

Performance Report for:

https://www.tesla.com/solarroof

Report generated: Fri, Sep 6, 2024 6:26 PM -0700

Test Server Location: Vancouver, Canada

Using: Chrome 117.0.0.0, Lighthouse 11.0.0

D

Performance66%

Structure74%

L. Contentful Paint542ms

T. Blocking Time693ms

C. Layout Shift0.02

Top Issues

High	Avoid enormous network payloads	Total size was 8.29MB
Med-High	Avoid an excessive DOM size	3,094 elements
Med	Use explicit width and height on image elements	18 images found
Med	Serve static assets with an efficient cache policy	Potential savings of 458KB
Med-Low	Use a Content Delivery Network (CDN)	30 resources found

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.

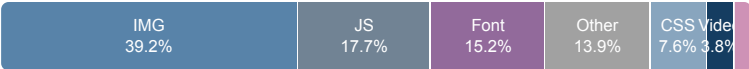
Page Details



Total Page Size - 8.25MB



Total Page Requests - 79



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

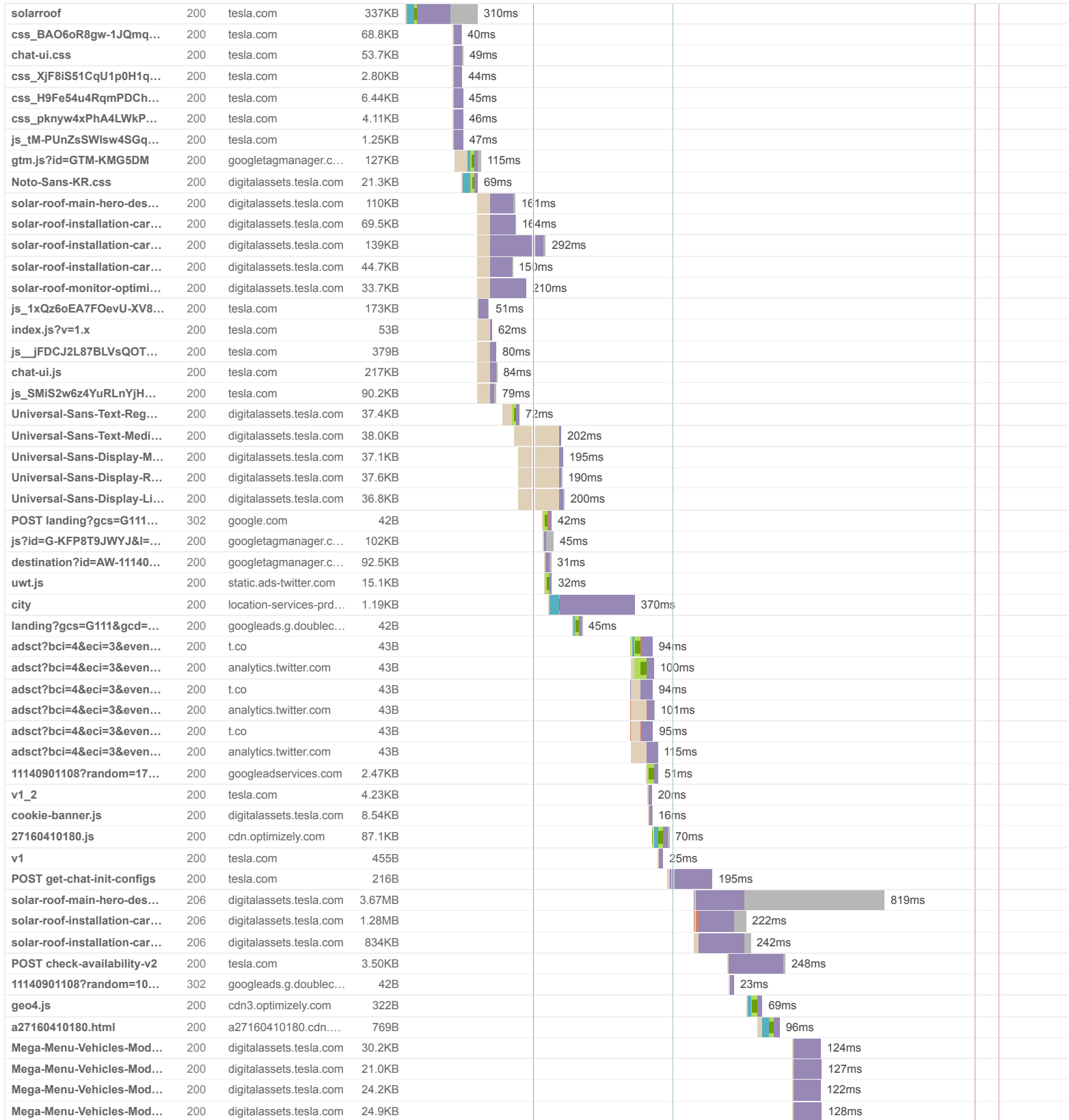
GTmetrix

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

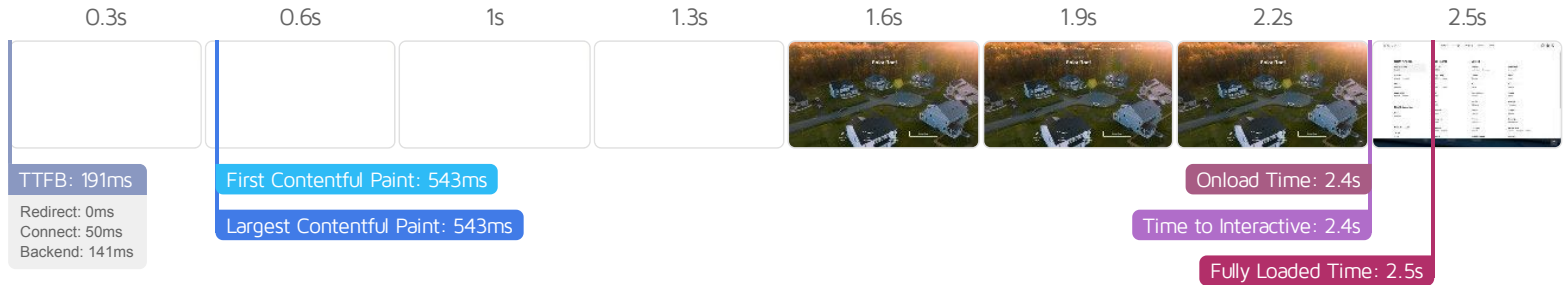
[Learn more about us.](#)

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.

Solar Roof | Tesla



Mega-Menu-Vehicles-Cyb...	200	digitalassets.tesla.com	17.8KB				130ms		
Mega-Menu-Vehicles-HM...	200	digitalassets.tesla.com	53.5KB				125ms		
Mega-Menu-Energy-Solar...	200	digitalassets.tesla.com	19.0KB				124ms		
Mega-Menu-Energy-Solar...	200	digitalassets.tesla.com	29.1KB				100ms		
Mega-Menu-Energy-Powe...	200	digitalassets.tesla.com	4.37KB				99ms		
Mega-Menu-Energy-Mega...	200	digitalassets.tesla.com	10.6KB				122ms		
Mega-Menu-Charging-Ch...	200	digitalassets.tesla.com	11.4KB				128ms		
Mega-Menu-Charging-Ho...	200	digitalassets.tesla.com	5.08KB				130ms		
Mega-Menu-Charging-Su...	200	digitalassets.tesla.com	13.4KB				124ms		
Mega-Menu-Shop-Chargi...	200	digitalassets.tesla.com	5.08KB				145ms		
Mega-Menu-Shop-Vehicle...	200	digitalassets.tesla.com	52.1KB				243ms		
Mega-Menu-Shop-Appare...	200	digitalassets.tesla.com	27.5KB				127ms		
Mega-Menu-Shop-Lifestyl...	200	digitalassets.tesla.com	12.9KB				245ms		
Noto-Sans-Hebrew.woff2	200	digitalassets.tesla.com	16.2KB				213ms		
Noto-Sans-Arabic.woff2	200	digitalassets.tesla.com	67.5KB				212ms		
Noto-Sans-Thai.woff2	200	digitalassets.tesla.com	25.7KB				166ms		
PbykFmXiEBPT4ITbgNA5...	200	fonts.gstatic.com	14.2KB				196ms		
PbykFmXiEBPT4ITbgNA5...	200	fonts.gstatic.com	13.9KB				197ms		
PbykFmXiEBPT4ITbgNA5...	200	fonts.gstatic.com	15.6KB				198ms		
Noto-Sans-Greek.woff2	200	digitalassets.tesla.com	23.0KB				122ms		
11140901108?random=10...	302	google.com	42B				27ms		
11140901108?random=10...	200	google.ca	42B				82ms		
manifest.json	200	tesla.com	291B				25ms		
favicon.ico	200	tesla.com	902B						11ms
apple-touch-icon-144x144...	200	tesla.com	6.52KB						23ms
POST events	204	logx.optimizely.com	386B						56ms
<div> <div>79 Requests</div> <div>8.25MB (12.3MB Uncompressed)</div> <div>Fully Loaded 2.5s (Onload 2.4s)</div> </div>									



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 542ms	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 2.4s
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 3.7s	Total Blocking Time How much time is blocked by scripts during your page loading process. A good user experience is 150ms or less.	Much longer than recommended 693ms
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.	Good - Nothing to do here 542ms	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 0.02

Browser Timings

Redirect	0ms	Connect	50ms	Backend	141ms
TTFB	191ms	First Paint	543ms	DOM Int.	1.0s
DOM Loaded	1.1s	Onload	2.4s	Fully Loaded	2.5s

IMPACT	AUDIT	
High	Avoid enormous network payloads <small>LCP</small>	Total size was 8.29MB
Med-High	Avoid an excessive DOM size <small>TBT</small>	3,094 elements
Med	Use explicit width and height on image elements <small>CLS</small>	18 images found
Med	Serve static assets with an efficient cache policy	Potential savings of 458KB
Med-Low	Use a Content Delivery Network (CDN)	30 resources found
Low	Eliminate render-blocking resources <small>FCP LCP</small>	Potential savings of 121ms
Low	Use passive listeners to improve scrolling performance	1 event listener not passive
Low	Allow back/forward cache restoration	3 failure reasons
Low	Avoid long main-thread tasks <small>TBT</small>	11 long tasks found
Low	Avoid chaining critical requests <small>FCP LCP</small>	23 chains found
Low	Reduce JavaScript execution time <small>TBT</small>	932ms spent executing JavaScript
Low	Ensure text remains visible during webfont load <small>FCP LCP</small>	4 fonts found
Low	Avoid non-composited animations <small>CLS</small>	15 animated elements found
Low	Reduce unused CSS <small>FCP LCP</small>	Potential savings of 126KB
Low	Reduce unused JavaScript <small>LCP</small>	Potential savings of 396KB
Low	Defer offscreen images	Potential savings of 396KB
Low	Minify CSS <small>FCP LCP</small>	Potential savings of 2.49KB
Low	Serve images in next-gen formats	Potential savings of 9.37KB
Low	Reduce initial server response time <small>FCP LCP</small>	Root document took 140ms
Low	Properly size images	Potential savings of 377KB
N/A	Largest Contentful Paint element <small>LCP</small>	540 ms
N/A	Reduce the impact of third-party code <small>TBT</small>	Third-party code blocked the main thread for 33ms
N/A	Avoid large layout shifts <small>CLS</small>	5 elements found

N/A	Avoid serving legacy JavaScript to modern browsers TBT	Potential savings of 92B
N/A	User Timing marks and measures	2 user timings
N/A	Minimize main-thread work TBT	Main-thread busy for 2.6s