

## Performance Report for: <https://www.atomwise.com/>

Report generated: Mon, Mar 11, 2024 9:12 PM -0700  
 Test Server Location: London, UK  
 Using: Chrome 117.0.0.0, Lighthouse 11.0.0

<b>A</b>	Performance	Structure	L. Contentful Paint	T. Blocking Time	C. Layout Shift
	<b>94%</b>	<b>91%</b>	<b>1.2s</b>	<b>145ms</b>	<b>0</b>

### Top Issues

Med	Use explicit width and height on image elements <small>CLS</small>	2 images found
Med-Low	Avoid enormous network payloads <small>LCP</small>	Total size was 3.06MB
Low	Serve static assets with an efficient cache policy	Potential savings of 81.4KB
Low	Use a Content Delivery Network (CDN)	1 resource found
Low	Eliminate render-blocking resources <small>FCP LCP</small>	Potential savings of 58ms

### Page Details



Total Page Size - 3.05MB



Total Page Requests - 67



Legend: HTML JS CSS IMG Video Font Other

### How does this affect me?

Today's web user expects a fast and seamless website experience. Delivering that fast experience can result in increased visits, conversions and overall happiness.

As if you didn't need more incentive, **Google has announced that they are using page speed in their ranking algorithm.**

### About GTmetrix

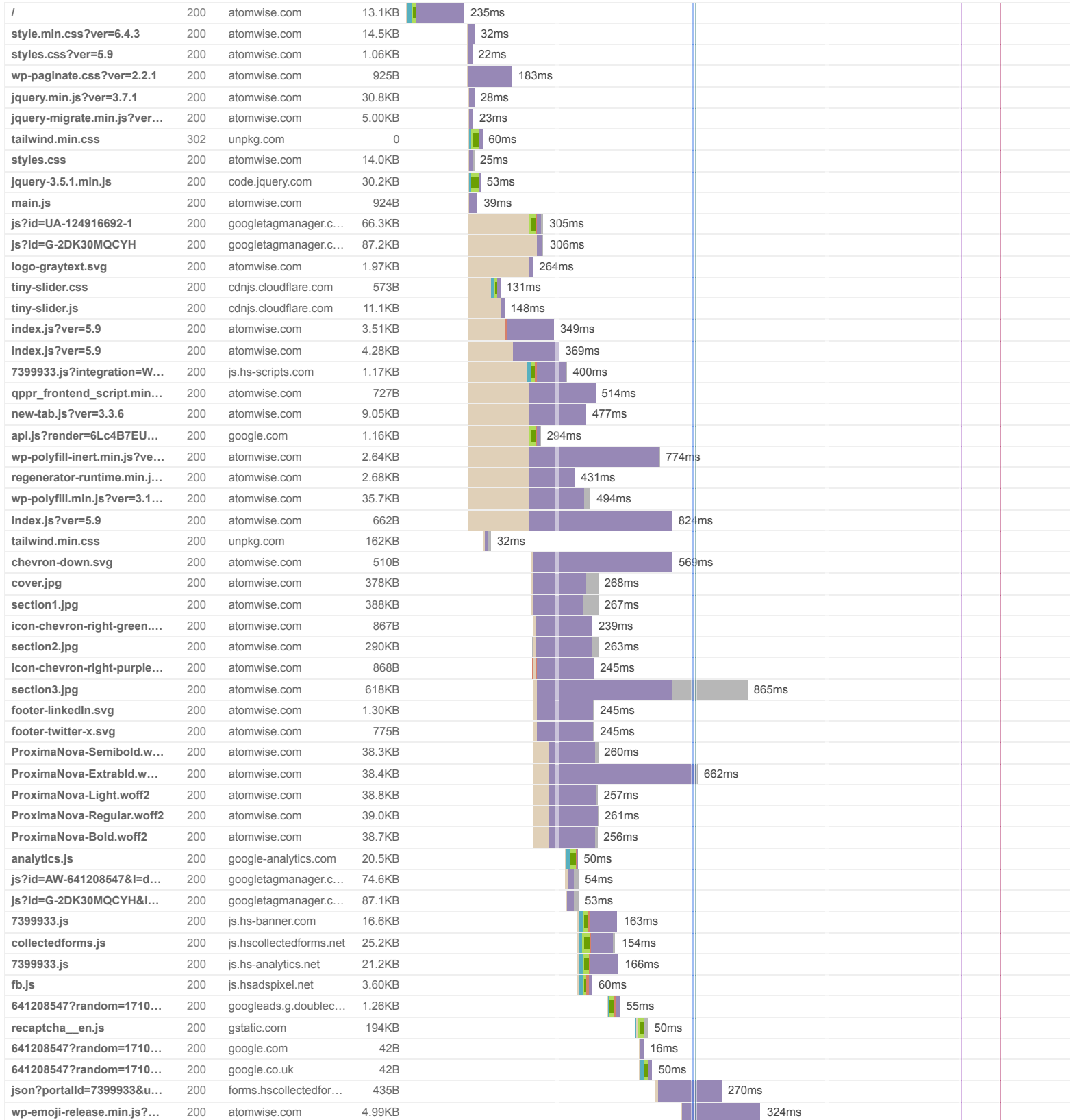


GTmetrix is developed by the good folks at **Carbon60**, a Canadian hosting company with over 28 years experience in web technology.

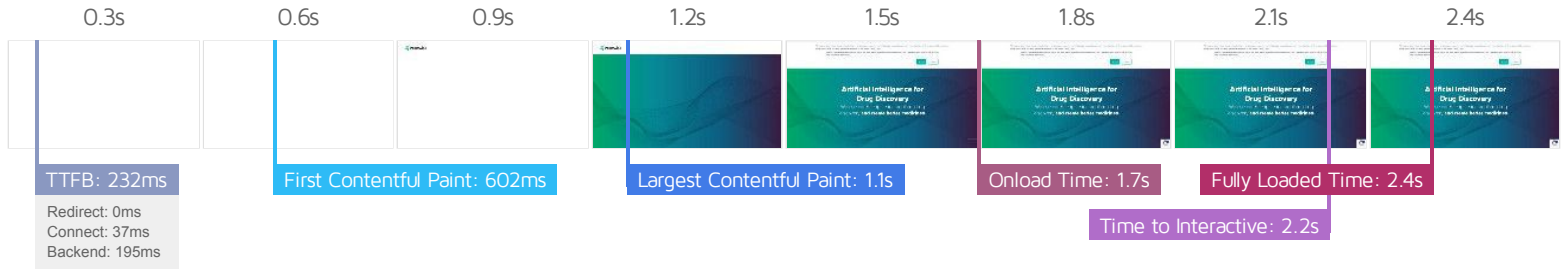
<https://carbon60.com/>

The waterfall chart displays the loading behaviour of your site in your selected browser. It can be used to discover simple issues such as 404's or more complex issues such as external resources blocking page rendering.

Atomwise – Better medicines faster.







### Performance Metrics

<p><b>First Contentful Paint</b></p> <p>How quickly content like text or images are painted onto your page. A good user experience is 0.9s or less.</p>	<p>Good - Nothing to do here</p> <p><b>602ms</b></p>	<p><b>Time to Interactive</b></p> <p>How long it takes for your page to become fully interactive. A good user experience is 2.5s or less.</p>	<p>Good - Nothing to do here</p> <p><b>2.2s</b></p>
<p><b>Speed Index</b></p> <p>How quickly the contents of your page are visibly populated. A good user experience is 1.3s or less.</p>	<p>Good - Nothing to do here</p> <p><b>1.2s</b></p>	<p><b>Total Blocking Time</b></p> <p>How much time is blocked by scripts during your page loading process. A good user experience is 150ms or less.</p>	<p>Good - Nothing to do here</p> <p><b>145ms</b></p>
<p><b>Largest Contentful Paint</b></p> <p>How long it takes for the largest element of content (e.g. a hero image) to be painted on your page. A good user experience is 1.2s or less.</p>	<p>Good - Nothing to do here</p> <p><b>1.2s</b></p>	<p><b>Cumulative Layout Shift</b></p> <p>How much your page's layout shifts as it loads. A good user experience is a score of 0.1 or less.</p>	<p>Good - Nothing to do here</p> <p><b>0</b></p>

### Browser Timings

Redirect	0ms	Connect	37ms	Backend	195ms
TTFB	232ms	First Paint	602ms	DOM Int.	1.1s
DOM Loaded	1.2s	Onload	1.7s	Fully Loaded	2.4s

IMPACT AUDIT

Low

**Avoid long main-thread tasks** TBT

6 long tasks found

Lists the longest tasks on the main thread, useful for identifying worst contributors to input delay.

URL	START TIME	DURATION
<a href="https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha__en.js">https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha__en.js</a>	1.9s	147ms
<a href="https://www.atomwise.com/">https://www.atomwise.com/</a>	494ms	78ms
<a href="https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha__en.js">https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha__en.js</a>	2.2s	70ms
<a href="https://www.googletagmanager.com/gtag/js?id=AW-641208547&amp;l=dataLayer&amp;cx=c">https://www.googletagmanager.com/gtag/js?id=AW-641208547&amp;l=dataLayer&amp;cx=c</a>	747ms	63ms
<a href="https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha__en.js">https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha__en.js</a>	1.6s	57ms
<a href="https://www.googletagmanager.com/gtag/js?id=UA-124916692-1">https://www.googletagmanager.com/gtag/js?id=UA-124916692-1</a>	1.1s	55ms

Low

**Ensure text remains visible during webfont load** FCP LCP

5 fonts found

Leverage the `font-display` CSS feature to ensure text is user-visible while webfonts are loading.

URL	POTENTIAL SAVINGS
<a href="https://www.atomwise.com/wp-content/themes/atomwise/assets/fonts/ProximaNova-Semibold.woff2">https://www.atomwise.com/wp-content/themes/atomwise/assets/fonts/ProximaNova-Semibold.woff2</a>	199ms
<a href="https://www.atomwise.com/wp-content/themes/atomwise/assets/fonts/ProximaNova-Extrablnd.woff2">https://www.atomwise.com/wp-content/themes/atomwise/assets/fonts/ProximaNova-Extrablnd.woff2</a>	600ms
<a href="https://www.atomwise.com/wp-content/themes/atomwise/assets/fonts/ProximaNova-Light.woff2">https://www.atomwise.com/wp-content/themes/atomwise/assets/fonts/ProximaNova-Light.woff2</a>	196ms
<a href="https://www.atomwise.com/wp-content/themes/atomwise/assets/fonts/ProximaNova-Regular.woff2">https://www.atomwise.com/wp-content/themes/atomwise/assets/fonts/ProximaNova-Regular.woff2</a>	200ms
<a href="https://www.atomwise.com/wp-content/themes/atomwise/assets/fonts/ProximaNova-Bold.woff2">https://www.atomwise.com/wp-content/themes/atomwise/assets/fonts/ProximaNova-Bold.woff2</a>	195ms

Low

**Reduce JavaScript execution time** TBT

558ms spent executing JavaScript

Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this.

URL	TOTAL CPU TIME	SCRIPT EVALUATION	SCRIPT PARSE
<a href="https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha__en.js">https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha__en.js</a>	502ms	457ms	10ms
Unattributable	336ms	8ms	0ms
<a href="https://www.atomwise.com/">https://www.atomwise.com/</a>	205ms	14ms	2ms
<a href="https://www.googletagmanager.com/gtag/js?id=AW-641208547&amp;l=dataLayer&amp;cx=c">https://www.googletagmanager.com/gtag/js?id=AW-641208547&amp;l=dataLayer&amp;cx=c</a>	64ms	38ms	25ms

Low

**Reduce unused JavaScript** LCP

Potential savings of 311KB

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity.

URL	TRANSFER SIZE	POTENTIAL SAVINGS
<a href="https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha_en.js">https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha_en.js</a>	195KB	99KB
<a href="https://www.googletagmanager.com/gtag/js?id=G-2DK30MQCYH&amp;l=dataLayer&amp;cx=c">https://www.googletagmanager.com/gtag/js?id=G-2DK30MQCYH&amp;l=dataLayer&amp;cx=c</a>	87.2KB	62.8KB
<a href="https://www.googletagmanager.com/gtag/js?id=G-2DK30MQCYH">https://www.googletagmanager.com/gtag/js?id=G-2DK30MQCYH</a>	87.3KB	41.2KB
<a href="https://www.googletagmanager.com/gtag/js?id=UA-124916692-1">https://www.googletagmanager.com/gtag/js?id=UA-124916692-1</a>	66.7KB	32.7KB
<a href="https://www.googletagmanager.com/gtag/js?id=AW-641208547&amp;l=dataLayer&amp;cx=c">https://www.googletagmanager.com/gtag/js?id=AW-641208547&amp;l=dataLayer&amp;cx=c</a>	74.7KB	31.7KB
<a href="https://www.atomwise.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1">https://www.atomwise.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1</a>	30.8KB	22.3KB
<a href="https://code.jquery.com/jquery-3.5.1.min.js">https://code.jquery.com/jquery-3.5.1.min.js</a>	30.5KB	21.1KB

**Low** **Efficiently encode images** Potential savings of 181KB

Optimized images load faster and consume less cellular data.

URL	RESOURCE SIZE	POTENTIAL SAVINGS
<a href="https://www.atomwise.com/wp-content/themes/atomwise/images/home/section3.jpg">https://www.atomwise.com/wp-content/themes/atomwise/images/home/section3.jpg</a>	618KB	157KB
<a href="https://www.atomwise.com/wp-content/themes/atomwise/images/home/section2.jpg">https://www.atomwise.com/wp-content/themes/atomwise/images/home/section2.jpg</a>	290KB	17.1KB
<a href="https://www.atomwise.com/wp-content/themes/atomwise/images/home/cover.jpg">https://www.atomwise.com/wp-content/themes/atomwise/images/home/cover.jpg</a>	378KB	7.60KB

**Low** **Reduce unused CSS** FCP LCP Potential savings of 190KB

Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity.

URL	TRANSFER SIZE	POTENTIAL SAVINGS
<a href="https://unpkg.com/tailwindcss@1.9.6/dist/tailwind.min.css">https://unpkg.com/tailwindcss@1.9.6/dist/tailwind.min.css</a>	162KB	162KB
<a href="https://www.atomwise.com/wp-includes/css/dist/block-library/style.min.css?ver=6.4.3">https://www.atomwise.com/wp-includes/css/dist/block-library/style.min.css?ver=6.4.3</a>	14.5KB	14.4KB
<a href="https://www.atomwise.com/wp-content/themes/atomwise/styles/styles.css">https://www.atomwise.com/wp-content/themes/atomwise/styles/styles.css</a>	14.0KB	13.3KB

**Low** **Serve images in next-gen formats** Potential savings of 1.08MB

Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which means faster downloads and less data consumption.

URL	RESOURCE SIZE	POTENTIAL SAVINGS
<a href="https://www.atomwise.com/wp-content/themes/atomwise/images/home/section3.jpg">https://www.atomwise.com/wp-content/themes/atomwise/images/home/section3.jpg</a>	618KB	466KB
<a href="https://www.atomwise.com/wp-content/themes/atomwise/images/home/section1.jpg">https://www.atomwise.com/wp-content/themes/atomwise/images/home/section1.jpg</a>	388KB	235KB
<a href="https://www.atomwise.com/wp-content/themes/atomwise/images/home/cover.jpg">https://www.atomwise.com/wp-content/themes/atomwise/images/home/cover.jpg</a>	378KB	229KB
<a href="https://www.atomwise.com/wp-content/themes/atomwise/images/home/section2.jpg">https://www.atomwise.com/wp-content/themes/atomwise/images/home/section2.jpg</a>	290KB	179KB

**Low** **Reduce initial server response time** FCP LCP Root document took 193ms

Keep the server response time for the main document short because all other requests depend on it.

URL	TIME SPENT
<a href="https://www.atomwise.com/">https://www.atomwise.com/</a>	193ms

**Low** **Minify CSS** FCP LCP Potential savings of 2.37KB

Minifying CSS files can reduce network payload sizes.

URL	TRANSFER SIZE	POTENTIAL SAVINGS
• <a href="https://www.atomwise.com/wp-content/themes/atomwise/styles/styles.css">https://www.atomwise.com/wp-content/themes/atomwise/styles/styles.css</a>	14.0KB	2.37KB

Low

Avoid chaining critical requests FCP LCP

25 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.

Maximum critical path latency: 1.2s

#### INITIAL NAVIGATION



N/A

Avoid an excessive DOM size TBT

224 elements

A large DOM will increase memory usage, cause longer style calculations, and produce costly layout reflows.

STATISTIC	ELEMENT	VALUE
Total DOM Elements		224
Maximum DOM Depth	About Us <a href="/company">	11
Maximum Child Elements	body.home <body class="home page-template-default page page-id-10842">	29

N/A **Largest Contentful Paint element** LCP 1,150 ms

This is the largest contentful element painted within the viewport.

#### ELEMENT

Artificial Intelligence for Drug Discovery We use our AI engine to transform d...

```
<section class="cover" style="background-image: url(&quot;https://www.atomwise.com/wp-content/themes/atomwise...&quot;);">
```

PHASE	% OF LCP	TIMING
TTFB	20%	231ms
Load Delay	24%	278ms
Load Time	23%	266ms
Render Delay	32%	373ms

N/A **Avoid serving legacy JavaScript to modern browsers** TBT Potential savings of 9.35KB

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.

URL	POTENTIAL SAVINGS
<a href="https://cdnjs.cloudflare.com/ajax/libs/tiny-slider/2.9.2/min/tiny-slider.js">https://cdnjs.cloudflare.com/ajax/libs/tiny-slider/2.9.2/min/tiny-slider.js</a> Line:0 Column:33	9.30KB
<a href="https://www.atomwise.com/wp-includes/js/dist/vendor/wp-polyfill-inert.min.js?ver=3.1.2">https://www.atomwise.com/wp-includes/js/dist/vendor/wp-polyfill-inert.min.js?ver=3.1.2</a> Line:0 Column:452	55B

N/A **Avoid large layout shifts** CLS 2 elements found

These DOM elements contribute most to the CLS of the page.



## ELEMENT

## CLS CONTRIBUTION

COMPANY OUR APPROACH PIPELINE NEWS &amp; EVENTS CAREERS

`<div class="hidden md:block desktop-menu">`

0.00

and create better medicines.

`<span class="font-extrabold inline-block">`

0.00

N/A

**Minimize main-thread work** TBT

Main-thread busy for 1.4s

Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this.

## CATEGORY

## TIME SPENT

Script Evaluation

770ms

Other

397ms

Style &amp; Layout

108ms

Script Parsing &amp; Compilation

63ms

Parse HTML &amp; CSS

55ms

Garbage Collection

24ms

Rendering

10ms

N/A

**Reduce the impact of third-party code** TBT

Third-party code blocked the main thread for 86ms

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.

THIRD-PARTY	TRANSFER SIZE	MAIN-THREAD BLOCKING TIME
<b>GOOGLE CDN</b>	416KB	86ms
• <a href="https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha_en.js">https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha_en.js</a>	390KB	86ms
• <a href="https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/styles_ltr.css">https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/styles_ltr.css</a>	24.1KB	0ms
<b>GOOGLE TAG MANAGER</b>	316KB	0ms
• <a href="https://www.googletagmanager.com/gtag/js?id=G-2DK30MQCYH">https://www.googletagmanager.com/gtag/js?id=G-2DK30MQCYH</a>	87.3KB	0ms
• <a href="https://www.googletagmanager.com/gtag/js?id=G-2DK30MQCYH&amp;i=dataLayer&amp;cx=c">https://www.googletagmanager.com/gtag/js?id=G-2DK30MQCYH&amp;i=dataLayer&amp;cx=c</a>	87.2KB	0ms
• <a href="https://www.googletagmanager.com/gtag/js?id=AW-641208547&amp;l=dataLayer&amp;cx=c">https://www.googletagmanager.com/gtag/js?id=AW-641208547&amp;l=dataLayer&amp;cx=c</a>	74.7KB	0ms
• <a href="https://www.googletagmanager.com/gtag/js?id=UA-124916692-1">https://www.googletagmanager.com/gtag/js?id=UA-124916692-1</a>	66.7KB	0ms
<b>UNPKG</b>	163KB	0ms
• <a href="https://unpkg.com/tailwindcss@1.9.6/dist/tailwind.min.css">https://unpkg.com/tailwindcss@1.9.6/dist/tailwind.min.css</a>	162KB	0ms
<b>HUBSPOT</b>	70.4KB	0ms
• <a href="https://js.hscollectedforms.net/collectedforms.js">https://js.hscollectedforms.net/collectedforms.js</a>	25.2KB	0ms
• <a href="https://js.hs-analytics.net/analytics/1710216600000/7399933.js">https://js.hs-analytics.net/analytics/1710216600000/7399933.js</a>	21.2KB	0ms
• <a href="https://js.hs-banner.com/7399933.js">https://js.hs-banner.com/7399933.js</a>	16.6KB	0ms
• Other resources	7.35KB	0ms
<b>OTHER GOOGLE APIS/SDKS</b>	46.8KB	0ms
• <a href="https://www.google.com/recaptcha/api2/anchor?ar=1&amp;k=6Lc4B7EUAAAAAChTUYvVZAQtrJ87-j-6PweMAg4&amp;co=aHR0cHM6Ly93d3cuYXRvbnRvdpc2UuY29tOjQ0Mw..&amp;hl=en&amp;v=QquE1_MNjnFHgZF4HPsEcf_2&amp;size=invisible&amp;cb=oen043o1f8et">https://www.google.com/recaptcha/api2/anchor?ar=1&amp;k=6Lc4B7EUAAAAAChTUYvVZAQtrJ87-j-6PweMAg4&amp;co=aHR0cHM6Ly93d3cuYXRvbnRvdpc2UuY29tOjQ0Mw..&amp;hl=en&amp;v=QquE1_MNjnFHgZF4HPsEcf_2&amp;size=invisible&amp;cb=oen043o1f8et</a>	28.1KB	0ms
• <a href="https://www.google.com/recaptcha/api2/reload?k=6Lc4B7EUAAAAAChTUYvVZAQtrJ87-j-6PweMAg4">https://www.google.com/recaptcha/api2/reload?k=6Lc4B7EUAAAAAChTUYvVZAQtrJ87-j-6PweMAg4</a>	9.40KB	0ms
• <a href="https://www.google.com/js/bg/722MIWu_TMZiQau3mAaarHtCk2pd6rTYw5oNsH4wR_g.js">https://www.google.com/js/bg/722MIWu_TMZiQau3mAaarHtCk2pd6rTYw5oNsH4wR_g.js</a>	7.20KB	0ms
<b>GOOGLE FONTS</b>	30.8KB	0ms
• <a href="https://fonts.gstatic.com/s/roboto/v18/KFOICnqEu92Fr1MmEU9fBBc4.woff2">https://fonts.gstatic.com/s/roboto/v18/KFOICnqEu92Fr1MmEU9fBBc4.woff2</a>	15.7KB	0ms
• <a href="https://fonts.gstatic.com/s/roboto/v18/KFOmCnqEu92Fr1Mu4mxK.woff2">https://fonts.gstatic.com/s/roboto/v18/KFOmCnqEu92Fr1Mu4mxK.woff2</a>	15.1KB	0ms
<b>JQUERY CDN</b>	30.5KB	0ms
• <a href="https://code.jquery.com/jquery-3.5.1.min.js">https://code.jquery.com/jquery-3.5.1.min.js</a>	30.5KB	0ms
<b>GOOGLE ANALYTICS</b>	20.8KB	0ms
• <a href="https://www.google-analytics.com/analytics.js">https://www.google-analytics.com/analytics.js</a>	20.8KB	0ms
<b>CLOUDFLARE CDN</b>	12.7KB	0ms
• <a href="https://cdnjs.cloudflare.com/ajax/libs/tiny-slider/2.9.2/min/tiny-slider.js">https://cdnjs.cloudflare.com/ajax/libs/tiny-slider/2.9.2/min/tiny-slider.js</a>	11.5KB	0ms
<b>GOOGLE/DOUBLECLICK ADS</b>	1.78KB	0ms

N/A

### User Timing marks and measures

No user timings and/or marks found.