



Performance Report for: <https://www.nasa.gov/>

Report generated: Wed, Jul 27, 2022 12:17 PM -0700
Test Server Location: Vancouver, Canada
Using: Chrome (Desktop) 98.0.4758.102, Lighthouse 9.3.1

B	Performance 89%	Structure 71%	L. Contentful Paint 1.3s	T. Blocking Time 45ms	C. Layout Shift 0.16
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Top Issues

IMPACT	AUDIT	
High	Avoid enormous network payloads LCP	Total size was 8.59MB
High	Eliminate render-blocking resources FCP LCP	Potential savings of 770ms
Med	Serve static assets with an efficient cache policy	Potential savings of 8.08MB
Med-Low	Enable text compression FCP LCP	Potential savings of 4.77MB
Med-Low	Avoid CSS @import FCP LCP	2 resources found

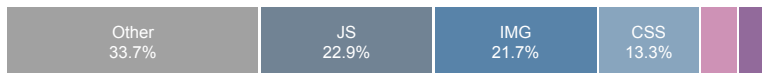
Page Details



Total Page Size - 8.59MB



Total Page Requests - 83



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.**

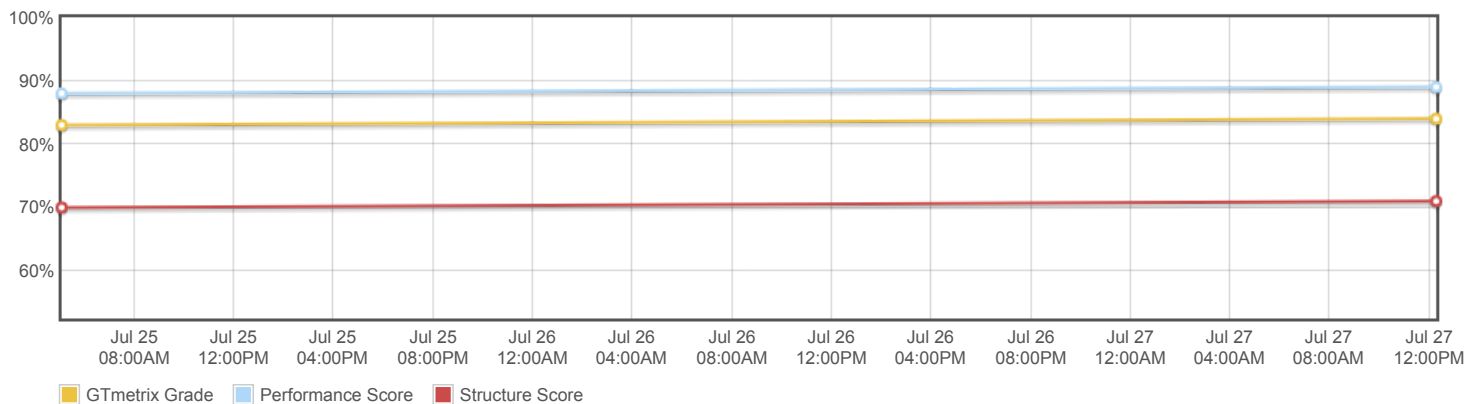
About GTmetrix

CARBON60
THE MANAGED CLOUD COMPANY

GTmetrix is developed by the good folks at **Carbon60**, a Canadian hosting company with over 26 years experience in web technology.

<https://carbon60.com/>

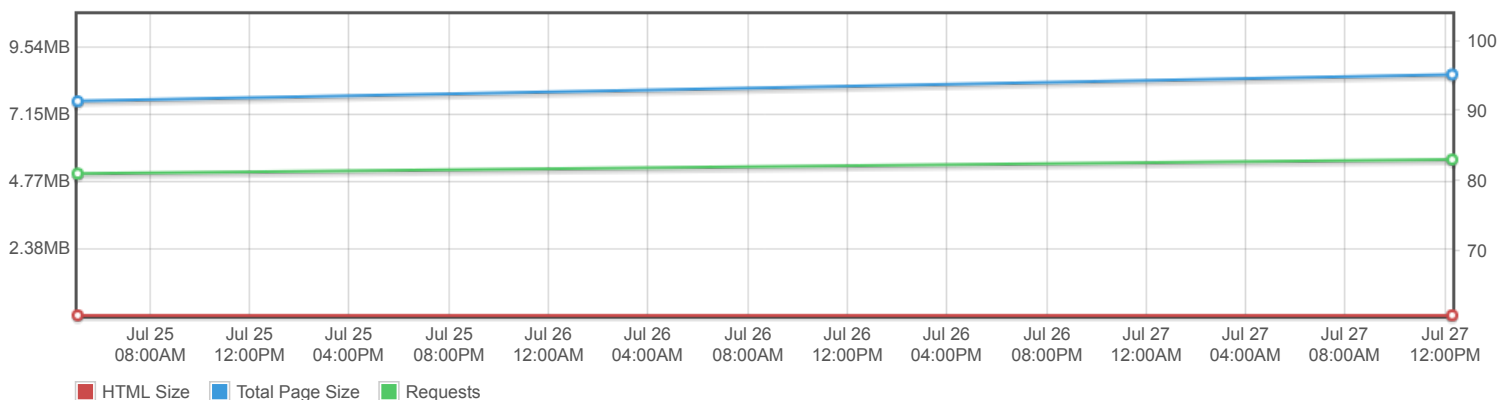
Page scores



Page metrics



Page sizes and request counts

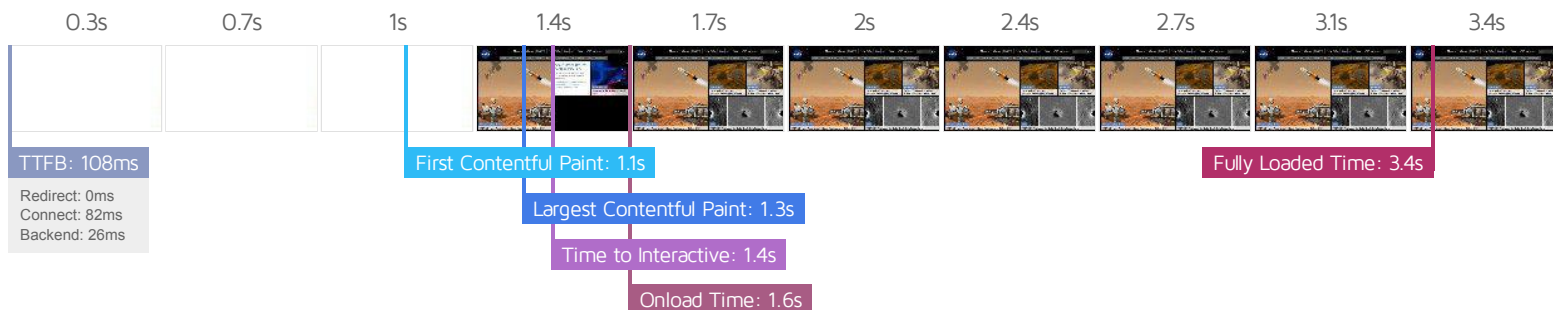


The waterfall chart displays the loading behaviour of your site in your selected browser. It can be used to discover simple issues such as 404's or more complex issues such as external resources blocking page rendering.

NASA

[illegible]

4515	200	nasa.gov	626B				26ms	
3138	200	nasa.gov	383B				49ms	
3456	200	nasa.gov	555B				26ms	
3137	200	nasa.gov	429B				31ms	
3135	200	nasa.gov	361B				31ms	
3127	200	nasa.gov	340B				29ms	
6028	200	nasa.gov	490B				32ms	
3133	200	nasa.gov	334B				47ms	
3655	200	nasa.gov	561B				46ms	
3141	200	nasa.gov	438B				28ms	
pia01551.jpg	200	nasa.gov	16.9KB				42ms	
grc-2022-c-04582.jpg	200	nasa.gov	46.2KB				48ms	
482310main_20100914_3b.jpg	200	nasa.gov	27.8KB				48ms	
gsfc_20220615_2022-148800-2_003.jpg	200	nasa.gov	44.5KB				65ms	
jassica_watkins_iss.jpg	200	nasa.gov	60.1KB				45ms	
1-willamette-falls-1041.jpg	200	nasa.gov	37.9KB				64ms	
landsat9_still_sw2_print_0.jpeg	200	nasa.gov	13.0KB				45ms	
20200303t212647s616_fractures_mar...	200	nasa.gov	39.8KB				62ms	
_ate.track.config_resp	200	v1.addthisedge.com	548B				101ms	
300lo.json?si=62e18f51e8b41460&bkl...	200	m.addthis.com	101B				147ms	
sh.f48a1a04fe8dbf021b4cda1d.html	(canceled)	s7.addthis.com	0				5ms	
sh.f48a1a04fe8dbf021b4cda1d.html	200	s7.addthis.com	25.8KB				58ms	
iFrame.html	200	universal.iperceptions....	1.37KB				27ms	
layers.fa6cd1947ce26e890d3d.js	200	s7.addthis.com	75.8KB				18ms	
favicon.ico	200	nasa.gov	14.7KB				30ms	
POST events	200	analytics.foresee.com	45B					1.5s
OPTIONS events	200	analytics.foresee.com	0				246ms	
InviteTriggers	401	api.iperceptions.com	31B				165ms	
OPTIONS InviteTriggers	200	api.iperceptions.com	0				130ms	
83 Requests 8.55MB (9.39MB Uncompressed) Fully Loaded 3.4s (Onload 1.6s)								



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.	OK, but consider improvement 1.1s	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 1.4s
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 1.3s	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 45ms
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.	OK, but consider improvement 1.3s	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.	More than recommended 0.16

Browser Timings

Redirect	0ms	Connect	82ms	Backend	26ms
TTFB	108ms	DOM Int.	793ms	First Paint	799ms
DOM Loaded	834ms	Onload	1.6s	Fully Loaded	3.4s

IMPACT	AUDIT	
High	Avoid enormous network payloads <small>LCP</small>	Total size was 8.59MB
High	Eliminate render-blocking resources <small>FCP LCP</small>	Potential savings of 770ms
Med	Serve static assets with an efficient cache policy	Potential savings of 8.08MB
Med-Low	Enable text compression <small>FCP LCP</small>	Potential savings of 4.77MB
Med-Low	Avoid CSS @import <small>FCP LCP</small>	2 resources found
Low	Avoid large layout shifts <small>CLS</small>	5 elements found
Low	Reduce unused JavaScript <small>LCP</small>	Potential savings of 4.48MB
Low	Reduce JavaScript execution time <small>TBT</small>	653ms spent executing JavaScript
Low	Reduce unused CSS <small>FCP LCP</small>	Potential savings of 483KB
Low	Minify CSS <small>FCP LCP</small>	Potential savings of 92.7KB
Low	Avoid an excessive DOM size <small>TBT</small>	320 elements
Low	Efficiently encode images	Potential savings of 203KB
Low	Ensure text remains visible during webfont load <small>FCP LCP</small>	3 fonts found
Low	Avoid long main-thread tasks <small>TBT</small>	6 long tasks found
Low	Serve images in next-gen formats	Potential savings of 718KB
Low	Reduce initial server response time <small>FCP LCP</small>	Root document took 26ms
Low	Avoid serving legacy JavaScript to modern browsers <small>TBT</small>	Potential savings of 42.5KB
Low	Avoid chaining critical requests <small>FCP LCP</small>	15 chains found
N/A	Largest Contentful Paint element <small>LCP</small>	1 element found
N/A	Minimize main-thread work <small>TBT</small>	Main-thread busy for 1.4s
N/A	User Timing marks and measures	1 user timing
N/A	Reduce the impact of third-party code <small>TBT</small>	Total size was 528KB