

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

Report generated: Wed, Mar 13, 2024 3:31 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
	85%	82%	630ms	336ms	0

Top Issues

Med	Use explicit width and height on image elements <small>CLS</small>	2 images found
Med	Serve static assets with an efficient cache policy	Potential savings of 1.34MB
Med-Low	Use a Content Delivery Network (CDN)	41 resources found
Med-Low	Lazy load third-party resources with facades <small>TBT</small>	1 facade alternative available
Med-Low	Avoid CSS @import <small>FCP LCP</small>	1 resource found

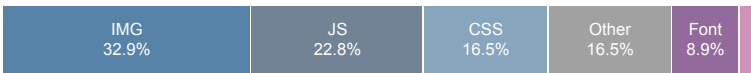
Page Details



Total Page Size - 2.75MB



Total Page Requests - 79



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.

Genomic Technology for Cell & Gene Therapies

Resource	Size	Source	Response Time
/	200	brokenstringbio.com	20.6KB
style.min.css?ver=6.4.3	200	brokenstringbio.com	2.55KB
style.min.css?ver=6.4.3	200	brokenstringbio.com	1.88KB
style.min.css?ver=6.4.3	200	brokenstringbio.com	2.00KB
style-70.css?ver=1659695...	200	brokenstringbio.com	3.21KB
forminator-icons.min.css...	200	brokenstringbio.com	1.30KB
forminator-utilities.min.cs...	200	brokenstringbio.com	730B
forminator-grid.open.min....	200	brokenstringbio.com	993B
buttons.min.css?ver=6.4.3	200	brokenstringbio.com	1.77KB
style.min.css?ver=6.4.3	200	brokenstringbio.com	1.76KB
style.css?ver=1.1.0	200	brokenstringbio.com	15.0KB
interactivity.min.js?ver=6....	200	brokenstringbio.com	12.1KB
view.min.js?ver=e3d6f321...	200	brokenstringbio.com	1.43KB
jquery.min.js?ver=3.7.1	200	brokenstringbio.com	30.0KB
jquery-migrate.min.js?ver...	200	brokenstringbio.com	5.10KB
jquery.validate.min.js?ver...	200	brokenstringbio.com	8.08KB
forminator-form.min.js?v...	200	brokenstringbio.com	4.19KB
front.multi.min.js?ver=1.2...	200	brokenstringbio.com	41.1KB
vsw4cjc.css	200	use.typekit.net	781B
logo-1.svg	200	brokenstringbio.com	2.99KB
bsb-header.jpg	200	brokenstringbio.com	569KB
merieux_bw-300x92.png	200	brokenstringbio.com	8.23KB
illumina-Ventures_bw-300...	200	brokenstringbio.com	6.64KB
University-of-Cambridge....	200	brokenstringbio.com	16.5KB
team-image-wide.jpg	(failed)	staging.brokenstring...	0
footer.js?ver=1.1.0	200	brokenstringbio.com	288KB
gtm.js?id=GTM-K3QGKMR	200	googletagmanager.c...	65.2KB
p.css?s=1&k=vsw4cjc&ht...	200	p.typekit.net	5B
!?primer=7cdcb44be4a7d...	200	use.typekit.net	35.2KB
!?primer=7cdcb44be4a7d...	200	use.typekit.net	18.6KB
!?primer=7cdcb44be4a7d...	200	use.typekit.net	18.7KB
circle-bars.svg	200	brokenstringbio.com	826B
arrow-right.svg	200	brokenstringbio.com	565B
circle-bars-w.svg	200	brokenstringbio.com	810B
!?primer=7cdcb44be4a7d...	200	use.typekit.net	35.8KB
!?primer=7cdcb44be4a7d...	200	use.typekit.net	39.8KB
heran_transparent_bw-30...	200	brokenstringbio.com	8.16KB
Time_partners_logo.png	200	brokenstringbio.com	12.0KB
Tencent.png	200	brokenstringbio.com	28.0KB
dvh_logo_2019_2c.png	200	brokenstringbio.com	61.1KB
first-in.png	200	brokenstringbio.com	53.4KB
illumina-accelerator.png	200	brokenstringbio.com	44.9KB
jwBF3TIdQRs?feature=oe...	200	youtube.com	37.9KB
www-player.css	200	youtube.com	46.8KB
embed.js	200	youtube.com	17.6KB
www-embed-player.js	200	youtube.com	95.2KB
base.js	200	youtube.com	779KB
KFOmCnqEu92Fr1Mu4mx...	200	fonts.gstatic.com	15.0KB
KFOICnqEu92Fr1MmEU9f...	200	fonts.gstatic.com	15.2KB
arrow-down-sm.svg	200	brokenstringbio.com	524B
arrow-down-lg.svg	200	brokenstringbio.com	519B
string-about.svg	200	brokenstringbio.com	10.3KB
string-investors.svg	200	brokenstringbio.com	21.5KB

string-technology.svg	200	brokenstringbio.com	10.5KB		24ms			
string-partners.svg	200	brokenstringbio.com	11.8KB		22ms			
string-team.svg	200	brokenstringbio.com	2.55KB		11ms			
string-news.svg	200	brokenstringbio.com	10.5KB		26ms			
string-footer.svg	200	brokenstringbio.com	21.7KB		26ms			
POST admin-ajax.php	200	brokenstringbio.com	2.54KB				1.9s	
cookieControl-9.x.min.js	200	cc.cdn.civiccomputin...	92.7KB		72ms			
v?d=www.brokenstringbi...	200	apikeys.civiccomputi...	524B		75ms			
id	302	googleads.g.doublec...	0		58ms			
id?sif_rd=1	302	googleads.g.doublec...	0		55ms			
ad_status.js	200	static.doubleclick.net	29B		50ms			
POST Create	200	jnn-pa.googleapis.com	40.7KB		114ms			
OPTIONS Create	200	jnn-pa.googleapis.com	0		81ms			
remote.js	200	youtube.com	33.1KB		20ms			
50kHZN3F3io59sl2rCNW...	200	google.com	19.7KB		61ms			
maxresdefault.webp	200	i.ytimg.com	41.1KB		66ms			
1-3ShoS0KSvNP3_3mAv...	200	yt3.ggpht.com	1.80KB		167ms			
id?sif_rd=1	200	googleads.g.doublec...	120B		23ms			
POST GenerateIT	200	jnn-pa.googleapis.com	134B		35ms			
OPTIONS GenerateIT	200	jnn-pa.googleapis.com	0		13ms			
cast_sender.js	200	gstatic.com	1.96KB		97ms			
generate_204?M-Uyxw	204	youtube.com	0		12ms			
cast_sender.js	200	gstatic.com	15.0KB		15ms			
site.webmanifest	200	brokenstringbio.com	709B		35ms			
logo-1.svg	200	brokenstringbio.com	0		5ms			
POST log_event?alt=json...	200	youtube.com	50B					20ms
79 Requests				2.75MB (10.6MB Uncompressed)	Fully Loaded 4.1s (Onload 2.7s)			



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>630ms</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>1.6s</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>Longer than recommended</p> <p>336ms</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>630ms</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</p>

Browser Timings

Redirect	0ms	Connect	43ms	Backend	6ms
TTFB	49ms	First Paint	631ms	DOM Int.	900ms
DOM Loaded	1.2s	Onload	2.7s	Fully Loaded	4.1s

IMPACT AUDIT

Low

Avoid enormous network payloads LCP

Total size was 2.76MB

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

URL	TRANSFER SIZE
https://www.youtube.com/s/player/704f0391/player_ias.vflset/en_US/base.js	780KB
https://www.brokenstringbio.com/wp-content/uploads/2022/03/bsb-header.jpg	569KB
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/scripts/footer.js?ver=1.1.0	288KB
https://www.youtube.com/s/player/704f0391/www-embed-player.vflset/www-embed-player.js	95.3KB
https://cc.cdn.civiccomputing.com/9/cookieControl-9.x.min.js	92.7KB
https://www.googletagmanager.com/gtm.js?id=GTM-K3QGKMR	65.6KB
https://www.brokenstringbio.com/wp-content/uploads/2022/03/dvh_logo_2019_2c.png	61.1KB
https://www.brokenstringbio.com/wp-content/uploads/2022/03/first-in.png	53.4KB
https://www.youtube.com/s/player/704f0391/www-player.css	47.1KB
https://www.brokenstringbio.com/wp-content/uploads/2022/03/illumina-accelerator.png	44.9KB

Low

Allow back/forward cache restoration

1 failure reason

Many navigations are performed by going back to a previous page, or forwards again. The back/forward cache (bfcache) can speed up these return navigations.

FAILURE REASON	FAILURE TYPE
Internal error. https://www.youtube.com/embed/jwBF3TIdQRs?feature=oembed	Circumstantial

Low

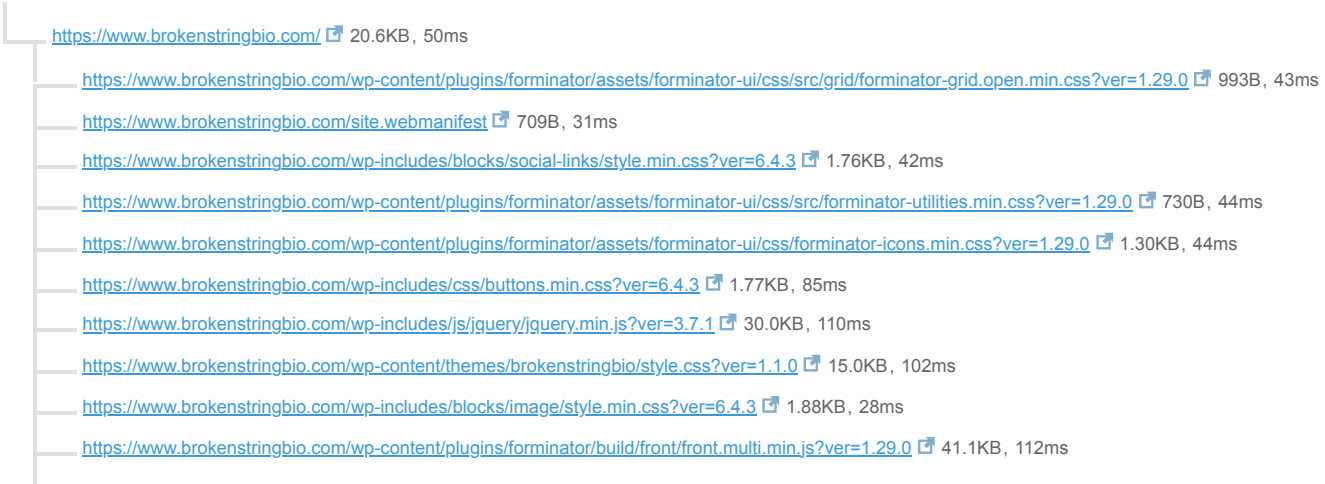
Avoid chaining critical requests FCP LCP

23 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: **2.7s**

INITIAL NAVIGATION



STATISTIC	ELEMENT	VALUE
Total DOM Elements		561
Maximum DOM Depth	About us 	14
Maximum Child Elements	Felix Dobbs, PhD Co-founder, CEO Simon Reed, PhD Co-founder, CSO Simon Kerr Co-... <div class="team-block team-block--columns-4">	38

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://www.brokenstringbio.com/wp-includes/js/dist/interactivity.min.js?ver=6.4.3	900ms	275ms
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/scripts/footer.js?ver=1.1.0	497ms	208ms
https://cc.cdn.civiccomputing.com/9/cookieControl-9.x.min.js	1.5s	124ms
https://www.brokenstringbio.com/	379ms	117ms
https://www.brokenstringbio.com/wp-includes/js/dist/interactivity.min.js?ver=6.4.3	1.2s	60ms

Low

Reduce JavaScript execution time TBT

571ms 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	443ms	16ms	0ms
https://www.brokenstringbio.com/	339ms	22ms	2ms
https://www.brokenstringbio.com/wp-includes/js/dist/interactivity.min.js?ver=6.4.3	211ms	65ms	0ms
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/scripts/footer.js?ver=1.1.0	207ms	101ms	73ms
https://cc.cdn.civiccomputing.com/9/cookieControl-9.x.min.js	120ms	114ms	5ms
https://www.googletagmanager.com/gtm.js?id=GTM-K3QGKMR	106ms	70ms	3ms
https://www.brokenstringbio.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1	101ms	54ms	2ms
webpack-internal:///161	61ms	38ms	0ms

Low

Properly size images

Potential savings of 715KB

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

URL	RESOURCE SIZE	POTENTIAL SAVINGS
https://www.brokenstringbio.com/wp-content/uploads/2022/03/bsb-header.jpg	568KB	522KB
https://www.brokenstringbio.com/wp-content/uploads/2022/03/dvh_logo_2019_2c.png	60.8KB	59.7KB
https://www.brokenstringbio.com/wp-content/uploads/2022/03/first-in.png	53.1KB	52.0KB
https://www.brokenstringbio.com/wp-content/uploads/2022/03/illumina-accelerator.png	44.6KB	44.4KB
https://www.brokenstringbio.com/wp-content/uploads/2022/03/Tencent.png	27.6KB	26.5KB
https://www.brokenstringbio.com/wp-content/uploads/2022/03/Time_partners_logo.png	11.7KB	10.2KB

Low

Efficiently encode images

Potential savings of 5.23KB

Optimized images load faster and consume less cellular data.

URL	RESOURCE SIZE	POTENTIAL SAVINGS
https://www.brokenstringbio.com/wp-content/uploads/2022/03/bsb-header.jpg	568KB	5.23KB

Low **Reduce unused CSS** FCP LCP Potential savings of 12.1KB

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
<ul style="list-style-type: none">https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/style.css?ver=1.1.0	15.0KB	12.1KB

Low **Serve images in next-gen formats** Potential savings of 422KB

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.brokenstringbio.com/wp-content/uploads/2022/03/bsb-header.jpg	568KB	313KB
https://www.brokenstringbio.com/wp-content/uploads/2022/03/dvh_logo_2019_2c.png	60.8KB	38.8KB
https://www.brokenstringbio.com/wp-content/uploads/2022/03/first-in.png	53.1KB	35.5KB
https://www.brokenstringbio.com/wp-content/uploads/2022/03/Tencent.png	27.6KB	17.3KB
https://www.brokenstringbio.com/wp-content/uploads/2022/03/illumina-accelerator.png	44.6KB	16.9KB

Low **Defer offscreen images** Potential savings of 51.3KB

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.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/string-footer.svg	21.7KB	21.7KB
https://www.brokenstringbio.com/wp-content/uploads/2022/04/University-of-Cambridge.svg	16.5KB	16.5KB
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/string-news.svg	10.5KB	10.5KB
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/string-team.svg	2.55KB	2.55KB

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

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

ELEMENT	NAME
Team	
<code></code>	
Unsupported CSS Property: color	color

Low **Reduce unused JavaScript** LCP Potential savings of 138KB

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

URL	TRANSFER SIZE	POTENTIAL SAVINGS
https://cc.cdn.civiccomputing.com/9/cookieControl-9.x.min.js	92.7KB	44.8KB
https://www.googletagmanager.com/gtm.js?id=GTM-K3QGKMR	65.6KB	37.9KB
https://www.brokenstringbio.com/wp-content/plugins/forminator/build/front/front.multi.min.js?ver=1.29.0	41.1KB	27.8KB
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/scripts/footer.js?ver=1.1.0	288KB	27.4KB

Low

Use HTTP/2 for all resources

44 requests not served via HTTP/2

HTTP/2 offers many benefits over HTTP/1.1, including binary headers and multiplexing.

URL	PROTOCOL
https://www.brokenstringbio.com/	http/1.1
https://www.brokenstringbio.com/wp-includes/blocks/navigation/style.min.css?ver=6.4.3	http/1.1
https://www.brokenstringbio.com/wp-includes/blocks/image/style.min.css?ver=6.4.3	http/1.1
https://www.brokenstringbio.com/wp-includes/blocks/cover/style.min.css?ver=6.4.3	http/1.1
https://www.brokenstringbio.com/wp-content/uploads/forminator/70_68c43f3de5e05c6638f993e6298c7eb1/css/style-70.css?ver=1659695787	http/1.1
https://www.brokenstringbio.com/wp-content/plugins/forminator/assets/forminator-ui/css/forminator-icons.min.css?ver=1.29.0	http/1.1
https://www.brokenstringbio.com/wp-content/plugins/forminator/assets/forminator-ui/css/src/forminator-utilities.min.css?ver=1.29.0	http/1.1
https://www.brokenstringbio.com/wp-content/plugins/forminator/assets/forminator-ui/css/src/grid/forminator-grid.open.min.css?ver=1.29.0	http/1.1
https://www.brokenstringbio.com/wp-includes/css/buttons.min.css?ver=6.4.3	http/1.1
https://www.brokenstringbio.com/wp-includes/blocks/social-links/style.min.css?ver=6.4.3	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/style.css?ver=1.1.0	http/1.1
https://www.brokenstringbio.com/wp-includes/js/dist/interactivity.min.js?ver=6.4.3	http/1.1
https://www.brokenstringbio.com/wp-includes/blocks/navigation/view.min.js?ver=e3d6f3216904b5b42831	http/1.1
https://www.brokenstringbio.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1	http/1.1
https://www.brokenstringbio.com/wp-includes/js/jquery/jquery-migrate.min.js?ver=3.4.1	http/1.1
https://www.brokenstringbio.com/wp-content/plugins/forminator/assets/js/library/jquery.validate.min.js?ver=1.29.0	http/1.1
https://www.brokenstringbio.com/wp-content/plugins/forminator/assets/forminator-ui/js/forminator-form.min.js?ver=1.29.0	http/1.1
https://www.brokenstringbio.com/wp-content/plugins/forminator/build/front/front.multi.min.js?ver=1.29.0	http/1.1
https://www.brokenstringbio.com/wp-content/uploads/2022/03/logo-1.svg	http/1.1
https://www.brokenstringbio.com/wp-content/uploads/2022/03/bsb-header.jpg	http/1.1
https://www.brokenstringbio.com/wp-content/uploads/2023/09/merieux_bw-300x92.png	http/1.1
https://www.brokenstringbio.com/wp-content/uploads/2023/09/Illumina-Ventures_bw-300x91.png	http/1.1
https://www.brokenstringbio.com/wp-content/uploads/2022/04/University-of-Cambridge.svg	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/scripts/footer.js?ver=1.1.0	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/circle-bars.svg	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/arrow-right.svg	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/circle-bars-w.svg	http/1.1
https://www.brokenstringbio.com/wp-content/uploads/2023/09/heran_transparent_bw-300x104.png	http/1.1
https://www.brokenstringbio.com/wp-content/uploads/2022/03/Time_partners_logo.png	http/1.1
https://www.brokenstringbio.com/wp-content/uploads/2022/03/Tencent.png	http/1.1
https://www.brokenstringbio.com/wp-content/uploads/2022/03/dvh_logo_2019_2c.png	http/1.1
https://www.brokenstringbio.com/wp-content/uploads/2022/03/first-in.png	http/1.1
https://www.brokenstringbio.com/wp-content/uploads/2022/03/illumina-accelerator.png	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/arrow-down-sm.svg	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/arrow-down-lg.svg	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/string-about.svg	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/string-investors.svg	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/string-technology.svg	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/string-partners.svg	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/string-team.svg	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/string-news.svg	http/1.1
https://www.brokenstringbio.com/wp-content/themes/brokenstringbio/assets/dist/svg/string-footer.svg	http/1.1
https://www.brokenstringbio.com/wp-admin/admin-ajax.php	http/1.1
https://www.brokenstringbio.com/site.webmanifest	http/1.1

N/A

Largest Contentful Paint element LCP

630 ms

This is the largest contentful element painted within the viewport.

ELEMENT

DNA Strand

```

```

PHASE	% OF LCP	TIMING
TTFB	8%	49ms
Load Delay	4%	24ms
Load Time	25%	155ms
Render Delay	64%	401ms

N/A

Reduce initial server response time FCP LCP

Root document took 5ms

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.brokenstringbio.com/	5ms

N/A

Avoid serving legacy JavaScript to modern browsers TBT

Potential savings of 19.7KB

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.

<https://cc.cdn.civiccomputing.com/9/cookieControl-9.x.min.js>

19.6KB

Line:0 Column:47462	@babel/plugin-transform-class
Line:0 Column:212528	es
Line:0 Column:212636	Array.prototype.fill
Line:0 Column:212901	Array.prototype.filter
Line:0 Column:213147	Array.prototype.findIndex
Line:0 Column:213834	Array.prototype.find
Line:0 Column:213936	Array.prototype.forEach
Line:0 Column:214517	Array.from
Line:0 Column:215549	Array.isArray
Line:0 Column:217314	Array.prototype.map
Line:0 Column:219716	Array.prototype.some
Line:0 Column:220128	Date.now
Line:0 Column:227853	Date.prototype.toISOString
Line:0 Column:228184	Number.isInteger
Line:0 Column:231674	Number.isSafeInteger
Line:0 Column:231819	Object.defineProperties
Line:0 Column:232181	Object.defineProperty
Line:0 Column:232339	Object.entries
Line:0 Column:232907	Object.freeze
Line:0 Column:233319	Object.getOwnPropertyDescriptors
Line:0 Column:233538	Object.getPrototypeOf
Line:0 Column:233702	Object.isExtensible
Line:0 Column:233925	Object.isFrozen
Line:0 Column:234175	Object.isSealed
Line:0 Column:234867	Object.keys
Line:0 Column:235082	Object.preventExtensions
Line:0 Column:235215	Object.seal
Line:0 Column:235413	Object.setPrototypeOf
Line:0 Column:241266	Object.values
Line:0 Column:241689	Reflect.apply
Line:0 Column:242192	Reflect.construct
Line:0 Column:242467	Reflect.defineProperty
Line:0 Column:242646	Reflect.deleteProperty
Line:0 Column:242795	Reflect.getPrototypeOf
Line:0 Column:242973	Reflect.get
Line:0 Column:243198	Reflect.has
Line:0 Column:243313	Reflect.isExtensible
Line:0 Column:243410	Reflect.ownKeys
Line:0 Column:243508	Reflect.preventExtensions
Line:0 Column:243732	Reflect.setPrototypeOf

URL	POTENTIAL SAVINGS
Line:0 Column:249292	<code>String.prototype.codePointAt</code>
Line:0 Column:250445	<code>String.fromCharCode</code>
Line:0 Column:254031	<code>String.raw</code>
Line:0 Column:254230	<code>String.prototype.repeat</code>
https://www.brokenstringbio.com/wp-content/plugins/forminator/build/front/front.multi.min.js?ver=1.29.0	122B
Line:0 Column:1945	<code>@babel/plugin-transform-class</code> <code>es</code>

N/A **Avoid large layout shifts** CLS 2 elements found

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

ELEMENT	CLS CONTRIBUTION
Delivering on the promise of gene editing <code><h1 class="alignwide wp-block-post-title"></code>	0.00
About us Technology Partners Team Careers News Contact Us <code><ul class="wp-block-navigation__container is-responsive items-justified-right wp-bloc..."></code>	0.00

N/A **Minimize main-thread work** TBT Main-thread busy for 1.7s

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

CATEGORY	TIME SPENT
Other	635ms
Script Evaluation	563ms
Style & Layout	317ms
Script Parsing & Compilation	94ms
Parse HTML & CSS	66ms
Rendering	29ms

N/A **Reduce the impact of third-party code** TBT Third-party code blocked the main thread for 64ms

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
CIVIC	93.6KB	64ms
• https://cc.cdn.civiccomputing.com/9/cookieControl-9.x.min.js	92.7KB	64ms
YOUTUBE	1.03MB	0ms
• https://www.youtube.com/s/player/704f0391/player_ias.vflset/en_US/base.js	780KB	0ms
• https://www.youtube.com/s/player/704f0391/www-embed-player.vflset/www-embed-player.js	95.3KB	0ms
• Other resources	180KB	0ms
ADOBE TYPEKIT	150KB	0ms
• https://use.typekit.net/af/b714ca/00000000000000000000000013f4b/27/?primer=7cdcb44be4a7db8877ffa5c0007b8dd865b3bbc383831fe2ea177f62257a9191&fvd=i4&v=3	40.0KB	0ms
• https://use.typekit.net/af/9aa4fe/00000000000000000000000013f4e/27/?primer=7cdcb44be4a7db8877ffa5c0007b8dd865b3bbc383831fe2ea177f62257a9191&fvd=n7&v=3	36.0KB	0ms
• https://use.typekit.net/af/9dc3b1/00000000000000000000000013f8f/27/?primer=7cdcb44be4a7db8877ffa5c0007b8dd865b3bbc383831fe2ea177f62257a9191&fvd=n4&v=3	35.4KB	0ms
• https://use.typekit.net/af/2759ad/0000000000000000000000007735a2d2/30/?primer=7cdcb44be4a7db8877ffa5c0007b8dd865b3bbc383831fe2ea177f62257a9191&fvd=n3&v=3	18.9KB	0ms
• https://use.typekit.net/af/0240fd/0000000000000000000000007735a2df/30/?primer=7cdcb44be4a7db8877ffa5c0007b8dd865b3bbc383831fe2ea177f62257a9191&fvd=n5&v=3	18.8KB	0ms
GOOGLE TAG MANAGER	65.6KB	0ms
• https://www.googletagmanager.com/gtm.js?id=GTM-K3QGKMR	65.6KB	0ms
OTHER GOOGLE APIS/SDKS	61.2KB	0ms
• https://jnn-pa.googleapis.com/\$rpc/google.internal.waa.v1.Waa/Create	40.9KB	0ms
• https://www.google.com/js/th/5OkHZN3F3io59si2rCNWEM4Ldayjlm6qhcWs5MZxw2M.js	20.2KB	0ms
GOOGLE FONTS	30.8KB	0ms
• https://fonts.gstatic.com/s/roboto/v18/KFOmCnqEu92Fr1Mu4mxK.woff2	15.5KB	0ms
• https://fonts.gstatic.com/s/roboto/v18/KFOICnqEu92Fr1MmEU9fBBc4.woff2	15.3KB	0ms
GOOGLE CDN	17.8KB	0ms
• https://www.gstatic.com/eureka/clank/117/cast_sender.js	15.3KB	0ms
GOOGLE/DOUBLECLICK ADS	1.20KB	0ms

N/A

User Timing marks and measures

No user timings and/or marks found.