Performance Report for:

https://www.reneuron.com/

Report generated: Wed, Mar 13, 2024 1:22 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%	98%	787ms	0ms	0

Top Issues

Med	**Use explicit width and height on image elements** CLS	5 images found
Low	**Avoid an excessive DOM size** TBT	330 elements
Low	**Avoid enormous network payloads** LCP	Total size was 807KB
Low	**Properly size images**	Potential savings of 274KB
Low	**Serve static assets with an efficient cache policy**	Potential savings of 20B

Page Details

881ms
Fully Loaded Time

Total Page Size - 802KB

Total Page Requests - 34

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

CARBON 60
THE MANAGED CLOUD COMPANY

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

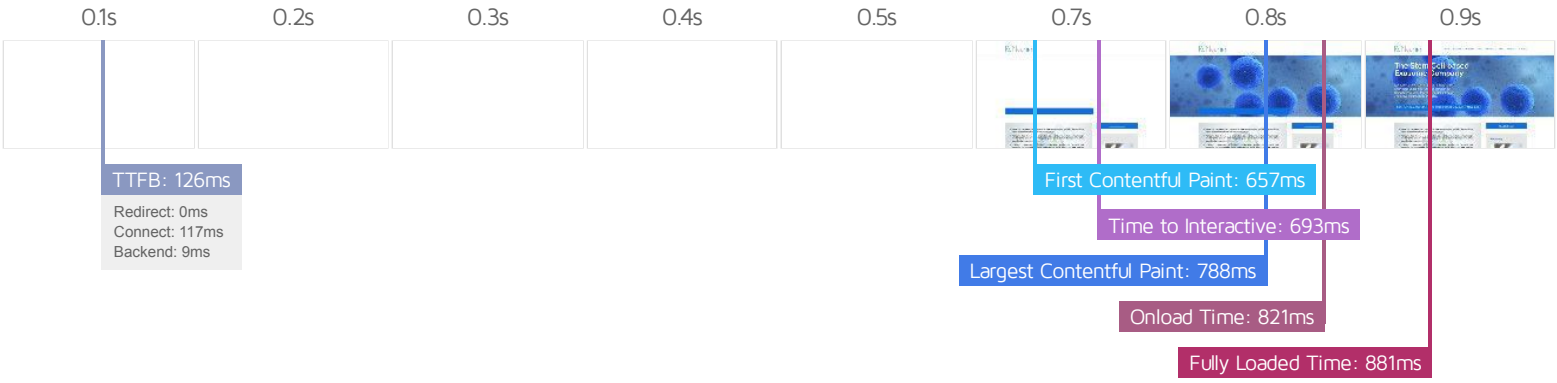
https://carbon60.com/

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 - ReNeuron

/	200	reneuron.com	10.3KB	128ms
style.min.css?ver=6.4.3	200	reneuron.com	14.6KB	27ms
rsmaps.css?ver=2.24	200	reneuron.com	442B	24ms
style.css?ver=1.5	200	reneuron.com	19.1KB	38ms
jquery.min.js?ver=6.4.3	200	ajax.googleapis.com	32.2KB	55ms
skel.min.js?ver=1.2	200	reneuron.com	13.2KB	17ms
bdb0iyb.js	200	use.typekit.net	6.82KB	358ms
reneuron-logo-2x.png	200	reneuron.com	4.32KB	120ms
Home1-1-1024x576.jpg	200	reneuron.com	95.9KB	130ms
patents.jpg	200	reneuron.com	38.8KB	138ms
Exosomes5-1024x576.jpg	200	reneuron.com	94.6KB	147ms
ctx-cells-critical-limb-isch…	200	reneuron.com	50.6KB	159ms
investor-centre-banner-i…	200	reneuron.com	42.1KB	172ms
combine-vendor-function…	200	reneuron.com	49.3KB	87ms
new-tab.js?ver=3.3.6	200	reneuron.com	9.11KB	107ms
stem-cells.jpg	200	reneuron.com	65.3KB	10ms
l?subset_id=2&fvd=n4&v=3	200	use.typekit.net	16.7KB	91ms
l?subset_id=2&fvd=n7&v=3	200	use.typekit.net	16.6KB	94ms
l?subset_id=2&fvd=n4&v=3	200	use.typekit.net	17.5KB	91ms
l?subset_id=2&fvd=n3&v=3	200	use.typekit.net	17.0KB	93ms
general.woff	200	reneuron.com	4.43KB	81ms
wp-emoji-release.min.js?…	200	reneuron.com	5.04KB	12ms
l?subset_id=2&fvd=i7&v=3	200	use.typekit.net	18.0KB	52ms
l?subset_id=2&fvd=i4&v=3	200	use.typekit.net	18.1KB	68ms
l?subset_id=2&fvd=i3&v=3	200	use.typekit.net	18.2KB	51ms
l?subset_id=2&fvd=n7&v=3	200	use.typekit.net	17.4KB	42ms
l?subset_id=2&fvd=i7&v=3	200	use.typekit.net	17.6KB	44ms
l?subset_id=2&fvd=i4&v=3	200	use.typekit.net	17.8KB	43ms
l?subset_id=2&fvd=n3&v=3	200	use.typekit.net	17.4KB	50ms
l?subset_id=2&fvd=i3&v=3	200	use.typekit.net	17.7KB	58ms
l?subset_id=2&fvd=n6&v=3	200	use.typekit.net	17.5KB	44ms
l?subset_id=2&fvd=i6&v=3	200	use.typekit.net	17.7KB	63ms
p.gif?s=1&k=bdb0iyb&ht…	200	p.typekit.net	35B	50ms
favicon.ico	200	reneuron.com	191B	7ms

34 Requests **802KB (1.23MB Uncompressed)** **Fully Loaded 881ms (Onload 821ms)**



Performance Metrics

First Contentful Paint

Good - Nothing to do here

How quickly content like text or images are painted onto your page. A good user experience is 0.9s or less.

656ms

Time to Interactive

Good - Nothing to do here

How long it takes for your page to become fully interactive. A good user experience is 2.5s or less.

692ms

Speed Index

Good - Nothing to do here

How quickly the contents of your page are visibly populated. A good user experience is 1.3s or less.

742ms

Total Blocking Time

Good - Nothing to do here

How much time is blocked by scripts during your page loading process. A good user experience is 150ms or less.

0ms

Largest Contentful Paint

Good - Nothing to do here

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.

787ms

Cumulative Layout Shift

Good - Nothing to do here

How much your page's layout shifts as it loads. A good user experience is a score of 0.1 or less.

0

Browser Timings

Redirect	0ms	Connect	117ms	Backend	9ms
TTFB	126ms	DOM Int.	600ms	First Paint	657ms
DOM Loaded	688ms	Onload	821ms	Fully Loaded	881ms

IMPACT	AUDIT	
Low	**Ensure text remains visible during webfont load** FCP LCP	15 fonts found

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

URL	POTENTIAL SAVINGS
https://use.typekit.net/af/477d8d/00000000000000000000158d7/23/l?subset_id=2&fvd=n4&v=3	24ms
https://use.typekit.net/af/399a91/00000000000000000000158cf/23/l?subset_id=2&fvd=n7&v=3	28ms
https://use.typekit.net/af/9bffeb/00000000000000000000151e0/23/l?subset_id=2&fvd=n4&v=3	25ms
https://use.typekit.net/af/3693ba/00000000000000000000158d9/23/l?subset_id=2&fvd=n3&v=3	26ms
https://www.reneuron.com/wp-content/themes/reneuron/_/fonts/icons/general.woff	15ms
https://use.typekit.net/af/f61233/00000000000000000000158d0/23/l?subset_id=2&fvd=i7&v=3	17ms
https://use.typekit.net/af/8adb93/00000000000000000000158d8/23/l?subset_id=2&fvd=i4&v=3	34ms
https://use.typekit.net/af/9c140d/00000000000000000000158da/23/l?subset_id=2&fvd=i3&v=3	18ms
https://use.typekit.net/af/b8c4e8/00000000000000000000151db/23/l?subset_id=2&fvd=n7&v=3	9ms
https://use.typekit.net/af/8df503/00000000000000000000151dc/23/l?subset_id=2&fvd=i7&v=3	11ms
https://use.typekit.net/af/71ee78/00000000000000000000151dd/23/l?subset_id=2&fvd=i4&v=3	10ms
https://use.typekit.net/af/fd3cf2/00000000000000000000151de/23/l?subset_id=2&fvd=n3&v=3	17ms
https://use.typekit.net/af/04be33/00000000000000000000151df/23/l?subset_id=2&fvd=i3&v=3	26ms
https://use.typekit.net/af/5e21d4/00000000000000000000151e1/23/l?subset_id=2&fvd=n6&v=3	12ms
https://use.typekit.net/af/f47347/00000000000000000000151e2/23/l?subset_id=2&fvd=i6&v=3	32ms

Low	**Avoid long main-thread tasks** TBT	2 long tasks found

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

URL	START TIME	DURATION
https://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js?ver=6.4.3	600ms	92ms
https://www.reneuron.com/	518ms	66ms

Low	**Reduce unused CSS** FCP LCP	Potential savings of 32.5KB

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://www.reneuron.com/wp-content/themes/reneuron/style.css?ver=1.5	19.1KB	17.9KB
https://www.reneuron.com/wp-includes/css/dist/block-library/style.min.css?ver=6.4.3	14.6KB	14.6KB

Low	**Serve images in next-gen formats**	Potential savings of 171KB

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.reneuron.com/wp-content/uploads/Home1-1-1024x576.jpg	95.9KB	37.0KB
https://www.reneuron.com/wp-content/uploads/Exosomes5-1024x576.jpg	94.6KB	36.2KB
https://www.reneuron.com/wp-content/uploads/stem-cells.jpg	65.3KB	29.8KB
https://www.reneuron.com/wp-content/uploads/ctx-cells-critical-limb-ischaemia.jpg	50.6KB	26.9KB
https://www.reneuron.com/wp-content/uploads/investor-centre-banner-image.jpg	42.1KB	20.6KB
https://www.reneuron.com/wp-content/uploads/patents.jpg	38.8KB	20.3KB

Low **Avoid chaining critical requests** FCP LCP — 22 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: **749ms**

INITIAL NAVIGATION

- https://www.reneuron.com/ 10.3KB, 126ms
  - https://www.reneuron.com/wp-content/plugins/responsive-maps-plugin/includes/css/rsmaps.css?ver=2.24 442B, 18ms
  - https://use.typekit.net/af/8df503/00000000000000000000151dc/23/l?subset_id=2&fvd=i7&v=3 17.8KB, 11ms
  - https://www.reneuron.com/wp-content/themes/reneuron/_/js/min/combine-vendor-functions.min.js?ver=1.3 49.3KB, 23ms
  - https://use.typekit.net/af/f47347/00000000000000000000151e2/23/l?subset_id=2&fvd=i6&v=3 17.9KB, 32ms
  - https://use.typekit.net/af/04be33/00000000000000000000151df/23/l?subset_id=2&fvd=i3&v=3 17.9KB, 26ms
  - https://use.typekit.net/af/71ee78/00000000000000000000151dd/23/l?subset_id=2&fvd=i4&v=3 18.0KB, 10ms
  - https://www.reneuron.com/wp-content/themes/reneuron/_/js/min/skel.min.js?ver=1.2 13.2KB, 11ms
  - https://use.typekit.net/af/f61233/00000000000000000000158d0/23/l?subset_id=2&fvd=i7&v=3 18.2KB, 17ms
  - https://use.typekit.net/af/9c140d/00000000000000000000158da/23/l?subset_id=2&fvd=i3&v=3 18.4KB, 18ms
  - https://use.typekit.net/af/8adb93/00000000000000000000158d8/23/l?subset_id=2&fvd=i4&v=3 18.3KB, 34ms
  - https://use.typekit.net/af/fd3cf2/00000000000000000000151de/23/l?subset_id=2&fvd=n3&v=3 17.6KB, 17ms
  - https://use.typekit.net/af/399a91/00000000000000000000158cf/23/l?subset_id=2&fvd=n7&v=3 16.8KB, 28ms
  - https://www.reneuron.com/wp-content/plugins/page-links-to/dist/new-tab.js?ver=3.3.6 9.11KB, 8ms
  - https://use.typekit.net/bdb0iyb.js 7.05KB, 352ms
  - https://use.typekit.net/af/9bffeb/00000000000000000000151e0/23/l?subset_id=2&fvd=n4&v=3 17.7KB, 25ms
  - https://use.typekit.net/af/477d8d/00000000000000000000158d7/23/l?subset_id=2&fvd=n4&v=3 16.8KB, 24ms
  - https://use.typekit.net/af/b8c4e8/00000000000000000000151db/23/l?subset_id=2&fvd=n7&v=3 17.6KB, 9ms
  - https://use.typekit.net/af/5e21d4/00000000000000000000151e1/23/l?subset_id=2&fvd=n6&v=3 17.7KB, 12ms
  - https://use.typekit.net/af/3693ba/00000000000000000000158d9/23/l?subset_id=2&fvd=n3&v=3 17.2KB, 26ms
  - https://www.reneuron.com/wp-includes/css/dist/block-library/style.min.css?ver=6.4.3 14.6KB, 20ms
  - https://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js?ver=6.4.3 32.9KB, 49ms
  - https://www.reneuron.com/wp-content/themes/reneuron/style.css?ver=1.5 19.1KB, 32ms
    - https://www.reneuron.com/wp-content/themes/reneuron/_/fonts/icons/general.woff 4.64KB, 15ms

Low **Reduce unused JavaScript** LCP — Potential savings of 37.7KB

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.reneuron.com/wp-content/themes/reneuron/_/js/min/combine-vendor-functions.min.js?ver=1.3	49.3KB	37.7KB
…vendor.js	47.6KB	37.1KB
…functions.js	1.43KB	525B

N/A **Largest Contentful Paint element** LCP — 790 ms

This is the largest contentful element painted within the viewport.

ELEMENT

The Stem Cell-based Exosome Company ReNeuron is developing the next generation…

```
<div class="banner-home" style="background-image: url(&quot;https://www.reneuron.com/wp-content/uploads/stem-ce…
&quot;);">
```

PHASE	% OF LCP	TIMING
TTFB	16%	127ms
Load Delay	51%	400ms
Load Time	1%	8ms
Render Delay	32%	251ms

N/A **Eliminate render-blocking resources** FCP LCP — Potential savings of 10ms

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://www.reneuron.com/wp-includes/css/dist/block-library/style.min.css?ver=6.4.3	14.6KB	302ms
https://www.reneuron.com/wp-content/themes/reneuron/style.css?ver=1.5	19.1KB	302ms
https://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js?ver=6.4.3	32.9KB	1.1s
https://www.reneuron.com/wp-content/themes/reneuron/_/js/min/skel.min.js?ver=1.2	13.2KB	151ms
https://use.typekit.net/bdb0iyb.js	7.05KB	150ms

N/A **Reduce JavaScript execution time** TBT — 96ms 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
Unattributable	134ms	35ms	0ms
https://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js?ver=6.4.3	126ms	45ms	1ms
https://www.reneuron.com/	119ms	11ms	1ms

N/A **Reduce initial server response time** FCP LCP — Root document took 9ms

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

URL	TIME SPENT
• https://www.reneuron.com/	9ms

N/A **Avoid large layout shifts** CLS — 4 elements found

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

ELEMENT	CLS CONTRIBUTION
The Stem Cell-based Exosome Company `<h1>`	0.00
ReNeuron is developing the next generation of engineered Exosomes. Utilising o… `<h2>`	0.00
Home About Us Exosomes iPSC Partnering News Investors Contact `<nav id="nav">`	0.00
Click here to access the presentation at Cell 2023 on 8 November `<a href="https://www.reneuron.com/investors/presentations/" class="button arrow">`	0.00

N/A **Minimize main-thread work** TBT — Main-thread busy for 445ms

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

CATEGORY	TIME SPENT
Style & Layout	146ms
Script Evaluation	144ms
Other	126ms
Parse HTML & CSS	14ms
Script Parsing & Compilation	7ms
Rendering	7ms

N/A **Reduce the impact of third-party code** TBT — Total size was 288KB

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
ADOBE TYPEKIT	255KB	0ms
• https://use.typekit.net/af/9c140d/00000000000000000000158da/23/l?subset_id=2&fvd=i3&v=3	18.4KB	0ms
• https://use.typekit.net/af/8adb93/00000000000000000000158d8/23/l?subset_id=2&fvd=i4&v=3	18.3KB	0ms
• https://use.typekit.net/af/f61233/00000000000000000000158d0/23/l?subset_id=2&fvd=i7&v=3	18.2KB	0ms
• https://use.typekit.net/af/71ee78/00000000000000000000151dd/23/l?subset_id=2&fvd=i4&v=3	18.0KB	0ms
• https://use.typekit.net/af/f47347/00000000000000000000151e2/23/l?subset_id=2&fvd=i6&v=3	17.9KB	0ms
• Other resources	164KB	0ms
GOOGLE CDN	32.9KB	0ms
• https://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js?ver=6.4.3	32.9KB	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.