http://localhost:8083/TrainBook/updatetrain

100

Performance

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

▲ 0–49   50–89   90–100

METRICS

Expand view

First Contentful Paint

0.2 s

Largest Contentful Paint

0.4 s

Total Blocking Time

80 ms

Cumulative Layout Shift

0

Speed Index

0.2 s

Later this year, insights will replace performance audits. [Learn more and provide feedback here](#).

<div>

Go back to audits

</div>

Show audits relevant to: All   FCP   LCP   TBT

INSIGHTS

⚠ **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** ⌃

[Avoid chaining critical requests](#) 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: **85 ms**

Initial Navigation

/TrainBook/updatetrain (localhost) **- 85 ms,** 1.60 KiB

/TrainBook/UserHome_Css.css (localhost) **- 85 ms,** 2.18 KiB

Preconnected origins

[preconnect](#) 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

Preconnect candidates

Add preconnect 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. Deferring or inlining 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 subpart has specific improvement strategies. Ideally, most of the LCP time should be spent on loading the resources, not within delays. [LCP]

Subpart	Duration
Time to first byte	30 ms
Element render delay	110 ms

h1.hd

○ 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**	**122 ms**
chrome-extension://hfgkoaengklibhfagaababcngpehggmm/content/content.js	0 KiB	122 ms
ekhagklcjbdpajgpjgmbionohlpdbjgc	**0 KiB**	**35 ms**
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/xregexp-all.js	0 KiB	8 ms

3rd party	Transfer size	Main thread time
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/schema.js	0 KiB	7 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/translation/translate.js	0 KiB	3 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/utilities.js	0 KiB	2 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/browser-polyfill.js	0 KiB	1 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/zotero.js	0 KiB	1 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/proxy.js	0 KiB	1 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/utilities_item.js	0 KiB	1 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/date.js	0 KiB	1 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/singlefile.js	0 KiB	1 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/utilities_translate.js	0 KiB	1 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/http.js	0 KiB	1 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/progressWindow_inject.js	0 KiB	1 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/inject.js	0 KiB	1 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/rdf/term.js	0 KiB	1 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/rdf/identity.js	0 KiB	1 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/openurl.js	0 KiB	1 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/rdf/rdfparser.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/lib/SingleFile/single-file-hooks-frames.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/resource/zoteroTypeSchemaData.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/messages.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/api.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/messagingGeneric.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/translator.js	0 KiB	0 ms

3rd party	Transfer size	Main thread time
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/messaging_inject.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/modalPrompt_inject.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/debug.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/http.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/rdf/uri.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/cachedTypes.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/sandboxManager.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/xregexp-unicode-zotero.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/translation/translate_item.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/inject/virtualOffscreenTranslate.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/integration/connectorIntegration.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/rdf/init.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/zotero_config.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/schema.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/promise.js	0 KiB	0 ms
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/i18n.js	0 KiB	0 ms
fmkadmapgofadopljbjfkapdkoienihi	**0 KiB**	**9 ms**
chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/installHook.js	0 KiB	7 ms
chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/proxy.js	0 KiB	1 ms
chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/hookSettingsInjector.js	0 KiB	0 ms
chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/prepareInjection.js	0 KiB	0 ms
chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/fileFetcher.js	0 KiB	0 ms
gmhgdiamihghcepkeapfoeakphffcdkk	**0 KiB**	**2 ms**
chrome-extension://gmhgdiamihghcepkeapfoeakphffcdkk/src/scripts/content.js	0 KiB	2 ms

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

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

DIAGNOSTICS

Minify JavaScript — Est savings of 107 KiB ⌃

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

URL	Transfer Size	Est Savings
Zotero Connector [Chrome Extension]	**246.4 KiB**	**106.8 KiB**
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/utilities/xregexp-all.js	74.9 KiB	31.1 KiB
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/translation/translate.js	34.6 KiB	14.4 KiB

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

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

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 Baseline features, unless you know you must support legacy browsers. Learn why most sites can deploy ES6+ code without transpiling FCP LCP

☐ Show 3rd-party resources (1)

URL	Est Savings
Unattributable	**0.7 KiB**
chrome-extension://hfgkoaengklibhfagaababcngpehggmm/content/content.js	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)

URL	Transfer Size	Est Savings
Unattributable	**912.5 KiB**	**660.2 KiB**
chrome-extension://hfgkoaengklibhfagaababcngpehggmm/content/content.js	855.4 KiB	607.6 KiB
chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/installHook.js	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
../../../build/oss-experimental/react-debug-tools/cjs/react-debug-tools.production.js	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**
chrome-extension://majdfhpaihoncoakbjgbdhglocklcgno/assets/client-xiAOdzW2.js	189.2 KiB	166.9 KiB
chrome-extension://majdfhpaihoncoakbjgbdhglocklcgno/assets/main.tsx-CdIPJLhc.js	135.1 KiB	96.2 KiB
chrome-extension://majdfhpaihoncoakbjgbdhglocklcgno/assets/index-4StdGBpg.js	108.3 KiB	55.8 KiB

URL	Transfer Size	Est Savings
Zotero Connector Chrome Extension	**34.6 KiB**	**25.6 KiB**
chrome-extension://ekhagklcjbdpajgpjgmbionohlpdbjgc/translate/translation/translate.js	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. Learn how to avoid long main-thread tasks TBT

URL	Start Time	Duration
Unattributable		**126 ms**
chrome-extension://hfgkoaengklibhfagaababcngpehggmm/content/content.js	233 ms	126 ms
localhost 1st Party		**53 ms**
/TrainBook/updatetrain (localhost)	170 ms	53 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. Learn more about User Timing marks.

Name	Type	Start Time	Duration
__v3	Mark	0.00 ms	

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

PASSED AUDITS (23)   Hide

Layout shift culprits ⌄

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

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 23 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. [Learn how to avoid an excessive DOM size](#).

Statistic	Element	Value
Total elements		48
Most children	header	8
DOM depth	a.close_main.popup_close	6

Duplicated JavaScript ⌃

Remove large, duplicate JavaScript modules from bundles to reduce unnecessary bytes consumed by network activity. FCP LCP

Font display ⌃

Consider setting `font-display` to `swap` or `optional` to ensure text is consistently visible. `swap` can be further optimized to mitigate layout shifts with [font metric overrides](#).

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 [forced reflows](#) 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](#)

[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 [Baseline](#) features, unless you know you must support older browsers. [Learn why most sites can deploy ES6+ code without transpiling](#) ⟨FCP⟩ ⟨LCP⟩

   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](#).

LCP FCP

Avoids enormous network payloads — Total size was 181 KiB ⌃

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

URL	Transfer Size
localhost 1st Party	**181.3 KiB**
/TrainBook/sandy.jpg (localhost)	177.5 KiB
/TrainBook/UserHome_Css.css (localhost)	2.2 KiB
/TrainBook/updatetrain (localhost)	1.6 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	**134 ms**	**47 ms**	**78 ms**
chrome-extension://hfgkoaengklibhfagaababcngpehggmm/content/content.js	134 ms	47 ms	78 ms
localhost 1st Party	**86 ms**	**14 ms**	**34 ms**
/TrainBook/updatetrain (localhost)	86 ms	14 ms	34 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. Learn how to minimize main-thread work TBT

Category	Time Spent
Script Parsing & Compilation	114 ms
Script Evaluation	83 ms
Other	63 ms
Style & Layout	10 ms
Parse HTML & CSS	9 ms
Garbage Collection	7 ms
Rendering	2 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. Learn 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. Learn more about adopting passive event listeners.

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. Learn more about the bfcache

■ Captured at Oct 16, 2025, 11:46 PM GMT+9:30
■ Initial page load

■ Emulated Desktop with Lighthouse 12.8.2
■ Custom throttling

■ Single page session

■ Using Chromium 141.0.0.0 with devtools

Generated by **Lighthouse** 12.8.2 | File an issue