Performance Report for:

https://www.spacex.com/vehicles/starship/

Report generated: Fri, Jun 14, 2024 2:10 PM -0700
Test Server Location: 🇨🇦 Vancouver, Canada
Using: 🌐 Chrome 117.0.0.0, Lighthouse 11.0.0

B	Performance 87%	Structure 73%	L. Contentful Paint 1.4s	T. Blocking Time 0ms	C. Layout Shift 0.05

Top Issues

High	**Efficiently encode images**	Potential savings of 13.7MB
High	**Avoid enormous network payloads** LCP	Total size was 32.5MB
Med-Low	**Use a Content Delivery Network (CDN)**	23 resources found
Low	**Eliminate render-blocking resources** FCP LCP	Potential savings of 141ms
Low	**Serve images in next-gen formats**	Potential savings of 16.4MB

Focus on these audits first

These audits likely have the largest impact on your page performance.

Structure audits do not directly affect your Performance Score, but improving the audits seen here can help as a starting point for overall performance gains.

Page Details

18.8s
Fully Loaded Time

Total Page Size - 32.4MB

IMG 19.4MB	Video 12.9MB

Total Page Requests - 30

IMG 50%	JS 20%	Video 10%	CSS 6.7%	Font 6.7%	HTML 3.3%	Other 3.3%

🟪 HTML 🔷 JS 🔵 CSS 🔵 IMG 🔷 Video 🟪 Font ⬜ Other
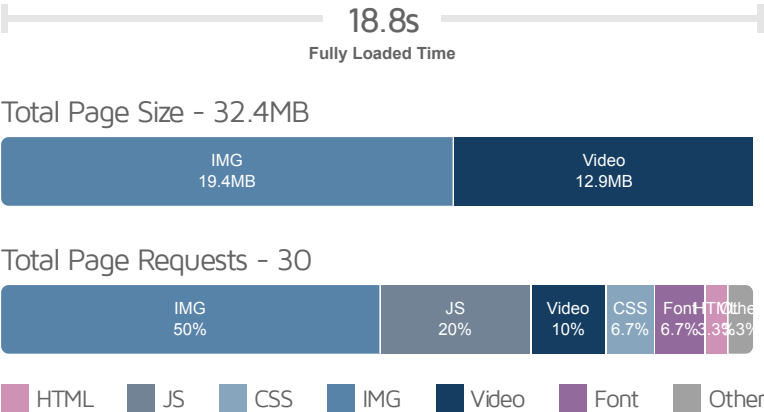
How does this affect me?

Modern web users have a short attention span and expect a fast and seamless website experience. Delivering that fast experience can result in more traffic, more conversions, and more happiness.

As if you didn't need more incentive, **Google use Page Speed and Page Experience (including Web Vitals) signals in their ranking algorithm.**
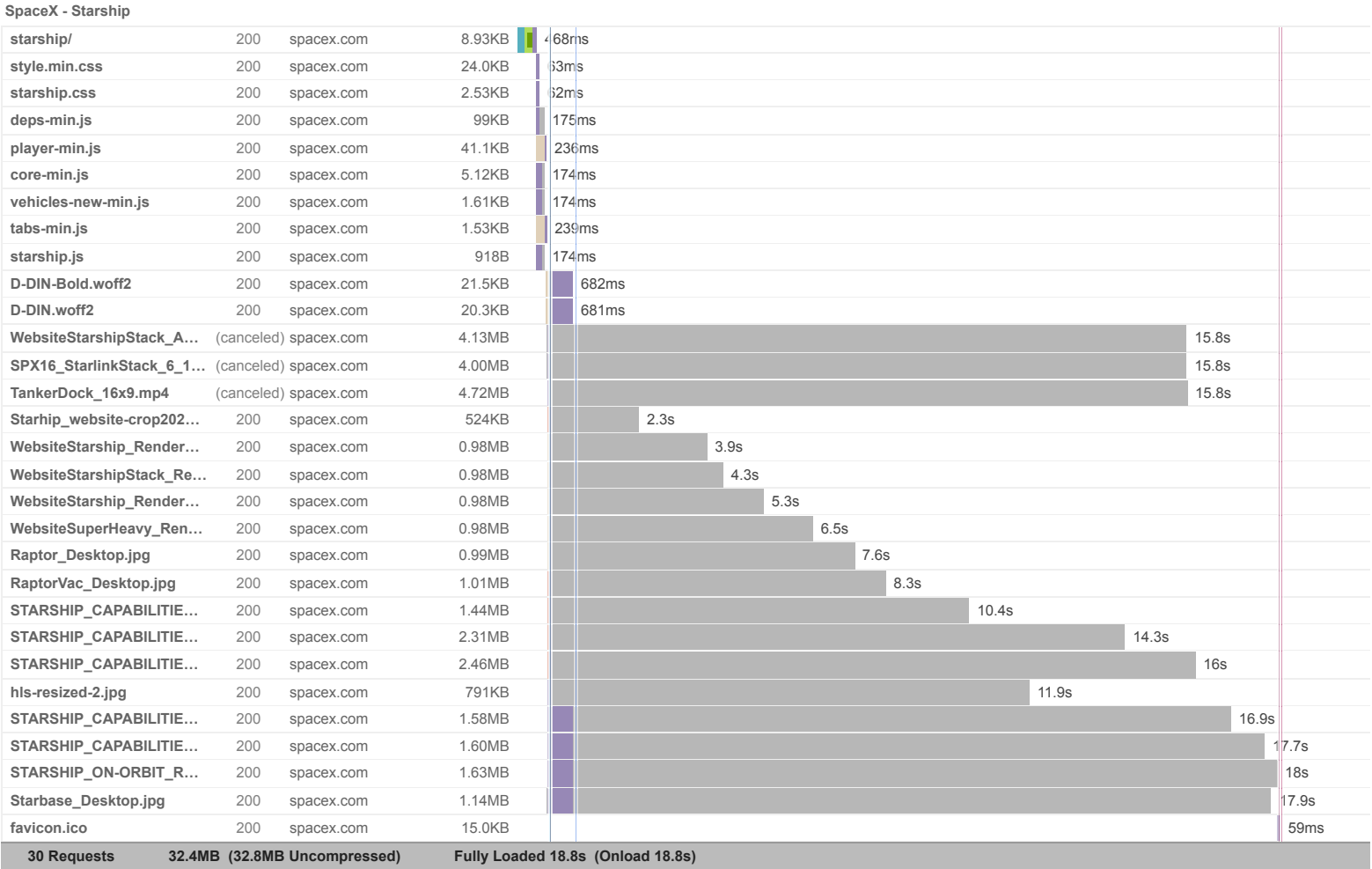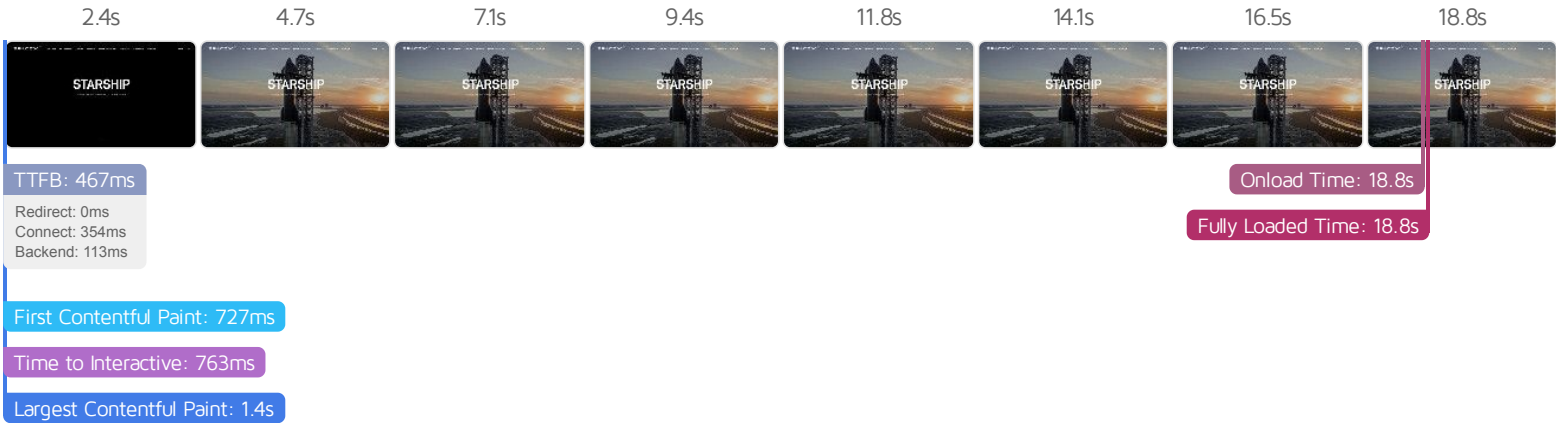
About GTmetrix

GTmetrix

GTmetrix was developed as a tool for customers to easily test the performance of their webpages.

Learn more about us.

Waterfall Chart

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.

SpaceX - Starship

Resource	Status	Domain	Size	Time
starship/	200	spacex.com	8.93KB	468ms
style.min.css	200	spacex.com	24.0KB	63ms
starship.css	200	spacex.com	2.53KB	62ms
deps-min.js	200	spacex.com	99KB	175ms
player-min.js	200	spacex.com	41.1KB	236ms
core-min.js	200	spacex.com	5.12KB	174ms
vehicles-new-min.js	200	spacex.com	1.61KB	174ms
tabs-min.js	200	spacex.com	1.53KB	239ms
starship.js	200	spacex.com	918B	174ms
D-DIN-Bold.woff2	200	spacex.com	21.5KB	682ms
D-DIN.woff2	200	spacex.com	20.3KB	681ms
WebsiteStarshipStack_A…	(canceled)	spacex.com	4.13MB	15.8s
SPX16_StarlinkStack_6_1…	(canceled)	spacex.com	4.00MB	15.8s
TankerDock_16x9.mp4	(canceled)	spacex.com	4.72MB	15.8s
Starhip_website-crop202…	200	spacex.com	524KB	2.3s
WebsiteStarship_Render…	200	spacex.com	0.98MB	3.9s
WebsiteStarshipStack_Re…	200	spacex.com	0.98MB	4.3s
WebsiteStarship_Render…	200	spacex.com	0.98MB	5.3s
WebsiteSuperHeavy_Ren…	200	spacex.com	0.98MB	6.5s
Raptor_Desktop.jpg	200	spacex.com	0.99MB	7.6s
RaptorVac_Desktop.jpg	200	spacex.com	1.01MB	8.3s
STARSHIP_CAPABILITIE…	200	spacex.com	1.44MB	10.4s
STARSHIP_CAPABILITIE…	200	spacex.com	2.31MB	14.3s
STARSHIP_CAPABILITIE…	200	spacex.com	2.46MB	16s
hls-resized-2.jpg	200	spacex.com	791KB	11.9s
STARSHIP_CAPABILITIE…	200	spacex.com	1.58MB	16.9s
STARSHIP_CAPABILITIE…	200	spacex.com	1.60MB	17.7s
STARSHIP_ON-ORBIT_R…	200	spacex.com	1.63MB	18s
Starbase_Desktop.jpg	200	spacex.com	1.14MB	17.9s
favicon.ico	200	spacex.com	15.0KB	59ms

30 Requests   32.4MB (32.8MB Uncompressed)   Fully Loaded 18.8s (Onload 18.8s)

2.4s 4.7s 7.1s 9.4s 11.8s 14.1s 16.5s 18.8s

TTFB: 467ms
Redirect: 0ms
Connect: 354ms
Backend: 113ms

Onload Time: 18.8s

Fully Loaded Time: 18.8s

First Contentful Paint: 727ms

Time to Interactive: 763ms

Largest Contentful Paint: 1.4s

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.

Good - Nothing to do here

726ms

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

763ms

Speed Index

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

Much longer than recommended

3.6s

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 (i.e., a hero image) to be painted on your page. A good user experience is 1.2s or less.

OK, but consider improvement

1.4s

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

0.05

Browser Timings

Redirect	0ms	Connect	354ms	Backend	113ms
TTFB	467ms	DOM Int.	717ms	First Paint	727ms
DOM Loaded	763ms	Onload	18.8s	Fully Loaded	18.8s

IMPACT	AUDIT	
High	**Efficiently encode images**	Potential savings of 13.7MB
High	**Avoid enormous network payloads** `LCP`	Total size was 32.5MB
Med-Low	**Use a Content Delivery Network (CDN)**	23 resources found
Low	**Eliminate render-blocking resources** `FCP` `LCP`	Potential savings of 141ms
Low	**Serve images in next-gen formats**	Potential savings of 16.4MB
Low	**Reduce unused JavaScript** `LCP`	Potential savings of 92.2KB
Low	**Reduce JavaScript execution time** `TBT`	574ms spent executing JavaScript
Low	**Avoid large layout shifts** `CLS`	5 elements found
Low	**Avoid chaining critical requests** `FCP` `LCP`	7 chains found
Low	**Avoid an excessive DOM size** `TBT`	329 elements
Low	**Reduce unused CSS** `FCP` `LCP`	Potential savings of 20.3KB
Low	**Reduce initial server response time** `FCP` `LCP`	Root document took 113ms
N/A	**Largest Contentful Paint element** `LCP`	1,390 ms
N/A	**Avoid serving legacy JavaScript to modern browsers** `TBT`	Potential savings of 60B
N/A	**Minimize main-thread work** `TBT`	Main-thread busy for 2.3s
N/A	**User Timing marks and measures**	
N/A	**Reduce the impact of third-party code** `TBT`	