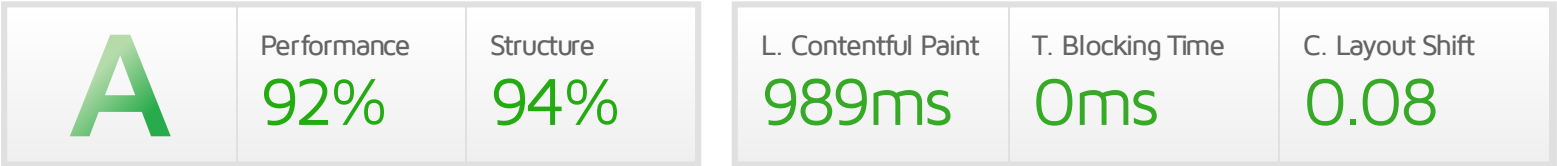


Performance Report for: <https://oppilotech.com/>

Report generated: Tue, Mar 12, 2024 5:20 AM -0700
 Test Server Location: London, UK
 Using: Chrome 117.0.0.0, Lighthouse 11.0.0



Top Issues

High	Reduce initial server response time <small>FCP LCP</small>	Root document took 608ms
Med	Use explicit width and height on image elements <small>CLS</small>	4 images found
Med	Serve static assets with an efficient cache policy	Potential savings of 602KB
Med-Low	Use a Content Delivery Network (CDN)	27 resources found
Low	Reduce JavaScript execution time <small>TBT</small>	810ms spent executing JavaScript

Page Details



Total Page Size - 809KB



Total Page Requests - 40



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

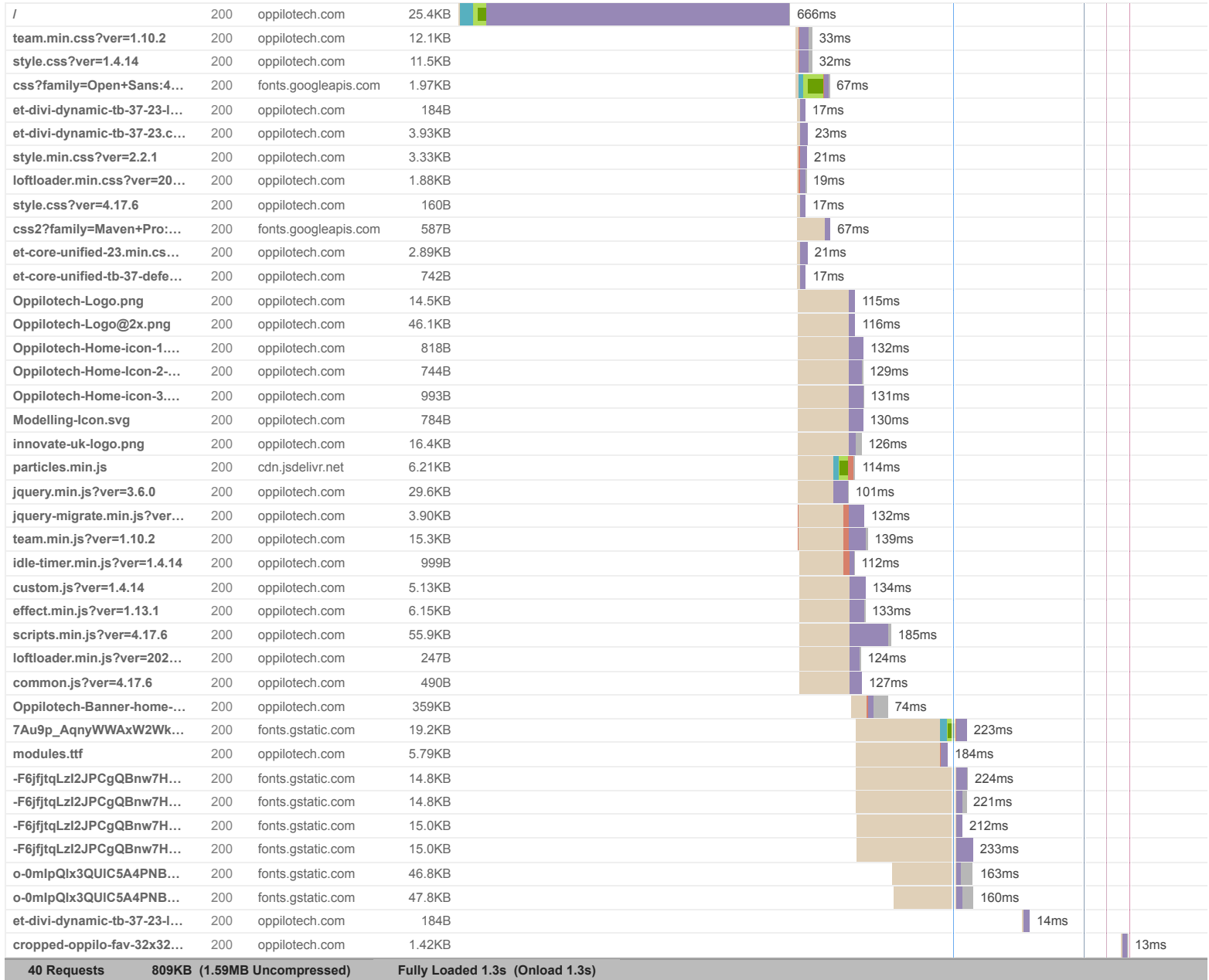


GTmetrix is developed by the good folks at **Carbon60**, a Canadian hosting company with over 28 years experience in web technology.

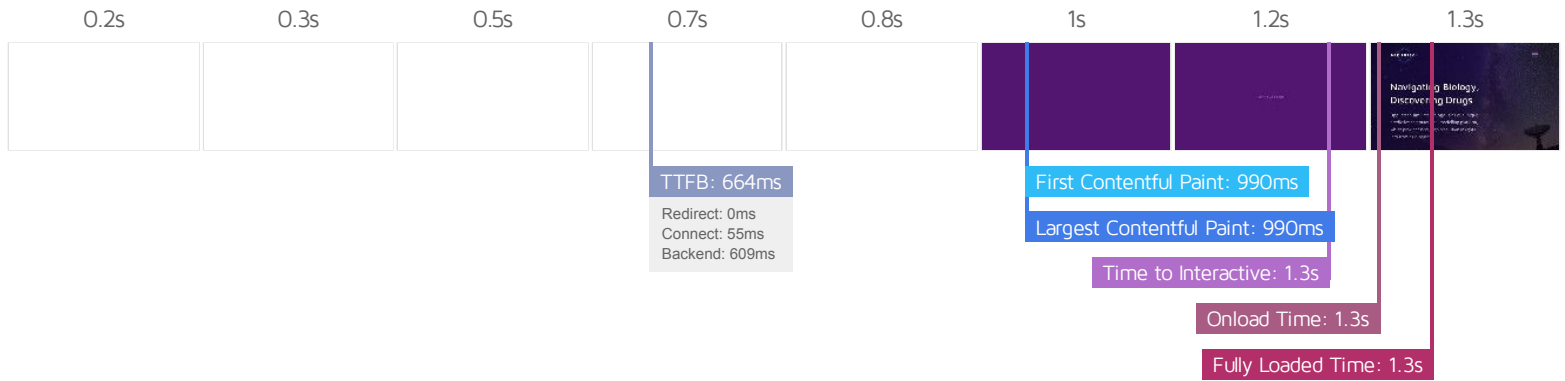
<https://carbon60.com/>

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.

Home - Navigating Biology, Discovering Drugs



40 Requests 809KB (1.59MB Uncompressed) Fully Loaded 1.3s (Onload 1.3s)



Performance Metrics

<p>First Contentful Paint</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>OK, but consider improvement</p> <p>989ms</p>	<p>Time to Interactive</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>1.3s</p>
<p>Speed Index</p> <p>How quickly the contents of your page are visibly populated. A good user experience is 1.3s or less.</p>	<p>Longer than recommended</p> <p>2.2s</p>	<p>Total Blocking Time</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>0ms</p>
<p>Largest Contentful Paint</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>989ms</p>	<p>Cumulative Layout Shift</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>0.08</p>

Browser Timings

Redirect	0ms	Connect	55ms	Backend	609ms
TTFB	664ms	First Paint	990ms	DOM Int.	1.2s
DOM Loaded	1.3s	Onload	1.3s	Fully Loaded	1.3s

IMPACT AUDIT

Low

Avoid large layout shifts CLS

4 elements found

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

ELEMENT	CLS CONTRIBUTION
div.et-l > div.et_builder_inner_content > div#particles-js > canvas.particles-js-canvas-el <code><canvas class="particles-js-canvas-el" width="1366" height="768" style="width: 100%; height: 100%;"></code>	0.08
Oppilotech simulate biology using our unique predictive computational modelling... <code><p></code>	0.00
Navigating Biology, <code><h1></code>	0.00
Discovering Drugs <code><h1></code>	0.00

Low

Avoid an excessive DOM size TBT

331 elements

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

STATISTIC	ELEMENT	VALUE
Total DOM Elements		331
Maximum DOM Depth	Oppilotech Services <code></code>	17
Maximum Child Elements	body.home <code><body class="home page-template-default page page-id-23 et-tb-has-template et-tb-has-fo..."></code>	27

Low

Avoid enormous network payloads LCP

Total size was 813KB

Large network payloads cost users real money and are highly correlated with long load times.

URL	TRANSFER SIZE
• https://oppilotech.com/wp-content/uploads/2020/08/Oppilotech-Banner-home-02.jpg	359KB
• https://oppilotech.com/wp-content/themes/Divi/js/scripts.min.js?ver=4.17.6	56.0KB
• https://fonts.gstatic.com/s/notosans/v36/o-0mlpQlx3QUIC5A4PNB6Ryti20_6n1iPHjcz6L1SoM-jCpoiYD9A-9U6VI.woff2	48.0KB
• https://fonts.gstatic.com/s/notosans/v36/o-0mlpQlx3QUIC5A4PNB6Ryti20_6n1iPHjcz6L1SoM-jCpoiYaaBO9U6VI.woff2	47.3KB
• https://oppilotech.com/wp-content/uploads/2020/08/Oppilotech-Logo@2x.png	46.2KB
• https://oppilotech.com/wp-includes/js/jquery/jquery.min.js?ver=3.6.0	29.7KB
• https://oppilotech.com/	25.7KB
• https://fonts.gstatic.com/s/mavenpro/v33/7Au9p_AqnyWWAxW2Wk3GzWQI.woff2	19.3KB
• https://oppilotech.com/wp-content/uploads/2020/08/innovate-uk-logo.png	16.5KB
• https://oppilotech.com/wp-content/plugins/aws-m-team-pro/js/team.min.js?ver=1.10.2	15.4KB

Low Properly size images

Potential savings of 32.6KB

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

URL	RESOURCE SIZE	POTENTIAL SAVINGS
https://oppilotech.com/wp-content/uploads/2020/08/Oppilotech-Logo@2x.png	46.1KB	32.6KB

Low Efficiently encode images

Potential savings of 55.2KB

Optimized images load faster and consume less cellular data.

URL	RESOURCE SIZE	POTENTIAL SAVINGS
https://oppilotech.com/wp-content/uploads/2020/08/Oppilotech-Banner-home-02.jpg	359KB	55.2KB

Low Avoid long main-thread tasks TBT

1 long task found

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

URL	START TIME	DURATION
• https://oppilotech.com/	774ms	106ms

Low Reduce unused CSS FCP LCP

Potential savings of 23.8KB

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
• https://oppilotech.com/wp-content/plugins/aws-m-team-pro/css/team.min.css?ver=1.10.2	12.2KB	12.2KB
• https://oppilotech.com/wp-content/plugins/monarch/css/style.css?ver=1.4.14	11.6KB	11.6KB

Low Serve images in next-gen formats

Potential savings of 289KB

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
https://oppilotech.com/wp-content/uploads/2020/08/Oppilotech-Banner-home-02.jpg	359KB	234KB
https://oppilotech.com/wp-content/uploads/2020/08/Oppilotech-Logo@2x.png	46.1KB	33.0KB
https://oppilotech.com/wp-content/uploads/2020/08/innovate-uk-logo.png	16.4KB	12.9KB
https://oppilotech.com/wp-content/uploads/2020/08/Oppilotech-Logo.png	14.5KB	9.8KB

Low **Defer offscreen images** Potential savings of 30.9KB

Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive.

URL	RESOURCE SIZE	POTENTIAL SAVINGS
https://oppilotech.com/wp-content/uploads/2020/08/innovate-uk-logo.png	16.4KB	16.4KB
https://oppilotech.com/wp-content/uploads/2020/08/Oppilotech-Logo.png	14.5KB	14.5KB

Low **Avoid non-composited animations** CLS 1 animated element found

Animations which are not composited can be janky and increase CLS.

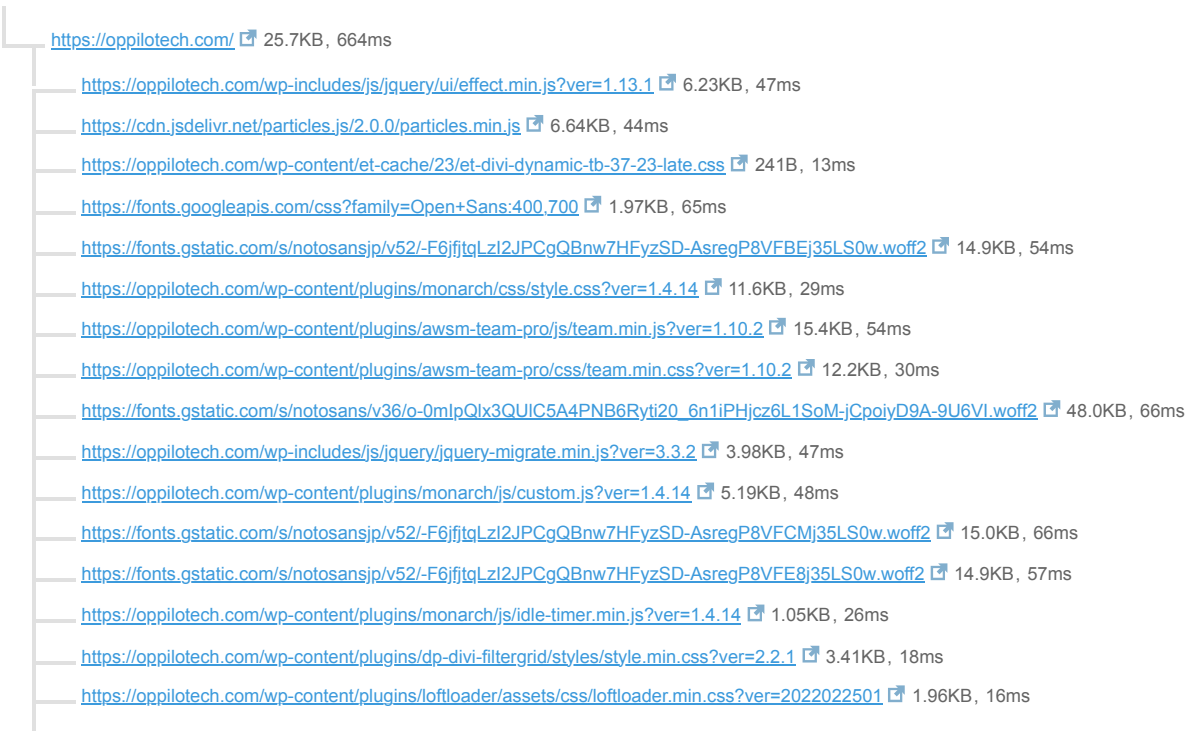
ELEMENT	NAME
div#loftloader-wrapper > div.loader-inner > div#loader > div.imgloading-container <div class="imgloading-container"> Unsupported CSS Property: height	imgLoading

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: **1.1s**

INITIAL NAVIGATION



- <https://oppilotech.com/wp-content/themes/Divi/js/scripts.min.js?ver=4.17.6> 56.0KB, 99ms
- <https://oppilotech.com/wp-content/plugins/loftloader/assets/js/loftloader.min.js?ver=2022022501> 328B, 37ms
- https://fonts.gstatic.com/s/notosans/v36/o-0mlpQlx3QUIC5A4PNB6Ryti20_6n1iPHjcz6L1SoM-jCpoiYaaBO9U6VI.woff2 47.3KB, 67ms
- <https://oppilotech.com/wp-content/themes/divi-child/style.css?ver=4.17.6> 240B, 14ms
- <https://oppilotech.com/wp-content/et-cache/23/et-core-unified-23.min.css?ver=1709143547> 2.97KB, 18ms
- <https://oppilotech.com/wp-content/themes/Divi/core/admin/js/common.js?ver=4.17.6> 571B, 40ms
- <https://fonts.gstatic.com/s/notosansjp/v52/-F6jftqLzI2JPCgQBnw7HFyzSD-AsregP8VFPYk35LS0w.woff2> 15.1KB, 45ms
- <https://oppilotech.com/wp-includes/js/jquery/jquery.min.js?ver=3.6.0> 29.7KB, 31ms
- <https://fonts.googleapis.com/css2?family=Maven+Pro:wght@400:500:600&display=swap> 587B, 64ms
- https://fonts.gstatic.com/s/mavenpro/v33/7Au9p_AqnyWWAxW2Wk3GzWQI.woff2 19.3KB, 56ms

LOW **Reduce unused JavaScript** LCP Potential savings of 36.4KB

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

URL	TRANSFER SIZE	POTENTIAL SAVINGS
https://oppilotech.com/wp-content/themes/Divi/js/scripts.min.js?ver=4.17.6	56.0KB	36.4KB

N/A **Largest Contentful Paint element** LCP 990 ms

This is the largest contentful element painted within the viewport.

ELEMENT

Oppilotech simulate biology using our unique predictive computational modelling...
<p>

PHASE	% OF LCP	TIMING
TTFB	67%	664ms
Load Delay	0%	0ms
Load Time	0%	0ms
Render Delay	33%	325ms

N/A **Eliminate render-blocking resources** FCP LCP Potential savings of 0 ms

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

Resources that **may** be contributing to render-blocking include:

URL	TRANSFER SIZE	DOWNLOAD TIME
https://oppilotech.com/wp-content/plugins/monarch/css/style.css?ver=1.4.14	11.6KB	158ms
https://fonts.googleapis.com/css?family=Open+Sans:400,700	1.97KB	777ms
https://fonts.googleapis.com/css2?family=Maven+Pro:wght@400:500:600&display=swap	587B	158ms

N/A

Minimize main-thread work TBT

Main-thread busy for 3.9s

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

CATEGORY	TIME SPENT
Other	1.8s
Rendering	966ms
Script Evaluation	852ms
Style & Layout	208ms
Parse HTML & CSS	34ms
Garbage Collection	24ms
Script Parsing & Compilation	12ms

Other

1.8s

Rendering

966ms

Script Evaluation

852ms

Style & Layout

208ms

Parse HTML & CSS

34ms

Garbage Collection

24ms

Script Parsing & Compilation

12ms

N/A

Reduce the impact of third-party code TBT

Total size was 184KB

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
GOOGLE FONTS	177KB	0ms
• https://fonts.gstatic.com/s/notosans/v36/o-0mlpQlx3QUIC5A4PNB6Ryti20_6n1iPHjcz6L1SoM-jCpoiYD9A-9U6VI.woff2	48.0KB	0ms
• https://fonts.gstatic.com/s/notosans/v36/o-0mlpQlx3QUIC5A4PNB6Ryti20_6n1iPHjcz6L1SoM-jCpoiYAaBO9U6VI.woff2	47.3KB	0ms
• https://fonts.gstatic.com/s/mavenpro/v33/7Au9p_AqnyWWAxW2Wk3GzWQI.woff2	19.3KB	0ms
• https://fonts.gstatic.com/s/notosansjp/v52/-F6jftqLzI2JPCgQBnw7HFyzSD-AsregP8VFPYk35LS0w.woff2	15.1KB	0ms
• https://fonts.gstatic.com/s/notosansjp/v52/-F6jftqLzI2JPCgQBnw7HFyzSD-AsregP8VFCMj35LS0w.woff2	15.0KB	0ms
• Other resources	32.4KB	0ms
JSDELIVR CDN	6.64KB	0ms
• https://cdn.jsdelivr.net/particles.js/2.0.0/particles.min.js	6.64KB	0ms

N/A

Avoid serving legacy JavaScript to modern browsers TBT

Nothing to do here, good job!

N/A

User Timing marks and measures

No user timings and/or marks found.