



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

Report generated: Tue, Mar 12, 2024 8:13 AM -0700
 Test Server Location: London, UK
 Using: Chrome 117.0.0.0, Lighthouse 11.0.0

B	Performance	Structure	L. Contentful Paint	T. Blocking Time	C. Layout Shift
	86%	82%	646ms	82ms	0.23

Top Issues

High	Avoid enormous network payloads <small>LCP</small>	Total size was 14.5MB
Med	Serve static assets with an efficient cache policy	Potential savings of 13.7MB
Med-Low	Use a Content Delivery Network (CDN)	22 resources found
Med-Low	Avoid large layout shifts <small>CLS</small>	5 elements found
Low	Avoid an excessive DOM size <small>TBT</small>	967 elements

Page Details



Total Page Size - 1.17MB



Total Page Requests - 31



■ 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

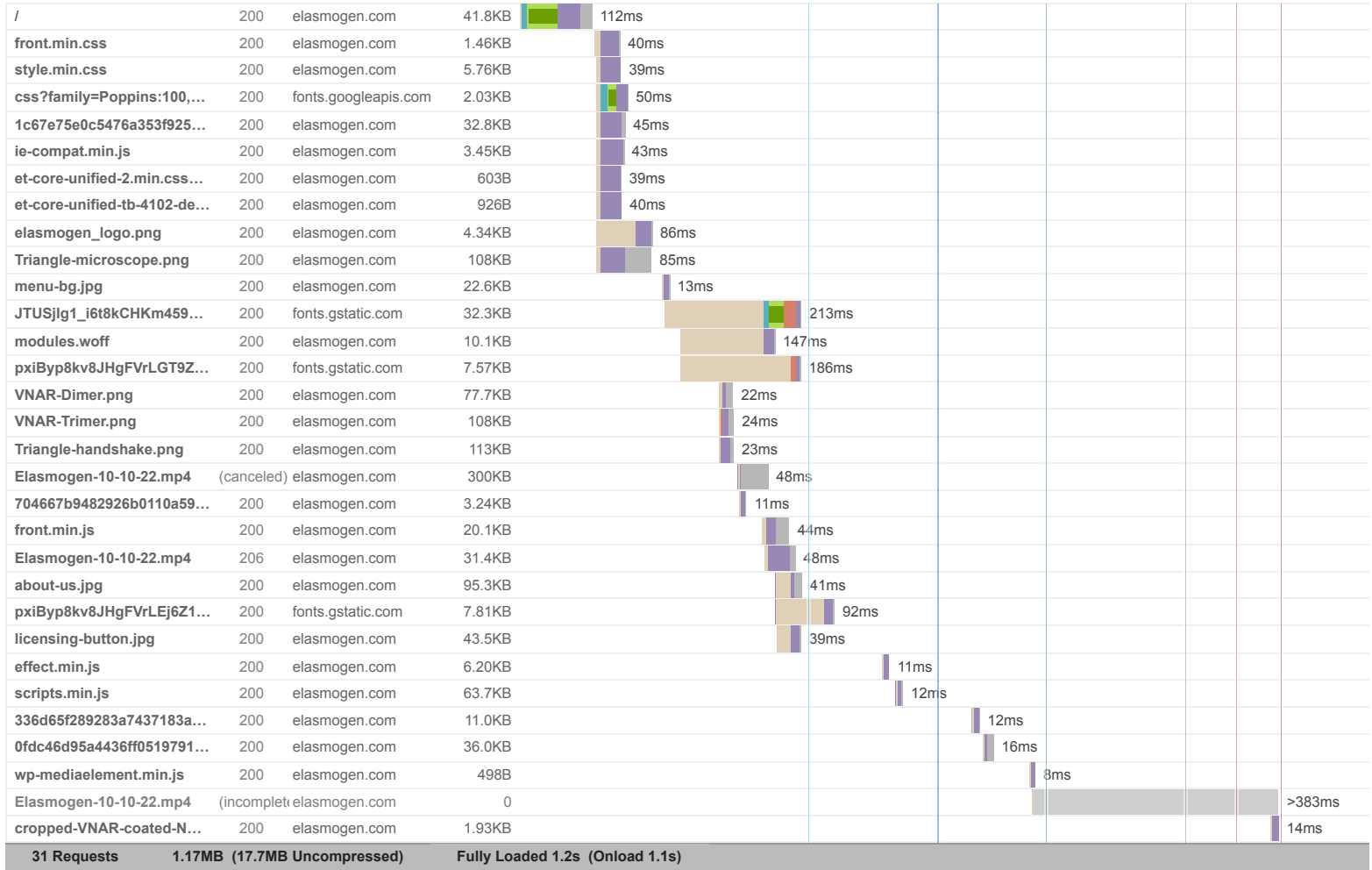


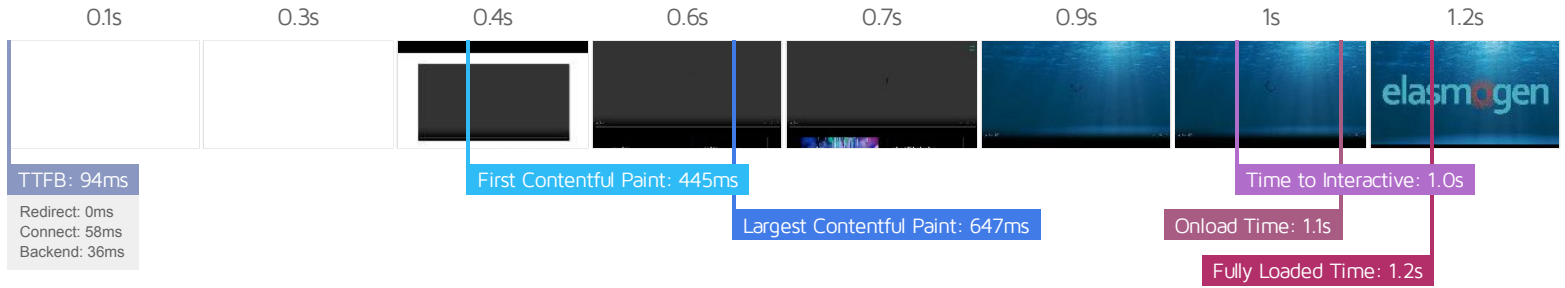
GTmetrix is developed by the good folks at **Carbon60**, a Canadian hosting company with over 28 years experience in web technology.

<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.

Elasmogen - discovering and developing soloMERs





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>Good - Nothing to do here</p> <p>444ms</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>1.0s</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>OK, but consider improvement</p> <p>1.5s</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>82ms</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>646ms</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>More than recommended</p> <p>0.23</p>

Browser Timings

Redirect	0ms	Connect	58ms	Backend	36ms
TTFB	94ms	First Paint	445ms	DOM Int.	809ms
DOM Loaded	816ms	Onload	1.1s	Fully Loaded	1.2s

IMPACT AUDIT

Low Use passive listeners to improve scrolling performance 1 event listener not passive

Consider marking your touch and wheel event listeners as `passive` to improve your page's scroll performance.

URL	LOCATION
<ul style="list-style-type: none"> https://elasmogen.com/wp-content/uploads/hummingbird-assets/1c67e75e0c5476a353f925900267622d.js 	Line:2

Low Eliminate render-blocking resources FCP LCP Potential savings of 35ms

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://elasmogen.com/wp-content/plugins/popups-for-divi/styles/front.min.css	1.57KB	150ms
https://elasmogen.com/wp-content/uploads/hummingbird-assets/1c67e75e0c5476a353f925900267622d.js	32.9KB	450ms

Low Properly size images Potential savings of 249KB

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

URL	RESOURCE SIZE	POTENTIAL SAVINGS
https://elasmogen.com/wp-content/uploads/2023/03/Triangle-handshake.png	113KB	76.6KB
https://elasmogen.com/wp-content/uploads/2022/12/VNAR-Trimer.png	108KB	70.8KB
https://elasmogen.com/wp-content/uploads/2023/01/Triangle-microscope.png	108KB	70.4KB
https://elasmogen.com/wp-content/uploads/2022/12/VNAR-Dimer.png	77.7KB	31.6KB

Low Efficiently encode images Potential savings of 6.45KB

Optimized images load faster and consume less cellular data.

URL	RESOURCE SIZE	POTENTIAL SAVINGS
https://elasmogen.com/wp-content/uploads/2023/03/about-us.jpg	95.3KB	6.45KB

Low Avoid long main-thread tasks TBT 5 long tasks found

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

URL	START TIME	DURATION
• https://elasmogen.com/wp-content/uploads/hummingbird-assets/1c67e75e0c5476a353f925900267622d.js	852ms	115ms
• https://elasmogen.com/	213ms	97ms
• https://elasmogen.com/	389ms	65ms
• https://elasmogen.com/	967ms	64ms
• https://elasmogen.com/wp-content/themes/Divi/js/scripts.min.js	640ms	53ms

Low **Reduce JavaScript execution time** TBT 262ms 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
• https://elasmogen.com/	447ms	15ms	2ms
• Unattributable	302ms	4ms	0ms
• https://elasmogen.com/wp-content/uploads/hummingbird-assets/1c67e75e0c5476a353f925900267622d.js	247ms	160ms	1ms
• https://elasmogen.com/wp-content/themes/Divi/js/scripts.min.js	144ms	72ms	4ms

Low **Reduce unused CSS** FCP LCP Potential savings of 11.7KB

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
• @font-face{font-family:ETmodules;font-display:block;src:url(//elasmogen.com/wp-content/themes/Divi/...	14.0KB	11.7KB

Low **Serve images in next-gen formats** Potential savings of 440KB

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://elasmogen.com/wp-content/uploads/2023/03/Triangle-handshake.png	113KB	103KB
https://elasmogen.com/wp-content/uploads/2023/01/Triangle-microscope.png	108KB	98KB
https://elasmogen.com/wp-content/uploads/2022/12/VNAR-Trimer.png	108KB	88.9KB
https://elasmogen.com/wp-content/uploads/2022/12/VNAR-Dimer.png	77.7KB	64.6KB
https://elasmogen.com/wp-content/uploads/2023/03/about-us.jpg	95.3KB	50.2KB
https://elasmogen.com/wp-content/uploads/2023/03/licensing-button.jpg	43.5KB	23.4KB
https://elasmogen.com/wp-content/uploads/2022/11/menu-bg.jpg	22.4KB	11.7KB

Low **Defer offscreen images** Potential savings of 4.34KB

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://elasmogen.com/wp-content/uploads/2022/08/elasmogen_logo.png	4.34KB	4.34KB

Low **Avoid non-composited animations** CLS 42 animated elements found

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

ELEMENT

NAME

pipeline	
<code><div class="et_pb_with_border et_pb_module et_pb_text et_pb_text_2 et_clickable et_pb_..."></code>	
Unsupported CSS Property: background-color	background-color
about us	
<code><div class="et_pb_with_border et_pb_module et_pb_text et_pb_text_0 et_clickable et_pb_..."></code>	
Unsupported CSS Property: background-color	background-color
Unsupported CSS Property: border-left-color	border-left-color
Unsupported CSS Property: border-left-width	border-left-width
Unsupported CSS Property: border-right-color	border-right-color
Unsupported CSS Property: border-right-width	border-right-width
Unsupported CSS Property: border-top-color	border-top-color
Unsupported CSS Property: border-top-width	border-top-width
Unsupported CSS Property: border-bottom-color	border-bottom-color
Unsupported CSS Property: border-bottom-width	border-bottom-width
licensing opportunities	
<code><div class="et_pb_with_border et_pb_module et_pb_text et_pb_text_3 et_clickable et_pb_..."></code>	
Unsupported CSS Property: border-left-color	border-left-color
Unsupported CSS Property: border-left-width	border-left-width
Unsupported CSS Property: border-right-color	border-right-color
Unsupported CSS Property: border-right-width	border-right-width
Unsupported CSS Property: border-top-color	border-top-color
Unsupported CSS Property: border-top-width	border-top-width
Unsupported CSS Property: border-bottom-color	border-bottom-color
Unsupported CSS Property: border-bottom-width	border-bottom-width
soloMER@ technology	
<code><div class="et_pb_with_border et_pb_module et_pb_text et_pb_text_1 et_clickable et_pb_..."></code>	
Unsupported CSS Property: background-color	background-color
Read More	
<code></code>	
Unsupported CSS Property: visibility	visibility
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Unsupported CSS Property: visibility	visibility
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Unsupported CSS Property: visibility	visibility
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Unsupported CSS Property: visibility	visibility

ELEMENT	NAME
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/elasmogen-and-intract-enter-license-agreement-for-so..." tabindex="0"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/elasmogen-receives-1-2-m-in-grant-and-equity-investm..." tabindex="-1"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/elasmogen-ceo-caroline-barelle-interviewed-by-life-s..." tabindex="-1"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/elasmogen-ltd-are-shortlisted-in-the-obn-best-start-..." tabindex="-1"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/bgf-scottish-national-investment-bank-and-scottish-e..." tabindex="0"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/elasmogen-ceo-named-one-of-top-14-female-entrepreneu..." tabindex="-1"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/harlaw-academy-students-visited-elasmogen/" tabindex="-1"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/summit-awards-celebrating-scottish-entrepreneurship/" tabindex="-1"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/elasmogen-ceo-caroline-barelle-named-one-of-top-20-w..." tabindex="-1"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/elasmogen-ltd-to-deploy-their-solomer-technology-pla..." tabindex="-1"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/almac-discovery-and-elasmogen-to-share-anti-ror-1-vn..." tabindex="-1"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/shark-antibody-like-proteins-neutralize-covid-19-vir..." tabindex="0"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/elasmogen-licenses-nduretm-half-life-extension-techn..." tabindex="-1"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p> <p><a ><="" a="" class="et_pb_button" href="https://elasmogen.com/elasmogen-ceo-caroline-barelle-featured-in-news-outl..." tabindex="-1"></p> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Read More</p>	

ELEMENT

NAME

```
<a class="et_pb_button" href="https://elasmogen.com/elasmogen-nominated-for-innovative-collaboration-awa..." tabindex="-1">
```

Unsupported CSS Property: visibility

visibility

Read More

```
<a class="et_pb_button" href="https://elasmogen.com/caroline-barelle-featured-in-insights-success/" tabindex="-1">
```

Unsupported CSS Property: visibility

visibility

Read More

```
<a class="et_pb_button" href="https://elasmogen.com/elasmogen-wins-two-grants-worth-374000/" tabindex="-1">
```

Unsupported CSS Property: visibility

visibility

Read More

```
<a class="et_pb_button" href="https://elasmogen.com/almac-discovery-elasmogen-and-innovate-uk-collaborat..." tabindex="-1">
```

Unsupported CSS Property: visibility

visibility

Read More

```
<a class="et_pb_button" href="https://elasmogen.com/elasmogen-team-took-a-part-in-the-regional-event-hos..." tabindex="-1">
```

Unsupported CSS Property: visibility

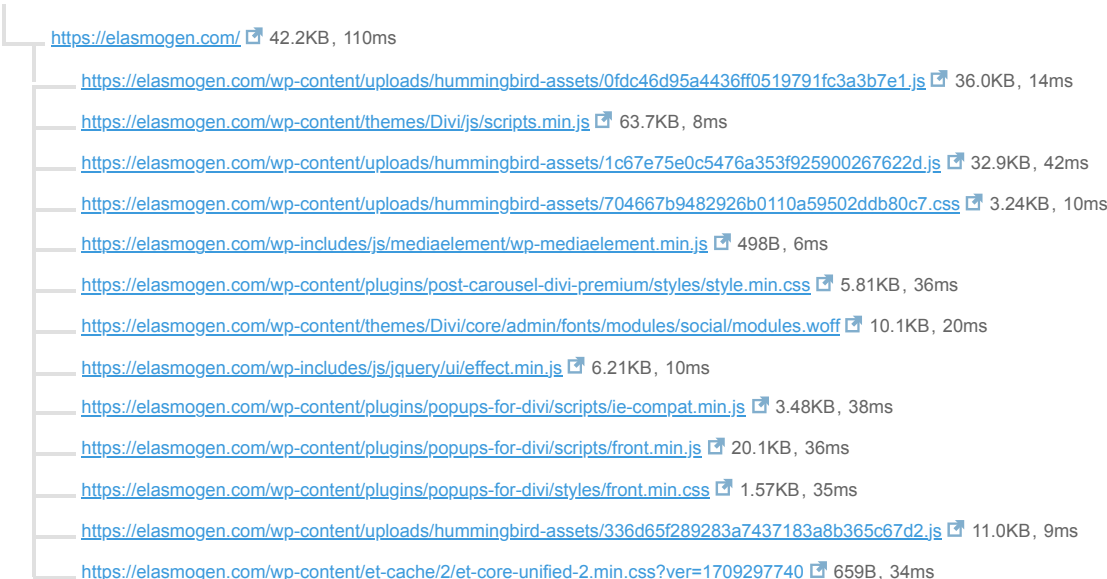
visibility

Low **Avoid chaining critical requests** FCP LCP 13 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: **800ms**

INITIAL NAVIGATION



Low **Reduce unused JavaScript** LCP Potential savings of 69.8KB

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

URL	TRANSFER SIZE	POTENTIAL SAVINGS
https://elasmogen.com/wp-content/themes/Divi/js/scripts.min.js	63.7KB	40.5KB
https://elasmogen.com/wp-content/uploads/hummingbird-assets/0fdc46d95a4436ff0519791fc3a3b7e1.js	36.0KB	29.3KB

N/A **Largest Contentful Paint element** LCP 650 ms

This is the largest contentful element painted within the viewport.

ELEMENT

about us
`<div class="et_pb_with_border et_pb_module et_pb_text et_pb_text_0 et_clickable et_pb_...">`

PHASE	% OF LCP	TIMING
TTFB	15%	94ms
Load Delay	48%	313ms
Load Time	5%	30ms
Render Delay	32%	207ms

N/A **Reduce initial server response time** FCP LCP Root document took 35ms

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

URL	TIME SPENT
• https://elasmogen.com/	35ms

N/A **Avoid serving legacy JavaScript to modern browsers** TBT Potential savings of 11.5KB

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
https://elasmogen.com/wp-content/plugins/popups-for-divi/scripts/ie-compat.min.js Line:0 Column:8451	11.5KB
https://elasmogen.com/wp-content/uploads/hummingbird-assets/0fdc46d95a4436ff0519791fc3a3b7e1.js Line:13 Column:12531	50B

N/A **Minimize main-thread work** TBT Main-thread busy for 1.2s

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

CATEGORY	TIME SPENT
Other	512ms
Script Evaluation	313ms
Style & Layout	293ms
Rendering	55ms
Parse HTML & CSS	37ms
Script Parsing & Compilation	13ms
Garbage Collection	4ms

N/A

Reduce the impact of third-party code TBT

Total size was 50.5KB

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	50.5KB	0ms
• https://fonts.gstatic.com/s/montserrat/v26/JTUSjlg1_i6t8kCHKm459Wlhyw.woff2	32.9KB	0ms
• https://fonts.gstatic.com/s/poppins/v20/pxiByp8kv8JHgFVrLEj6Z1xIFQ.woff2	7.93KB	0ms
• https://fonts.gstatic.com/s/poppins/v20/pxiByp8kv8JHgFVrLGT9Z1xIFQ.woff2	7.68KB	0ms

N/A

User Timing marks and measures

No user timings and/or marks found.