



Performance Report for: <https://www.imspe.com/>

Report generated: Tue, Mar 12, 2024 8:04 AM -0700
 Test Server Location: London, UK
 Using: Chrome 117.0.0.0, Lighthouse 11.0.0

A	Performance	Structure	L. Contentful Paint	T. Blocking Time	C. Layout Shift
	99%	94%	695ms	47ms	0.01

Top Issues

Med	Use explicit width and height on image elements <small>CLS</small>	2 images found
Med	Use a Content Delivery Network (CDN)	73 resources found
Low	Avoid chaining critical requests <small>FCP LCP</small>	67 chains found
Low	Avoid an excessive DOM size <small>TBT</small>	759 elements
Low	Eliminate render-blocking resources <small>FCP LCP</small>	Potential savings of 76ms

Page Details



Total Page Size - 1.59MB



Total Page Requests - 93



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/>

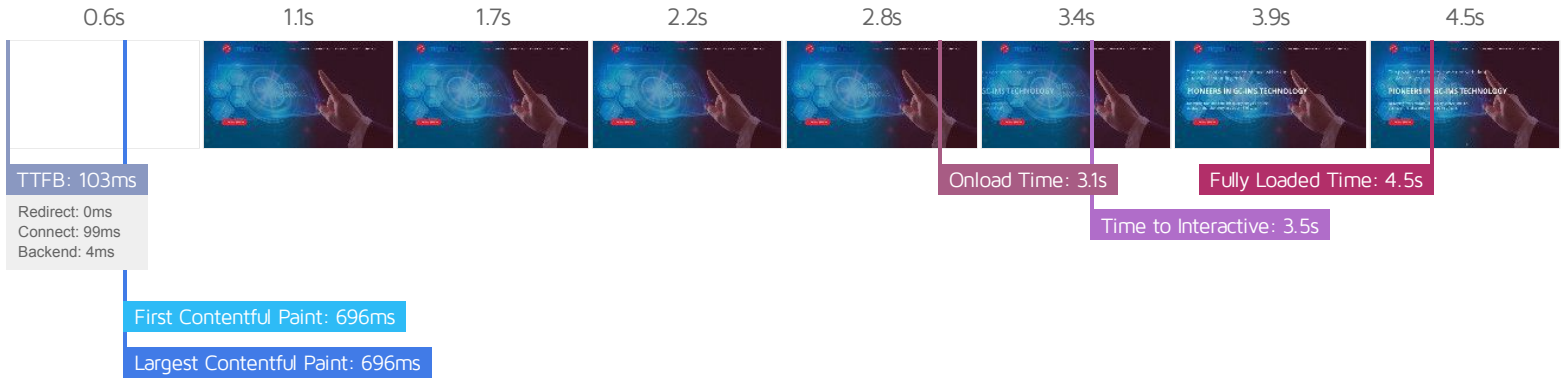
The waterfall chart displays the loading behaviour of your site in your selected browser. It can be used to discover simple issues such as 404's or more complex issues such as external resources blocking page rendering.

Home | Impspex Group

Resource	Size	Source	Weight	Time
/	200	impsex.com	24.4KB	110ms
activ-public.css?ver=1.0.12	200	impsex.com	266B	26ms
style.css?ver=6.4.3	200	impsex.com	3.76KB	29ms
style.css?ver=6.4.3	200	impsex.com	371B	13ms
style.min.css?ver=3.0.1	200	impsex.com	1.99KB	16ms
theme.min.css?ver=3.0.1	200	impsex.com	1.43KB	17ms
header-footer.min.css?ve...	200	impsex.com	1.58KB	17ms
frontend-lite.min.css?ver...	200	impsex.com	13.7KB	24ms
post-3.css?ver=1655730378	200	impsex.com	1.11KB	19ms
elementor-icons.min.css?...	200	impsex.com	4.12KB	24ms
swiper.min.css?ver=5.3.6	200	impsex.com	2.51KB	25ms
frontend.min.css?ver=2.1...	200	impsex.com	39.7KB	50ms
frontend-lite.min.css?ver...	200	impsex.com	1.64KB	26ms
uael-frontend.min.css?ve...	200	impsex.com	67.8KB	51ms
she-header-style.css?ver...	200	impsex.com	825B	35ms
post-6.css?ver=1655730548	200	impsex.com	3.24KB	35ms
post-9.css?ver=1693923155	200	impsex.com	1.06KB	36ms
post-1467.css?ver=16557...	200	impsex.com	583B	37ms
general.min.css?ver=5.9.10	200	impsex.com	0.98KB	38ms
ecs-style.css?ver=3.1.7	200	impsex.com	1.95KB	38ms
css?family=Open+Sans%...	200	fonts.googleapis.com	2.79KB	81ms
jquery.min.js?ver=3.7.1	200	impsex.com	29.9KB	46ms
jquery-migrate.min.js?ver...	200	impsex.com	4.92KB	40ms
activ-public.js?ver=1.0.12	200	impsex.com	649B	41ms
she-header.js?ver=1.6.10	200	impsex.com	2.47KB	42ms
ecs_ajax_pagination.js?v...	200	impsex.com	1.45KB	42ms
ecs.js?ver=3.1.7	200	impsex.com	337B	43ms
Fullstack-Colour-PNG-1-1...	200	impsex.com	9.16KB	43ms
widget-nav-menu.min.css	200	impsex.com	3.43KB	189ms
widget-icon-box.min.css	200	impsex.com	894B	190ms
widget-posts.min.css	200	impsex.com	2.42KB	231ms
widget-icon-list.min.css	200	impsex.com	1.11KB	267ms
admin-ajax.php?action=...	200	cms4-activ.activ.ltd	578B	2.3s
style-1472.css?ver=16527...	200	impsex.com	3.38KB	268ms
forminator-icons.min.css...	200	impsex.com	1.13KB	269ms
forminator-utilities.min.cs...	200	impsex.com	555B	272ms
forminator-form-flat.base...	200	impsex.com	5.35KB	284ms
intlTelInput.min.css?ver=...	200	impsex.com	3.00KB	289ms
buttons.min.css?ver=6.4.3	200	impsex.com	1.59KB	289ms
animations.min.css?ver=...	200	impsex.com	2.69KB	289ms
hello-frontend.min.js?ver...	200	impsex.com	1.03KB	306ms
smush-lazy-load.min.js?v...	200	impsex.com	3.84KB	290ms
general.min.js?ver=5.9.10	200	impsex.com	3.49KB	291ms
jquery.smartmenus.min.js...	200	impsex.com	7.09KB	294ms
imagesloaded.min.js?ver...	200	impsex.com	1.93KB	295ms
jquery.validate.min.js?ver...	200	impsex.com	7.90KB	296ms
forminator-form.min.js?v...	200	impsex.com	4.02KB	297ms
front.multi.min.js?ver=1.2...	200	impsex.com	78.4KB	337ms
intlTelInput.min.js?ver=1...	200	impsex.com	10.9KB	302ms
libphonenumber.min.js?v...	200	impsex.com	40.8KB	326ms
webpack.runtime.min.js?...	200	impsex.com	2.33KB	306ms
frontend-modules.min.js?...	200	impsex.com	16.7KB	307ms
waypoints.min.js?ver=4.0.2	200	impsex.com	3.09KB	308ms

core.min.js?ver=1.13.2	200	imspex.com	7.10KB	309ms				
frontend.min.js?ver=3.19.4	200	imspex.com	12.1KB	317ms				
ecsp.js?ver=3.2.4	200	imspex.com	4.18KB	318ms				
webpack-pro.runtime.min...	200	imspex.com	2.76KB	319ms				
wp-polyfill-inert.min.js?ve...	200	imspex.com	2.59KB	319ms				
regenerator-runtime.min.j...	200	imspex.com	2.61KB	320ms				
wp-polyfill.min.js?ver=3.1...	200	imspex.com	35.3KB	336ms				
hooks.min.js?ver=c6aec9...	200	imspex.com	1.70KB	327ms				
i18n.min.js?ver=7701b0c...	200	imspex.com	3.77KB	328ms				
frontend.min.js?ver=3.19.3	200	imspex.com	6.71KB	329ms				
elements-handlers.min.js...	200	imspex.com	9.22KB	330ms				
jquery.sticky.min.js?ver=...	200	imspex.com	1.67KB	330ms				
frontend.min.js?ver=2.10.10	200	imspex.com	10.2KB	332ms				
tooltipster.min.js?ver=2.1...	200	imspex.com	9.9KB	333ms				
61abfd68d6.js?ver=3.19.3	200	kit.fontawesome.com	4.64KB	359ms				
thw-power-of-chemistry-c...	200	imspex.com	138KB	67ms				
memvYaGs126MiZpBA-U...	200	fonts.gstatic.com	47.1KB	192ms				
our-group.jpg	200	imspex.com	177KB	10ms				
suppliers.jpg	200	imspex.com	118KB	11ms				
contact.jpg	200	imspex.com	93.0KB	12ms				
pro.min.css?token=61abf...	200	ka-p.fontawesome.com	52.9KB	680ms				
pro-v4-shims.min.css?to...	200	ka-p.fontawesome.com	4.10KB	189ms				
pro-v4-font-face.min.css?...	200	ka-p.fontawesome.com	2.54KB	182ms				
kit-upload.css	200	kit.fontawesome.com	386B	55ms				
wp-emoji-release.min.js?...	200	imspex.com	5.08KB	22ms				
POST admin-ajax.php	200	imspex.com	1.93KB	1.6s				
nav-menu.d43af66e500f...	200	imspex.com	1.81KB	6ms				
text-editor.2c35aafbe5bf0...	200	imspex.com	836B	7ms				
load-more.3ae4d5ec5d7fe...	200	imspex.com	1.67KB	9ms				
posts.caaf3e27e57db8207...	200	imspex.com	1.40KB	9ms				
memtYaGs126MiZpBA-UF...	200	fonts.gstatic.com	49.1KB	47ms				
eicons.woff2?5.29.0	200	imspex.com	94.7KB	42ms				
favicon-150x150.png	200	imspex.com	3.43KB	9ms				
pro-fa-brands-400-5.8.1.w...	200	ka-p.fontawesome.com	916B	448ms				
pro-fa-regular-400-5.10.2....	200	ka-p.fontawesome.com	15.9KB	579ms				
pro-fa-solid-900-5.10.2.wo...	200	ka-p.fontawesome.com	13.0KB	157ms				
pro-fa-light-300-5.0.0.woff2	200	ka-p.fontawesome.com	24.2KB	541ms				
pro-fa-brands-400-5.0.0.w...	200	ka-p.fontawesome.com	36.9KB	240ms				
api.js?hl=en_GB&onload...	200	google.com	1.16KB	51ms				
recaptcha__en_gb.js	200	gstatic.com	194KB	62ms				

93 Requests 1.59MB (4.55MB Uncompressed) Fully Loaded 4.5s (Onload 3.1s)



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>695ms</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>Longer than recommended</p> <p>3.5s</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>Good - Nothing to do here</p> <p>1.1s</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>47ms</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>695ms</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>0.01</p>

Browser Timings

Redirect	0ms	Connect	99ms	Backend	4ms
TTFB	103ms	First Paint	696ms	DOM Int.	2.7s
DOM Loaded	2.7s	Onload	3.1s	Fully Loaded	4.5s

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
https://www.imspeX.com/	384ms	140ms
https://www.imspeX.com/wp-content/plugins/wp-smush-pro/app/assets/js/smush-lazy-load_min.js?ver=3.16.0	3.4s	85ms
https://www.imspeX.com/	667ms	84ms
https://www.imspeX.com/	156ms	55ms
https://www.imspeX.com/wp-content/plugins/wp-smush-pro/app/assets/js/smush-lazy-load_min.js?ver=3.16.0	2.5s	53ms
https://www.imspeX.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1	2.8s	52ms

Low

Avoid enormous network payloads LCP

Total size was 1.59MB

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

URL	TRANSFER SIZE
https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha_en_gb.js	195KB
https://www.imspeX.com/wp-content/uploads/sites/46/our-group.jpg	177KB
https://www.imspeX.com/wp-content/uploads/sites/46/thw-power-of-chemistry-combined-with-data-analytics-at-your-fingertips.jpg	138KB
https://www.imspeX.com/wp-content/uploads/sites/46/suppliers.jpg	118KB
https://www.imspeX.com/wp-content/plugins/elementor/assets/lib/eicons/fonts/eicons.woff2?5.29.0	94.9KB
https://www.imspeX.com/wp-content/uploads/sites/46/contact.jpg	93.3KB
https://www.imspeX.com/wp-content/plugins/forminator/build/front/front_multi.min.js?ver=1.29.2	78.4KB
https://www.imspeX.com/wp-content/plugins/ultimate-elementor/assets/min-css/uael-frontend.min.css?ver=1.36.29	67.8KB
https://ka-p.fontawesome.com/releases/v5.15.4/css/pro.min.css?token=61abfd68d6	53.1KB
https://fonts.gstatic.com/s/opensans/v40/mem1YaGs126MiZpBA-UFUlcVXSCEkx2cmqvXIWqWuU6F.woff2	49.3KB

Low

Ensure text remains visible during webfont load FCP LCP

3 fonts found

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

URL	POTENTIAL SAVINGS
https://fonts.gstatic.com/s/opensans/v40/memvYaGs126MiZpBA-UvWbX2vVnXBbObj2QVTS-muw.woff2	68ms
https://fonts.gstatic.com/s/opensans/v40/mem1YaGs126MiZpBA-UFUlcVXSCEkx2cmqvXIWqWuU6F.woff2	10ms
https://www.imspeX.com/wp-content/plugins/elementor/assets/lib/eicons/fonts/eicons.woff2?5.29.0	13ms

Low

Reduce JavaScript execution time TBT

443ms 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://www.imspe.com/	713ms	95ms	4ms
• Unattributable	373ms	1ms	0ms
• https://www.imspe.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1	255ms	220ms	1ms
• https://www.imspe.com/wp-content/plugins/wp-smush-pro/app/assets/js/smush-lazy-load.min.js?ver=3.16.0	152ms	50ms	0ms
• https://www.imspe.com/wp-content/plugins/forminator/build/front/front.multi.min.js?ver=1.29.2	70ms	38ms	30ms

Low **Reduce unused CSS** FCP LCP Potential savings of 194KB

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
• <code>/*! * Font Awesome Pro 5.15.4 by @fontawesome - https://fontawesome.com * License - https://fonta...</code>	73.9KB	73.7KB
• https://www.imspe.com/wp-content/plugins/ultimate-elementor/assets/min-css/uafel-frontend.min.css?ver=1.36.29	67.8KB	67.8KB
• https://www.imspe.com/wp-content/plugins/powerpack-elements/assets/css/min/frontend.min.css?ver=2.10.10	39.7KB	39.7KB
• https://www.imspe.com/wp-content/plugins/elementor/assets/css/frontend-lite.min.css?ver=3.19.4	13.7KB	13.1KB

Low **Serve images in next-gen formats** Potential savings of 245KB

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://www.imspe.com/wp-content/uploads/sites/46/our-group.jpg	177KB	84.7KB
https://www.imspe.com/wp-content/uploads/sites/46/suppliers.jpg	118KB	58.4KB
https://www.imspe.com/wp-content/uploads/sites/46/thw-power-of-chemistry-combined-with-data-analytics-at-your-fingertips.jpg	138KB	56.8KB
https://www.imspe.com/wp-content/uploads/sites/46/contact.jpg	93.0KB	45.3KB

Low **Defer offscreen images** Potential savings of 211KB

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://www.imspe.com/wp-content/uploads/sites/46/suppliers.jpg	118KB	118KB
https://www.imspe.com/wp-content/uploads/sites/46/contact.jpg	93.0KB	93.0KB

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

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

ELEMENT	NAME
HOME ABOUT TECHNOLOGY PRODUCTS NEWS CONTACT <pre><section class="elementor-section elementor-top-section elementor-element elementor-elemen..." data-id="40eb6ce8" data-element_type="section" data-settings="{&quot;transparent&quot;:&quot;yes&quot;, &quot;transparent_header_show&quot;:&quot;yes&quot;, &quot;backgro und_show&quot;:&quot;ye..." style="position: fixed; width: 1366px; margin-top: 0px; margin-bottom: 0px;"></pre>	z-index
Unsupported CSS Property: z-index	ex

Low

Minify JavaScript FCP LCP

Potential savings of 23.4KB

Minifying JavaScript files can reduce payload sizes and script parse time.

URL	TRANSFER SIZE	POTENTIAL SAVINGS
<ul style="list-style-type: none"> https://www.imspe.com/wp-content/plugins/forminator/build/front/front.multi.min.js?ver=1.29.2 	78.4KB	23.4KB

Low

Reduce unused JavaScript LCP

Potential savings of 205KB

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

URL	TRANSFER SIZE	POTENTIAL SAVINGS
https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha_en_gb.js	195KB	154KB
https://www.imspe.com/wp-content/plugins/forminator/build/front/front.multi.min.js?ver=1.29.2	78.4KB	50.9KB

N/A

Largest Contentful Paint element LCP

700 ms

This is the largest contentful element painted within the viewport.

ELEMENT

```
div.elementor-widget-wrap > div.elementor-element > div.elementor-widget-container > img.attachment-large

```

PHASE	% OF LCP	TIMING
TTFB	15%	102ms
Load Delay	4%	27ms
Load Time	5%	38ms
Render Delay	76%	527ms

N/A

Reduce initial server response time FCP LCP

Root document took 3ms

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

URL	TIME SPENT
<ul style="list-style-type: none"> https://www.imspe.com/ 	3ms

N/A

Avoid serving legacy JavaScript to modern browsers TBT

Potential savings of 381B

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://www.imspe.com/wp-content/plugins/forminator/build/front/front.multi.min.js?ver=1.29.2 Line:19 Column:113	111B
https://www.imspe.com/wp-content/plugins/forminator/assets/js/library/libphonenumber.min.js?ver=1.29.2 Line:0 Column:84447	89B
https://www.imspe.com/wp-content/plugins/forminator/assets/js/library/intlTelInput.min.js?ver=1.29.2 Line:6 Column:260	64B
https://www.imspe.com/wp-content/plugins/essential-addons-for-elementor-lite/assets/front-end/js/view/general.min.js?ver=5.9.10 Line:0 Column:3775	63B
https://www.imspe.com/wp-includes/js/dist/vendor/wp-polyfill-inert.min.js?ver=3.1.2 Line:0 Column:452	54B

N/A

Avoid large layout shifts CLS

2 elements found

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

ELEMENT

CLS
CONTRIBUTION

The power of chemistry combined with data analysis. At your fingertips. PIONEER...

```
<section class="elementor-section elementor-inner-section elementor-element elementor-elem..." data-id="72bf6879" data-element_type="section">
```

0.01

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```
<ul id="menu-1-254cc3a6" class="elementor-nav-menu" data-smartmenus-id="17102559026018044">
```

0.00

N/A

Minimize main-thread work TBT

Main-thread busy for 1.8s

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

CATEGORY

TIME SPENT

Other

595ms

Script Evaluation

577ms

Style & Layout

461ms

Parse HTML & CSS

70ms

Script Parsing & Compilation

69ms

Rendering

59ms

N/A

Reduce the impact of third-party code TBT

Total size was 453KB

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 CDN	195KB	0ms
<ul style="list-style-type: none">https://www.gstatic.com/recaptcha/releases/QquE1_MNjnFHgZF4HPsEcf_2/recaptcha__en_gb.js	195KB	0ms
FONTAWESOME CDN	156KB	0ms
<ul style="list-style-type: none">https://ka-p.fontawesome.com/releases/v5.15.4/css/pro.min.css?token=61abfd68d6https://ka-p.fontawesome.com/releases/v5.15.4/webfonts/pro-fa-brands-400-5.0.0.woff2https://ka-p.fontawesome.com/releases/v5.15.4/webfonts/pro-fa-light-300-5.0.0.woff2https://ka-p.fontawesome.com/releases/v5.15.4/webfonts/pro-fa-regular-400-5.10.2.woff2https://ka-p.fontawesome.com/releases/v5.15.4/webfonts/pro-fa-solid-900-5.10.2.woff2Other resources	53.1KB 37.0KB 24.3KB 16.0KB 13.1KB 13.0KB	0ms 0ms 0ms 0ms 0ms 0ms
GOOGLE FONTS	100KB	0ms
<ul style="list-style-type: none">https://fonts.gstatic.com/s/opensans/v40/mem1YaGs126MiZpBA-UFUlcVXSCEkx2cmqvXIWqWuU6E.woff2https://fonts.gstatic.com/s/opensans/v40/memvYaGs126MiZpBA-UvWbX2vVnXBbObj2OVTS-muw.woff2	49.3KB 47.6KB	0ms 0ms
OTHER GOOGLE APIS/SDKS	1.16KB	0ms
ACTIV.LTD	578B	0ms

N/A

User Timing marks and measures

No user timings and/or marks found.