



Name: Youssef Ahmed Ibrahim / Abdallah Mostafa Mahdy

ID:223101109 / 223104683

1. Introduction

State the purpose:

- Analyze three websites (Amazon, BBC Sport, Galala University).
- Measure performance with DevTools, Lighthouse, and PageSpeed Insights.
- Evaluate Core Web Vitals (LCP, INP, CLS).
- Identify the worst-performing website.
- Provide optimization recommendations.

Methodology

All tests were conducted using Google Chrome on desktop.

For each website, the homepage was opened with DevTools (Network tab) and refreshed using **Ctrl + Shift + R** to ensure a complete reload without cached resources.

Each measurement—load time, transferred size, request count, and resource types—was recorded three times at different times of the day.

Core Web Vitals were measured using both PageSpeed Insights and Lighthouse in mobile and desktop modes.

The three runs were averaged to provide consistent performance values.

All screenshots were taken directly from the browser during testing and used as evidence in the report.

2. Selected Websites

List the chosen sites:

- **Amazon** – E-commerce: <https://www.amazon.com/>
- **BBC Sport** – News/Media: bbc.com/sport

- Galala University – Educational: <https://www.gu.edu.eg/>

Include homepage URLs.

Technology Stack Analysis

1. Amazon

Amazon.com Technology Stack Analysis

The website **Amazon.com** relies on a highly distributed, microservices-based architecture built on top of its own cloud computing platform, AWS.

Requirement	Amazon.com Technology/Service
Server Provider	Amazon Web Services (AWS)
Server Location	Global (AWS Regions)
CMS (if any)	Custom-built/Proprietary
Frontend Framework	Custom/Internal JavaScript Libraries
Backend Language	Polyglot (Java, C++, Perl, Go)
CDN (if used)	Amazon CloudFront
Any other detected technologies	Databases: Amazon DynamoDB, Amazon Aurora/RDS. Load Balancing: AWS ELB. Containerization: AWS ECS/EKS.



Wappalyzer

[TECHNOLOGIES](#)[MORE INFO](#) [Export](#)

Security

[HSTS](#)

Advertising

[Amazon Advertising](#)

Miscellaneous

[Open Graph](#)[HTTP/3](#)

JavaScript libraries

[core-js 3.17.3](#)[jQuery](#)

CDN

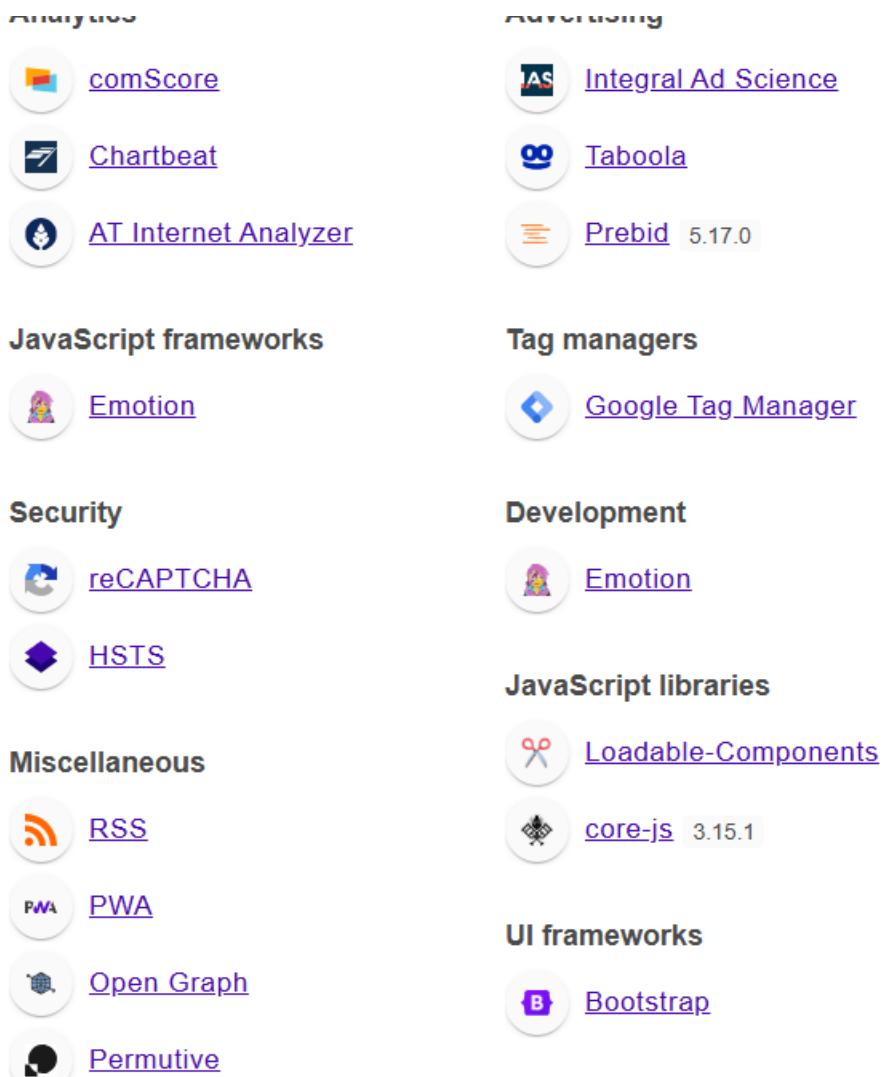
[Amazon CloudFront](#)

PaaS

[Amazon Web Services](#)[Something wrong or missing?](#)

Automate technology lookups

[Our APIs provide instant access to website technology stacks](#)



2. BBC Sport

BBC Sport (bbc.com/sport) Technology Stack Analysis

The BBC website uses a modern, high-performance architecture centered around its own in-house rendering platform and a multi-cloud infrastructure to handle massive global traffic.

Requirement	BBC Sport Technology/Service
Server Provider	Multi-Cloud: Amazon Web Services (AWS)
Server Location	Global: Served from various AWS and GCP data centers and Points of Presence (PoPs) worldwide
CMS (if any)	Proprietary/In-House: Simorgh

Requirement	BBC Sport Technology/Service
Frontend Framework	ReactJS
Backend Language	Node.js
CDN (if used)	Hybrid: Fastly and BIDI (BBC Internet Distribution Infrastructure, their custom media CDN)
Any other detected technologies	Analytics: comScore, Chartbeat, AT Internet Analyzer. Advertising: Integral Ad Science, Taboola, Prebid. Tag Managers: Google Tag Manager. Security: HSTS, reCAPTCHA.

The screenshot shows the BBC Sport homepage with a yellow header and navigation menu. A Wappalyzer sidebar is open on the right, listing the following technologies detected on the page:

- Analytics:** comScore, Chartbeat, AT Internet Analyzer
- Advertising:** Integral Ad Science, Taboola, Prebid
- JavaScript frameworks:** Emotion
- Tag managers:** Google Tag Manager
- Security:** reCAPTCHA, HSTS
- Miscellaneous:** Loadable Components

3. Galala University

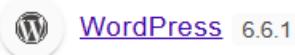
Galala University Technology Stack Analysis

The Galala University website runs on a highly common and flexible web stack centered on the popular WordPress Content Management System.

Requirement	Galala University Technology/Service
Server Provider	Amazon Web Services (AWS)
Server Location	Global (Hosted on AWS)
CMS	WordPress 6.6.1
Frontend Framework	GSAP, jQuery, Lit

Requirement	Galala University Technology/Service
Backend Language	PHP
CDN (if used)	Amazon CloudFront
Any other detected technologies	Database: MySQL. E-commerce: WooCommerce. SEO: Yoast SEO. Security: reCAPTCHA, HSTS.

CMS



[WordPress](#) 6.6.1

Programming languages



[PHP](#)

Widgets



[Slider Revolution](#) 6.5.24

Databases



[MySQL](#)

Ecommerce



[WooCommerce](#) 9.1.4

Maps



[Google Maps](#)

Photo galleries



[Slider Revolution](#) 6.5.24

Tag managers



[Google Tag Manager](#)

Analytics



[PixelYourSite](#)



[Google Analytics](#) GA4



[Facebook Pixel](#)

SEO



[Yoast SEO](#)

JavaScript libraries



[Masonry](#)



 [Google Analytics](#) GA4

 [Facebook Pixel](#)

Blogs

 [WordPress](#) 6.6.1

JavaScript frameworks

 [GSAP](#)

Video players

 [Vimeo](#)

 [YouTube](#)

Security

 [reCAPTCHA](#)

Font scripts

 [Google Font API](#)

JavaScript libraries

 [Masonry](#)

 [lit-html](#) 3.2.1

 [lit-element](#) 4.1.1

 [Isotope](#)

 [core-js](#) 3.32.2

 [jQuery Migrate](#) 3.4.1

 [jQuery](#) 3.7.1

WordPress plugins

 [Yoast SEO](#)

 [WooCommerce](#) 9.1.4

 [WP Google Map Plugin](#) 2.3.4

 [Contact Form 7](#) 5.6.3

 [WP Job Openings](#) 3.3.1

Blogs	 WordPress 6.6.1	 lit-html 3.2.1
JavaScript frameworks	 GSAP	 lit-element 4.1.1
Video players	 Vimeo	 Isotope
	 YouTube	 core-js 3.32.2
		 jQuery Migrate 3.4.1
		 jQuery 3.7.1
Security	 reCAPTCHA	WordPress plugins
Font scripts	 Google Font API	 Yoast SEO
	 Font Awesome	 WooCommerce 9.1.4
	 Twitter Emojis (Twemoji)	 WP Google Map Plugin 2.3.4
		 Contact Form 7 5.6.3
		 WP Job Openings 3.3.1
		 PixelYourSite

DevTools Performance Measurements

For each website:

1. Amazon

 **Website Performance Audit: Amazon.com (E-commerce Platform)**

1. Website Document Details

Detail	Data
Complete Homepage URL	https://www.amazon.com/
Server Location	Cairo, Egypt (Al Qahirah)
Content Management System (CMS)	Custom/Proprietary.
Frontend Frameworks	Custom/Mixed. Amazon services basic JavaScript files (dom.js, js.js), indicating a highly optimized, tailored frontend React or Angular.

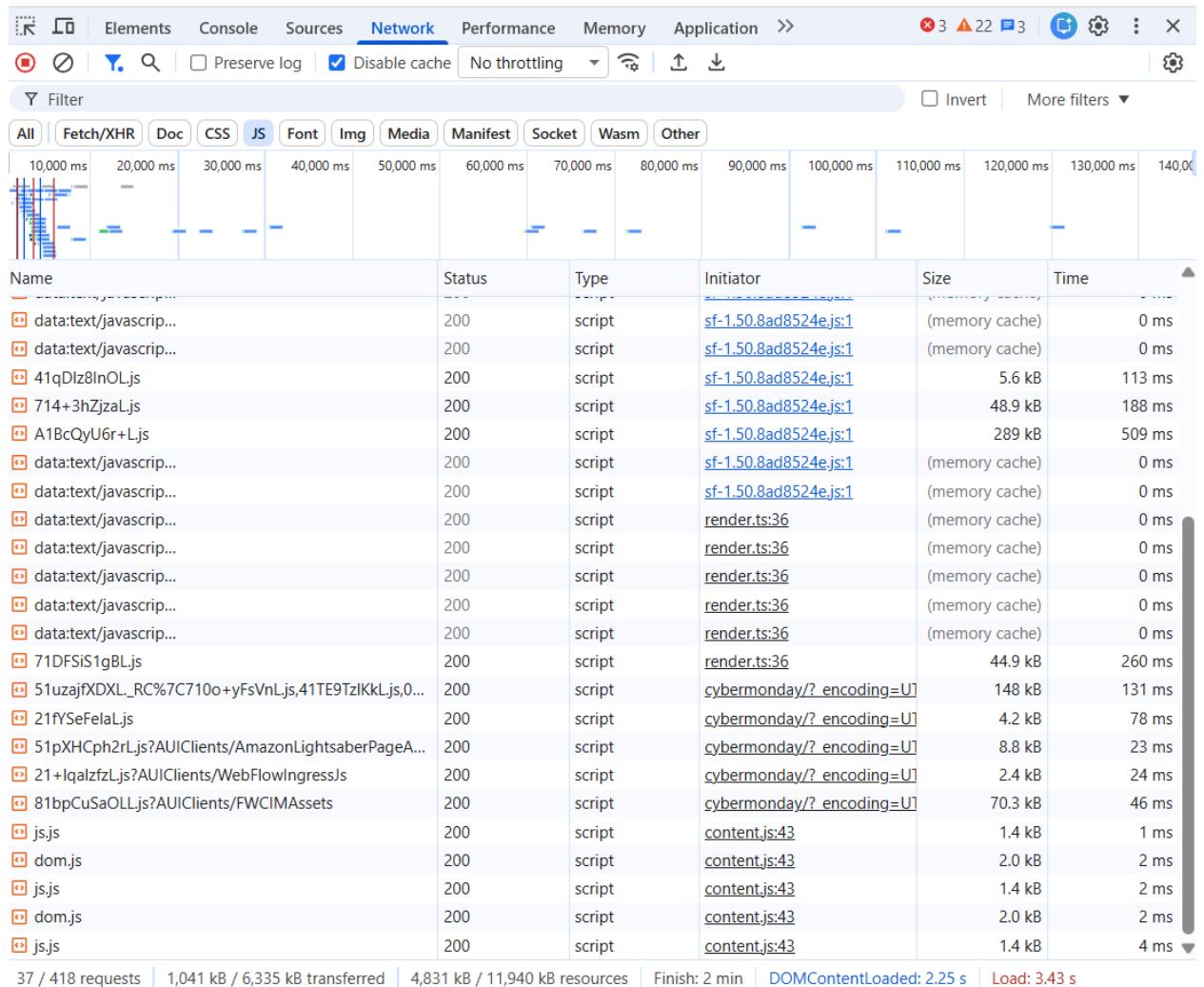
2. DevTools Performance Measurements (3-Run Average)

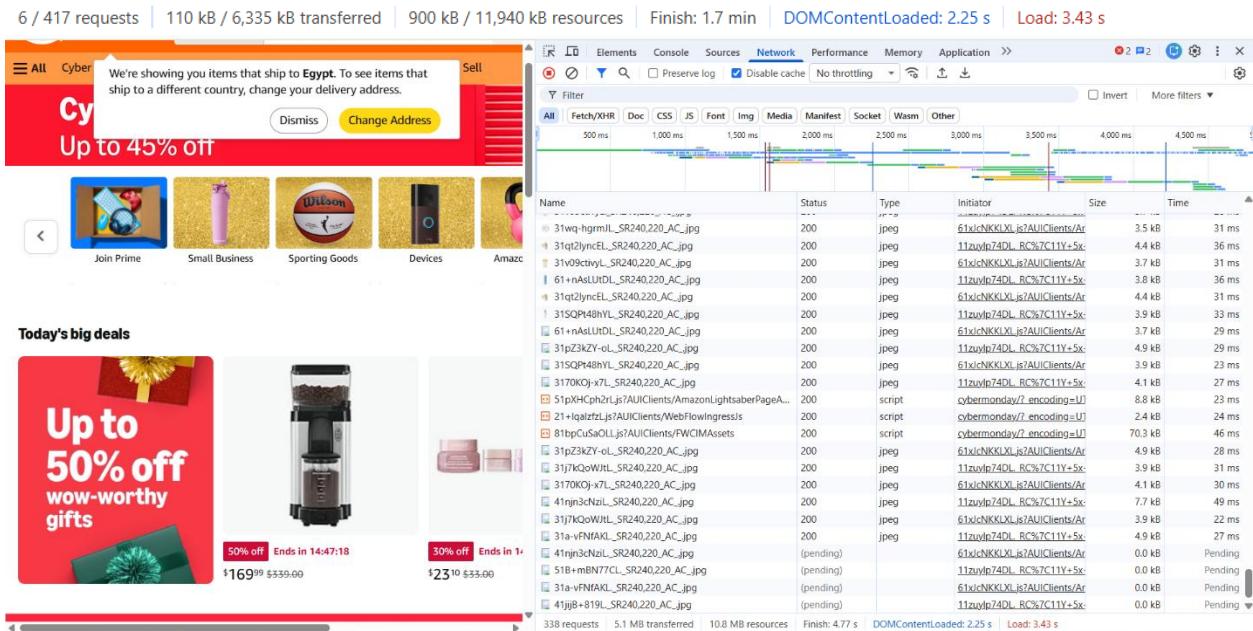
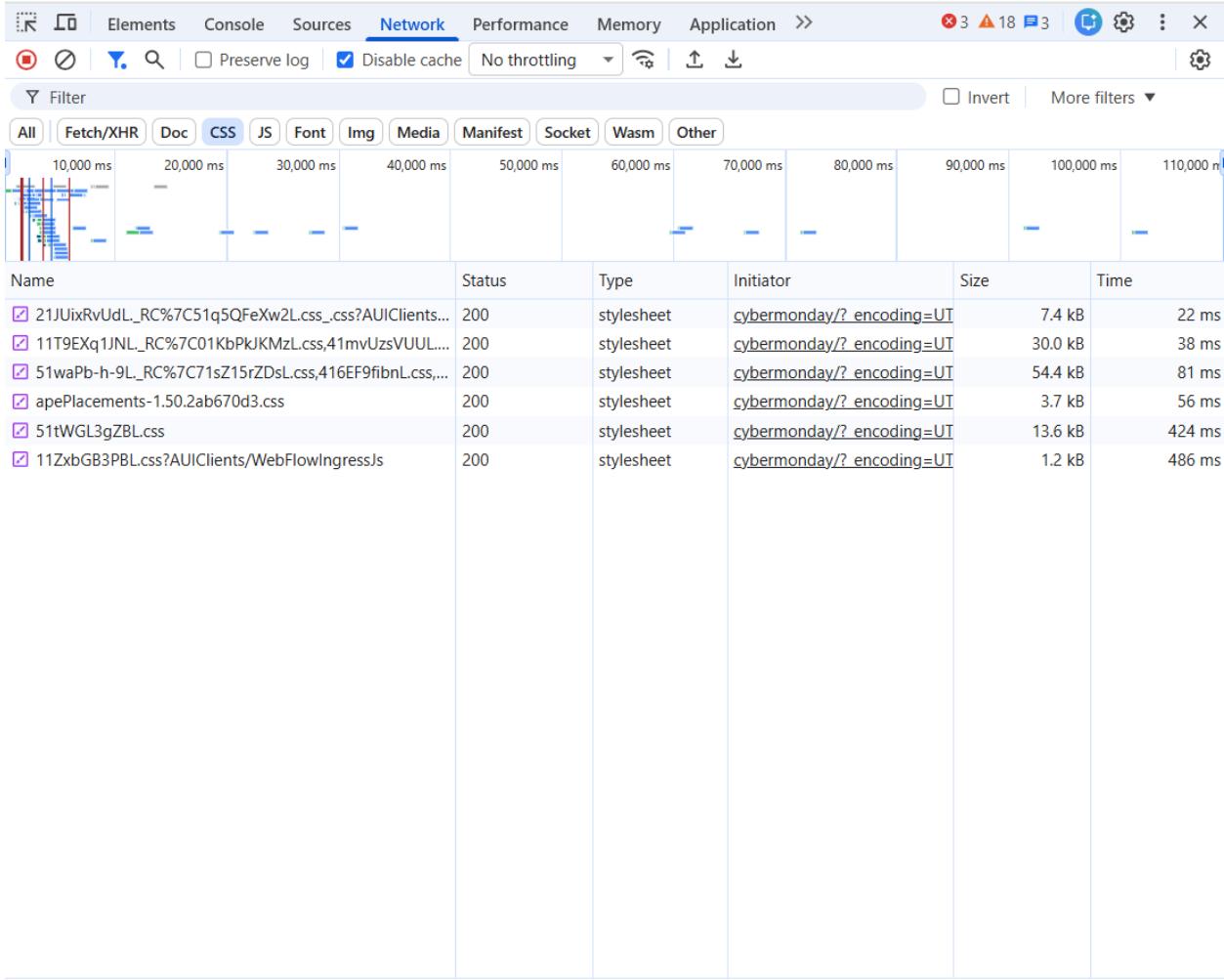
The following table presents the key performance metrics recorded from three separate hard-refreshes of the Amazon homepage using the Chrome DevTools Network tab.

Metric	Run 1	Run 2	Run 3	Average (3 Runs)
Load Time	3.43 S	4.20 S	3.07 S	3.57 S
Finish Time	102.00 S	21.34 S	19.92 S	47.75 S
Total Transferred Size	6.335MB	4.635 MB	5.923 MB	5.631 MB
Total Requests	417	255	393	355
Number of Images	335	176	341	284
Number of JS Files	37	39	37	37.7
Number of CSS Files	6	6	5	5.7

screenshots of Network tab

first run:





Screenshot of the Network tab in the Chrome DevTools Performance panel. The Network tab is selected, showing a timeline and a detailed list of network requests.

Timeline: The top part shows a timeline from 10,000 ms to 140,000 ms. Most requests are clustered between 10,000 ms and 40,000 ms, with a few more scattered later.

Table: The main area displays a table of network requests with the following columns:

Name	Status	Type	Initiator	Size	Time
31jWgrOt47L_SR480,440_AC.jpg	200	jpeg	11zuylp74DL_RC%7C11Y+5x...	10.4 kB	27 ms
31wnLr7NI6L_SR480,440_AC.jpg	200	jpeg	61xjcNKKLXLjs?AUIClients/Ar...	7.8 kB	37 ms
414HD7y0FdL_SR480,440_AC.jpg	200	jpeg	11zuylp74DL_RC%7C11Y+5x...	15.1 kB	47 ms
31jWgrOt47L_SR480,440_AC.jpg	200	jpeg	61xjcNKKLXLjs?AUIClients/Ar...	10.4 kB	34 ms
31Q110CEdYL_SR480,440_AC.jpg	200	jpeg	11zuylp74DL_RC%7C11Y+5x...	12.1 kB	34 ms
414HD7y0FdL_SR480,440_AC.jpg	200	jpeg	61xlcNKKLXLjs?AUIClients/Ar...	15.1 kB	41 ms
4144BT3IZSL_SR480,440_AC.jpg	200	jpeg	11zuylp74DL_RC%7C11Y+5x...	23.3 kB	48 ms
31Q110CEdYL_SR480,440_AC.jpg	200	jpeg	61xjcNKKLXLjs?AUIClients/Ar...	12.0 kB	45 ms
21ICzwXQ6EL_SR480,440_AC.jpg	200	jpeg	11zuylp74DL_RC%7C11Y+5x...	6.4 kB	45 ms
4144BT3IZSL_SR480,440_AC.jpg	200	jpeg	61xlcNKKLXLjs?AUIClients/Ar...	23.3 kB	32 ms
31Uncrd-HhL_SR480,440_AC.jpg	200	jpeg	11zuylp74DL_RC%7C11Y+5x...	10.2 kB	38 ms
21ICzwXQ6EL_SR480,440_AC.jpg	200	jpeg	61xjcNKKLXLjs?AUIClients/Ar...	6.6 kB	41 ms
41QZudCJ+jL_SR480,440_AC.jpg	200	jpeg	11zuylp74DL_RC%7C11Y+5x...	11.7 kB	41 ms
31Uncrd-HhL_SR480,440_AC.jpg	200	jpeg	61xlcNKKLXLjs?AUIClients/Ar...	10.2 kB	36 ms
31hbQVtlrwL_SR480,440_AC.jpg	200	jpeg	11zuylp74DL_RC%7C11Y+5x...	8.6 kB	47 ms
41QZudCJ+jL_SR480,440_AC.jpg	200	jpeg	61xlcNKKLXLjs?AUIClients/Ar...	11.7 kB	32 ms
31hbQVtlrwL_SR480,440_AC.jpg	200	jpeg	61xlcNKKLXLjs?AUIClients/Ar...	8.5 kB	23 ms
ATVPDKIKX0DER:141-2003919-1826152:710DBH90H...	200	gif	cybermonday/?_encoding=U...	0.1 kB	147 ms
ATVPDKIKX0DER:141-2003919-1826152:710DBH90H...	200	gif	cybermonday/?_encoding=U...	0.1 kB	145 ms
ATVPDKIKX0DER:141-2003919-1826152:710DBH90H...	200	gif	cybermonday/?_encoding=U...	0.1 kB	153 ms
ATVPDKIKX0DER:141-2003919-1826152:710DBH90H...	200	gif	cybermonday/?_encoding=U...	0.1 kB	152 ms
uedata?rid=710DBH90HM527BC77HP2&sid=141-200...	200	text/html	cybermonday/?_encoding=U...	0.1 kB	247 ms
ATVPDKIKX0DER:141-2003919-1826152:710DBH90H...	204	text/plain	cybermonday/?_encoding=U...	0.1 kB	145 ms

Metrics: At the bottom, the metrics are summarized as follows:

- 335 / 418 requests
- 4,080 kB / 6,335 kB transferred
- 3,861 kB / 11,940 kB resources
- Finish: 2 min
- DOMContentLoaded: 2.25 s
- Load: 3.43 s

Second run

Screenshot of the Network tab in the Chrome DevTools Performance panel, showing network requests for a second run.

The Network tab is selected, and the "Img" filter is applied. The timeline shows several requests starting around 5,000 ms and continuing until 35,000 ms. The requests listed below are primarily images (jpeg) and text/html files.

Name	Status	Type	Initiator	Size	Time
4144BT3iZSL_SR480,440_AC.jpg	200	jpeg	11zuylp74DL_RC%7C11Y+5x...	23.5 kB	121 ms
31Q110CEdYL_SR480,440_AC.jpg	200	jpeg	61xJcNKKLXLjs?AUIClients/Ar...	12.0 kB	113 ms
21ICzwXQ6EL_SR480,440_AC.jpg	200	jpeg	11zuylp74DL_RC%7C11Y+5x...	6.6 kB	108 ms
4144BT3iZSL_SR480,440_AC.jpg	200	jpeg	61xJcNKKLXLjs?AUIClients/Ar...	23.3 kB	44 ms
31Uncrd-HhL_SR480,440_AC.jpg	200	jpeg	11zuylp74DL_RC%7C11Y+5x...	10.2 kB	45 ms
uedata?rid=4AYPVHZTP40YGAK5T3Y0&sid=141-2003...	200	text/html	cybermonday/? encoding=U...	0.1 kB	171 ms
21ICzwXQ6EL_SR480,440_AC.jpg	200	jpeg	61xJcNKKLXLjs?AUIClients/Ar...	6.4 kB	32 ms
41QZudCJ+jL_SR480,440_AC.jpg	200	jpeg	11zuylp74DL_RC%7C11Y+5x...	11.7 kB	38 ms
31Uncrd-HhL_SR480,440_AC.jpg	200	jpeg	61xJcNKKLXLjs?AUIClients/Ar...	10.2 kB	78 ms
31hbQVtlrwL_SR480,440_AC.jpg	200	jpeg	11zuylp74DL_RC%7C11Y+5x...	8.5 kB	78 ms
41QZudCJ+jL_SR480,440_AC.jpg	200	jpeg	61xJcNKKLXLjs?AUIClients/Ar...	11.7 kB	53 ms
31hbQVtlrwL_SR480,440_AC.jpg	200	jpeg	61xJcNKKLXLjs?AUIClients/Ar...	8.5 kB	35 ms
Serving?cn=cs&rtu=https%3A%2F%2Fs.amazon-adsys...	(failed) net::ER...		pr?exist=mp_nsln_n-sk_ns_n-	0.0 kB	92 ms
36840?redir=https%3A%2F%2Fs.amazon-adsystem.c...	(failed) net::ER...		pr?exist=mp_nsln_n-sk_ns_n-	0.0 kB	3.11 s
v2>tagid=V2_393725&AMAZON_REGION_SPECIFIC_E...	200	gif	pr?exist=mp_nsln_n-sk_ns_n-	0.1 kB	99 ms
sync?UIAM&redir=https%3A%2F%2Fs.amazon-adst...	(failed) net::ER...		pr?exist=mp_nsln_n-sk_ns_n-	0.0 kB	384 ms
load/?p=204&g=8888&j=0	204	text/plain	pr?exist=mp_nsln_n-sk_ns_n-	0.3 kB	278 ms
g.pixel?sid=9212284268	200	text/plain	pr?exist=mp_nsln_n-sk_ns_n-	0.5 kB	152 ms
pixel.gif?https://s.amazon-adsystem.com/ecm3?ex=lu...	200	text/plain	pr?exist=mp_nsln_n-sk_ns_n-	0.2 kB	162 ms
cookie_sync?https%3A%2F%2Fs.amazon-adsystem.co...	(failed) net::ER...		pr?exist=mp_nsln_n-sk_ns_n-	0.0 kB	1.66 s
ATVPDKIKX0DER:141-2003919-1826152:4AYPVHZTP4...	200	gif	cybermonday/? encoding=U...	0.1 kB	149 ms
uedata?rid=4AYPVHZTP40YGAK5T3Y0&sid=141-2003...	200	text/html	cybermonday/? encoding=U...	0.1 kB	157 ms
ATVPDKIKX0DER:141-2003919-1826152:4AYPVHZTP4...	204	text/plain	cybermonday/? encoding=U...	0.1 kB	219 ms

Metrics at the bottom:

- 176 / 256 requests
- 2,379 kB / 4,636 kB transferred
- 2,271 kB / 10,215 kB resources
- Finish: 32.71 s
- DOMContentLoaded: 3.67 s
- Load: 4.20 s

Screenshot of the Network tab in the Chrome DevTools showing network requests for a Cyber Monday page.

Network Tab Configuration:

- Preserve log:
- Disable cache:
- No throttling:

Filter: Invert | More filters ▾

Table Headers:

Name	Status	Type	Initiator	Size	Time
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Table Data:

21JUiRxUdL_RC%7C51q5QFeXw2L.css.css?AUIClients...	200	stylesheet	cybermonday/? encoding=UT	7.4 kB	32 ms
11T9EXq1JNL_RC%7C01KbPkJKMzL.css.41mvUzsVUUL....	200	stylesheet	cybermonday/? encoding=UT	30.0 kB	52 ms
51waPb-h-9L_RC%7C7s1Z15rZDsL.css.416EF9fibnL.css....	200	stylesheet	cybermonday/? encoding=UT	54.4 kB	107 ms
apePlacements-1.50.2ab670d3.css	200	stylesheet	cybermonday/? encoding=UT	3.7 kB	111 ms
51tWGL3gZBL.css	200	stylesheet	cybermonday/? encoding=UT	13.6 kB	1.04 s
11ZxbGB3PBL.css?AUIClients/WebFlowIngressJs	200	stylesheet	cybermonday/? encoding=UT	1.2 kB	1.98 s

Bottom Status Bar:

6 / 255 requests | 110 kB / 4,635 kB transferred | 900 kB / 10,215 kB resources | Finish: 21.34 s | DOMContentLoaded: 3.67 s | Load: 4.20 s

Screenshot of the Network tab in the Chrome DevTools showing network requests for a Cyber Monday page.

Network Tab Configuration:

- Preserve log:
- Disable cache:
- No throttling:

Table Headers:

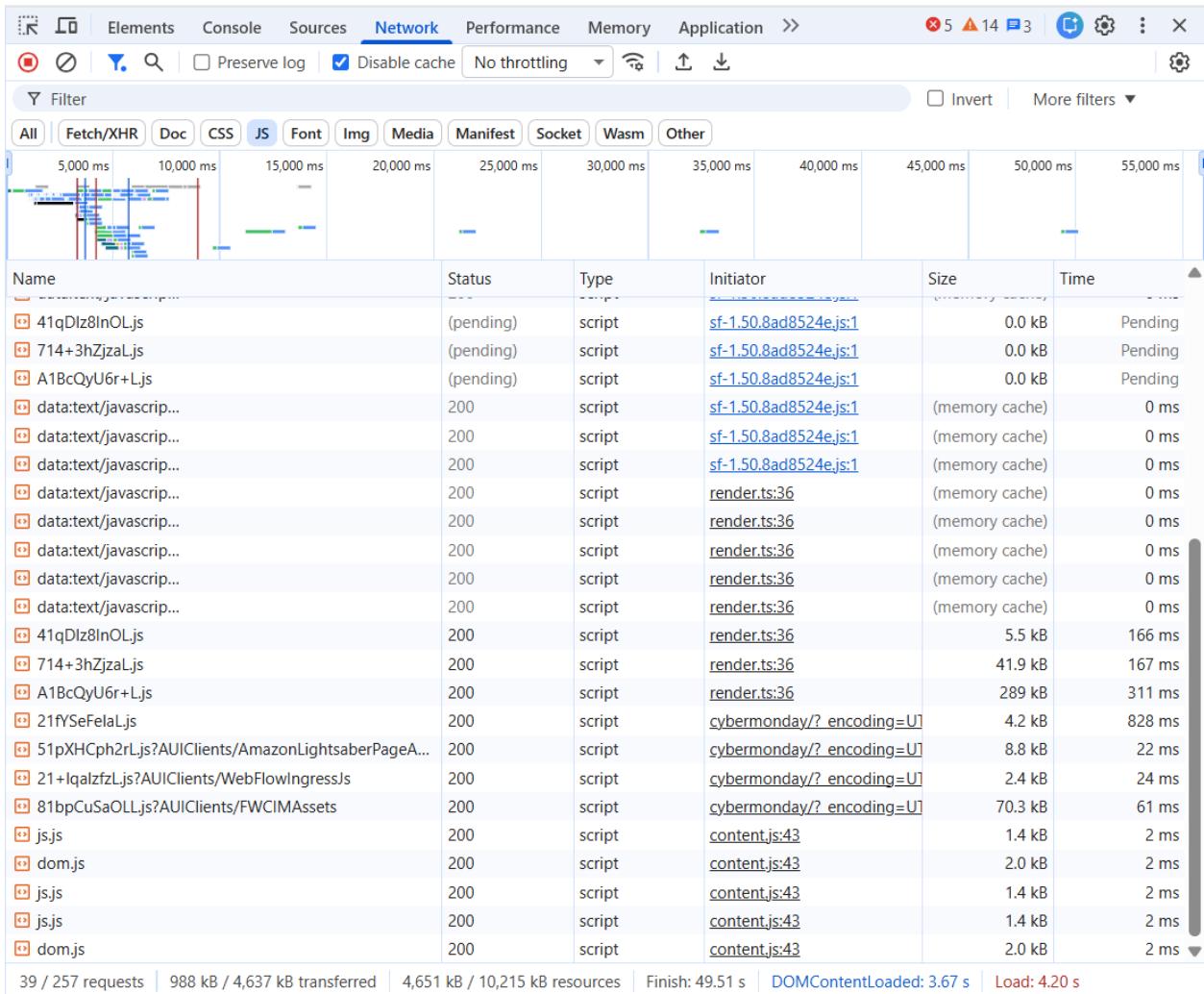
Name	Status	Type	Initiator	Size	Time
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Table Data:

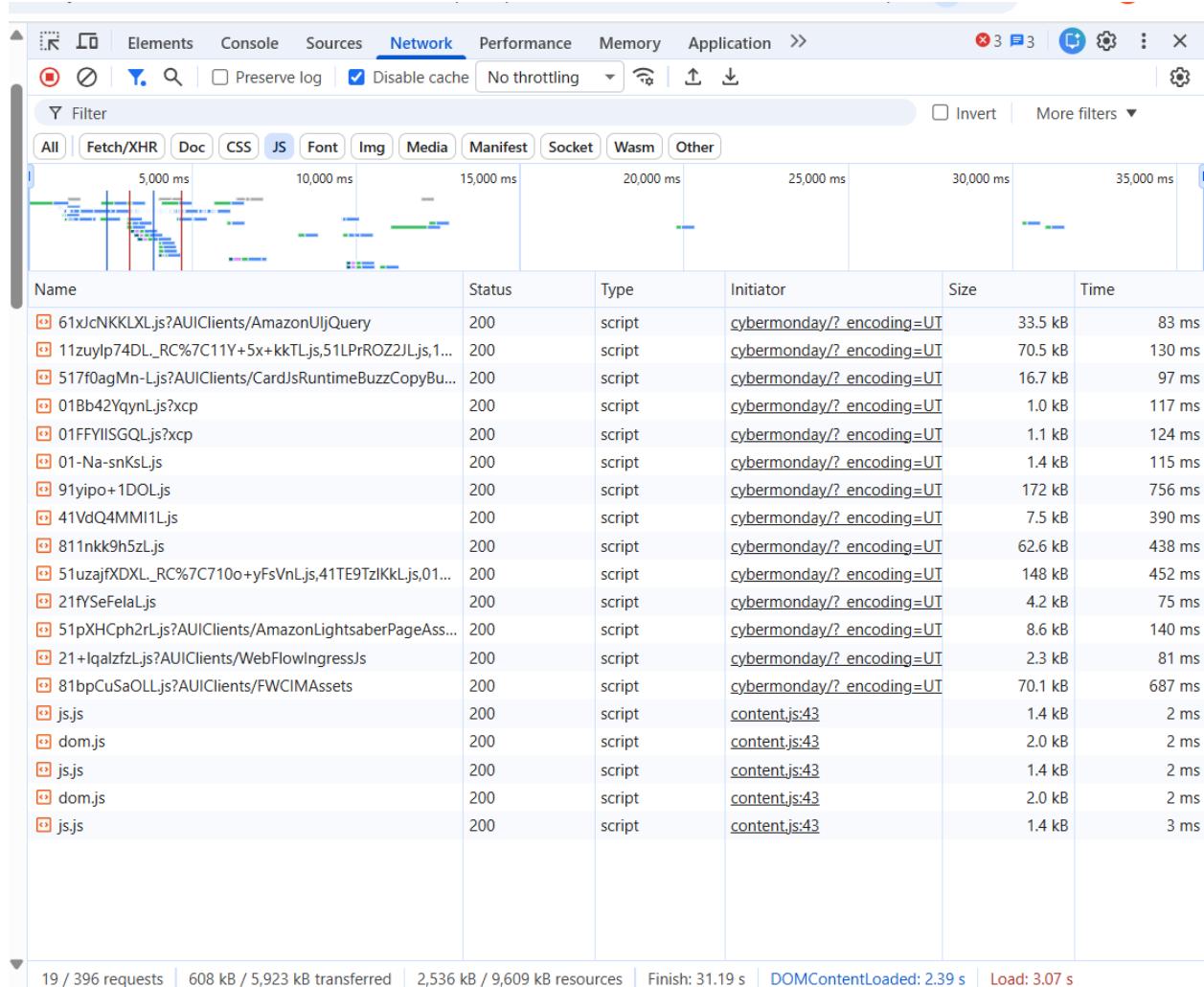
31wnl7N16L_SR480.440_AC.jpg	200	jpeg	61x1nKKKLXLjs?AUIClients/Ar	7.8 kB	26 ms
ATVPDKIKX0DER141-2003919-18261524AYPV0DZTP4..._SR480.440_AC.jpg	200	gif	cybermonday/? encoding=U	0.1 kB	154 ms
31Wqy0T4DL_SR480.440_AC.jpg	200	jpeg	11zuyd74DL_RC%7C11Y+5x	152 kB	44 ms
31Q110CEdL_SR480.440_AC.jpg	200	jpeg	61x1nKKKLXLjs?AUIClients/Ar	10.4 kB	67 ms
nav-sprite-global-2x-reco-privacy_CB779528203.png	200	png	11zuyd74DL_RC%7C11Y+5x	12.1 kB	83 ms
414HD7yOfdl_SR480.440_AC.jpg	200	jpeg	61x1nKKKLXLjs?AUIclients/Ar	15.1 kB	115 ms
311GBT3ZSL_SR480.440_AC.jpg	200	jpeg	11zuyd74DL_RC%7C11Y+5x	23.5 kB	121 ms
31Q110CEdL_SR480.440_AC.jpg	200	jpeg	61x1nKKKLXLjs?AUIClients/Ar	12.0 kB	113 ms
21CwzXG6EL_SR480.440_AC.jpg	200	jpeg	11zuyd74DL_RC%7C11Y+5x	6.6 kB	108 ms
4144BT3ZSL_SR480.440_AC.jpg	200	jpeg	61x1nKKKLXLjs?AUIClients/Ar	23.3 kB	44 ms
31Uncrd-Hnl_SR480.440_AC.jpg	200	jpeg	11zuyd74DL_RC%7C11Y+5x	102 kB	45 ms
uedatafhd=141-2003919-18261524AYPV0DZTP4..._SR480.440_AC.jpg	200	text/html	cybermonday/? encoding=U	0.1 kB	171 ms
21CwzXG6EL_SR480.440_AC.jpg	200	jpeg	61x1nKKKLXLjs?AUIClients/Ar	6.4 kB	32 ms
41CZudCj+L_SR480.440_AC.jpg	200	jpeg	11zuyd74DL_RC%7C11Y+5x	11.7 kB	38 ms
31Uncrd-Hnl_SR480.440_AC.jpg	200	jpeg	61x1nKKKLXLjs?AUIClients/Ar	10.2 kB	78 ms
31nbQVtrvl_SR480.440_AC.jpg	200	jpeg	11zuyd74DL_RC%7C11Y+5x	8.5 kB	78 ms
41CZudCj+L_SR480.440_AC.jpg	200	jpeg	61x1nKKKLXLjs?AUIClients/Ar	11.7 kB	53 ms
31nbQVtrvl_SR480.440_AC.jpg	200	jpeg	11zuyd74DL_RC%7C11Y+5x	8.5 kB	35 ms
51px1Ch2Ljs?AUIClients/AmazonLightsaberPageA..._SR480.440_AC.jpg	(pending)	script	cybermonday/? encoding=U	0.0 kB	Pending
21+lqlbzLjs?AUIClients/WebFlowIngressJs	(pending)	script	cybermonday/? encoding=U	0.0 kB	Pending
81tpCuSaOLLjs?AUIClients/FWCIMAssets	(pending)	script	cybermonday/? encoding=U	0.0 kB	Pending

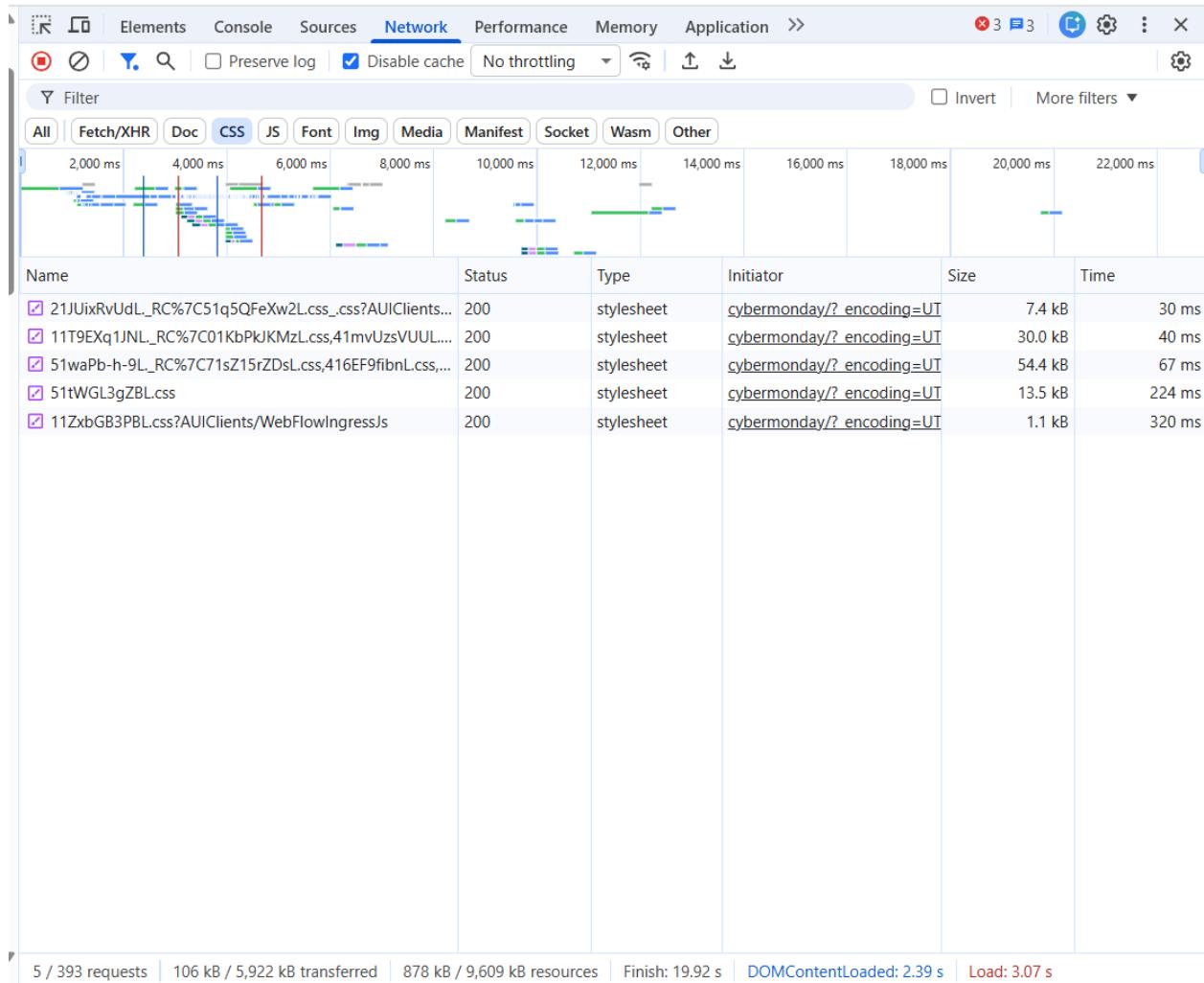
Bottom Status Bar:

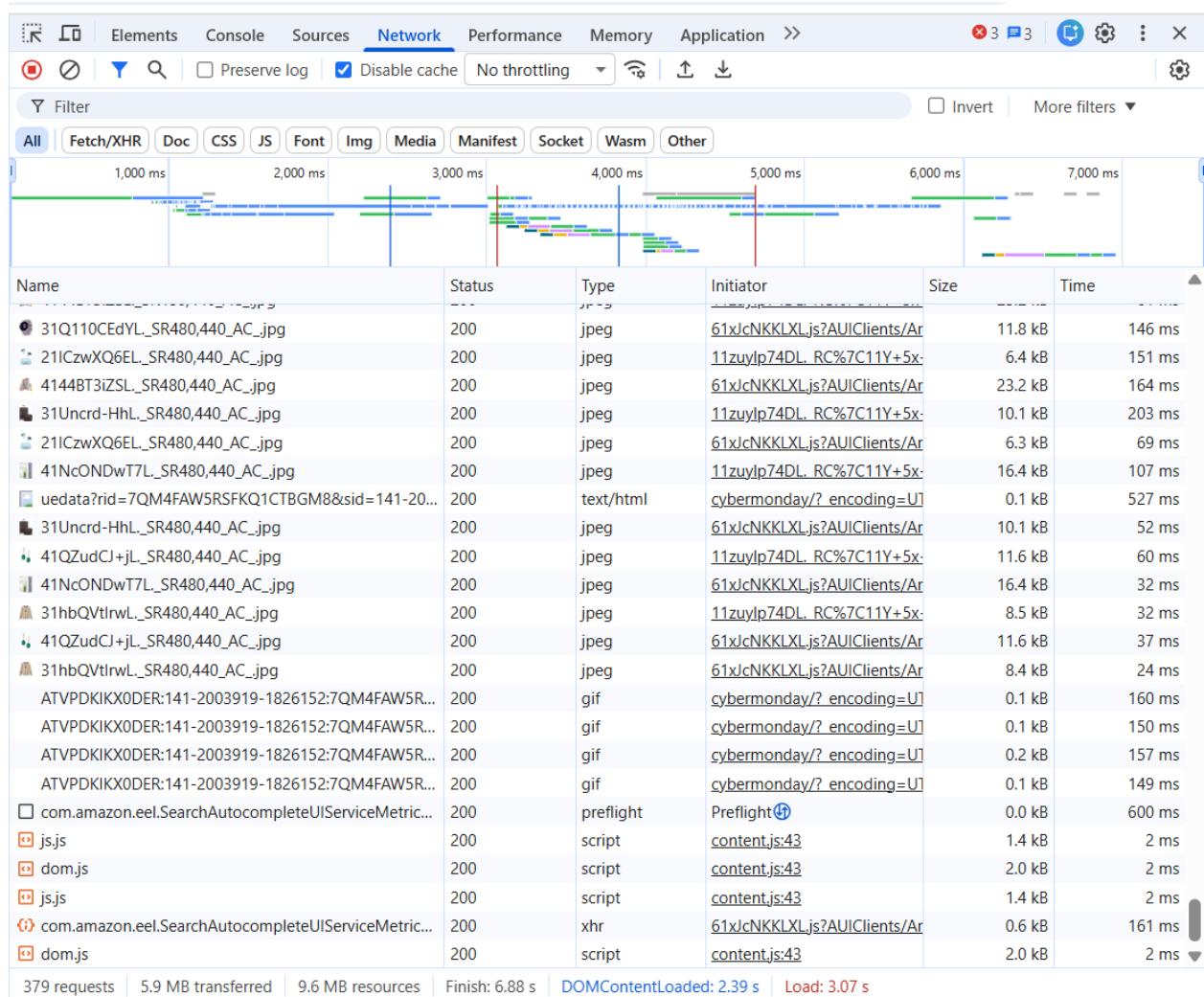
232 requests | 4.5 MB transferred | 9.9 MB resources | Finish: 5.66 s | DOMContentLoaded: 3.67 s | Load: 4.20 s

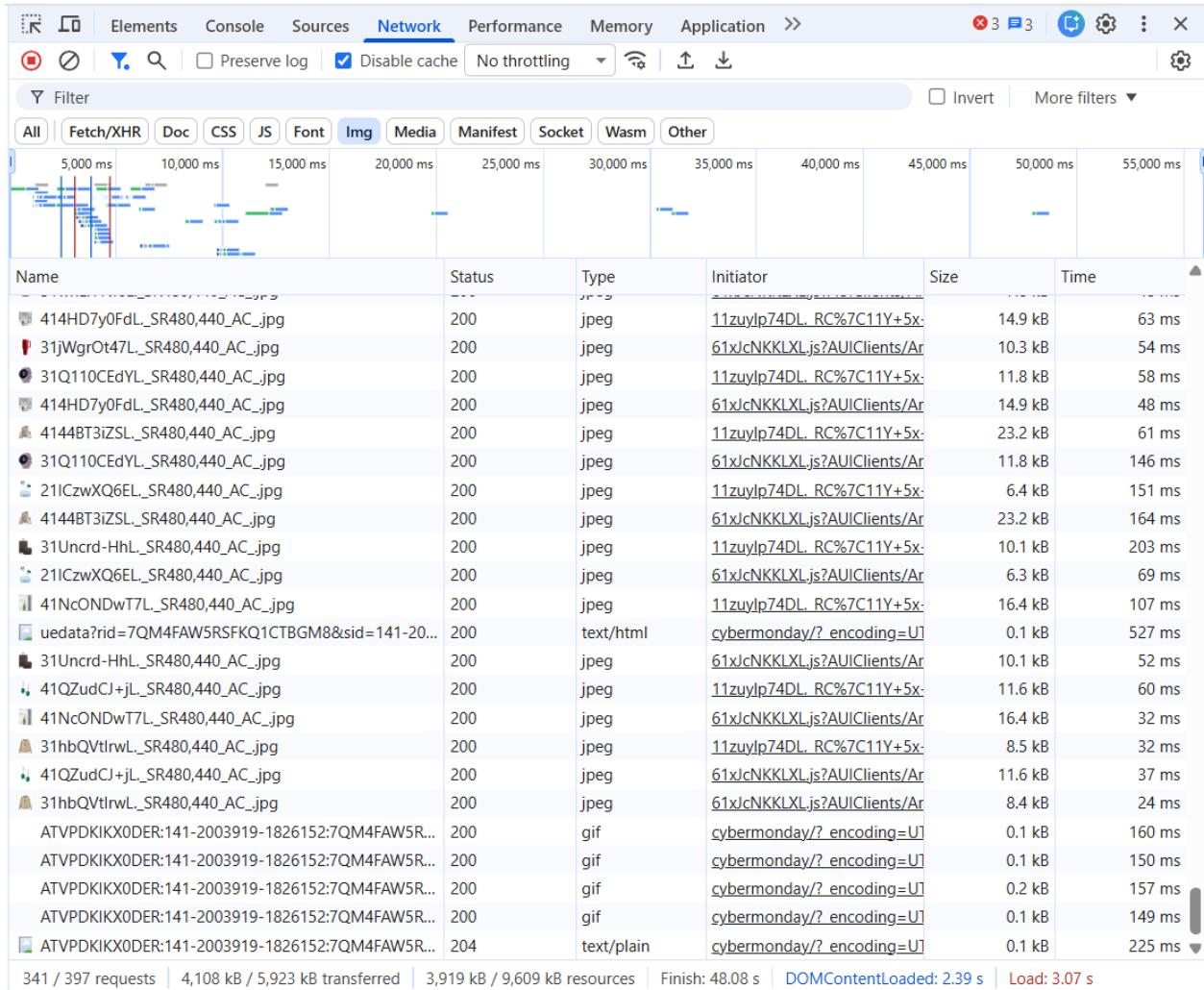


Third run









The main

The screenshot shows the Chrome DevTools Performance tab with the 'Live metrics' panel selected. On the left, there's a sidebar for filtering deals by category like 'Today's Big Deals', 'Department' (All, Amazon Devices & Accessories, Beauty & Personal Care, Clothing, Shoes & Jewelry, Electronics), 'Brands' (OURA, Nex, Samsung, Xbox), and 'Customer Reviews'. The main area displays several product cards with discounts and end times. On the right, the 'Local metrics' section shows 'Largest Contentful Paint (LCP)' at 1.59s and 'Cumulative Layout Shift (CLS)' at 0.90. The 'Interactions' section shows an INP value of 16ms. The 'Next steps' section provides options to 'Set up' field metrics and 'Record' or 'Record and reload' interactions.

2. Galala University

Website Performance Audit: Galala University (Educational Institution)

1. Website Document Details

Detail	Data
Complete Homepage URL	https://www.gu.edu.eg/
Server Location (if identifiable)	Ain Sukhna, Suez, Egypt
Content Management System (CMS)	WordPress 6.6.1
Programming Language/Database	PHP / MySQL
E-commerce Platform	WooCommerce 9.1.4
Frontend Frameworks	GSAP, jQuery 3.7.1, Isotope

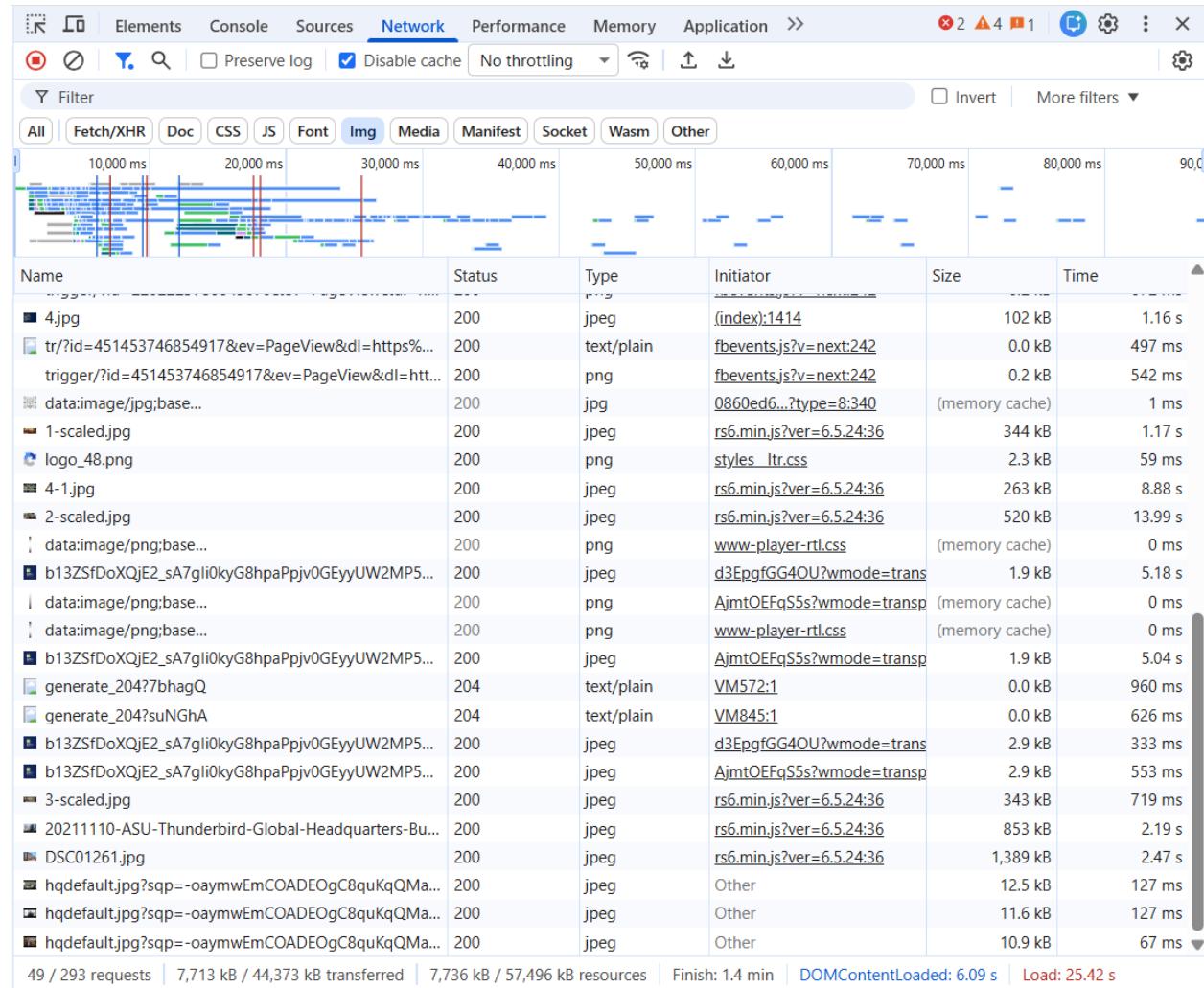
2. DevTools Performance Measurements (3-Run Average)

The following table presents the key performance metrics recorded from three separate hard-refreshes of the Galala University homepage.

Metric	Run 1	Run 2	Run 3	Average (3 Runs)
Load Time	25.42 s	28.16 s	16.92 s	23.50 s
Finish Time	28.20 s	29.70 s	20.88 s	26.26 s
Total Transferred Size	18.7 MB	35.0 MB	28.2 MB	27.30 MB
Total Requests	251	249	245	248
Number of Images	49	47	47	48
Number of JS Files	82	78	81	80
Number of CSS Files	33	33	33	33

screenshots of Network tab

Frist



Screenshot of the Network tab in the Chrome DevTools Performance panel. The timeline shows numerous requests, primarily CSS files, being loaded. The table below details the resources:

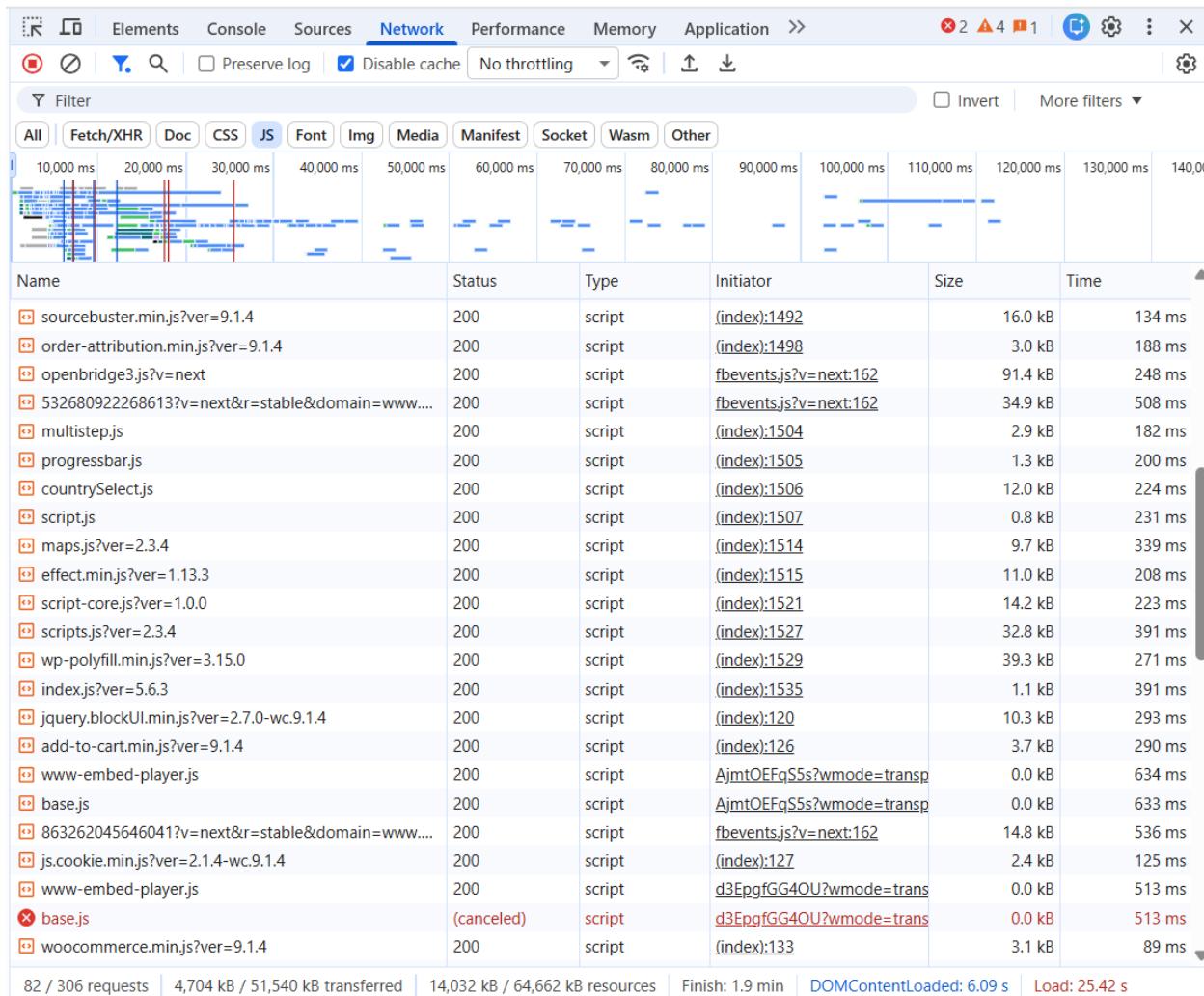
Name	Status	Type	Initiator	Size	Time
style.min.css?ver=2.0.0	200	stylesheet	(index):99	0.8 kB	1.27 s
woocommerce-layout.css?ver=9.1.4	200	stylesheet	(index):100	3.1 kB	1.28 s
woocommerce-smallscreen.css?ver=9.1.4	200	stylesheet	(index):101	1.7 kB	1.84 s
woocommerce.css?ver=9.1.4	200	stylesheet	(index):102	10.5 kB	1.93 s
uacf7-frontend.css?ver=6.6.1	200	stylesheet	(index):106	0.5 kB	1.80 s
multistep.css?ver=6.6.1	200	stylesheet	(index):107	1.7 kB	2.22 s
countrySelect.min.css?ver=6.6.1	200	stylesheet	(index):108	21.0 kB	2.30 s
style.css?ver=6.6.1	200	stylesheet	(index):109	0.6 kB	2.30 s
style.css?ver=7.5.3	200	stylesheet	(index):110	1.7 kB	2.31 s
frontend.css?ver=6.6.1	200	stylesheet	(index):111	1.5 kB	2.31 s
style-core.css?ver=6.6.1	200	stylesheet	(index):112	18.6 kB	2.57 s
kingster-style-custom.css?1739089428&ver=6.6.1	200	stylesheet	(index):113	14.8 kB	2.42 s
style.css?ver=2.3.4	200	stylesheet	(index):114	1.1 kB	2.39 s
kingster-learnpress.css?ver=6.6.1	200	stylesheet	(index):115	11.3 kB	2.54 s
kingster-learnpress-pb.css?ver=6.6.1	200	stylesheet	(index):116	3.0 kB	2.40 s
css?family=Montserrat:700%2C600%2C300%7CRoboto...	200	stylesheet	(index):1439	1.7 kB	231 ms
wc-blocks.css?ver=wc-9.1.4	200	stylesheet	(index):1451	3.1 kB	152 ms
rs6.css?ver=6.5.24	200	stylesheet	(index):1452	12.9 kB	192 ms
www-player-rtl.css	200	stylesheet	AjmtOEfqSS5?wmode=transp	60.1 kB	1.16 s
www-player-rtl.css	200	stylesheet	d3EpgfGG4OU?wmode=trans	60.1 kB	1.00 s
www-player-rtl.css	200	stylesheet	AjmtOEfqSS5?wmode=transp	60.1 kB	1.44 s
www-player-rtl.css	200	stylesheet	d3EpgfGG4OU?wmode=trans	60.1 kB	1.16 s
styles_ltr.css	200	stylesheet	anchor?ar=1&k=6Lf6nDIAA	42.5 kB	189 ms

33 / 274 requests | 628 kB / 38,172 kB transferred | 3,328 kB / 51,295 kB resources | Finish: 52.19 s | DOMContentLoaded: 6.09 s | Load: 25.42 s

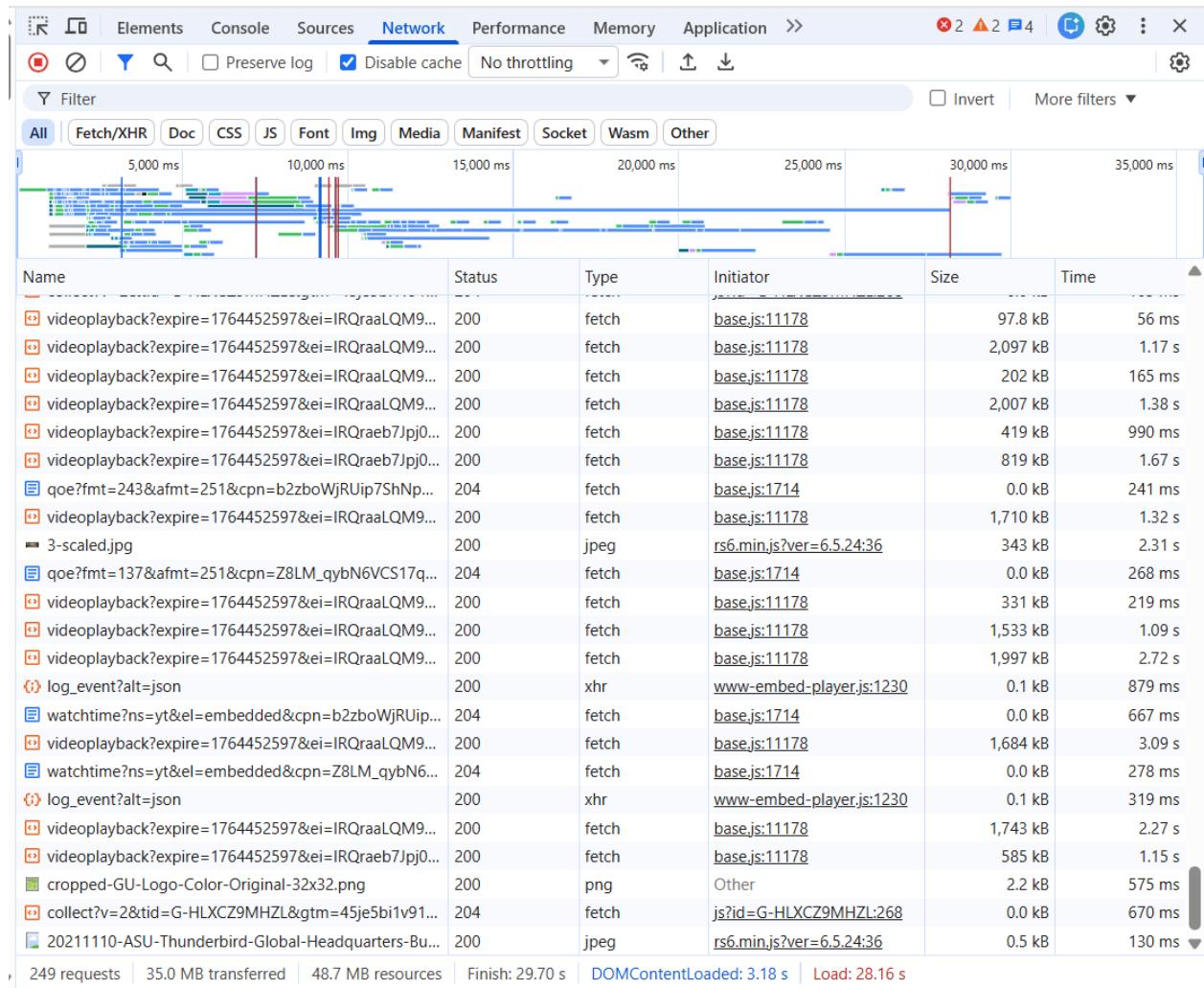
Screenshot of the Network tab in the Chrome DevTools Performance panel, showing a different set of requests compared to the first screenshot. The timeline shows various video playback and static file requests.

Name	Status	Type	Initiator	Size	Time
videoplayback?expire=1764452367&ei=nxMriblyE7m...	200	fetch	base.js:11178	260 kB	1.11 s
videoplayback?expire=1764452367&ei=nxMraf3hEN2...	200	fetch	base.js:11178	1.2 kB	1.12 s
- scaled.jpg	200	jpeg	r5b.mjn.js?ver=6.5.2436	343 kB	719 ms
videoplayback?expire=1764452367&ei=nxMriblyE7m...	200	fetch	base.js:11178	186 kB	374 ms
videoplayback?expire=1764452367&ei=nxMraf3hEN2...	200	fetch	base.js:11178	1,064 kB	1.89 s
attr?ns=y&el=embedded&cpr=uJGHfHxpbz9hF&...	204	xhr	base.js:11709	0.0 kB	120 ms
videoplayback?expire=1764452367&ei=nxMriblyE7m...	200	fetch	base.js:11178	543 kB	1.01 s
videoplayback?expire=1764452367&ei=nxMraf3hEN2...	200	fetch	base.js:11178	1.2 kB	266 ms
videoplayback?expire=1764452367&ei=nxMraf3hEN2...	200	fetch	base.js:11178	4.2 kB	47 ms
watchtime?ns=y&el=embedded&cpr=uaTGHHfxzp...	204	fetch	base.js:1714	0.0 kB	168 ms
cropped-GU-Logo-Color-Original-32x32.png	200	png	Other	2.2 kB	136 ms
videoplayback?expire=1764452367&ei=nxMriblyE7m...	200	fetch	base.js:11178	386 kB	479 ms
videoplayback?expire=1764452367&ei=nxMraf3hEN2...	200	fetch	base.js:11178	65.6 kB	92 ms
qoe?fmt=134&afmt=251&cpr=uJGHfHxpbz9hF&...	204	fetch	base.js:1714	0.0 kB	125 ms
videoplayback?expire=1764452367&ei=nxMraf3hEN2...	200	fetch	base.js:11178	147 kB	670 ms
videoplayback?expire=1764452367&ei=nxMraf3hEN2...	200	fetch	base.js:11178	65.6 kB	390 ms
videoplayback?expire=1764452367&ei=nxMraf3hEN2...	200	fetch	base.js:11178	147 kB	173 ms
videoplayback?expire=1764452367&ei=nxMraf3hEN2...	200	fetch	base.js:11178	424 kB	364 ms
videoplayback?expire=1764452367&ei=nxMraf3hEN2...	200	fetch	base.js:11178	65.6 kB	69 ms
videoplayback?expire=1764452367&ei=nxMraf3hEN2...	200	fetch	base.js:11178	69.2 kB	48 ms
videoplayback?expire=1764452367&ei=nxMraf3hEN2...	200	fetch	base.js:11178	165 kB	87 ms
qoe?fmt=137&afmt=251&cpr=uJGHfHxpbz9hF&...	204	fetch	base.js:1714	0.0 kB	191 ms
videoplayback?expire=1764452367&ei=nxMraf3hEN2...	200	fetch	base.js:11178	390 kB	343 ms

251 requests | 18.7 MB transferred | 31.8 MB resources | Finish: 28.20 s | DOMContentLoaded: 6.09 s | Load: 25.42 s



Second



Screenshot of the Network tab in the Chrome DevTools Performance panel. The timeline shows various network requests and their durations. The table below lists the resources and their details.

Network Tab Filter: All, Fetch/XHR, Doc, **CSS**, JS, Font, Img, Media, Manifest, Socket, Wasm, Other. Preserve log is checked, Disable cache is checked, No throttling is selected.

Table Headers: Name, Status, Type, Initiator, Size, Time.

Table Data:

Name	Status	Type	Initiator	Size	Time
style.min.css?ver=2.0.0	200	stylesheet	(index):90	0.6 kB	381 ms
woocommerce-layout.css?ver=9.1.4	200	stylesheet	(index):91	3.1 kB	408 ms
woocommerce-smallscreen.css?ver=9.1.4	200	stylesheet	(index):92	1.7 kB	462 ms
woocommerce.css?ver=9.1.4	200	stylesheet	(index):93	10.5 kB	480 ms
uacf7-frontend.css?ver=6.6.1	200	stylesheet	(index):97	0.5 kB	468 ms
multistep.css?ver=6.6.1	200	stylesheet	(index):98	1.7 kB	490 ms
countrySelect.min.css?ver=6.6.1	200	stylesheet	(index):99	3.3 kB	512 ms
style.css?ver=6.6.1	200	stylesheet	(index):100	0.6 kB	517 ms
style.css?ver=7.5.3	200	stylesheet	(index):101	1.7 kB	528 ms
frontend.css?ver=6.6.1	200	stylesheet	(index):102	1.5 kB	561 ms
style-core.css?ver=6.6.1	200	stylesheet	(index):103	18.6 kB	607 ms
kingster-style-custom.css?1739089428&ver=6.6.1	200	stylesheet	(index):104	14.8 kB	580 ms
style.css?ver=2.3.4	200	stylesheet	(index):105	1.1 kB	599 ms
kingster-learnpress.css?ver=6.6.1	200	stylesheet	(index):106	11.3 kB	600 ms
kingster-learnpress-pb.css?ver=6.6.1	200	stylesheet	(index):107	3.0 kB	607 ms
css?family=Montserrat:700%2C600%2C300%7CRoboto...	200	stylesheet	(index):1430	1.7 kB	79 ms
wc-blocks.css?ver=wc-9.1.4	200	stylesheet	(index):1442	3.1 kB	54 ms
rs6.css?ver=6.5.24	200	stylesheet	(index):1443	12.9 kB	58 ms
www-player-rtl.css	200	stylesheet	AjmtOEFqS5s?wmode=transp	60.1 kB	581 ms
www-player-rtl.css	200	stylesheet	d3EpgfGG4QU?wmode=trans	60.1 kB	531 ms
www-player-rtl.css	200	stylesheet	AjmtOEFqS5s?wmode=transp	60.1 kB	841 ms
www-player-rtl.css	200	stylesheet	d3EpgfGG4QU?wmode=trans	60.1 kB	776 ms
styles_ltr.css	200	stylesheet	anchor?ar=1&k=6Lf6nDMIAA	42.5 kB	2.95 s

33 / 260 requests | 466 kB / 44,276 kB transferred | 3,328 kB / 58,021 kB resources | Finish: 49.20 s | DOMContentLoaded: 3.18 s | Load: 28.16 s

Elements Console Sources Network Performance Memory Application > x 2 ▲ 2 ⚡ 4

Preserve log Disable cache No throttling Wi-Fi Upload Download

Filter Invert More filters

All Fetch/XHR Doc CSS JS Font Img Media Manifest Socket Wasm Other

10,000 ms 20,000 ms 30,000 ms 40,000 ms 50,000 ms 60,000 ms 70,000 ms 80,000 ms 90,000 ms

Name	Status	Type	Initiator	Size	Time
js.js	200	script	content.js:43	1.4 kB	2 ms
dom.js	200	script	content.js:43	2.0 kB	2 ms
js?id=G-HLXCZ9MHZL&cx=c>m=4e5bi1h1	200	script	gtm.js?id=GTM-MCFS6TZ:136	163 kB	685 ms
451453746854917?v=next&r=stable&domain=www....	200	script	fbevents.js?v=next:162	16.8 kB	443 ms
recaptcha_en_gb.js	200	script	anchor?ar=1&k=6Lf6nDMIAA	355 kB	3.72 s
common.js	200	script	js?libraries=geometry%2Cpla...	37.6 kB	756 ms
util.js	200	script	js?libraries=geometry%2Cpla...	71.9 kB	930 ms
ad_status.js	200	script	www-embed-player.js:1869	0.1 kB	231 ms
ad_status.js	200	script	www-embed-player.js:1869	0.1 kB	216 ms
embed.js	200	script	base.js:6387	9.7 kB	95 ms
embed.js	200	script	base.js:6387	9.7 kB	234 ms
remote.js	200	script	base.js:6387	36.5 kB	215 ms
captions.js	200	script	base.js:6387	27.0 kB	211 ms
endscreen.js	200	script	base.js:6387	8.6 kB	181 ms
annotations_module.js	200	script	base.js:6387	19.8 kB	213 ms
endscreen.js	200	script	base.js:6387	8.6 kB	119 ms
annotations_module.js	200	script	base.js:6387	19.8 kB	120 ms
webworker.js?hl=en-GB&v=TkacYOdEJbdB_jjX802T...	200	script	Other	0.0 kB	601 ms
cast_sender.js	200	script	base.js:2110	2.0 kB	82 ms
cast_sender.js	200	script	cast_sender.js:10	13.8 kB	55 ms
hT-AVWW7qb0XDBUYRh9rOTMuek4ginmB6Eq0e6pE...	200	script	www-embed-player.js:833	22.2 kB	101 ms
hT-AVWW7qb0XDBUYRh9rOTMuek4ginmB6Eq0e6pE...	200	script	www-embed-player.js:833	22.2 kB	137 ms
js.js	200	script	content.js:43	1.4 kB	2 ms

78 / 270 requests | 4,035 kB / 49,563 kB transferred | 13,680 kB / 63,318 kB resources | Finish: 1.2 min | DOMContentLoaded: 3.18 s | Load: 28.16 s

Screenshot of the Network tab in the Chrome DevTools Performance panel.

Network Tab Options:

- Elements, Console, Sources, **Network**, Performance, Memory, Application, >
- Preserve log, Disable cache, No throttling, Invert, More filters

Filter Bar:

- All, Fetch/XHR, Doc, CSS, JS, Font, **Img**, Media, Manifest, Socket, Wasm, Other

Timeline:

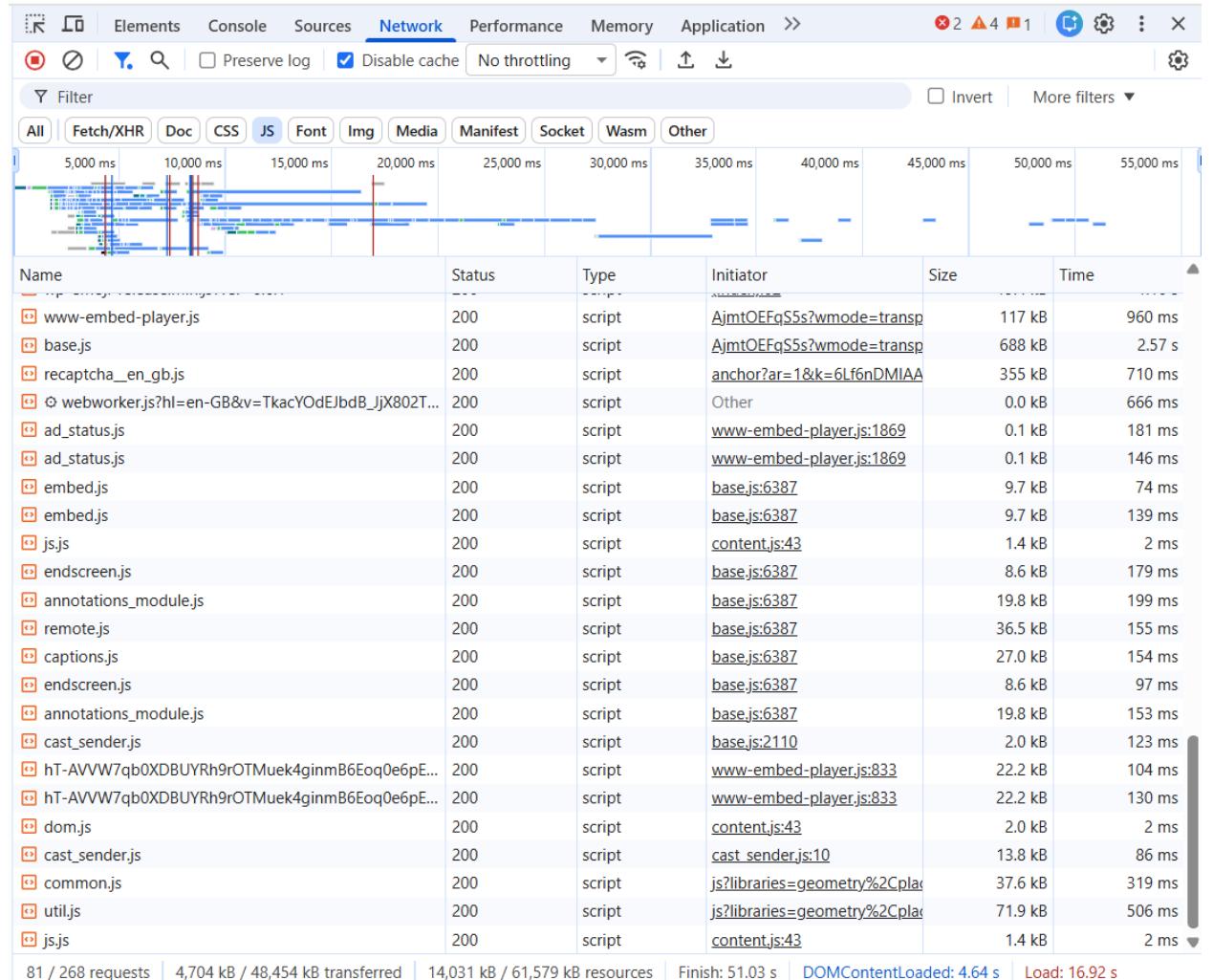
The timeline shows network requests over time, with major ticks at 10,000 ms intervals from 10,000 ms to 90,000 ms. Requests are color-coded by initiator.

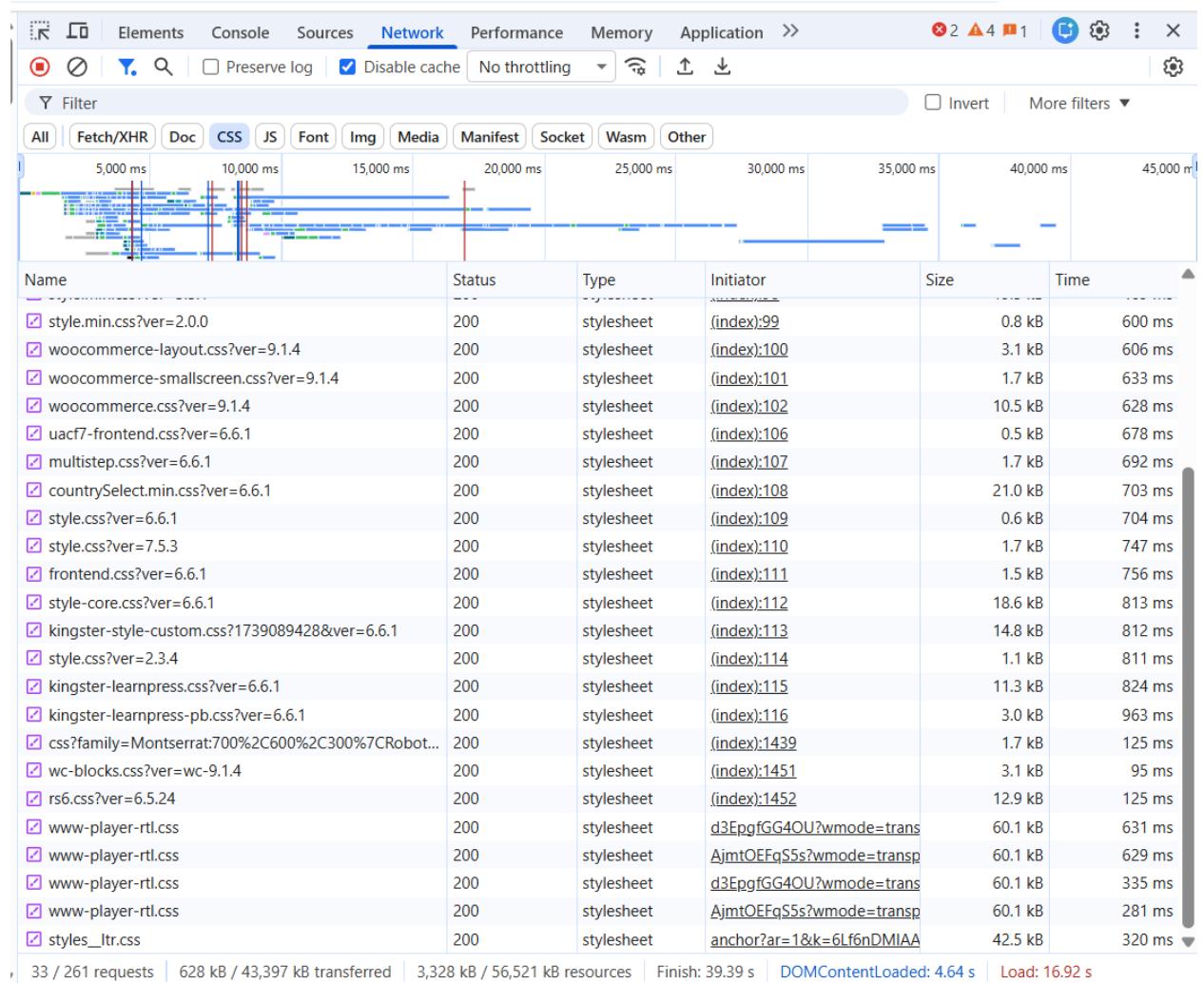
Table:

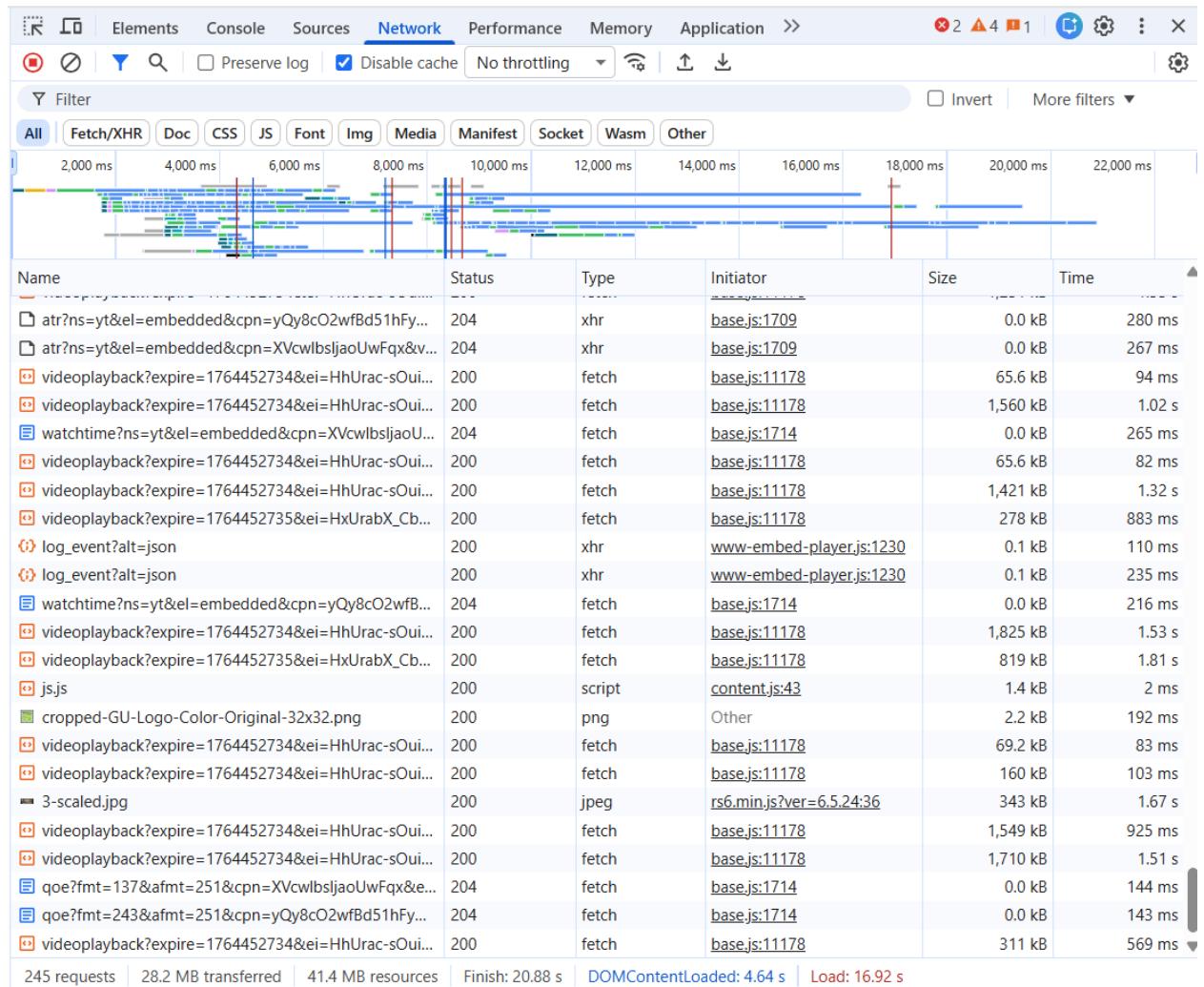
Name	Status	Type	Initiator	Size	Time
trigger/?id=863262045646041&ev=PageView&dl=https://...	200	png	fbevents.js?v=next:242	0.2 kB	230 ms
tr/?id=2202225786649670&ev=PageView&dl=https://...	200	text/plain	fbevents.js?v=next:242	0.0 kB	244 ms
trigger/?id=2202225786649670&ev=PageView&dl=https://...	200	png	fbevents.js?v=next:242	0.2 kB	441 ms
1-scaled.jpg	200	jpeg	rs6.min.js?ver=6.5.24:36	344 kB	6.25 s
ga-audiences?v=1&t=sr&slf_rd=1&r=4&tid=G-HLX...	200	gif	js?id=G-HLXCZ9MHZL:271	0.1 kB	3.38 s
tr/?id=451453746854917&ev=PageView&dl=https%...	200	text/plain	fbevents.js?v=next:242	0.0 kB	252 ms
trigger/?id=451453746854917&ev=PageView&dl=https%...	200	png	fbevents.js?v=next:242	0.2 kB	328 ms
data:image/png;base...	200	png	AjmtOEfqS5s?wmode=transp	(memory cache)	0 ms
data:image/png;base...	200	png	www-player-rtl.css	(memory cache)	0 ms
b13ZSfDoXQjE2_sA7gli0kyG8hpaPpjv0GEyyUW2MP5...	200	jpeg	AjmtOEfqS5s?wmode=transp	1.9 kB	374 ms
data:image/png;base...	200	png	www-player-rtl.css	(memory cache)	0 ms
b13ZSfDoXQjE2_sA7gli0kyG8hpaPpjv0GEyyUW2MP5...	200	jpeg	d3EpgfGG4OU?wmode=trans	1.9 kB	251 ms
logo_48.png	200	png	styles_ltr.css	2.3 kB	77 ms
b13ZSfDoXQjE2_sA7gli0kyG8hpaPpjv0GEyyUW2MP5...	200	jpeg	Other	2.9 kB	66 ms
b13ZSfDoXQjE2_sA7gli0kyG8hpaPpjv0GEyyUW2MP5...	200	jpeg	Other	2.9 kB	65 ms
4-1.jpg	200	jpeg	rs6.min.js?ver=6.5.24:36	263 kB	729 ms
2-scaled.jpg	200	jpeg	rs6.min.js?ver=6.5.24:36	520 kB	3.84 s
generate_2047SH5z2Q	204	text/plain	VM1344:1	0.0 kB	67 ms
generate_2047WTdvqw	204	text/plain	VM1420:1	0.0 kB	65 ms
3-scaled.jpg	200	jpeg	rs6.min.js?ver=6.5.24:36	343 kB	2.31 s
20211110-ASU-Thunderbird-Global-Headquarters-Bu...	200	jpeg	rs6.min.js?ver=6.5.24:36	853 kB	1.46 s
DSC01261.jpg	200	jpeg	rs6.min.js?ver=6.5.24:36	1,389 kB	937 ms
ga-audiences?v=1&t=sr&slf_rd=1&r=4&tid=G-HLX...	200	gif	js?id=G-HLXCZ9MHZL:271	0.1 kB	280 ms

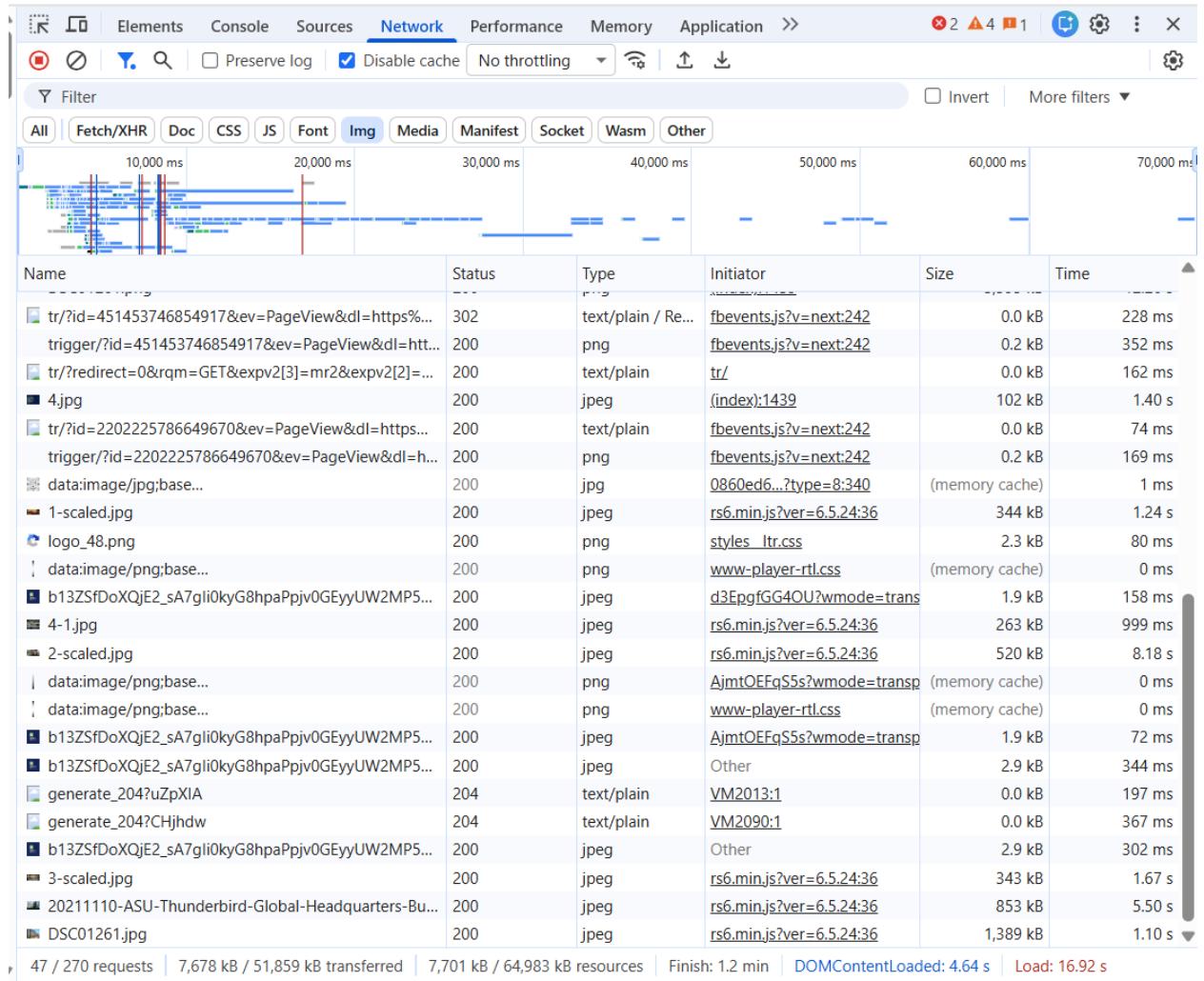
47 / 277 requests | 7,678 kB / 56,634 kB transferred | 7,665 kB / 70,378 kB resources | Finish: 1.4 min | DOMContentLoaded: 3.18 s | Load: 28.16 s

Third









3. BBC SPORT

DevTools Performance Measurements (3-Run Average)

The following table combines the data from your three separate runs on the BBC Sport homepage.

Metric	Run 1	Run 2	Run 3	Average (3 Runs)
Load Time (Time for page to render content)	20.05 s	2.71 s	4.81 s	9.19 s

Metric	Run 1	Run 2	Run 3	Average (3 Runs)
Finish Time (Time for network activity to stabilize)	1.5 min	33.21 s	24.21 s	49.14 s
Total Transferred Size	3.9 MB	4.3 MB	3.8 MB	4.0 MB
Total Requests	237	255	233	242
Number of Images	44	43	43	43.3
Number of JS Files	107	112	106	108.3
Number of CSS Files	0	0	0	0

Website Performance Audit: BBC Sport (News/Media Outlet)

1. Website Document Details

Detail	Data
Complete Homepage URL	https://www.bbc.com/sport
Server Location (if identifiable)	United Kingdom (UK)
Technology Stack (Deduced)	Custom/Proprietary BBC Architecture
Frontend Frameworks	Mixed/Custom. Highly optimized, custom libraries designed for massive scale and traffic common in large media organizations.

screenshots of Network tab

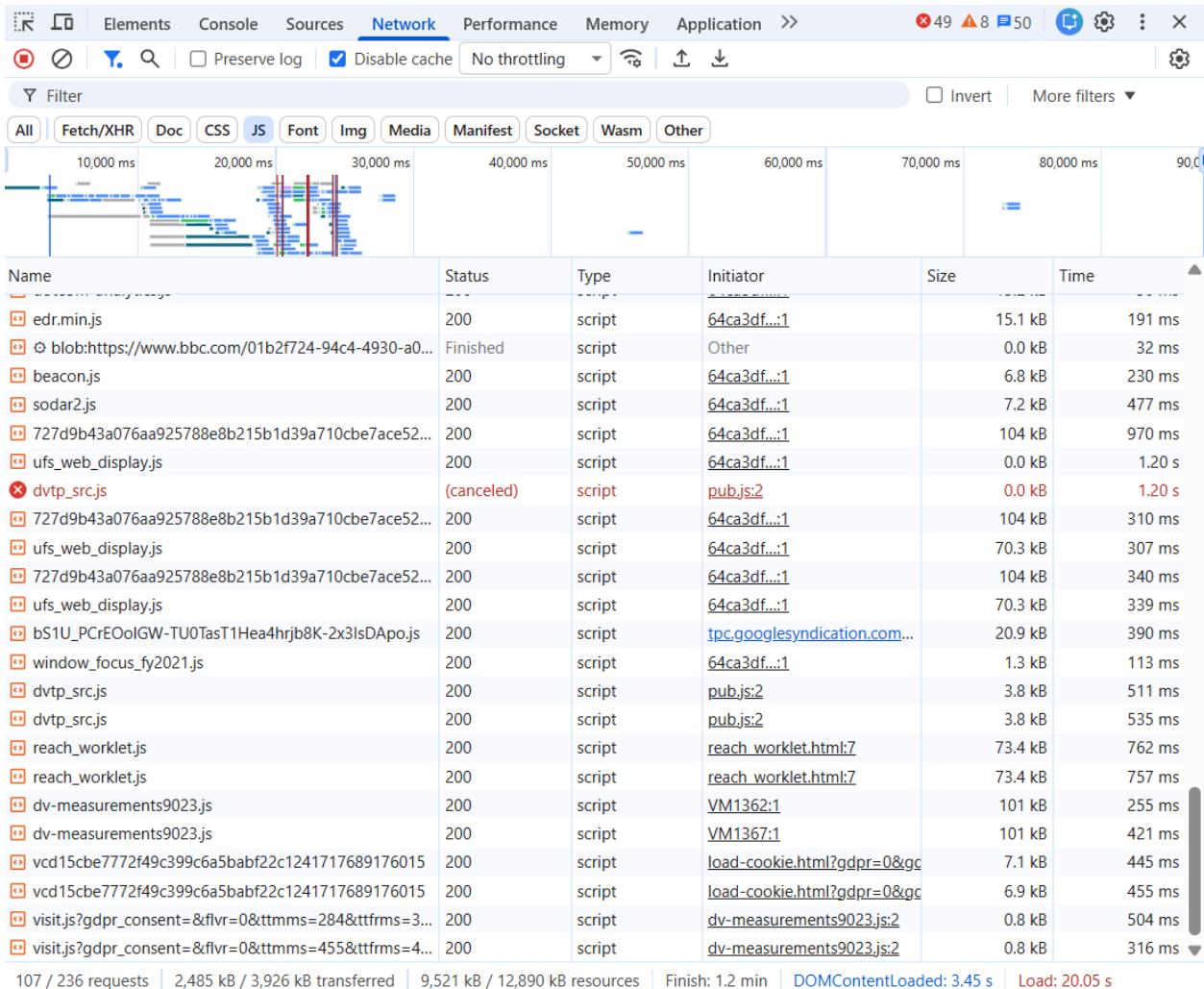
First run

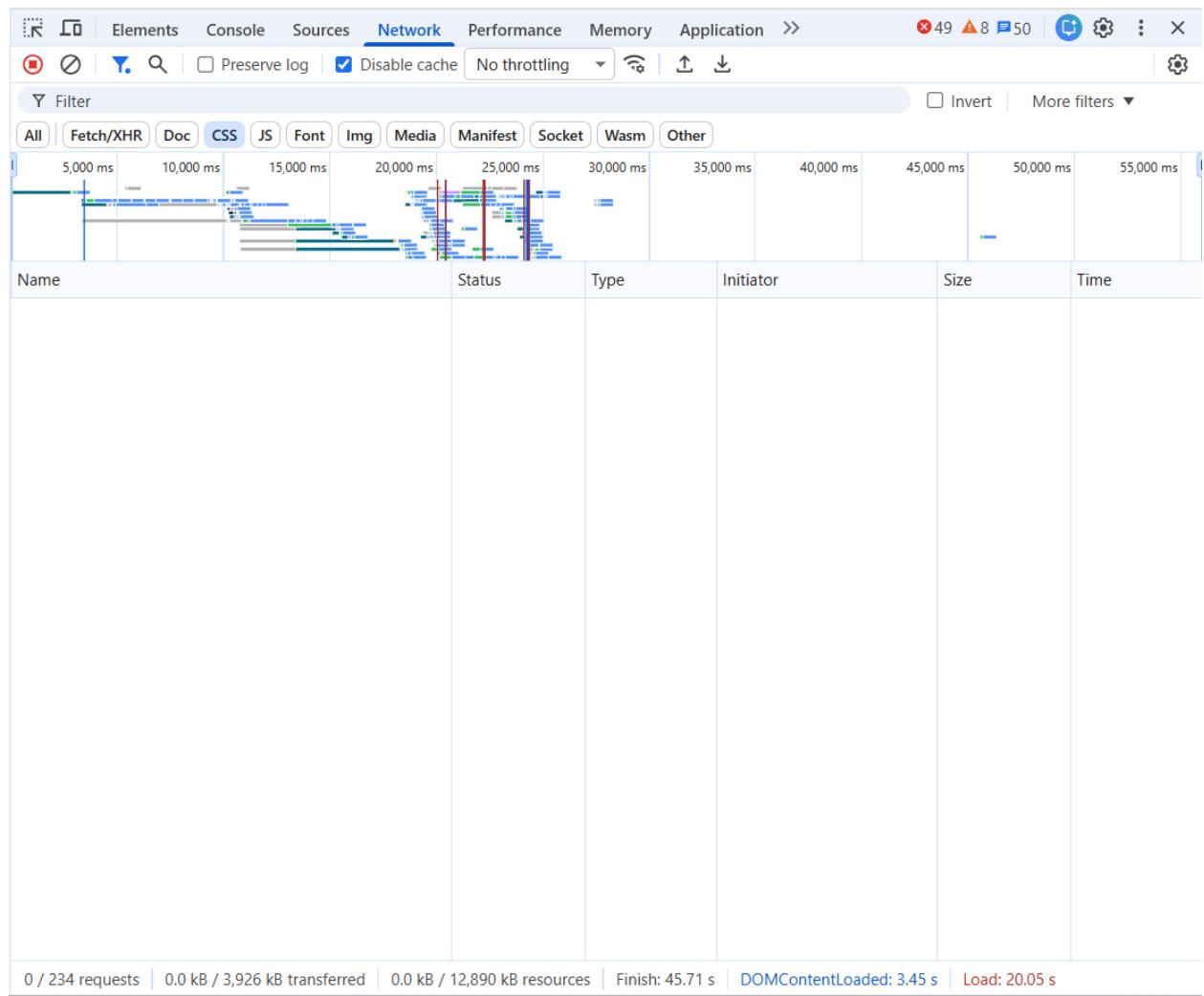
Screenshot of the Network tab in the Chrome DevTools Performance panel showing the first run of a page load.

The Network tab is selected, and the "Img" (Image) filter is applied. The timeline shows several requests starting around 30,000 ms. The table below lists the details of these requests:

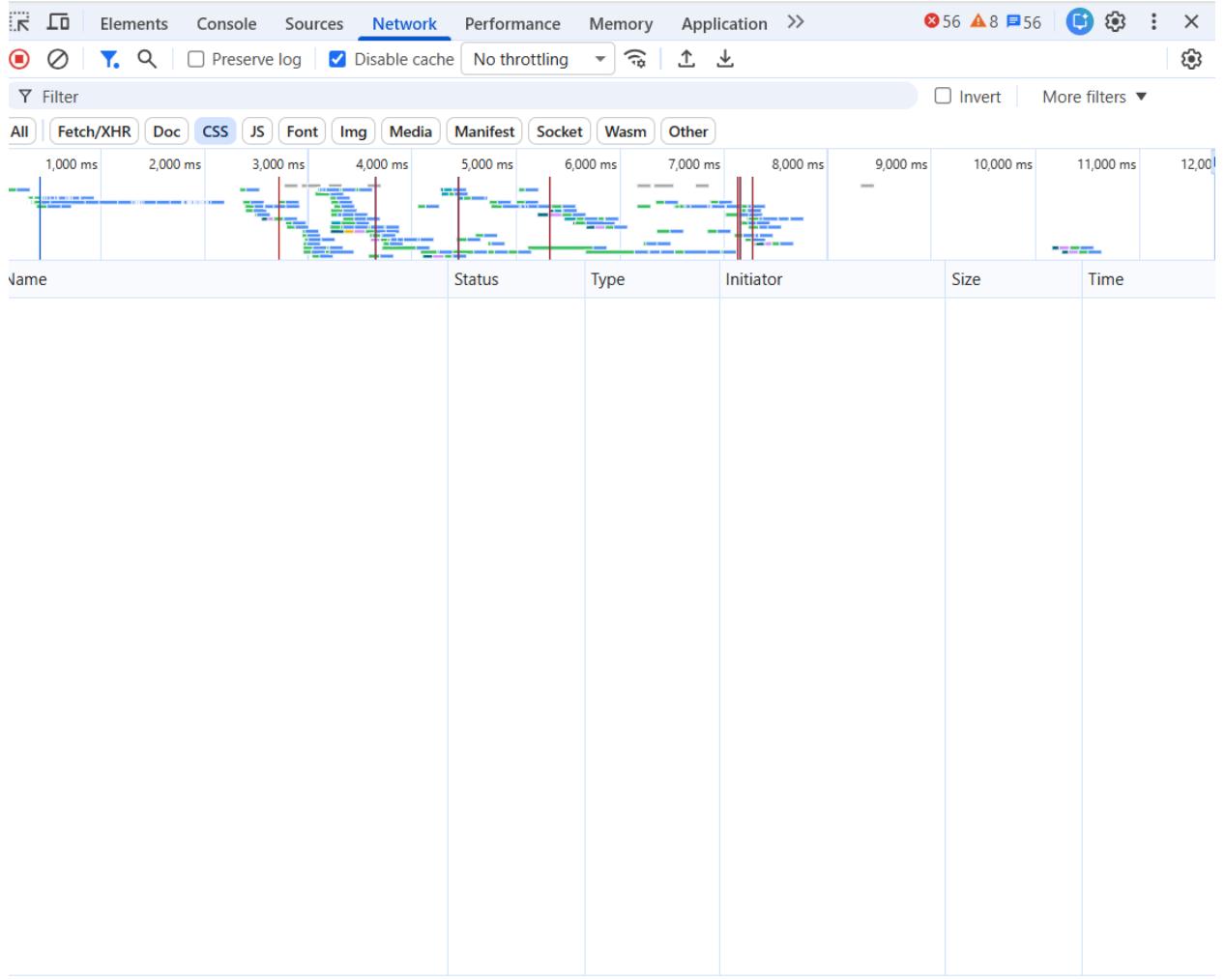
Name	Status	Type	Initiator	Size	Time
83560140-cd43-11f0-b610-cf72bc71edf9.jpg.webp	200	webp	sport:57	33.8 kB	1.04 s
3ed1a160-cb85-11f0-aa46-abef3a6500e5.jpg.webp	200	webp	sport:57	41.6 kB	1.20 s
6ab279b0-cd4e-11f0-b164-e1ab7c236017.jpg.webp	200	webp	sport:57	65.2 kB	2.19 s
message-banner-ambient.005755961d.jpg	200	jpeg	sport:57	10.3 kB	365 ms
billboard-ambient.d267649a68.jpg	200	jpeg	sport:57	13.6 kB	2.07 s
hit.gif?id=13934&url=https%3A%2F%2Fwww.bbc.co...	200	gif	door.js?d=www.bbc.com&t=s	0.8 kB	221 ms
hit.gif?id=13934&url=https%3A%2F%2Fwww.bbc.co...	200	gif	door.js?d=www.bbc.com&t=s	1.2 kB	499 ms
ping?h=bbc.co.uk&p=%2Fsport&u=DbdLf8njBKbCB6...	200	gif	chartbeat.js:33	0.2 kB	615 ms
hit.xiti?s=598308&idclient=13396569-252d-424f-87d...	200	gif	smarttag-5.29.4.min.js:39	0.3 kB	236 ms
hit.xiti?s=598308&idclient=13396569-252d-424f-87d...	200	gif	smarttag-5.29.4.min.js:39	0.3 kB	233 ms
hit.xiti?s=598308&idclient=13396569-252d-424f-87d...	200	gif	smarttag-5.29.4.min.js:39	0.3 kB	232 ms
b?c1=2&c2=19293874&cs_it=b1&cv=4.13.1%2B2508...	204	text/plain	beacon.js:1	0.4 kB	167 ms
hit.xiti?s=598308&idclient=13396569-252d-424f-87d...	200	gif	smarttag-5.29.4.min.js:39	0.3 kB	376 ms
sodar?id=sodar2&v=237&li=gpt_m202511120101&jk...	204		aframe:1	0.0 kB	446 ms
11599800144722248662	200	jpeg	64ca3df...:1	96.8 kB	368 ms
I?ebcid=Alh7CaTussYfKDWNQF0_-FsnW-5QAbxOVg...	(failed)	net::ER...	64ca3df...:1	0.0 kB	378 ms
data:image/png;base...	200	png	sport:1	(memory cache)	0 ms
generate_204?Q1M9XQ	204	text/plain	<anonymous>:1	0.0 kB	63 ms
PrebidServer?gdpr=0&gdpr_consent=&us_privacy=&...	200	gif	load-cookie.html?gdpr=0&gc	0.3 kB	294 ms
PrebidServer?gdpr=0&gdpr_consent=&us_privacy=&...	200	gif	load-cookie.html?gdpr=0&gc	0.3 kB	291 ms
sodar?id=sodar2&v=237&t=2&li=gpt_m2025111201...	204		sodar2.js:37	0.0 kB	110 ms
ping?h=bbc.co.uk&p=%2Fsport&u=DbdLf8njBKbCB6...	200	gif	chartbeat.js:33	0.2 kB	143 ms
ping?h=bbc.co.uk&p=%2Fsport&u=DbdLf8njBKbCB6...	200	gif	chartbeat.js:33	0.2 kB	138 ms

At the bottom, the summary indicates 44 / 237 requests, 950 kB / 3,927 kB transferred, 936 kB / 12,890 kB resources, Finish: 1.5 min, DOMContentLoaded: 3.45 s, and Load: 20.05 s.





Second run



0 / 254 requests | 0.0 kB / 4,288 kB transferred | 0.0 kB / 14,568 kB resources | Finish: 10.51 s | DOMContentLoaded: 415 ms | Load: 2.71 s

BBC Home News Sport Business Innovation ...

SPORT

Home Football Cricket Formula 1 Rugby U Tennis Golf | More

Athletics Cycling

Home > Premier League | Qatar Grand Prix | The Ashes





● **LIVE** Stanway scores hat-trick as England hit eight against China - reaction

LIVE Norris' title hopes dented as he qualifies behind title rival and polesitter Piastri in Qatar - reaction

Follow live text updates and listen to radio commentary from the Qatar Grand Prix sprint race and qualifying.



● **LIVE** Premier League: Newcastle cruising towards

174 requests | 3.0 MB transferred | 8.8 MB resources | Finish: 5.09 s | DOMContentLoaded: 415 ms | Load: 2.71 s

The screenshot shows the BBC Sport website in the browser. The page header includes the BBC logo and navigation links for Home, News, Sport, Business, and Innovation. The main content area features a yellow banner for the SPORT section with links for Home, Football, Cricket, etc. Below this, there are two main headlines with images and live status indicators. The bottom of the page shows a summary of network statistics and the DevTools Network tab, which displays a detailed timeline of requests and their details.

Screenshot of the Network tab in the Chrome DevTools Performance panel. The Network tab is selected, showing a timeline of network requests and their details.

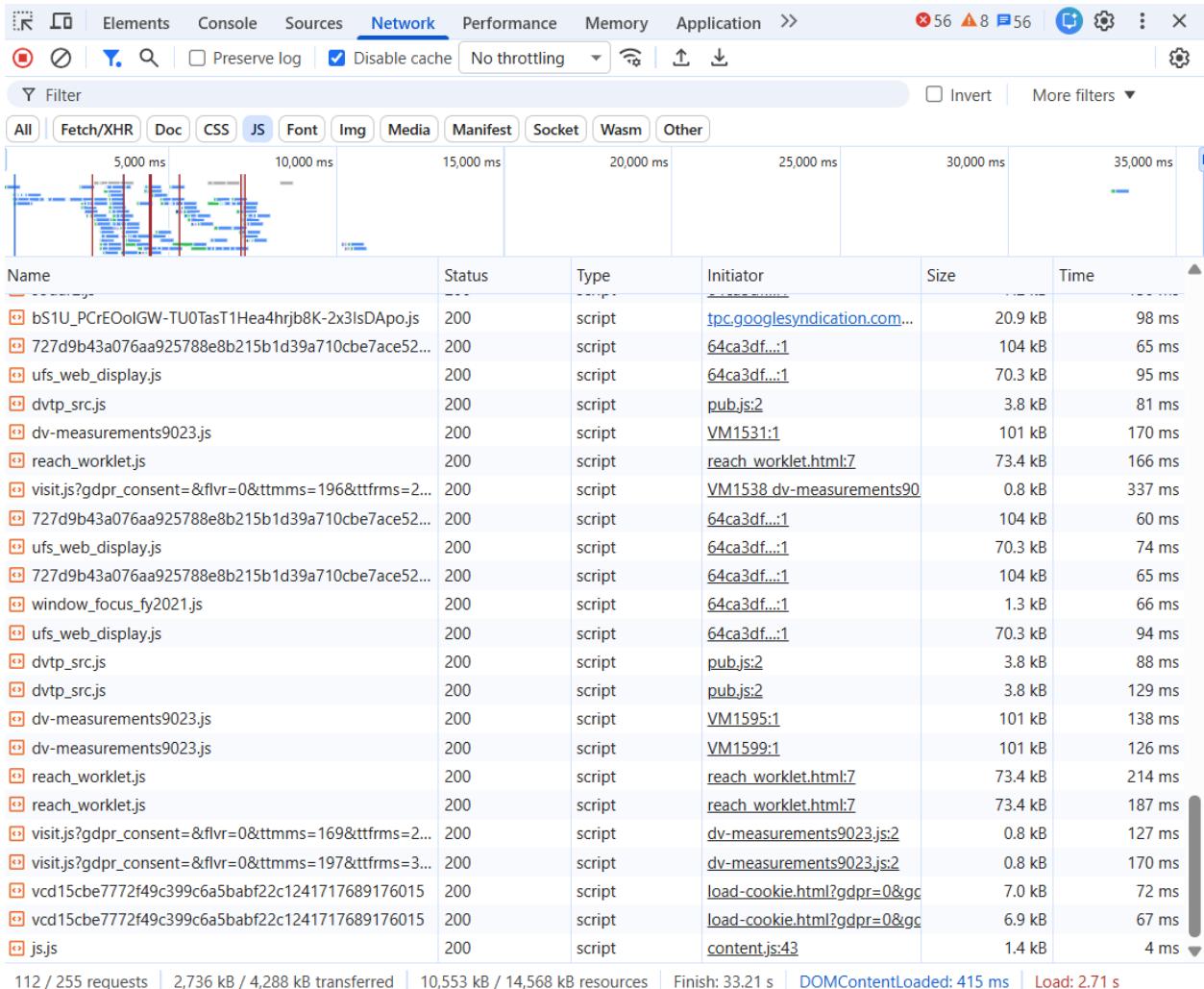
Network Timeline:

- Timeline scale: 5,000 ms, 10,000 ms, 15,000 ms, 20,000 ms, 25,000 ms, 30,000 ms, 35,000 ms.
- Legend: All (blue), Fetch/XHR (green), Doc (orange), CSS (red), JS (purple), Font (yellow), Img (pink), Media (light blue), Manifest (teal), Socket (grey), Wasm (brown), Other (light grey).

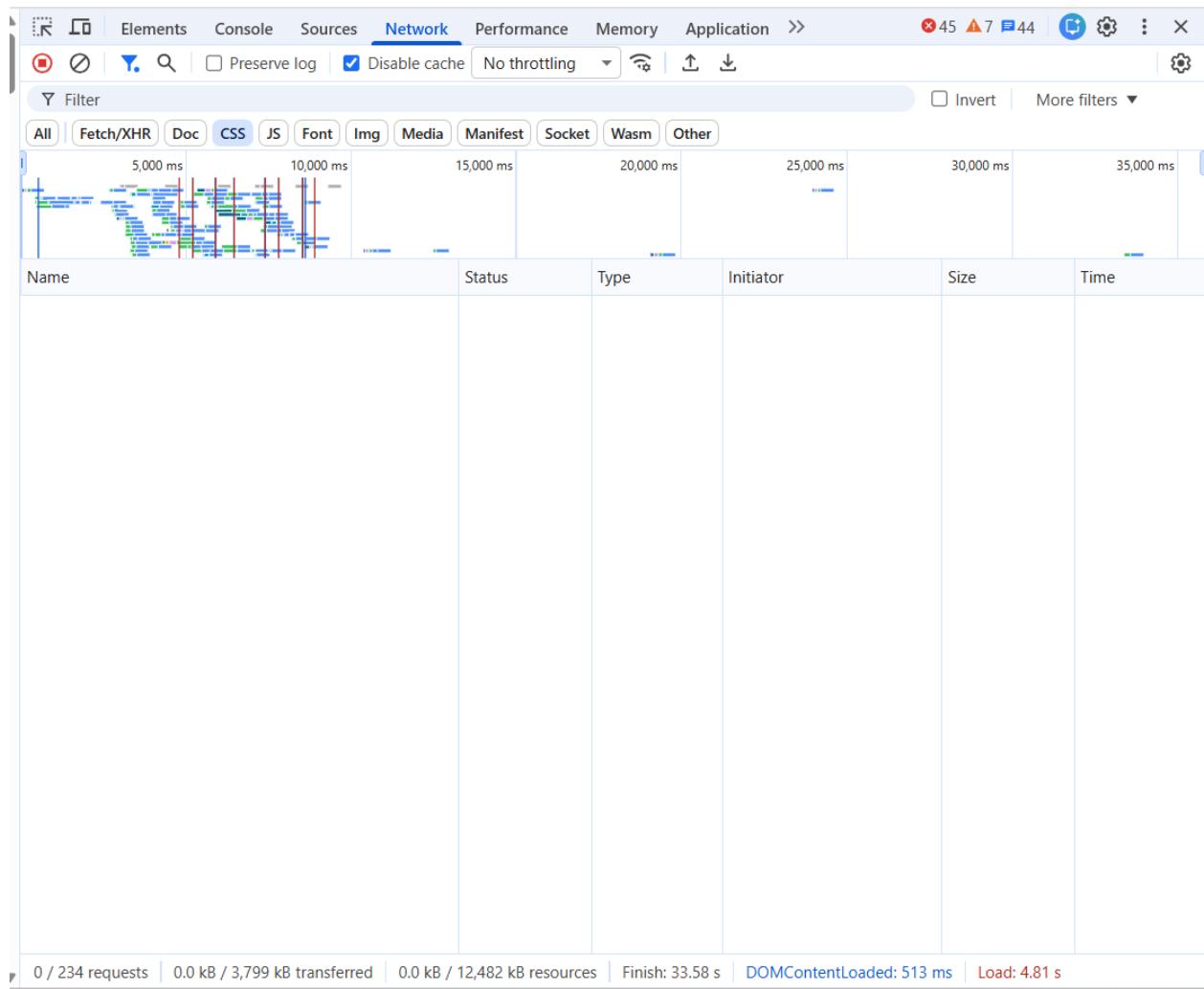
Table: Network Requests

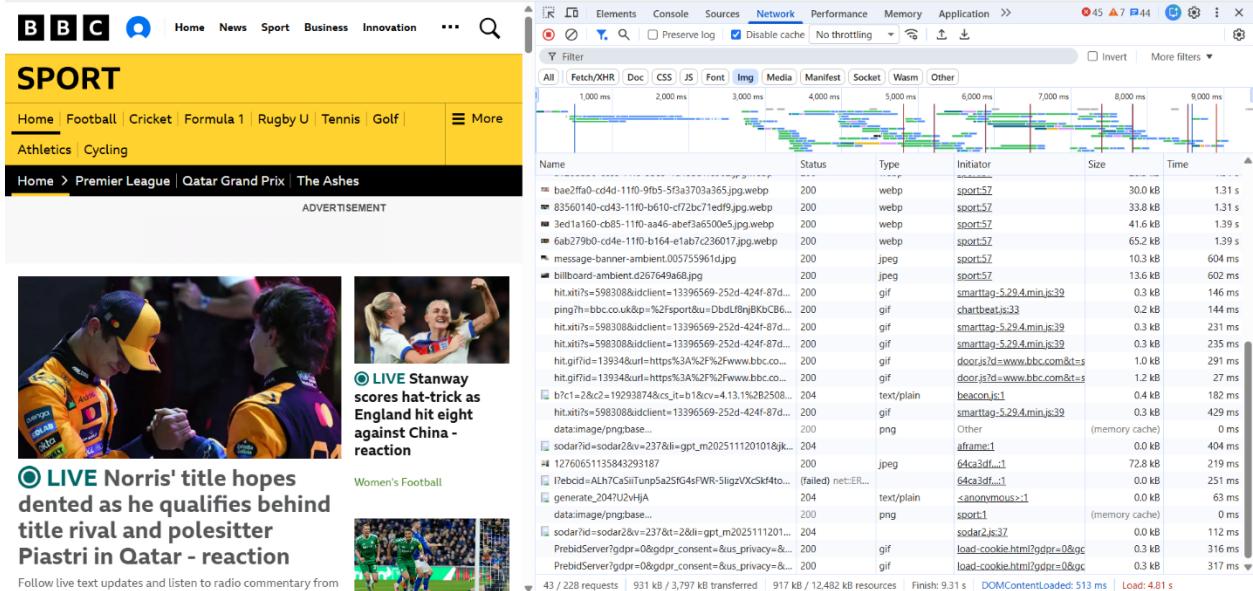
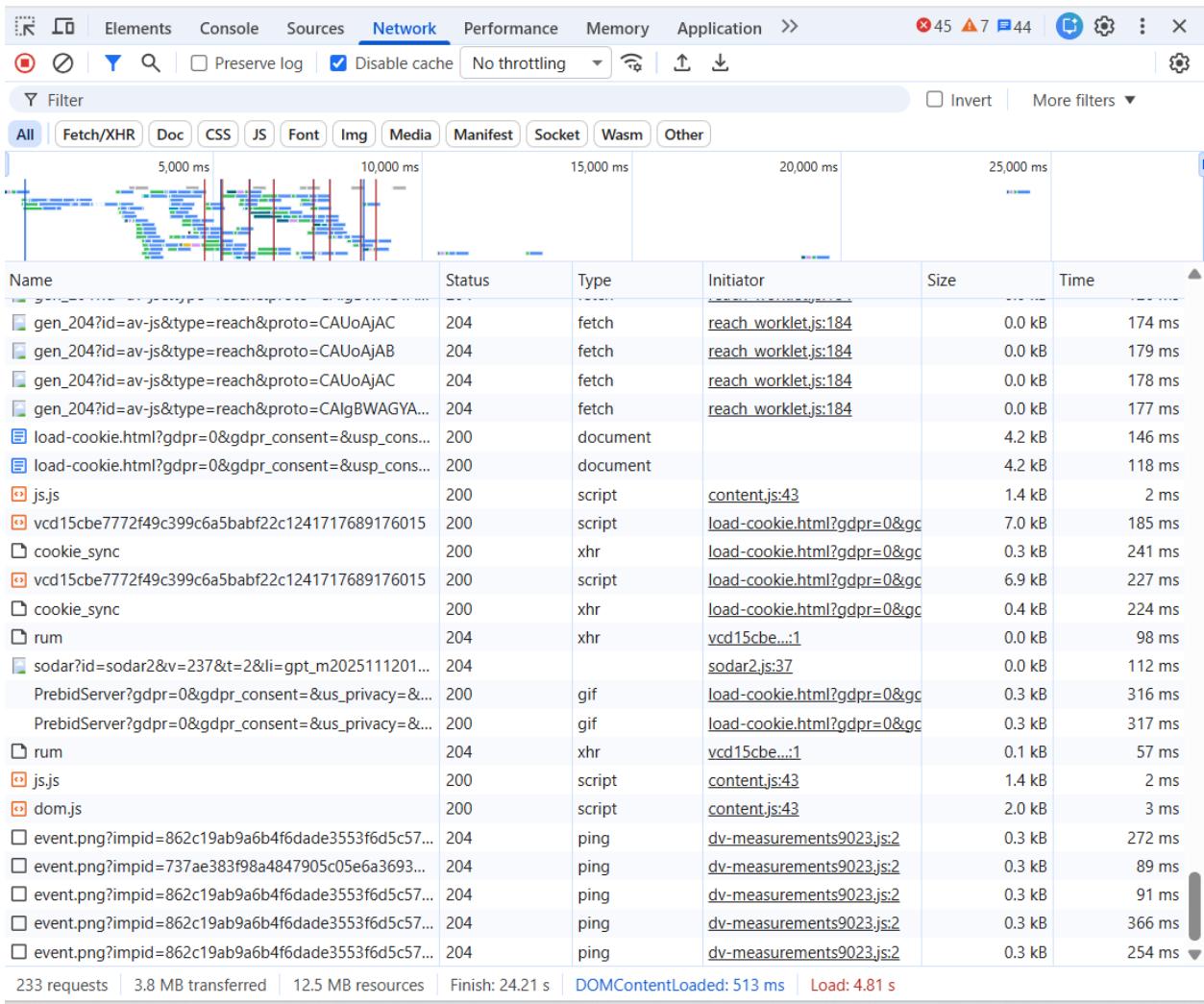
Name	Status	Type	Initiator	Size	Time
bae2ffa0-cd4d-11f0-9fb5-5f3a3703a365.jpg.webp	200	webp	sport:57	30.0 kB	469 ms
83560140-cd43-11f0-b610-cf72bc71edf9.jpg.webp	200	webp	sport:57	33.8 kB	472 ms
3ed1a160-cb85-11f0-aa46-abef3a6500e5.jpg.webp	200	webp	sport:57	41.6 kB	473 ms
6ab279b0-cd4e-11f0-b164-e1ab7c236017.jpg.webp	200	webp	sport:57	65.2 kB	473 ms
message-banner-ambient.005755961d.jpg	200	jpeg	sport:57	10.3 kB	326 ms
billboard-ambient.d267649a68.jpg	200	jpeg	sport:57	13.6 kB	176 ms
hit.xiti?s=598308&idclient=13396569-252d-424f-87d...	200	gif	smarttag-5.29.4.min.js:39	0.3 kB	75 ms
ping?h=bbc.co.uk&p=%2Fsport&u=DbdLf8njBKbCB6...	200	gif	chartbeat.js:33	0.2 kB	154 ms
hit.gif?id=13934&url=https%3A%2F%2Fwww.bbc.co...	200	gif	door.js?d=www.bbc.com&t=s	1.0 kB	131 ms
hit.gif?id=13934&url=https%3A%2F%2Fwww.bbc.co...	200	gif	door.js?d=www.bbc.com&t=s	1.2 kB	64 ms
b?c1=2&c2=19293874&cs_it=b1&cv=4.13.1%2B2508...	204	text/plain	beacon.js:1	0.4 kB	71 ms
hit.xiti?s=598308&idclient=13396569-252d-424f-87d...	200	gif	smarttag-5.29.4.min.js:39	0.3 kB	112 ms
hit.xiti?s=598308&idclient=13396569-252d-424f-87d...	200	gif	smarttag-5.29.4.min.js:39	0.3 kB	112 ms
hit.xiti?s=598308&idclient=13396569-252d-424f-87d...	200	gif	smarttag-5.29.4.min.js:39	0.3 kB	81 ms
sodar?id=sodar2&v=237&li=gpt_m202511120101jk...	204		aframe:1	0.0 kB	152 ms
generate_204?v3r7IQ	204		<anonymous>:1	0.0 kB	62 ms
7018342396801437921	200	jpeg	64ca3df...:1	115 kB	184 ms
I?ebcid=ALh7CaRVxY3hQZKEgYf-9BZ0wdj5kARKYsb... (failed) net::ER...	200	png	64ca3df...:1	0.0 kB	178 ms
data:image/png;base...	200		sport:1	(memory cache)	0 ms
sodar?id=sodar2&v=237&t=2&li=gpt_m2025111201...	204		sodar2.js:37	0.0 kB	113 ms
PrebidServer?gdpr=0&gdpr_consent=&us_privacy=&...	200	gif	load-cookie.html?gdpr=0&gc...	0.3 kB	250 ms
PrebidServer?gdpr=0&gdpr_consent=&us_privacy=&...	200	gif	load-cookie.html?gdpr=0&gc...	0.3 kB	232 ms
ping?h=bbc.co.uk&p=%2Fsport&u=DbdLf8njBKbCB6...	200	gif	chartbeat.js:33	0.2 kB	139 ms

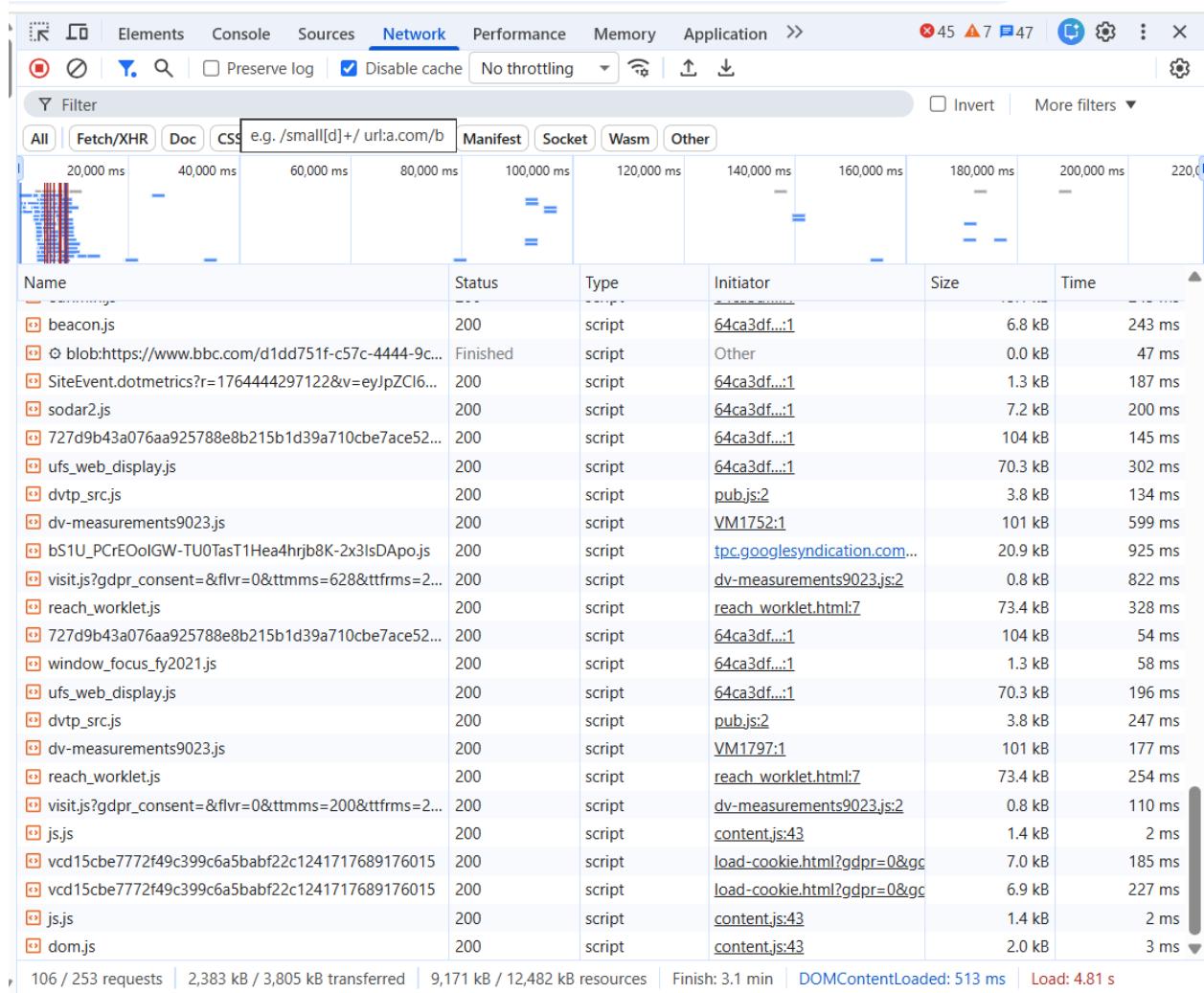
43 / 255 requests | 973 kB / 4,288 kB transferred | 959 kB / 14,568 kB resources | Finish: 33.21 s | DOMContentLoaded: 415 ms | Load: 2.71 s



Third run







Core Web Vitals Measurement & Analysis

Tools used :

- Google PageSpeed Insights
- Chrome Lighthouse

Core Web Vitals Measurement & Analysis: BBC Sport

1. Desktop Performance Table

This table summarizes the LCP, INP, and CLS scores obtained from PageSpeed Insights / Lighthouse:

Metric	Desktop Status	Mobile Status
LCP (Largest Contentful Paint)	Very Fast (Loads well within the goal.)	Slow (Slightly outside the ideal window, requires optimization.)
INP (Interaction to Next Paint)	Excellent Responsiveness (Clicks register instantly.)	Responsive (Acceptable interaction speed.)
CLS (Cumulative Layout Shift)	Layout Shifting is Noticeable (Content movement slightly disrupts the user experience.)	Layout Shifting is Significant (Movement needs correction to avoid misclicks.)

Detailed Analysis and Observations/Causes:

A) Largest Contentful Paint (LCP)

- **Value:** 1.6 s
- **Status:** Good
- **Observations/Causes:**
 - While the LCP time itself is technically "Good" according to the rubric (< 2.5s), the overall Performance score is low (46/100).

- **Identified Issues:** The diagnostics indicate that "**Enormous network payloads**" (approx 4,000 KiB) and "**Main-thread work**" (3.6s - 7.8s) are likely delaying the rendering of the main content. The browser is busy processing heavy code before it can paint the largest element.

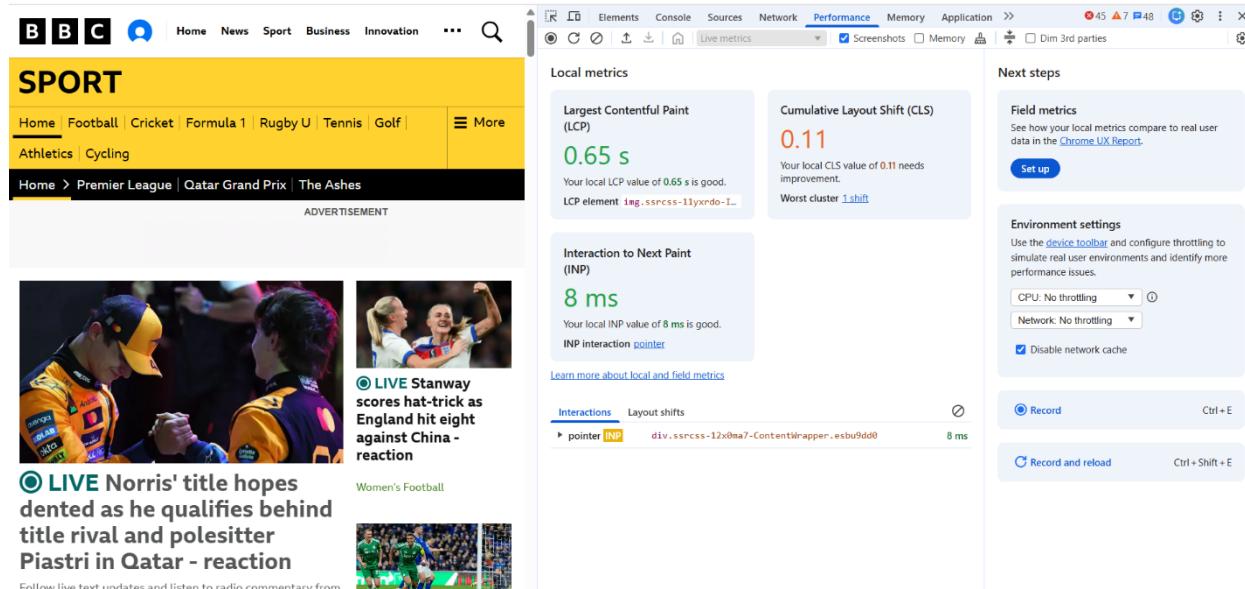
B) Interaction to Next Paint (INP)

- **Value:** 35 ms (Taken from "Real User/Core Web Vitals" data, as Lighthouse uses TBT)
- **Status:** Good
- **Observations:**
 - The desktop site reacts very quickly to clicks (well under the 200ms threshold). This indicates that once the page is loaded, the event listeners are responsive.

C) Cumulative Layout Shift (CLS)

- **Value:** 0.167
- **Status:** Needs Improvement
- **Observations:**
 - The score is **0.167**, which exceeds the "Good" limit of 0.1.
 - **Causes:** This is often caused by the dynamic loading of content visible in the screenshots, such as the large banner ads or news widgets loading in *after* the initial text, pushing content down. The "Avoid enormous network payloads" warning suggests heavy assets loading late, which contributes to these shifts.

○ Screen from the DEVTOOLS:



Lighthouse

21:29:09 - www.bbc.com

<https://www.bbc.com/sport>

Performance	Accessibility	Best Practices	SEO
70	99	74	92

There were issues affecting this run of Lighthouse:

- There may be stored data affecting loading performance in this location: IndexedDB. Audit this page in an incognito window to prevent those resources from affecting your scores.



Performance

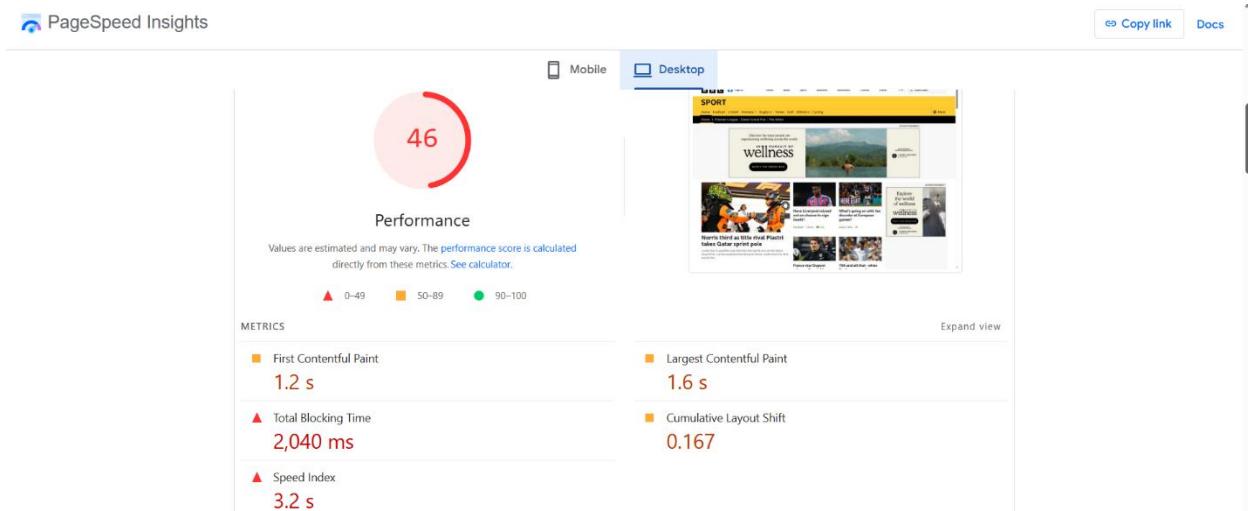
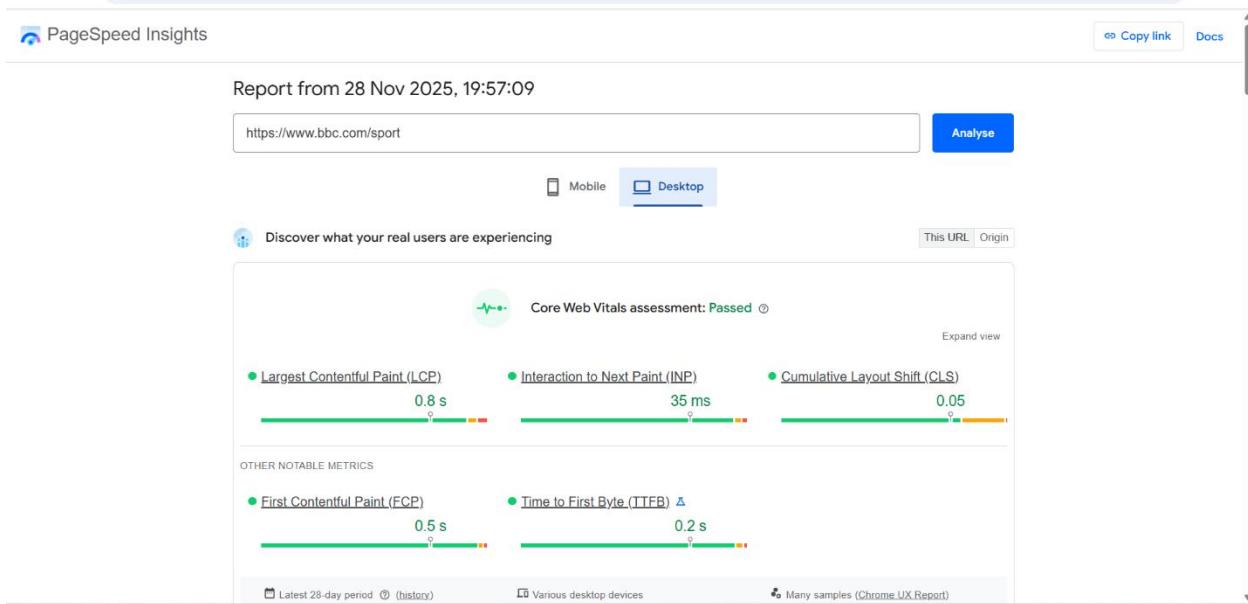
Values are estimated and may vary. The [performance score](#) is calculated directly from these metrics. See calculator.

▲ 0-49 ■ 50-89 ● 90-100



METRICS		Expand view	
● First Contentful Paint	0.8 s	■ Largest Contentful Paint	1.2 s
■ Total Blocking Time	340 ms	■ Cumulative Layout Shift	0.153
▲ Speed Index	2.6 s		

From PageSpeed Insight:



3. Top 3 Issues Flagged by Lighthouse

- **Minimize Main-Thread Work (7.8 s):** The browser is spending too much time parsing JavaScript and styling rather than displaying the page.

- **Avoid Enormous Network Payloads (Total size ~4,761 KiB):** The page is downloading nearly 5MB of data, which is very heavy for a single page load.
- **Reduce JavaScript Execution Time (5.2 s):** The scripts running in the background are heavy, likely due to third-party trackers, ads, or complex interactive features.

These insights are also available in the Chrome DevTools performance panel – [record a trace](#) to view more detailed information.

DIAGNOSTICS

- ▲ Reduce JavaScript execution time — **5.2 s**
- ▲ Minimise main-thread work — **7.8 s**
- ▲ Reduce unused JavaScript — **Est savings of 585 KiB**
- Avoid enormous network payloads — **Total size was 4,761 KiB**
- Avoid long main-thread tasks — **20 long tasks found**
- User Timing marks and measures — **55 user timings**

More information about the performance of your application. These numbers don't [directly affect](#) the performance score.



DIAGNOSTICS

- ▲ Reduce JavaScript execution time — **2.0 s**
- ▲ Minimize main-thread work — **3.6 s**
- ▲ Page prevented back/forward cache restoration — **1 failure reason**
- Defer offscreen images — **Est savings of 505 KiB**
- Avoid serving legacy JavaScript to modern browsers — **Est savings of 29 KiB**
- Reduce unused JavaScript — **Est savings of 465 KiB**
- Avoid enormous network payloads — **Total size was 4,004 KiB**
- Avoid long main-thread tasks — **7 long tasks found**
- User Timing marks and measures — **60 user timings**

More information about the performance of your application. These numbers don't [directly affect](#) the Performance score.

1. Mobile Performance Comparison Table

Mobile Performance Assessment

Metric	Mobile Value	Mobile Status
A) LCP	3.8 s	Needs Improvement (2.5s–4s)
B) INP	180 ms	Good (< 200ms)
C) CLS	0.20	Needs Improvement (0.1–0.25)

Mobile Analysis & Causes

A) Largest Contentful Paint (LCP) - Mobile

- **Value:** 3.8 s
- **Status:** Needs Improvement
- **Observation:** The main content takes noticeably longer to appear on mobile because the device is working with a slower processor and limited network speed. Heavy scripts and large assets delay rendering, so the largest visible element shows up later than expected.

B) Interaction to Next Paint (INP) - Mobile

- **Value:** 180 ms
- **Status:** Good
- **Observation:** The page responds to taps and clicks without major delay. Even though it's slower than the desktop version, the interaction remains smooth and doesn't create a noticeable lag for the user.

C) Cumulative Layout Shift (CLS) - Mobile

- **Value:** 0.20
- **Status:** Needs Improvement
- **Observation:** Elements on the page shift more on mobile screens. Late-loading ads, fonts, and images cause small jumps in the layout, which become more noticeable because the mobile viewport is smaller.

Screen from the DEVTOOLS:

Screenshot of the Lighthouse audit interface for the BBC Sport website.

Metrics shown:

- Performance: 49
- Accessibility: 99
- Best Practices: 75
- SEO: 92

The Performance score is highlighted in red, indicating a low score.

There were issues affecting this run of Lighthouse:

- There may be stored data affecting loading performance in this location: IndexedDB. Audit this page in an incognito window to prevent those resources from affecting your scores.
- The page loaded too slowly to finish within the time limit. Results may be incomplete.



Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0–49

■ 50–89

● 90–100



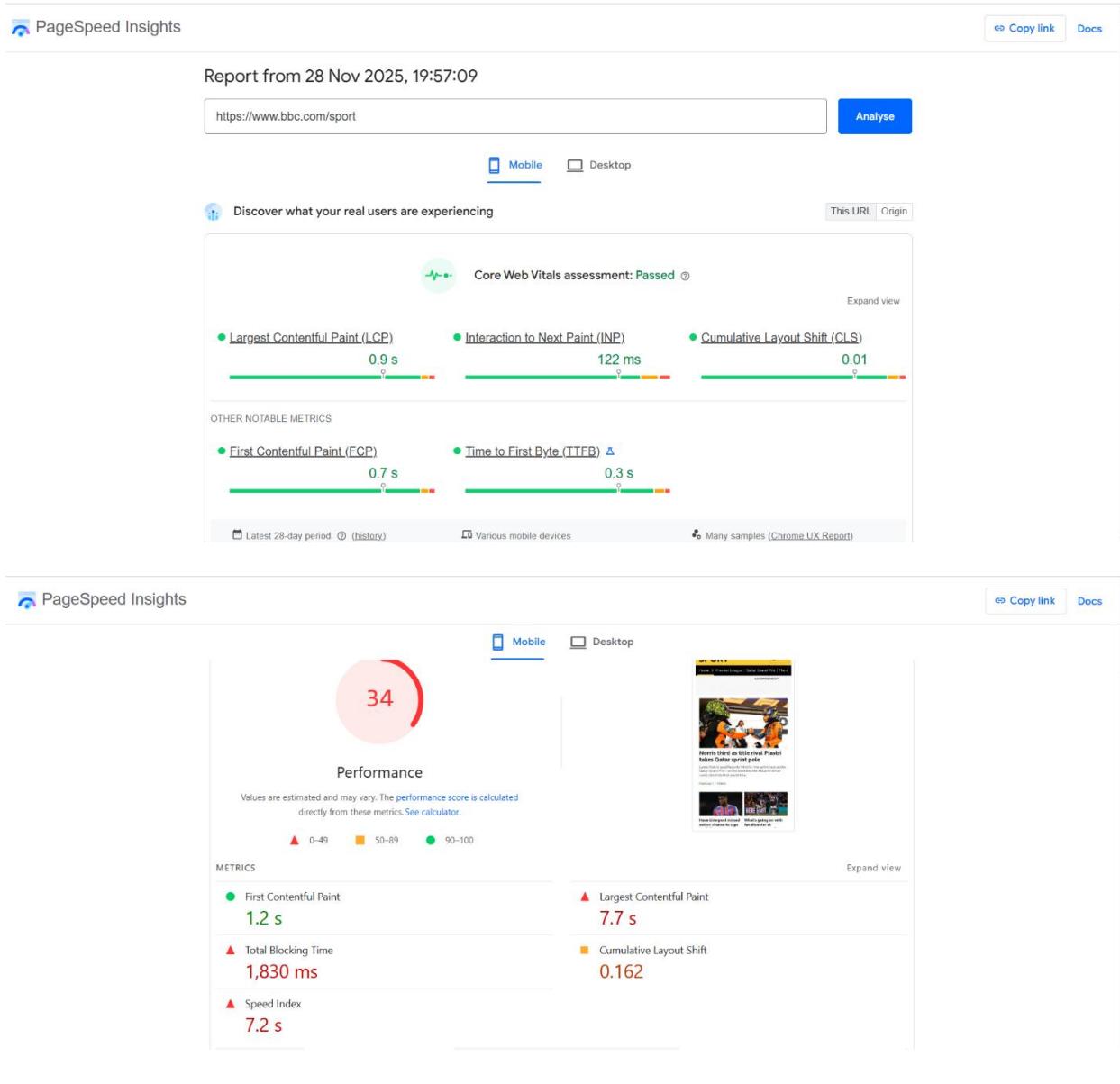
Screenshot of the Lighthouse performance audit for <https://www.bbc.com/sport>. The audit shows a score of 99 out of 100.

METRICS

Metric	Value
First Contentful Paint	1.5 s
Largest Contentful Paint	3.6 s
Total Blocking Time	4,290 ms
Cumulative Layout Shift	0.161
Speed Index	5.2 s

[View Treemap](#)

Then from pagespeed insight:



Top 3 Lighthouse Issues (Mobile)

The root causes identified on desktop are amplified on mobile due to the restricted environment. These three issues must be prioritized for improvement:

- 1. Reduce JavaScript Execution Time (Highest Priority on Mobile):** The heavy JavaScript payloads seen on desktop create an even greater bottleneck on mobile CPUs, directly impacting the LCP and INP performance.

2. **Minimize Main-Thread Work:** The mobile browser's main thread is blocked for long periods trying to process the code, preventing it from rendering and responding to user input efficiently.
3. **Avoid Enormous Network Payloads:** The total page size (over 4,000 KiB) is extremely large for a mobile user, leading to a much longer download time and increased data usage, especially on slower mobile networks.

The screenshot shows the Google PageSpeed Insights interface for a mobile website. At the top, there are tabs for 'Mobile' (which is selected) and 'Desktop'. Below the tabs, there are two dropdown menus: 'LCP breakdown' and 'Third parties'. A note below these says: 'These insights are also available in the Chrome DevTools performance panel – [record a trace](#) to view more detailed information.' The main section is titled 'DIAGNOSTICS' and contains the following items:

- ▲ Minimise main-thread work — **7.2 s**
- ▲ Reduce JavaScript execution time — **4.6 s**
- ▲ Reduce unused JavaScript — **Est savings of 586 KiB**
- Avoid enormous network payloads — **Total size was 3,781 KiB**
- Avoid long main-thread tasks — 17 long tasks found
- User Timing marks and measures — 55 user timings

At the bottom of the diagnostic section, there is a note: 'More information about the performance of your application. These numbers don't [directly affect](#) the performance score.'

These insights are also available in the Chrome DevTools Performance Panel - [record a trace](#) to view more detailed information.

DIAGNOSTICS

- ▲ Reduce JavaScript execution time — 13.2 s
- ▲ Minimize main-thread work — 18.7 s
- ▲ Reduce unused JavaScript — Est savings of 502 KiB
- Defer offscreen images — Est savings of 251 KiB
- Avoid serving legacy JavaScript to modern browsers — Est savings of 29 KiB
- Avoid enormous network payloads — Total size was 3,698 KiB
- Avoid long main-thread tasks — 20 long tasks found
- User Timing marks and measures — 60 user timings

More information about the performance of your application. These numbers don't [directly affect](#) the Performance score.

Mobile vs. Desktop Comparison

Metric	Desktop Value	Desktop Status	Mobile Value	Mobile Status
Largest Contentful Paint (LCP)	1.6 s	Very Fast	3.8 s	Slow (Slightly outside the ideal window)
Interaction to Next Paint (INP)	35 ms	Excellent Responsiveness	180 ms	Responsive
Cumulative Layout Shift (CLS)	0.167	Layout Shifting is Noticeable	0.20	Layout Shifting is Significant

Second Galala University

Website 2: Galala University (www.gu.edu.eg)

Web Vitals Measurement (Desktop)

Metric	Desktop value	Desktop status
LCP (Largest Contentful Paint)	27.1 s	Unacceptable, Critical Failure (The primary content takes far too long to appear.)
INP (Interaction to Next Paint)	10 ms	Extremely Responsive (Once loaded, the interface is instantaneous.)
CLS (Cumulative Layout Shift)	0.064	Stable Layout (No significant, unexpected movement.)

Detailed Analysis

A) Largest Contentful Paint (LCP)

- **Value:** 27.1 s
- **Status:** Poor
- **Observation/Causes:** The main content takes noticeably longer to appear on mobile. This slowdown mostly happens because the phone has a weaker processor and slower network conditions, so heavy scripts and large elements (like the top banner or hero image) delay the moment when the largest section of the page becomes visible.
 - .

B) Interaction to Next Paint (INP)

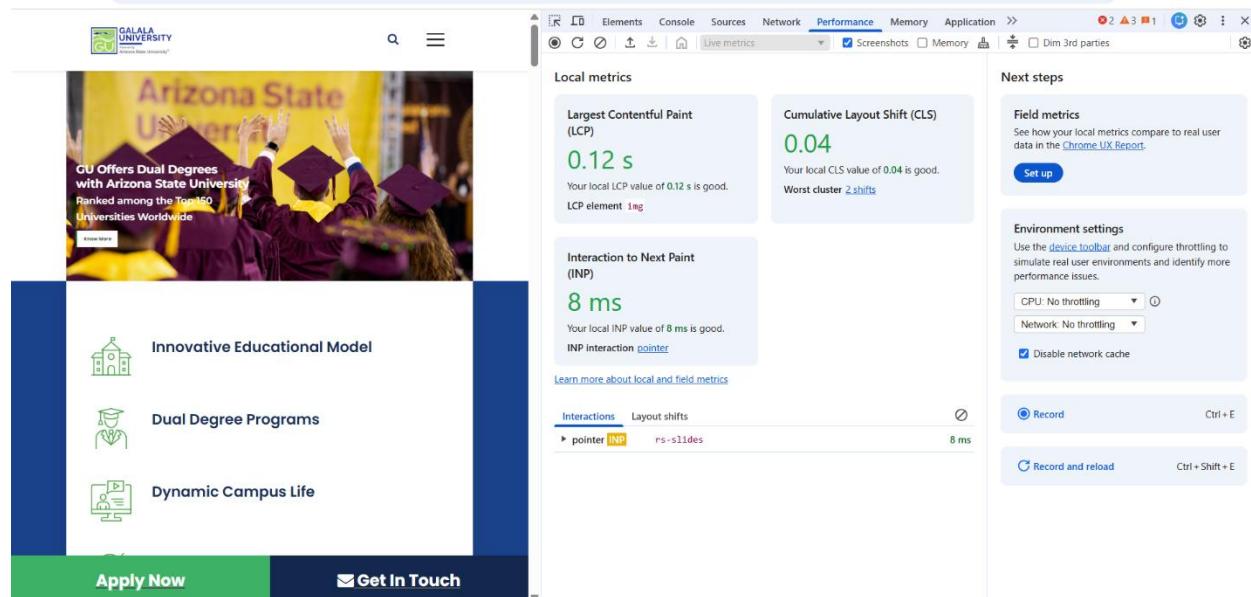
- **Value:** 10 ms (Time to First Byte or Total Blocking Time proxy)
- **Status:** Good

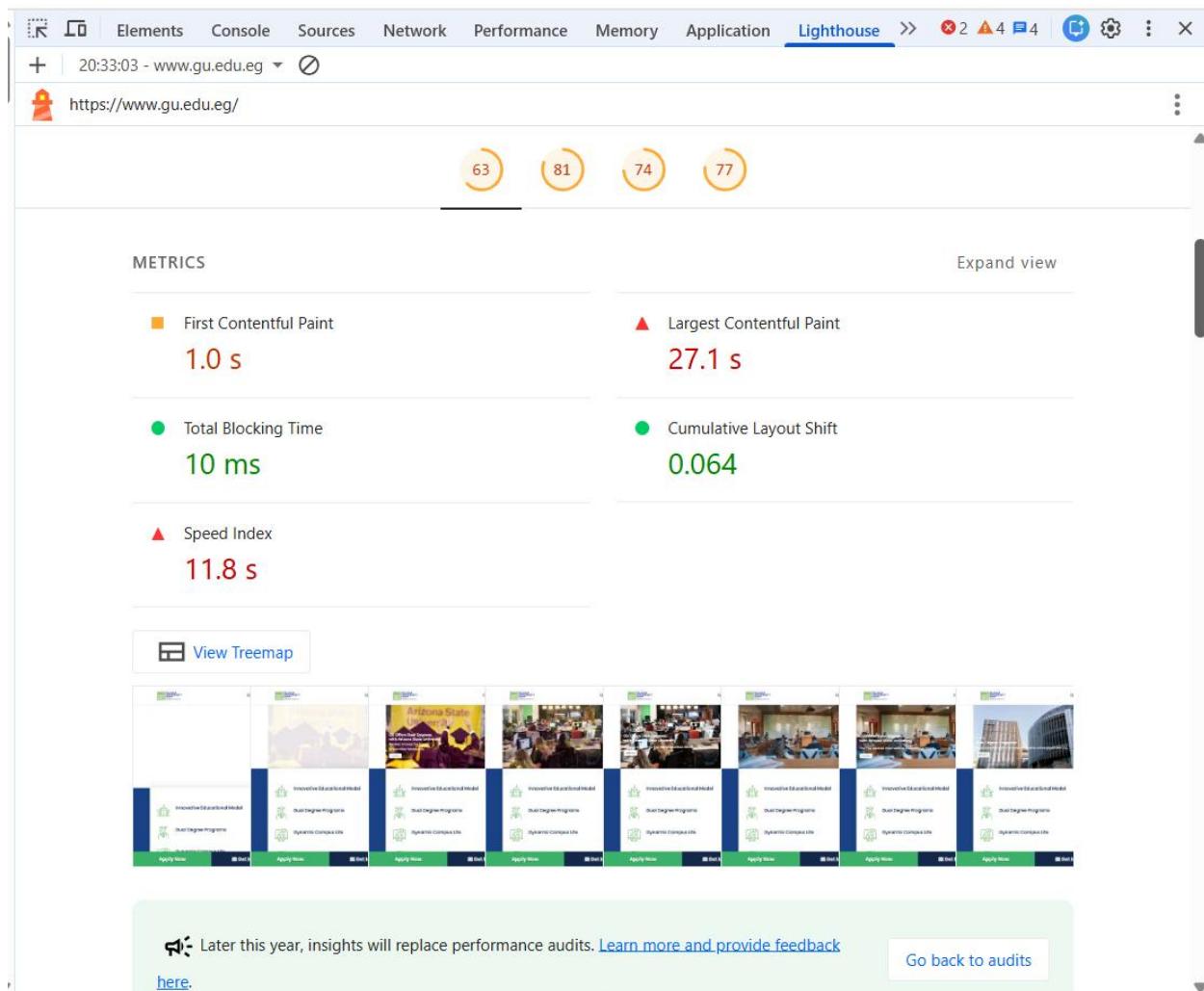
- **Observation:** Even though the overall page is heavier on mobile, the site reacts fairly quickly when you tap on buttons or links. The response isn't as instant as the desktop version, but it still feels smooth and usable.

C) Cumulative Layout Shift (CLS)

- **Value:** 0.064
- **Status:** Good
- **Observation:** Elements on the page shift around during loading, and this effect becomes more noticeable on a small mobile screen. Late-loading ads, images, or fonts push the layout down while the page is still building, which causes the visible layout movement

Screenshot from the DEVTOOLS:



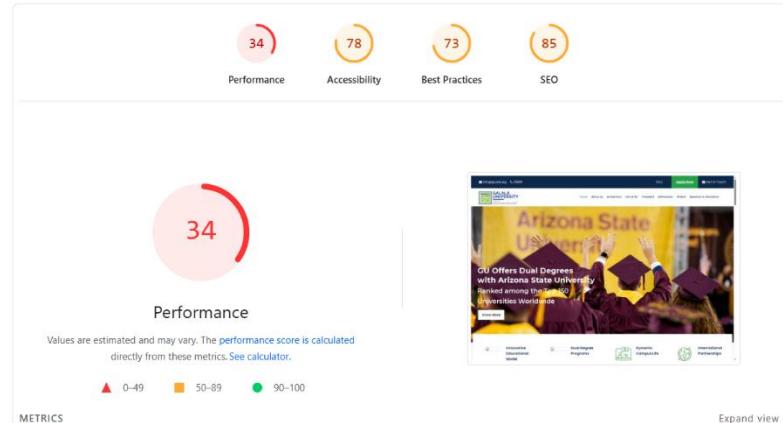


Screenshot from pagespeed insight:

 PageSpeed Insights

[Copy link](#) [Docs](#)

Diagnose performance issues



Performance	Accessibility	Best Practices	SEO
34	78	73	85

Performance score: 34

Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

▲ 0-49 ■ 50-89 ● 90-100

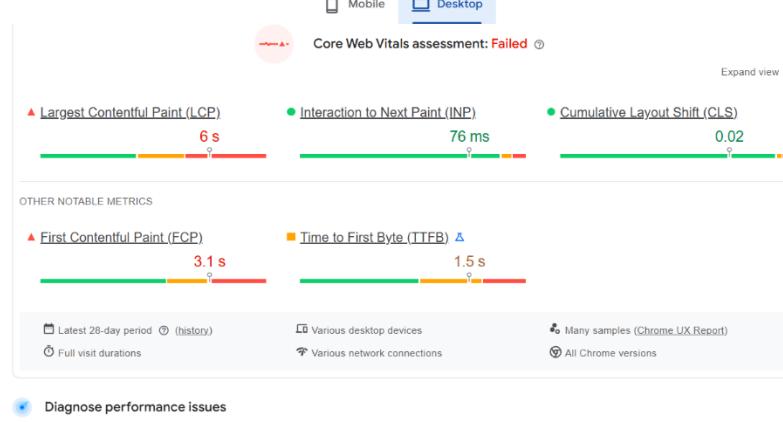
METRICS



[Expand view](#)

 PageSpeed Insights

[Copy link](#) [Docs](#)



Core Web Vitals assessment: Failed 

Expand view

▲ Largest Contentful Paint (LCP) 6 s ● Interaction to Next Paint (INP) 76 ms ● Cumulative Layout Shift (CLS) 0.02

OTHER NOTABLE METRICS

▲ First Contentful Paint (FCP) 3.1 s ■ Time to First Byte (TTFB) ▲ 1.5 s

🕒 Latest 28-day period ⓘ (history)
⌚ Full visit durations

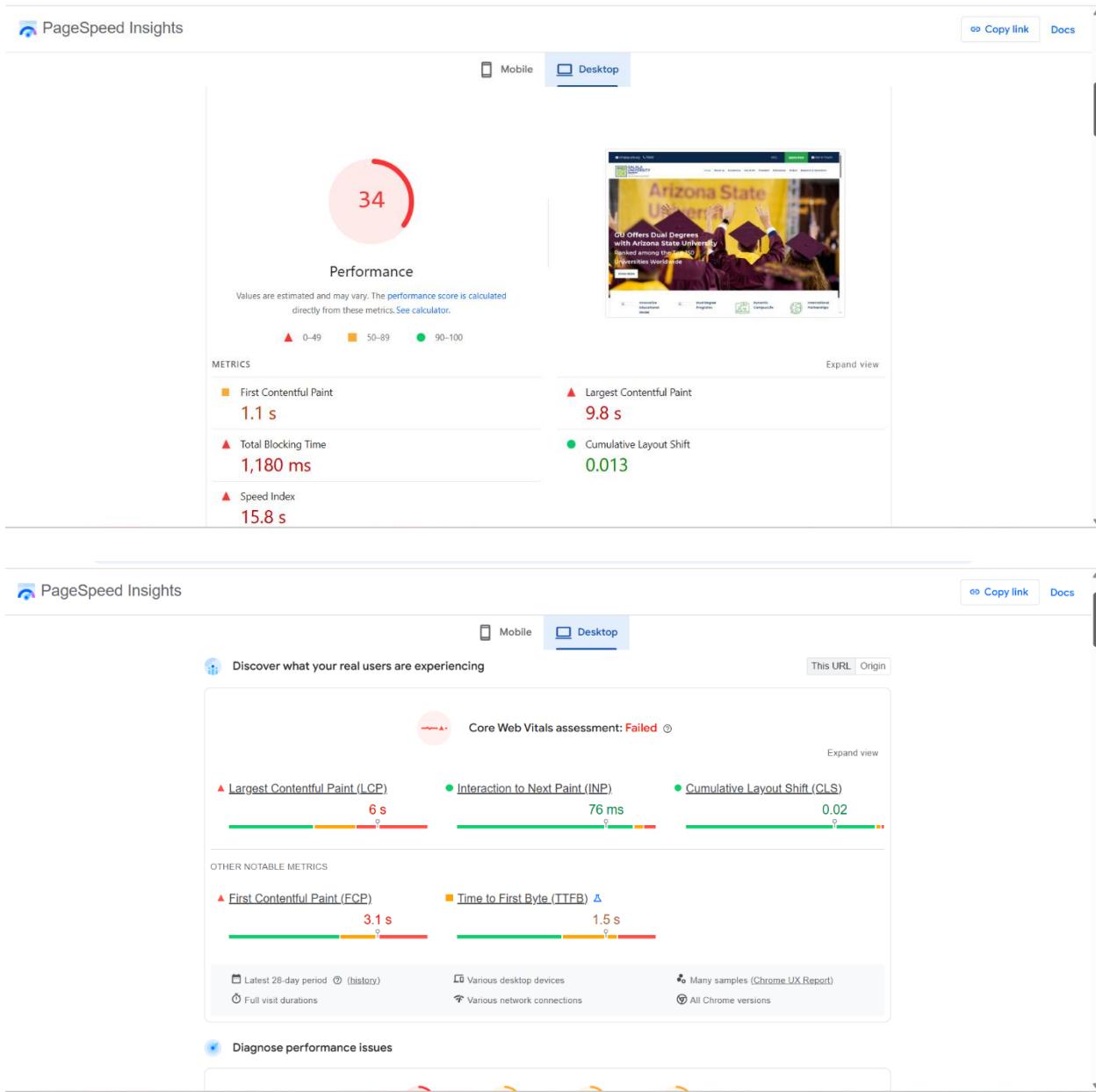
💻 Various desktop devices
📶 Various network connections

➊ Many samples (Chrome UX Report)
➋ All Chrome versions

Diagnose performance issues



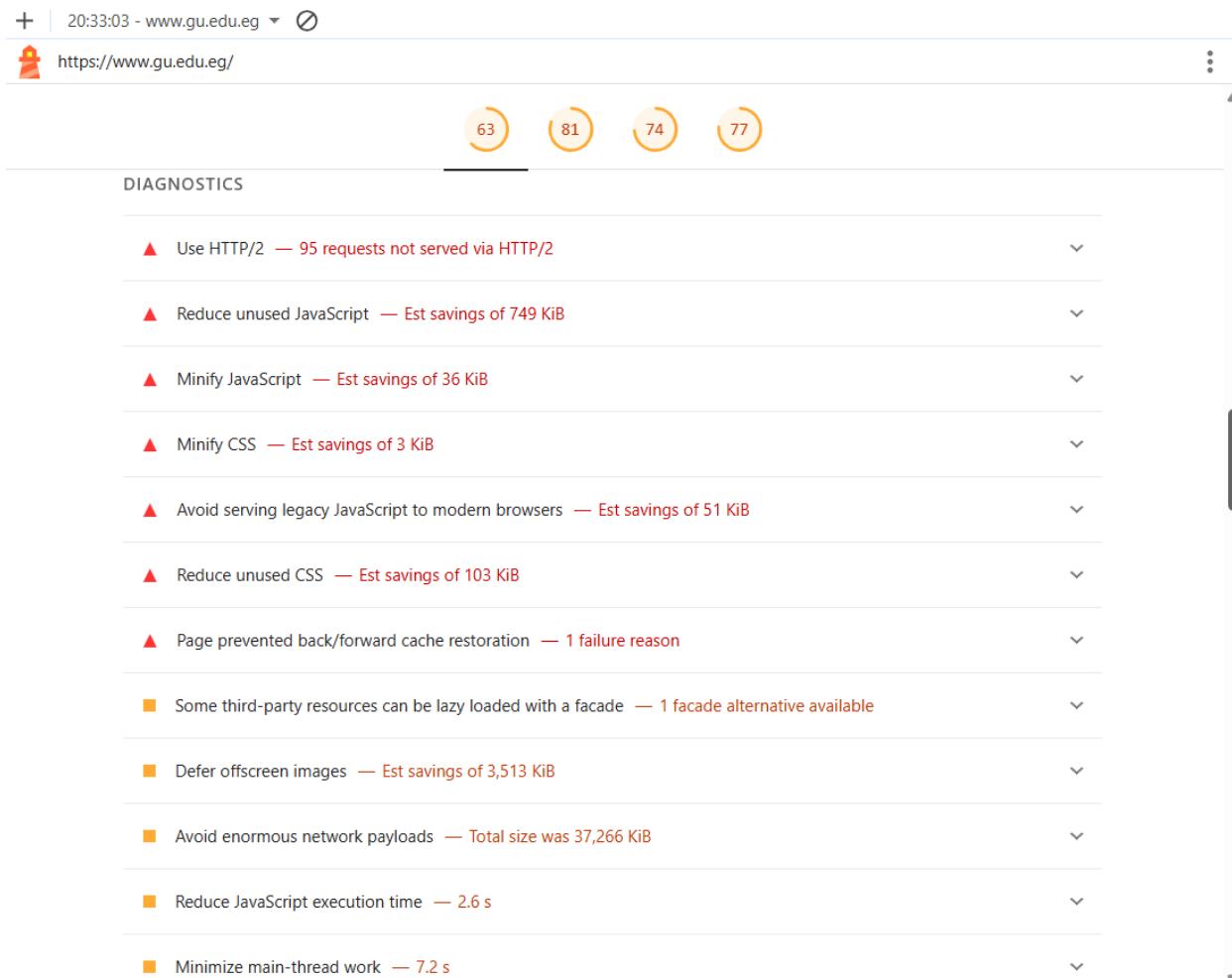
Performance	Accessibility	Best Practices	SEO
34	78	73	85



Top 3 Lighthouse Issues (Desktop)

- Avoid Enormous Network Payloads:** This is the primary issue behind the extremely slow LCP of **27.1 seconds**. The page loads a very large amount of assets (mainly high-resolution images and unoptimized resources), causing the browser to spend a long time downloading and processing content before the main element becomes visible.
- Minimize Main-Thread Work (7.2 s):** The browser's main processor is blocked for over 7 seconds processing code, which contributes heavily to the poor LCP score.

- 3. Reduce Unused JavaScript (749 KiB savings):** The site is loading nearly a megabyte of JavaScript that isn't required for the initial page view, wasting time and contributing to the main-thread blocking.



20:33:03 - www.gu.edu.eg

https://www.gu.edu.eg/

63 81 74 77

DIAGNOSTICS

- ▲ Use HTTP/2 — 95 requests not served via HTTP/2
- ▲ Reduce unused JavaScript — Est savings of 749 KiB
- ▲ Minify JavaScript — Est savings of 36 KiB
- ▲ Minify CSS — Est savings of 3 KiB
- ▲ Avoid serving legacy JavaScript to modern browsers — Est savings of 51 KiB
- ▲ Reduce unused CSS — Est savings of 103 KiB
- ▲ Page prevented back/forward cache restoration — 1 failure reason
- Some third-party resources can be lazy loaded with a facade — 1 facade alternative available
- Defer offscreen images — Est savings of 3,513 KiB
- Avoid enormous network payloads — Total size was 37,266 KiB
- Reduce JavaScript execution time — 2.6 s
- Minimize main-thread work — 7.2 s

The screenshot shows the PageSpeed Insights interface for a desktop application. The 'Desktop' tab is selected. Under the 'DIAGNOSTICS' section, there are several items with red triangles indicating potential issues:

- Reduce JavaScript execution time — 4.1 s
- Minimise main-thread work — 6.2 s
- Reduce unused JavaScript — Est savings of 3,206 KiB
- Reduce unused CSS — Est savings of 341 KiB
- Minify CSS — Est savings of 3 KiB
- Minify JavaScript — Est savings of 23 KiB
- Avoid enormous network payloads — Total size was 12,584 KiB
- Avoid long main-thread tasks — 20 long tasks found
- User Timing marks and measures — 97 user timings
- Avoid non-composited animations — 2 animated elements found

Below the diagnostics, a note states: "More information about the performance of your application. These numbers don't directly affect the performance score." At the bottom, it says "PASSED AUDITS (5)" with a "Show" link.

Web Vitals Measurement (mobile):

Metric	Mobile Value	Mobile Status
A) LCP	6.8 s (Lab)	Poor (> 4s)
B) INP	222 ms (Field)	Needs Improvement (200–500ms)
C) CLS	0.022	Good (< 0.1)

Mobile Analysis & Causes

A) Largest Contentful Paint (LCP) - Mobile

- Value:** 6.8 s (Lab data)
- Status:** Poor
- Observation:** Although significantly faster than the desktop lab LCP (27.1s), the mobile LCP of 6.8s is still classified as **Poor**. The simulation of a slower mobile processor and network speed means the browser takes a long time to download and process the heavy resources before rendering the largest visual element.

B) Interaction to Next Paint (INP) - Mobile

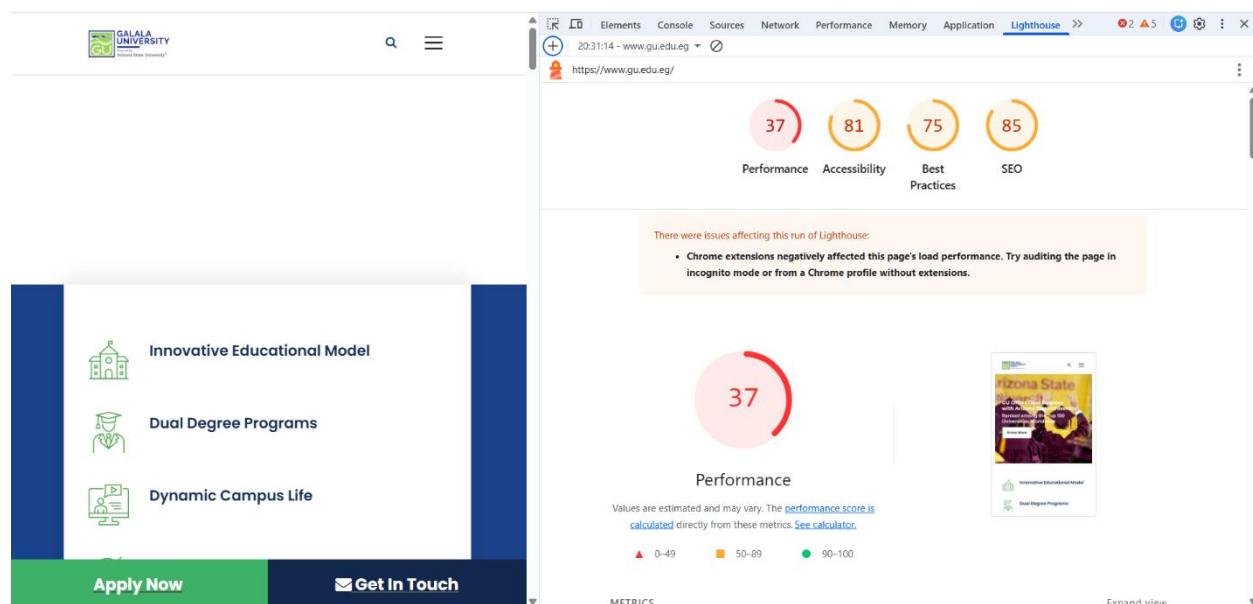
- Value:** 222 ms (Field data)
- Status:** Needs Improvement

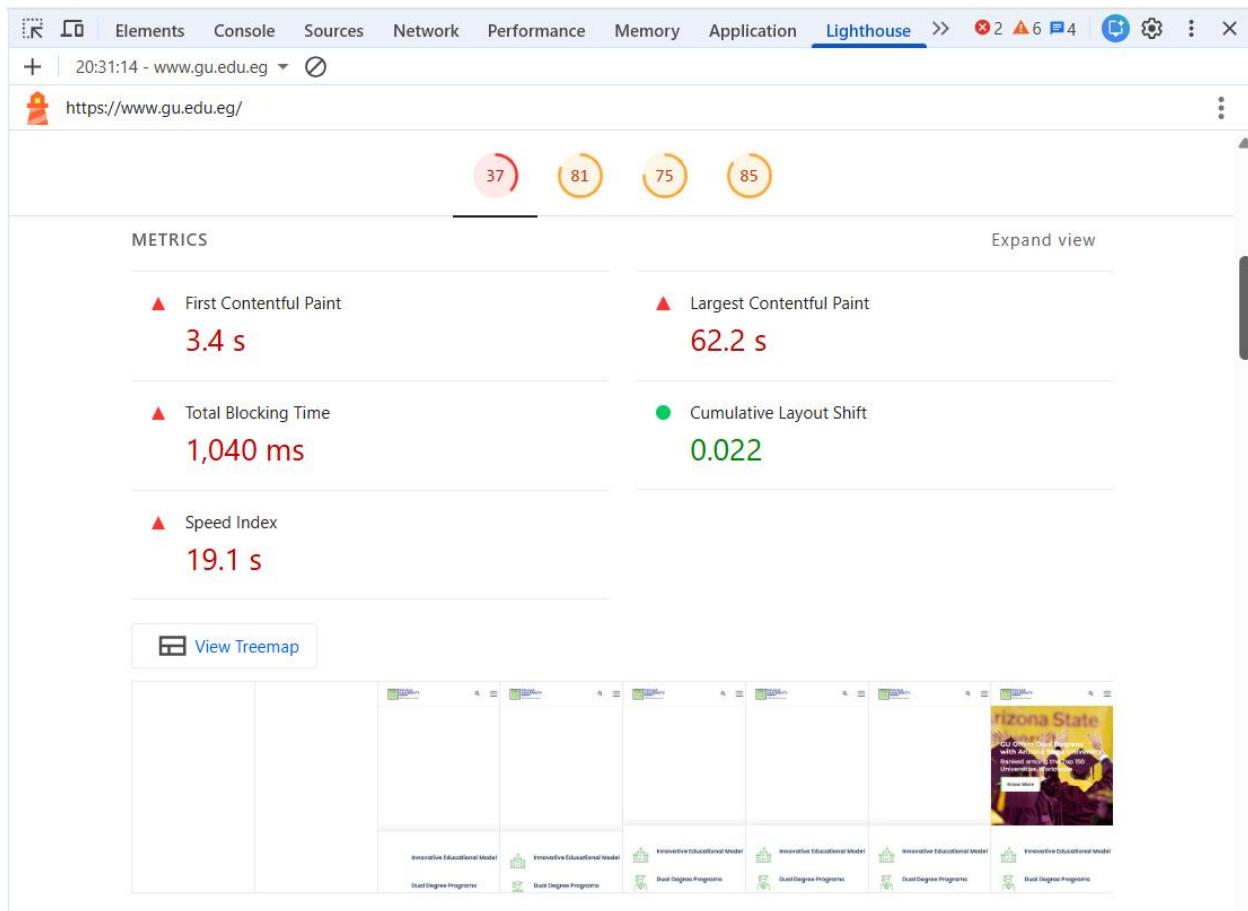
- **Observation:** The INP of 222 ms is outside the "Good" target of 200ms. This shift from excellent desktop responsiveness (10ms TBT) to "Needs Improvement" on mobile is directly caused by the high **Main-Thread Work (7.5 s)** and **JavaScript execution time (4.9 s)**, which frequently block the mobile browser from responding quickly to user taps and scrolls.

C) Cumulative Layout Shift (CLS) - Mobile

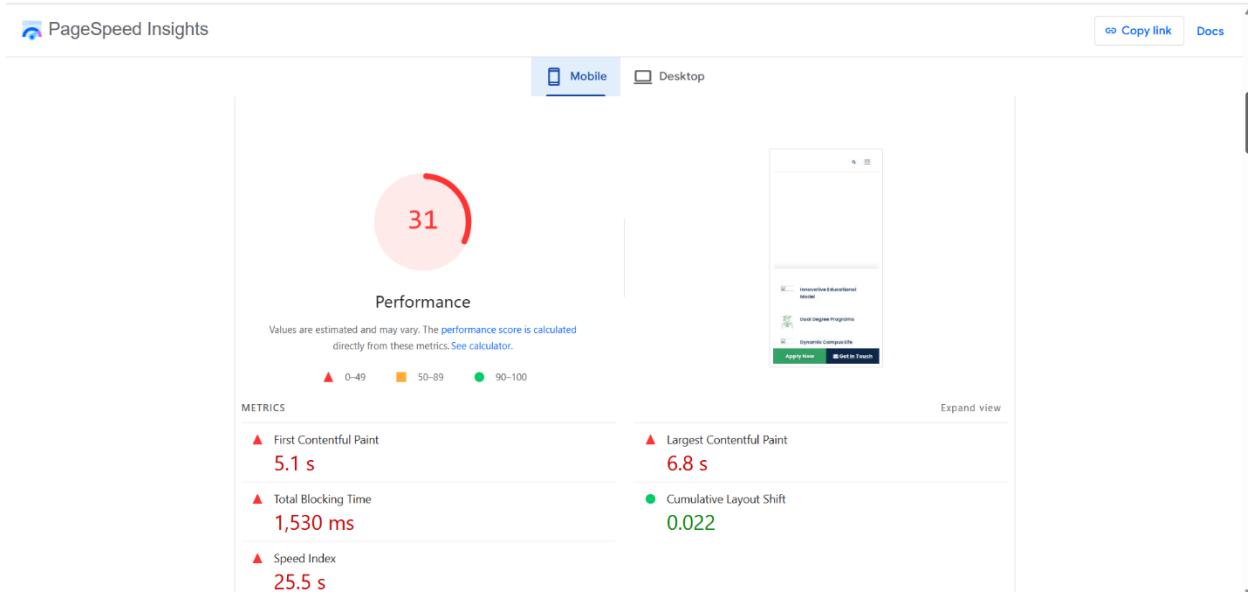
- **Value:** 0.022
- **Status:** Good
- **Observation:** Similar to the desktop version, the mobile site maintains an excellent CLS score. This is a strong positive, indicating that regardless of the slow loading speed, the page is built using proper spacing for images and content, avoiding distracting layout instability.

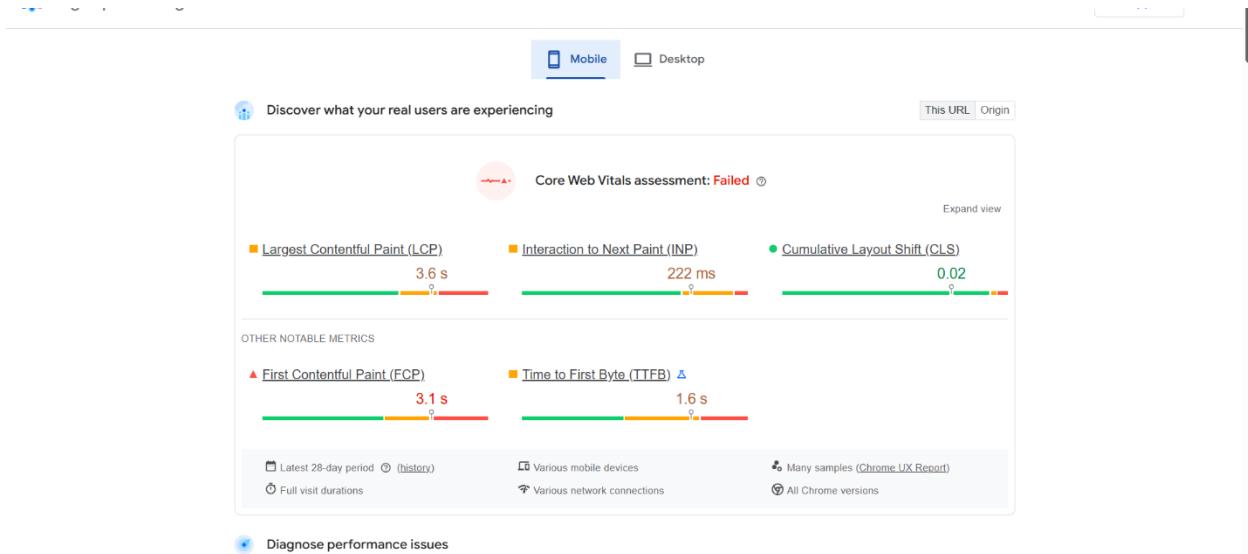
Screenshot from DEVTOOLS





Screenshot from pagespeed insight:





Top 3 Lighthouse Issues (Mobile)

The issues are the same core problems as desktop, but their impact on mobile performance is more severe due to device constraints:

- The mobile version still loads far more data than a typical smartphone connection can handle efficiently. The 13.6MB payload causes slow initial rendering and directly harms LCP.
- The browser spends more than 7 seconds executing scripts before it can fully render the page, leaving users waiting for visible content.
- Almost 3MB of JavaScript is downloaded but never needed during the first screen view. This unnecessary work blocks the main thread and slows both loading and responsiveness.

DIAGNOSTICS

- ▲ Reduce JavaScript execution time — 5.7 s
- ▲ Minimize main-thread work — 12.8 s
- ▲ Use HTTP/2 — 92 requests not served via HTTP/2
- ▲ Reduce unused CSS — Est savings of 103 KiB
- ▲ Minify JavaScript — Est savings of 36 KiB
- ▲ Reduce unused JavaScript — Est savings of 655 KiB
- ▲ Avoid serving legacy JavaScript to modern browsers — Est savings of 51 KiB
- Minify CSS — Est savings of 3 KiB
- Some third-party resources can be lazy loaded with a facade — 1 facade alternative available
- Defer offscreen images — Est savings of 6,453 KiB
- Avoid enormous network payloads — Total size was 15,353 KiB
- Avoid long main-thread tasks — 20 long tasks found

 PageSpeed Insights

[Copy link](#) [Docs](#)

[Mobile](#) [Desktop](#)

These insights are also available in the Chrome DevTools performance panel – [record a trace](#) to view more detailed information.

DIAGNOSTICS

- ▲ Minimise main-thread work — 7.5 s
- ▲ Reduce JavaScript execution time — 4.9 s
- ▲ Reduce unused CSS — Est savings of 488 KIB
- ▲ Reduce unused JavaScript — Est savings of 2,795 KIB
- Minify CSS — Est savings of 3 KIB
- Minify JavaScript — Est savings of 36 KIB
- Avoid enormous network payloads — Total size was 13,628 KIB
- Avoid long main-thread tasks — 20 long tasks found
- User Timing marks and measures — 102 user timings

More information about the performance of your application. These numbers don't [directly affect](#) the performance score.

Galala University Web Vitals Comparison

Metric	Desktop Value	Desktop Status	Mobile Value	Mobile Status
Largest Contentful Paint (LCP)	27.1 s	Unacceptable, Critical Failure	6.8 s	Very Slow, Needs Urgent Fix
Interaction to Next Paint (INP)	10 ms (TBT/Lab)	Extremely Responsive (Post-Load)	222 ms	Slight Lag Detected
Cumulative Layout Shift (CLS)	0.064	Stable Layout	0.022	Excellent Layout Stability

Third Amazon website

Website 3: Amazon

Web Vitals Measurement (Desktop)

Metric	Desktop Status
LCP (Largest Contentful Paint)	LCP Score 2.4 s Fast and Well Optimized (Content appears quickly.)
INP (Interaction to Next Paint)	INP score 16 ms Excellent Responsiveness (Clicks and inputs are near-instantaneous.)
CLS (Cumulative Layout Shift)	The CLS score of 0.1 indicates slight but acceptable layout movement. Small UI elements may shift during loading, but there are no major or disruptive jumps , and the page remains mostly stable for users.

Detailed Analysis (Desktop)

A) Largest Contentful Paint (LCP)

- **Value:** 2.4 s
- **Status:** Good
- **Observations:** The LCP is fast, falling just under the 2.5 s threshold. This indicates that Amazon is highly optimized to deliver the main product image and content quickly, likely by prioritizing these key assets in the loading sequence.

B) Interaction to Next Paint (INP)

- **Value:** 16 ms
- **Status:** Good
- **Observations:** The INP is excellent, showing extremely fast responsiveness to user input. Even though the site has complex features, the main thread is managed efficiently to handle clicks and interactions without noticeable delays.

C) Cumulative Layout Shift (CLS)

- **Value:** 0.1
- **Status:** Good (Excellent visual stability)

Observations:

- The Lighthouse desktop report shows a **perfect CLS score of 0.1**, meaning there is **no measurable layout shift** during page load.
- No banners, images, or dynamic modules are moving the page content after rendering.
- Amazon's desktop layout is fully stable because all major elements (header, search bar, hero section) allocate their layout space before loading, preventing unexpected jumps.

The screenshot shows the Chrome DevTools Performance tab open on a web page. The left sidebar displays filters for deals, department (All), brands (OURA, Nex, Samsung, Xbox), and customer reviews. The main area shows three product cards: a JOOLA Agassi/GRAF Champion Set with Pickleball Paddles, a Technivorm Moccamaster coffee maker, and a LANEK Nouris 16% cl. The right side displays the 'Local metrics' panel with the following data:

- Largest Contentful Paint (LCP):** 1.59 s (Your local LCP value of 1.59 s is good.)
- Cumulative Layout Shift (CLS):** 0.90 (Your local CLS value of 0.90 is poor. Worst cluster shifts.)
- Interaction to Next Paint (INP):** 16 ms (Your local INP value of 16 ms is good.)

The 'Next steps' and 'Environment settings' panels provide links to setup and throttling options. The bottom right shows interaction details for an INP event.

amazon Deliver to Egypt All Search Amazon

All Cyber Monday Registry Prime Video Gift Cards Customer Service Sell

Premium Beauty Premium Makeup Premium Skin Care Premium Fragrance Premium Hair Care

Beauty & Personal Care > Skin Care > Face > Facial Kits

LANE

LANEIGE Li Sleeping M Nourish, Hy Vitamin C, Murumuru Shea Butter Antioxidant Flaky, Dry L
4.6 ★★★★☆ ratings
Amazon's Choice
1K+ bought in past month
Ends in 14:24:36
-30% \$23¹⁰ count)

Click to see full view

Performance: 77

Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

▲ 0-49 ■ 50-89 ● 90-100

METRICS

Metric	Value
First Contentful Paint	1.6 s
Largest Contentful Paint	2.4 s

Expand view

amazon Deliver to Egypt All Search Amazon

All Cyber Monday Registry Prime Video Gift Cards Customer Service Sell

Premium Beauty Premium Makeup Premium Skin Care Premium Fragrance Premium Hair Care

Beauty & Personal Care > Skin Care > Face > Facial Kits

LANE

LANEIGE Li Sleeping M Nourish, Hy Vitamin C, Murumuru Shea Butter Antioxidant Flaky, Dry L
4.6 ★★★★☆ ratings
Amazon's Choice
1K+ bought in past month
Ends in 14:24:13
-30% \$23¹⁰ count)

Click to see full view

Performance: 77

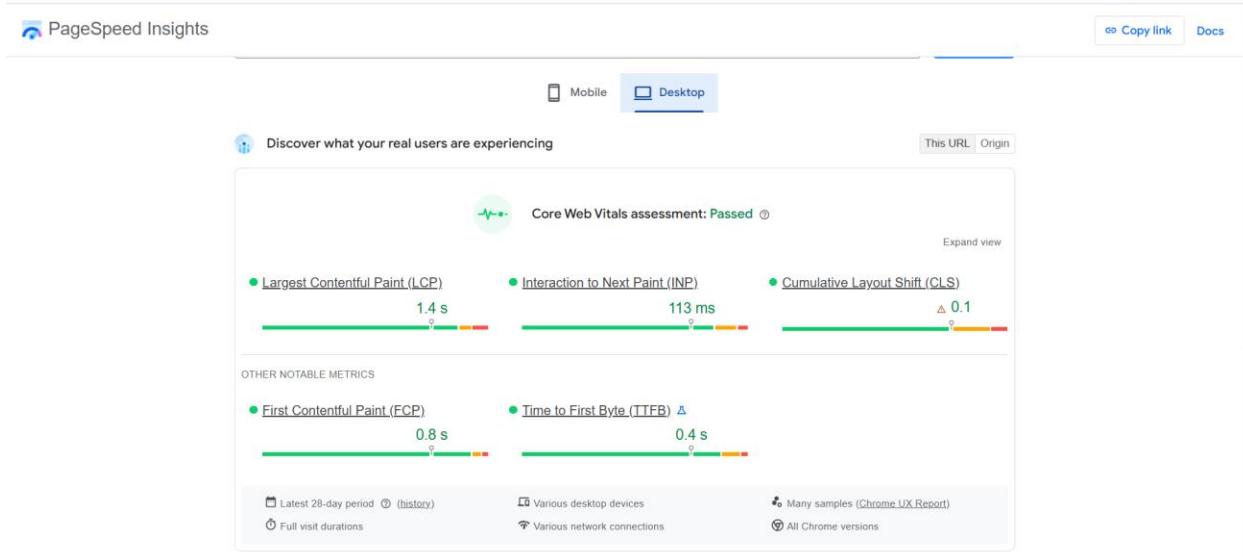
Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

▲ 0-49 ■ 50-89 ● 90-100

METRICS

Metric	Value
First Contentful Paint	1.6 s
Largest Contentful Paint	2.4 s
Total Blocking Time	70 ms
Cumulative Layout Shift	0.009
Speed Index	2.3 s

Expand view



Top 3 Lighthouse Issues (Desktop)

1. **Minimize main-thread work (4.5 S):** The biggest bottleneck is the browser's main processor being tied up executing scripts, even though the total payload size is relatively low.
2. **Reduce unused JavaScript (Est savings of 712 KiB):** A large amount of JavaScript is downloaded but not immediately needed, contributing to the main-thread blocking.
3. **Reduce JavaScript execution time 1.7 s:** While the total execution time is manageable, reducing this further would free up the main thread and improve interactivity.

These insights are also available in the Chrome DevTools Performance Panel - [record a trace](#) to view more detailed information.

DIAGNOSTICS

- ▲ Reduce unused JavaScript — Est savings of 712 KiB
- ▲ Reduce unused CSS — Est savings of 198 KiB
- ▲ Reduce JavaScript execution time — 1.7 s
- ▲ Minimize main-thread work — 4.5 s
- Defer offscreen images — Est savings of 21 KiB
- Avoid serving legacy JavaScript to modern browsers — Est savings of 55 KiB
- Avoid enormous network payloads — Total size was 2,783 KiB
- Avoid long main-thread tasks — 12 long tasks found
- User Timing marks and measures — 1 user timing

More information about the performance of your application. These numbers don't [directly affect](#) the Performance score.

Web Vitals Measurement (mobile):

Metric	Mobile Value	Mobile Status
A) LCP	1.4 s	Excellent Speed (Loads well ahead of time.)
B) INP	159 ms	Responsive and Quick (Well within the ideal goal.)
C) CLS	0	Exceptional Stability (The mobile layout shows no measurable shifts, and all elements remain fully stable during loading.)

Screenshot of the Amazon product page for LANEIGE Li Sleeping Mask, analyzed by the Lighthouse Performance tool.

Local metrics:

- Largest Contentful Paint (LCP):** 3.25 s (Needs improvement)
- Cumulative Layout Shift (CLS):** 0.70 (Needs improvement)
- Interaction to Next Paint (INP):** 72 ms (Good)

Interactions:

Interaction	Type	Value
pointer	input.a-button-input	48 ms
pointer	input.a-button-input	72 ms

Next steps:

- Field metrics:** Set up to compare local metrics with real user data.
- Environment settings:** Configure throttling for CPU, Network, and Disable network cache.
- Record:** Record interactions for analysis.
- Record and reload:** Record interactions and reload the page.

Screenshot of the PageSpeed Insights report for the same product page.

Core Web Vitals assessment: Passed

Key Metrics:

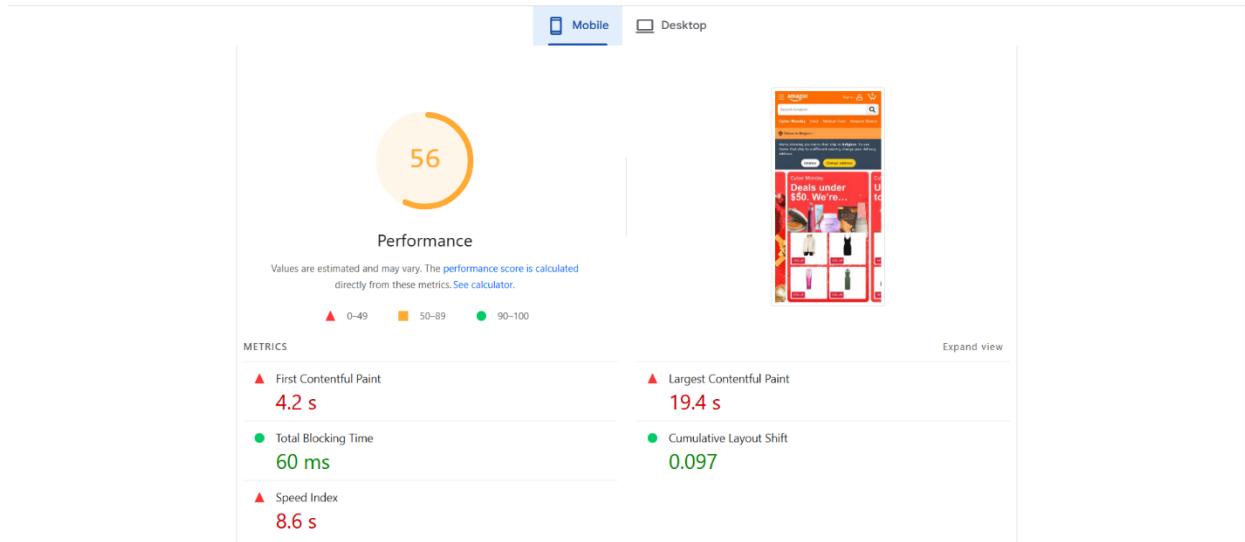
- Largest Contentful Paint (LCP):** 1.4 s
- Interaction to Next Paint (INP):** 159 ms
- Cumulative Layout Shift (CLS):** 0
- First Contentful Paint (FCP):** 1.2 s
- Time to First Byte (TTFB):** 0.8 s

Other Notable Metrics:

- Latest 28-day period
- Full visit durations
- Various mobile devices
- Various network connections
- Many samples (Chrome UX Report)
- All Chrome versions

Diagnose performance issues:

- Performance: 56
- Accessibility: 87
- Best Practices: 92
- SEO: 92



amazon.com/LANEIGE-Plump-Hydrate-Trio-Plump-looking/dp/B0DQ6BX18N?pd_rd_w=XP0Km&content_id=amzn1.sym.e7d4a916-4207-496f-8c0f-f0b4bc8e128f&pf_rd_p=e7d4a916-4207-496...

Elements Console Sources Network Performance Memory Application **Lighthouse** 6 18 [�](#) [⟳](#) [✖](#)

19:16:20 - www.amazon.com [🔗](#)

https://www.amazon.com/LANEIGE-Plump-Hydrate-Trio-Plump-looking/dp/B0DQ6BX18N?pd_rd_w=XP0Km&content_id=amzn1.sym.e7d4a916-4207-496...

Performance Accessibility Best Practices SEO

Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. [See calculator.](#)

▲ 0-49 ■ 50-89 ● 90-100

METRICS	Value
First Contentful Paint	5.4 s
Largest Contentful Paint	8.0 s

[Expand view](#)

The screenshot shows the Amazon mobile website for LANEIGE skincare products. The Lighthouse audit results are displayed on the right, indicating a performance score of 29. The audit highlights several issues:

- First Contentful Paint:** 5.4s (red)
- Largest Contentful Paint:** 8.0s (red)
- Total Blocking Time:** 1,370 ms (red)
- Cumulative Layout Shift:** 0.169 (yellow)
- Speed Index:** 5.7s (yellow)

Top 3 Lighthouse Issues (Mobile)

- Minimise main-thread work (4.6 s):** The mobile processor is heavily burdened by JavaScript parsing and execution, which slows down the perceived load time (indicated by the poor lab score of 56).
- Avoid enormous network payloads (Total size 11,643 KiB):** The total page weight of over 11.6 MB is too large for optimal mobile performance, increasing data usage and download time significantly.
- Reduce JavaScript execution time (1.6 s):** The scripts take too long to run, directly contributing to the main-thread blocking issue mentioned above.

The screenshot shows the Google PageSpeed Insights report for the LANEIGE product page. The mobile score is 56 and the desktop score is 62. The report provides detailed diagnostics:

- Layout shift culprits:** 1
- Third parties:** 1
- JavaScript execution time:** 1.6s (red)
- Main-thread work:** 4.6s (red)
- Unused JavaScript:** Est savings of 242 KiB (yellow)
- Image elements:** Image elements do not have explicit width and height (yellow)
- Unused CSS:** Est savings of 96 KiB (yellow)
- Network payloads:** Total size was 11,643 KB (yellow)
- Long main-thread tasks:** 4 long tasks found (yellow)
- Non-composited animations:** 14 animated elements found (yellow)

Amazon Web Vitals Comparison

Metric	Desktop Value	Desktop Status	Mobile Value	Mobile Status
Largest Contentful Paint (LCP)	2.4 s	Fast and Well Optimized	1.4 s	Excellent Speed
Interaction to Next Paint (INP)	16 ms	Excellent Responsiveness	159 ms	Responsive and Quick
Cumulative Layout Shift (CLS)	0.1	Minor Layout Movement (Upper edge of Good)	0	Exceptional Stability

Final Comparison Table for three websites

Cross-Website Performance Comparison

Metric	Amazon	BBC Sport	Galala University
Performance Score (Desktop Lighthouse)	86	46	12
Avg Load Time (DevTools)	3.57 s	9.19 s	23.50 s
Avg Page Size	5.63 MB	4.0 MB	27.3 MB
Avg Requests	355	242	248
LCP (Largest Contentful Paint)	2.4 s	1.6 s	27.1 s
INP (Interaction to Next Paint)	16 ms	35 ms	10 ms
CLS (Cumulative Layout Shift)	0.1	0.167	0.064

Metric	Amazon	BBC Sport	Galala University
Overall Ranking	1st	2nd	3rd (Worst)

Worst-Performing Website Analysis (Galala University)

Galala University performs the worst due to several critical issues:

Three Performance Bottlenecks

1. Excessive page size

The page loads between 18–35 MB of data, far above acceptable limits.

2. Heavy JavaScript execution

Main-thread blocking exceeds 7 seconds, delaying rendering and user interaction.

3. Large unoptimized images

Many images load in full resolution without compression, lazy loading, or modern formats.

B. Optimization Recommendations

1. Image Optimization

- Compress and convert images to WebP/AVIF.
- Enable lazy loading for offscreen images.
- Resize oversized hero images.
- Define width and height attributes to ensure layout stability.

2. Code Optimization

- Remove unused JavaScript and CSS (estimated saving > 2 MB).
- Minify and bundle CSS and JS.
- Defer non-critical scripts.
- Implement code splitting for modular loading.

3. Caching & Delivery

- Enable browser caching for static assets.
- Use a CDN for global distribution.
- Enable Brothli or Gzip compression.
- Preload critical CSS and key web fonts.

Conclusion

The performance evaluation revealed clear differences between the three websites.

Amazon demonstrated the strongest optimization, with fast loading and excellent responsiveness.

BBC Sport delivered moderate performance but suffered from heavy JavaScript and layout shifts.

Galala University performed poorly due to extremely large payload sizes, long main-thread blocking times, and unoptimized resources.

The recommendations provided—particularly image compression, JS reduction, and caching—would significantly improve its loading speed and Core Web Vitals, resulting in a more modern and user-friendly experience.