| Zotero Connector Chrome Extension | 34.6 KiB | 25.6 KiB |
| <pre>chrome- extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/translation/transla te.js</pre> | 34.6 KiB | 25.6 KiB |

○ Avoid long main-thread tasks — 2 long tasks found

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

| URL | Start Time | Duration |
|--|---------------|----------|
| Unattributable | | 130 ms |
| chrome-extension://hfgkoaengklibhfagaababcngpehggmm/content/content.js | 239 ms | 130 ms |
| localhost (1st Party) | | 54 ms |
| /TrainBook/addtrainfwd (localhost) | 174 ms | 54 ms |

○ User Timing marks and measures — 1 user timing

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>.

| Name | Туре | Start Time | Duration |
|------|------|------------|----------|
| v3 | Mark | 0.00 ms | |

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

PASSED AUDITS (23)

Layout shift culprits

Layout shifts occur when elements move absent any user interaction. <u>Investigate the causes of layout shifts</u>, such as elements being added, removed, or their fonts changing as the page loads. <u>CLS</u>

Document request latency

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

Avoids redirects

Server responds quickly (observed 33 ms)

Applies text compression

Optimize DOM size

A large DOM can increase the duration of style calculations and layout reflows, impacting page responsiveness. A large DOM will also increase memory usage. <u>Learn how to avoid an excessive DOM size</u>.

| Statistic | Element | Value |
|---|---|--------------------------------|
| Total elements | | 60 |
| Most children | form.tab | 20 |
| DOM depth | a.close_main.popup_close | 6 |
| Duplicated JavaScript | | ^ |
| Remove large, duplicate activity. FCP LCP | JavaScript modules from bundles to reduce unnecessary l | bytes consumed by network |
| Font display | | ^ |
| Consider setting font-c | lisplay to swap or optional to ensure text is consistentl | y visible. swap can be further |

Consider setting <u>font-display</u> to swap or optional to ensure text is consistently visible. swap can be further optimized to mitigate layout shifts with <u>font metric overrides</u>.

Forced reflow

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

Improve image delivery

Reducing the download time of images can improve the perceived load time of the page and LCP. Learn more about

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10/16/25, 11:44 PM about:blank optimizing image size (FCP) (LCP) INP breakdown Start investigating with the longest subpart. Delays can be minimized. To reduce processing duration, optimize the main-thread costs, often JS. LCP request discovery Optimize LCP by making the LCP image discoverable from the HTML immediately, and avoiding lazy-loading Legacy JavaScript Polyfills and transforms enable older browsers to use new JavaScript features. However, many aren't necessary for modern browsers. Consider modifying your JavaScript build process to not transpile <u>Baseline</u> features, unless you know you must support older browsers. Learn why most sites can deploy ES6+ code without transpiling FCP [CP] Modern HTTP HTTP/2 and HTTP/3 offer many benefits over HTTP/1.1, such as multiplexing. Learn more about using modern HTTP. FCP LCP Optimize viewport for mobile ^ Tap interactions may be delayed by up to 300 ms if the viewport is not optimized for mobile. Defer offscreen images Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive. Learn how to defer offscreen images. FCP [LCP] Minify CSS

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

Reduce unused CSS

Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity. Learn how to reduce unused CSS. FCP [LCP]

Use HTTP/2

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

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Avoids enormous network payloads — Total size was 181 KiB

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

| URL | Transfer Size |
|---|------------------|
| localhost (1st Party) | 181.5 KiB |
| /TrainBook/sandy.jpg (localhost) | 177.5 KiB |
| /TrainBook/UserHome_Css.css (localhost) | 2.2 KiB |
| /TrainBook/addtrainfwd (localhost) | 1.8 KiB |

JavaScript execution time - 0.2 s

Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. Learn how to reduce Javascript execution time. [TBT]

| URL | Total CPU Time | Script Evaluation | Script Parse |
|---|----------------------|----------------------|-----------------|
| Unattributable | 138 ms | 49 ms | 81 ms |
| <pre>chrome- extension://hfgkoaengklibhfagaababcngpehggmm/content/conten t.js</pre> | 138 ms | 49 ms | 81 ms |
| localhost 1st Party | 87 ms | 13 ms | 35 ms |
| /TrainBook/addtrainfwd (localhost) | 87 ms | 13 ms | 35 ms |

Minimizes main-thread work -0.3 s

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

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| Category | Time Spent |
|------------------------------|------------|
| Script Parsing & Compilation | 117 ms |
| Script Evaluation | 83 ms |
| Other | 51 ms |
| Parse HTML & CSS | 10 ms |
| Style & Layout | 10 ms |
| Rendering | 1 ms |

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</u> how to defer third-parties with a facade. (TBT)

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().

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>

Captured at Oct 16, 2025, 11:43 PM GMT+9:30 Initial page load Emulated Desktop with Lighthouse 12.8.2 Custom throttling

Single page session

<u>Using Chromium 141.0.0.0</u> with devtools

Generated by Lighthouse 12.8.2 | File an issue

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