Performance Report for:
https://microbiotica.com/

Report generated: Wed, Mar 13, 2024 10:19 PM -0700
Test Server Location: 🇬🇧 London, UK
Using: Chrome 117.0.0.0, Lighthouse 11.0.0

A	Performance **86%**	Structure **95%**	L. Contentful Paint **1.7s**	T. Blocking Time **0ms**	C. Layout Shift **0.03**

Top Issues

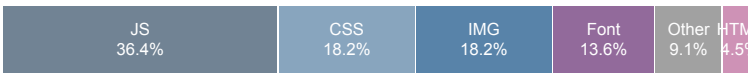| Med-Low	**Eliminate render-blocking resources** FCP LCP	Potential savings of 285ms
Med-Low	**Serve static assets with an efficient cache policy**	Potential savings of 174KB
Med-Low	**Use a Content Delivery Network (CDN)**	12 resources found
Low	**Ensure text remains visible during webfont load** FCP LCP	3 fonts found
Low	**Avoid chaining critical requests** FCP LCP	10 chains found

Page Details

2.0s
Fully Loaded Time

Total Page Size - 635KB

JS 262KB	IMG 148KB	CSS 112KB	Font 91.5KB	

Total Page Requests - 22

JS 36.4%	CSS 18.2%	IMG 18.2%	Font 13.6%	Other 9.1%	HTML 4.5%

- 🟣 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.**
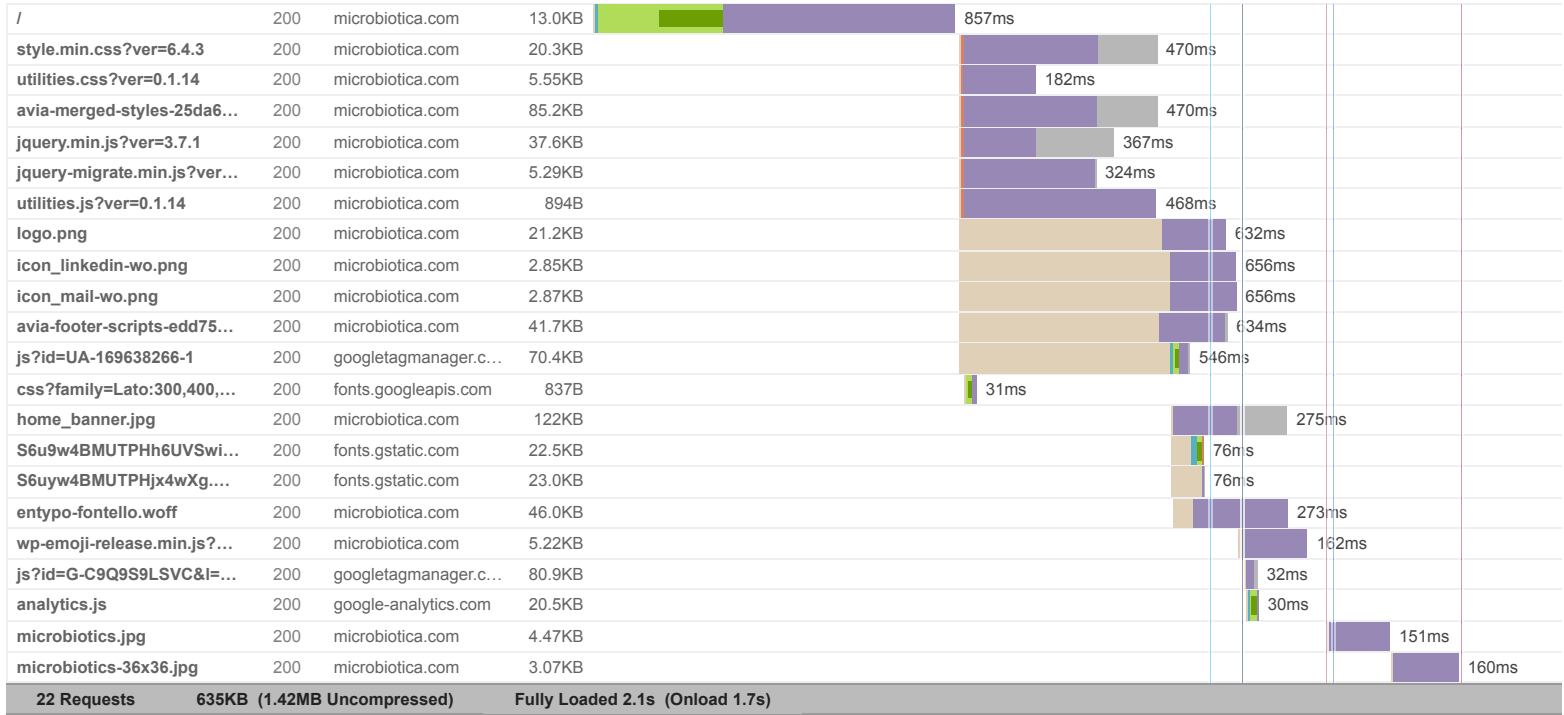
About GTmetrix

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/

GTmetrix

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.

Microbiotica – Transforming personalised medicine with leading microbiome science

/	200	microbiotica.com	13.0KB	857ms
style.min.css?ver=6.4.3	200	microbiotica.com	20.3KB	470ms
utilities.css?ver=0.1.14	200	microbiotica.com	5.55KB	182ms
avia-merged-styles-25da6…	200	microbiotica.com	85.2KB	470ms
jquery.min.js?ver=3.7.1	200	microbiotica.com	37.6KB	367ms
jquery-migrate.min.js?ver…	200	microbiotica.com	5.29KB	324ms
utilities.js?ver=0.1.14	200	microbiotica.com	894B	468ms
logo.png	200	microbiotica.com	21.2KB	632ms
icon_linkedin-wo.png	200	microbiotica.com	2.85KB	656ms
icon_mail-wo.png	200	microbiotica.com	2.87KB	656ms
avia-footer-scripts-edd75…	200	microbiotica.com	41.7KB	634ms
js?id=UA-169638266-1	200	googletagmanager.c…	70.4KB	546ms
css?family=Lato:300,400,…	200	fonts.googleapis.com	837B	31ms
home_banner.jpg	200	microbiotica.com	122KB	275ms
S6u9w4BMUTPHh6UVSwi…	200	fonts.gstatic.com	22.5KB	76ms
S6uyw4BMUTPHjx4wXg…	200	fonts.gstatic.com	23.0KB	76ms
entypo-fontello.woff	200	microbiotica.com	46.0KB	273ms
wp-emoji-release.min.js?…	200	microbiotica.com	5.22KB	162ms
js?id=G-C9Q9S9LSVC&I=…	200	googletagmanager.c…	80.9KB	32ms
analytics.js	200	google-analytics.com	20.5KB	30ms
microbiotics.jpg	200	microbiotica.com	4.47KB	151ms
microbiotics-36x36.jpg	200	microbiotica.com	3.07KB	160ms

22 Requests   635KB (1.42MB Uncompressed)   Fully Loaded 2.1s (Onload 1.7s)

0.3s	0.5s	0.8s	1s	1.3s	1.5s	1.8s	2s

TTFB: 856ms
Redirect: 0ms
Connect: 308ms
Backend: 548ms

First Contentful Paint: 1.5s

Time to Interactive: 1.5s

Onload Time: 1.7s

Largest Contentful Paint: 1.7s

Fully Loaded Time: 2.0s

Performance Metrics

First Contentful Paint

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

Longer than recommended

1.5s

Time to Interactive

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

Good - Nothing to do here

1.5s

Speed Index

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

OK, but consider improvement

1.7s

Total Blocking Time

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

Good - Nothing to do here

0ms

Largest Contentful Paint

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.

Longer than recommended

1.7s

Cumulative Layout Shift

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

Good - Nothing to do here

0.03

Browser Timings

Redirect	0ms	Connect	308ms	Backend	548ms
TTFB	856ms	First Paint	1.5s	DOM Int.	1.5s
DOM Loaded	1.5s	Onload	1.7s	Fully Loaded	2.0s

IMPACT   AUDIT

Low	**Avoid enormous network payloads** LCP	Total size was 637KB

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

URL	TRANSFER SIZE
• https://microbiotica.com/wp-content/uploads/2020/05/home_banner.jpg	122KB
• https://microbiotica.com/wp-content/uploads/dynamic_avia/avia-merged-styles-25da6050810e14dece26c14f6004f6bb.css	85.2KB
• https://www.googletagmanager.com/gtag/js?id=G-C9Q9S9LSVC&l=dataLayer&cx=c	81.0KB
• https://www.googletagmanager.com/gtag/js?id=UA-169638266-1	70.8KB
• https://microbiotica.com/wp-content/themes/enfold/config-templatebuilder/avia-template-builder/assets/fonts/entypo-fontello.woff	46.1KB
• https://microbiotica.com/wp-content/uploads/dynamic_avia/avia-footer-scripts-edd753a8b966874fcb48fdac306c43e1.js	41.7KB
• https://microbiotica.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1	37.6KB
• https://fonts.gstatic.com/s/lato/v24/S6uyw4BMUTPHjx4wXg.woff2	23.2KB
• https://fonts.gstatic.com/s/lato/v24/S6u9w4BMUTPHh6UVSwiPGQ.woff2	23.0KB
• https://microbiotica.com/wp-content/uploads/2020/05/logo.png	21.2KB

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://microbiotica.com/	1.4s	53ms

Low	**Reduce unused CSS** FCP LCP	Potential savings of 96.6KB

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://microbiotica.com/wp-content/uploads/dynamic_avia/avia-merged-styles-25da6050810e14dece26c14f6004f6bb.css	85.2KB	76.3KB
• https://microbiotica.com/wp-includes/css/dist/block-library/style.min.css?ver=6.4.3	20.3KB	20.3KB

Low	**Serve images in next-gen formats**	Potential savings of 73.6KB

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://microbiotica.com/wp-content/uploads/2020/05/home_banner.jpg	122KB	55.5KB
https://microbiotica.com/wp-content/uploads/2020/05/logo.png	21.2KB	18.1KB

Low	**Reduce initial server response time** FCP LCP	Root document took 547ms

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

URL	TIME SPENT
• https://microbiotica.com/	547ms

Low	**Reduce unused JavaScript** LCP	Potential savings of 99KB

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.googletagmanager.com/gtag/js?id=G-C9Q9S9LSVC&l=dataLayer&cx=c	81.0KB	39.4KB
https://www.googletagmanager.com/gtag/js?id=UA-169638266-1	70.8KB	31.9KB
https://microbiotica.com/wp-content/uploads/dynamic_avia/avia-footer-scripts-edd753a8b966874fcb48fdac306c43e1.js	41.7KB	27.7KB

N/A	**Avoid an excessive DOM size** TBT	235 elements

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

STATISTIC	ELEMENT	VALUE
Total DOM Elements		235
Maximum DOM Depth	a > span.avia-menu-fx > span.avia-arrow-wrap > span.avia-arrow `<span class="avia-arrow">`	14
Maximum Child Elements	body#top `<body id="top" class="home page-template-default page page-id-2 rtl_columns stretched lato" itemscope="itemscope" itemtype="https://schema.org/WebPage" style="">`	8

N/A	**Largest Contentful Paint element** LCP	1,750 ms

This is the largest contentful element painted within the viewport.

ELEMENT

Translating Precision in Microbiome Science into Transformative Medicines and B…
`<div id="banner" class="avia-section main_color avia-section-default avia-no-border-styling avia-f…" style="background-repeat: no-repeat; background-image: url("https://microbiotica.c…");" data-section-bg-repeat="stretch" data-av_minimum_height_pc="75">`

PHASE	% OF LCP	TIMING
TTFB	49%	856ms
Load Delay	29%	513ms
Load Time	16%	274ms
Render Delay	6%	103ms

N/A	**Reduce JavaScript execution time** TBT	74ms 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://microbiotica.com/	119ms	8ms	1ms
• https://microbiotica.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1	97ms	57ms	1ms
• Unattributable	53ms	6ms	0ms

N/A	**Avoid large layout shifts** CLS	5 elements found

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

ELEMENT	CLS CONTRIBUTION
Initially built out of 10 years investment in the Wellcome Sanger Institute, Mi… `<div id="introduction" class="avia-section main_color avia-section-default avia-no-border-styling avia-b…" style=" ">`	0.03
Home About Platform Programs Partnering Media Centre `<div class="avia-menu av-main-nav-wrap">`	0.00
Contact Us `<li id="menu-item-279" class="menu-item menu-item-type-post_type menu-item-object-page menu-item-279">`	0.00
Careers `<li id="menu-item-280" class="menu-item menu-item-type-post_type menu-item-object-page menu-item-280">`	0.00
Careers Contact Us `<nav class="sub_menu" role="navigation" itemscope="itemscope" itemtype="https://schema.org/SiteNavigationElement">`	0.00

N/A	**Minimize main-thread work** TBT	Main-thread busy for 359ms

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	137ms
Style & Layout	100ms
Other	92ms
Parse HTML & CSS	13ms
Script Parsing & Compilation	10ms
Rendering	4ms

N/A	**Reduce the impact of third-party code** TBT	Total size was 220KB

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 TAG MANAGER	152KB	0ms
• https://www.googletagmanager.com/gtag/js?id=G-C9Q9S9LSVC&l=dataLayer&cx=c	81.0KB	0ms
• https://www.googletagmanager.com/gtag/js?id=UA-169638266-1	70.8KB	0ms
GOOGLE FONTS	47.0KB	0ms
• https://fonts.gstatic.com/s/lato/v24/S6uyw4BMUTPHjx4wXg.woff2	23.2KB	0ms
• https://fonts.gstatic.com/s/lato/v24/S6u9w4BMUTPHh6UVSwiPGQ.woff2	23.0KB	0ms
GOOGLE ANALYTICS	20.8KB	0ms
• https://www.google-analytics.com/analytics.js	20.8KB	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.