



» roastmarket

b THE
BOUTIQUE
AGENCY

CASE STUDY | Google Mobile Web

Spring 2022

HOW IT CAME TO THE CASE STUDY

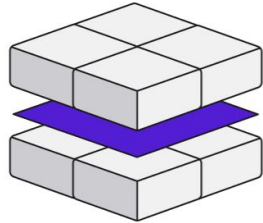
2021



» **roastmarket**



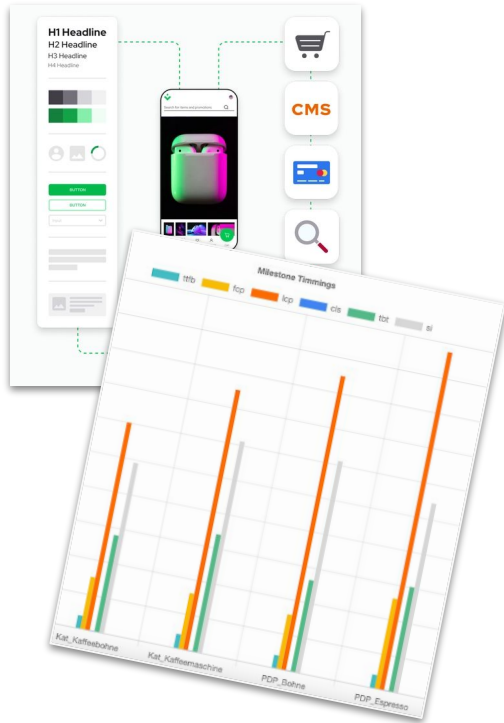
roastmarket & The Boutique Agency are long-term partners in online marketing. In 2021, **roastmarket** focused on SEO.



In 2021, **roastmarket** also switched to a headless CMS and the boutique agency's SEO team guided this change in terms of website quality.

HOW IT CAME TO THE CASE STUDY

2022



After successfully switching to the Headless CMS, the focus of the SEO strategy was on an improved mobile experience as well as web performance.

For this, The Boutique Agency took a methodical approach and was able to gain feedback from Google for the project in the course of the mobile certification of the agency's SEO department.



The Team

CASE STUDY TEAM

The Boutique Agency & roastmarket Team



Darius Greulich

Director Customer
Experience

Michael Ryvlin

Director IT

Patrick Täufer

Frontend Developer

 **roastmarket**

CASE STUDY TEAM

The Boutique Agency & roastmarket Team



Lisa Fellinger

Team Lead SEO

Alin Radulescu

Technical SEO
Consultant



Despina Fronimaki

Technical SEO Lead

Sarah Zeus

Specialist Automation
& Content

Verena Lahner

Specialist Website
Usability

Johanna Dietrich

Specialist Website
Usability



TEAMWORK

roastmarket & The Boutique Agency



ROASTMARKET

Michael Ryvlin and Patrick Täufer led the technical discussions, suggested areas for improvement, and conducted testing and implementations.



THE BOUTIQUE AGENCY

Lisa Fellingner and Alin Radulescu analyzed the web performance of **roastmarket** and provided optimisation recommendations.



Initial Situation

WHO IS ROASTMARKET?

roastmarket is on the way to becoming the online market leader in coffee retailing



roastmarket Kaffeebohnen, Maschinen & Zubehör finden... [Mein Konto](#) [Wunschliste](#) [Warenkorb](#)

Nur bei uns Kaffee & Espresso Marken Probierpakete Kaffeemaschinen Kaffe Zubehör Süßes Tee **Angebote**

Erleben Sie maximalen Kaffeegenuss

Entdecken Sie eine große Auswahl an Maschinen und Kaffees von Melitta

[Jetzt entdecken](#)

ÜBER 50% RABATT

roastmarket is a fast-growing e-commerce company specializing in coffee products, such as coffee beans and coffee accessories like machines, but also tableware.

In July 2021, roastmarket was acquired by 72 % of the German coffee company Melitta and aims to become Germany's online market leader in coffee retail.

roastmarket



Europe's largest online retailer for coffee, coffee machines and accessories (>4,000 products)



Founded: 2014



Our Mission: To Provide the Best Customer Experience for Coffee Lovers & show the full world of Coffee to everyone



Our purpose: great coffee for everyone & everywhere

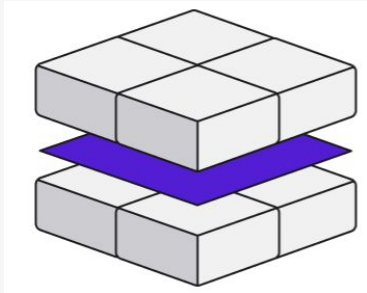


Over 65.000 happy customers

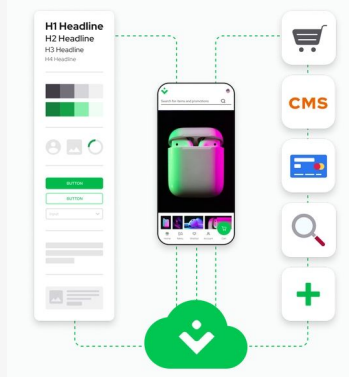


COMPONENTS OF THE OPTIMISATION 2021 / 2022

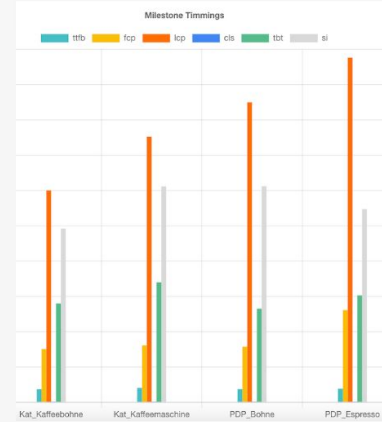
Clear objectives for roastmarket



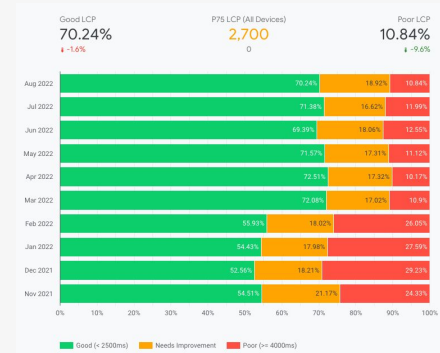
Switch to
Headless CMS
via Vue
Storefront



Better Mobile
Experience



Web Performance
Optimisation



Google
Core Web Vital
Optimisation

HOW THIS PROJECT WAS SPECIAL

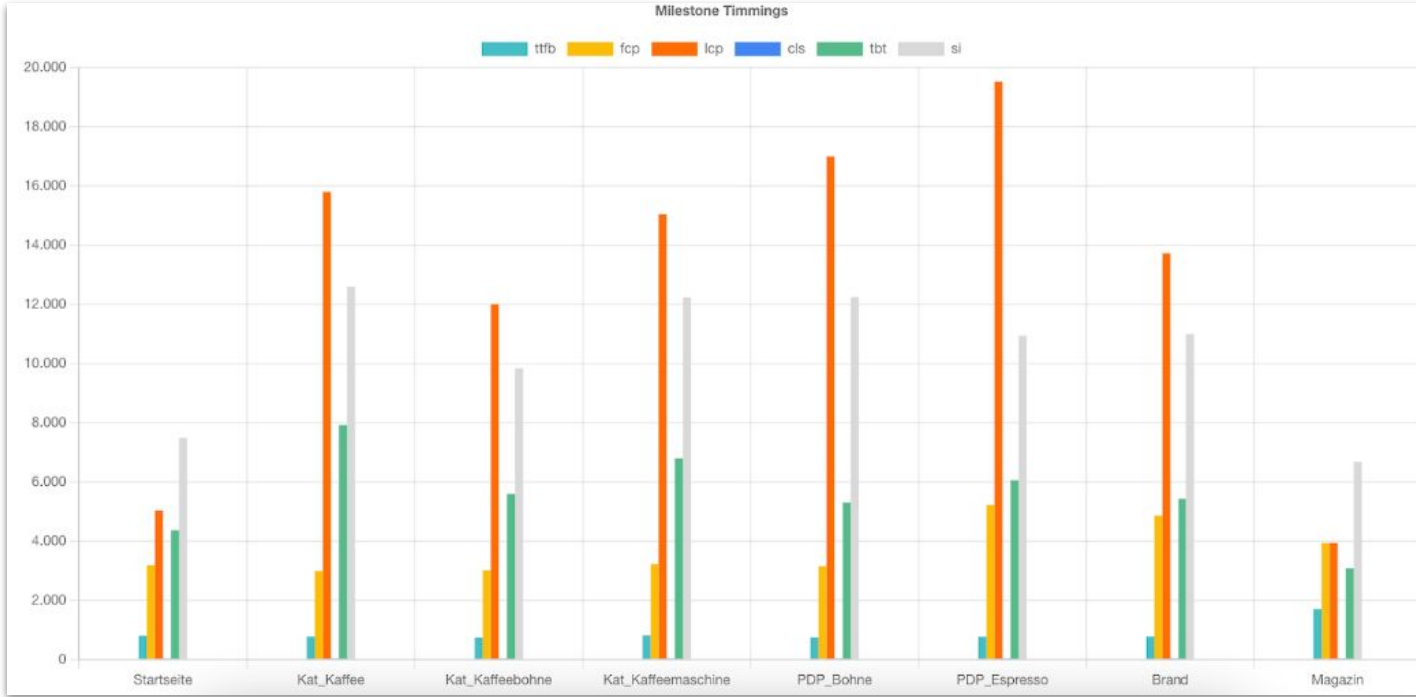
An interesting project beyond everyday customer collaboration



In order to achieve their goal of becoming Germany's online leader in the coffee selling business, they are very open to change.

INITIAL SITUATION - FEBRUARY 2022

Inventory of key performance metrics for specific page types



The inventory of performance metrics showed that optimisations should be focused on reducing Total Blocking Time and Largest Contentful Paint load time as well as Cumulative Layout Shift on category pages and PDPs.

y-axis: in ms

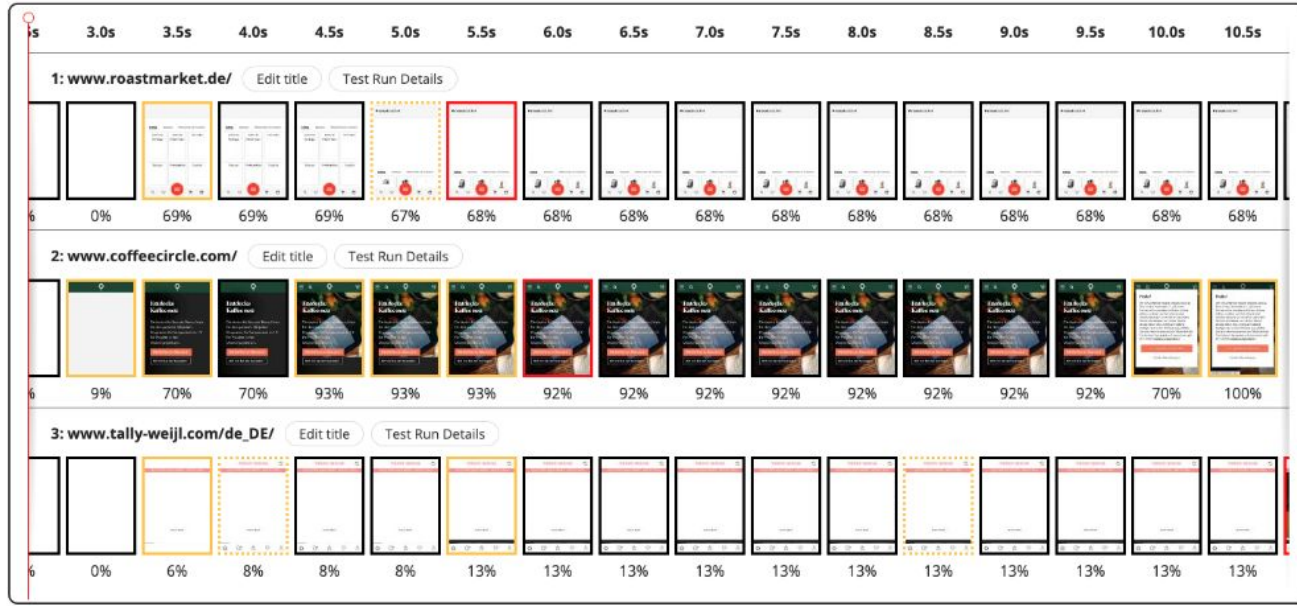
INITIAL SITUATION - FEBRUARY 2022

Competitor comparison by industry and CMS



Filmstrip key: Visual change Visual change + Layout Shift Largest Contentful Paint Largest Contentful Paint + Layout Shift

Adjust Filmstrip Settings



The loading times were compared for the Largest Contentful Paint from www.roastmarket.de/ and

a) www.coffeecircle.com/, because it is a competitor in the industry, and



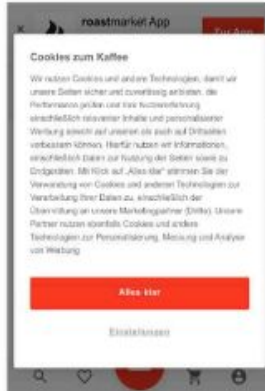


b) www.tally-wejl.com/de_DE/ due to the use of the same CMS.

Here, **roastmarket.de** was in second place behind **coffeecircle.com** in February 2022.

INITIAL SITUATION - FEBRUARY 2022

Competitor comparison for specific page types on relevant keywords



					
page type & keyword →	Startseite 211208_BiDcQG_a69a51267i	Kat_Kaffee 211208_BiDcN0_d2627dce1C	Kat_Kaffebohne 211213_BiDcSY_3af39129caf	Kat_Kaffeemaschine 211208_AiDcXC_a330ad6dbf	PDP_Bohne 211213_BiDcV2_acc0e49686
	Competitors	Competitors	Competitors	Competitors	Competitors
competitor →	Coffeecircle 211208_AiDcJT_2a148f3ebbf	Coffeecircle 211208_AiDc98_611dd3614i	Kaffee24 211213_BiDcXF_7f5613d952	Kaufland 211208_AiDc6D_48fd8b336C	Esspresso 211213_BiDc2W_1d45b093f
	Tally Weijl 211208_BiDcHG_694558e2ft	Kaffeezentrale 211208_BiDc9V_e35fff2a949	Kaffeevorteil 211213_BiDc6E_0d2a7b430e	Otto 211208_BiDcJC_d62555e67a	Geizhals 211213_AiDc88_309208648!

INITIAL SITUATION - FEBRUARY 2022

Status Quo of the performance budgets



MIME Type	Bytes ▼	Uncompressed
js	1,246,441	4,975,654
image	905,857	908,477
html	201,612	1,160,810
css	54,532	515,754
other	25,383	118,233
flash	0	0
font	0	0
video	0	0

Taking the performance budget per page type. Here using the example of the homepage.

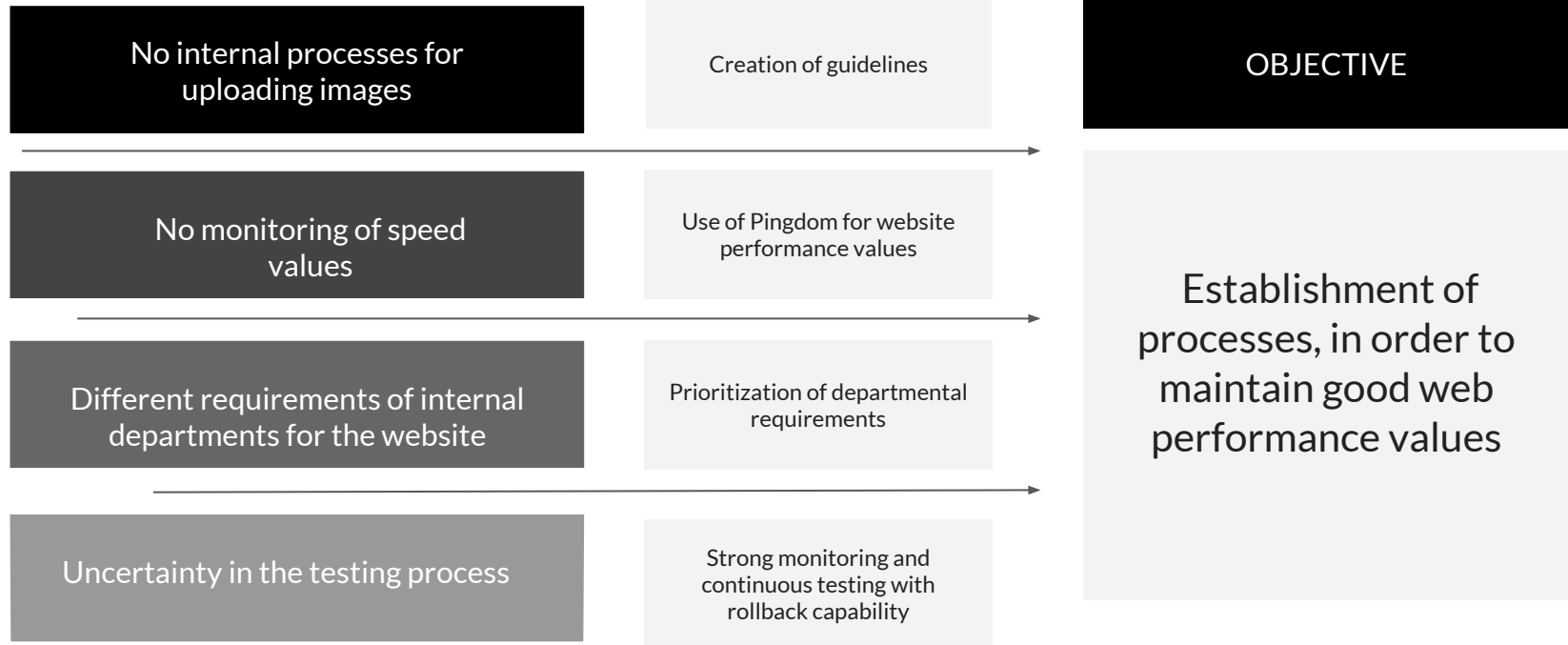
Source: [webpagetest.org](https://www.webpagetest.org)



Challenges

CHALLENGES FOR ROASTMARKET

And possible solutions

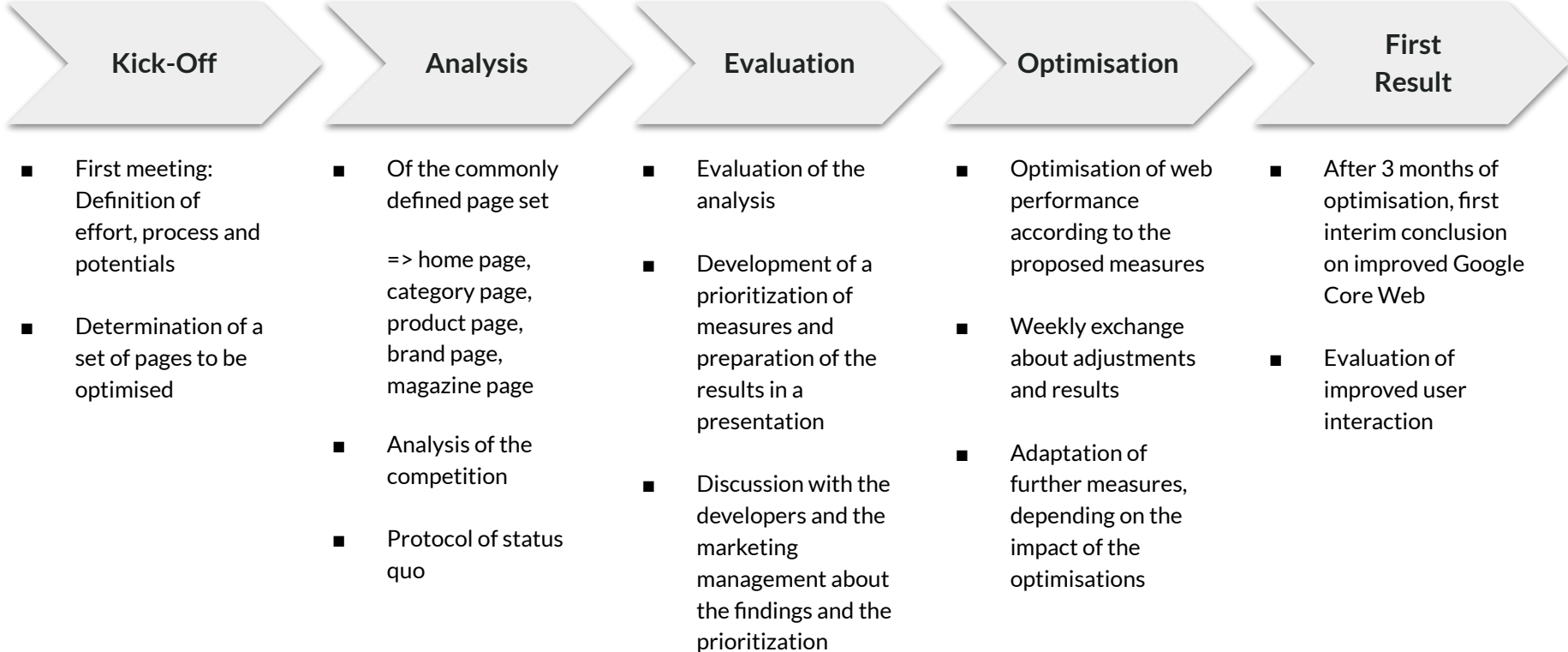




Procedure

PROCEDURE

Roadmap to a better web performance



The background features a lush green wall with various leafy plants. A white, stylized geometric pattern, resembling a series of overlapping triangles or a lattice, is superimposed on the wall. The word "Measures" is written in a bold, white, sans-serif font, centered horizontally and partially overlaid by a large, semi-transparent white letter 'b' that serves as a design element.

Measures

MEASURES FOR OPTIMISED GOOGLE CORE WEB VITALS



Prioritization according to impact, time and effort

Reduction JS size and execution time

The execution time of JS is 22,701 ms in total and should be reduced through targeted orchestration.



Consideration DOM size

The DOM contains 5,012 elements and should be slimmed down.



Reduction high TTFB magazine

Status quo: 1164 ms. A good value is 350 ms.



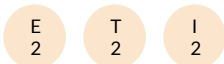
Reduction ThirdParty

A total of 20 ThirdParty Requests are made. The actual use of these requests should be checked.



Preload Fonts

Text should be visible during loading. Positive effects on FCP and LCP.



Correct sizing of the images

Many images do not have a default Width and Height, which leads to recalculation of the browser. Images should already be provided with correct dimensions.



Implementation lazy-loading

Lazyload is not yet used for images in the non-visible area. This can save time for interactivity of the page.



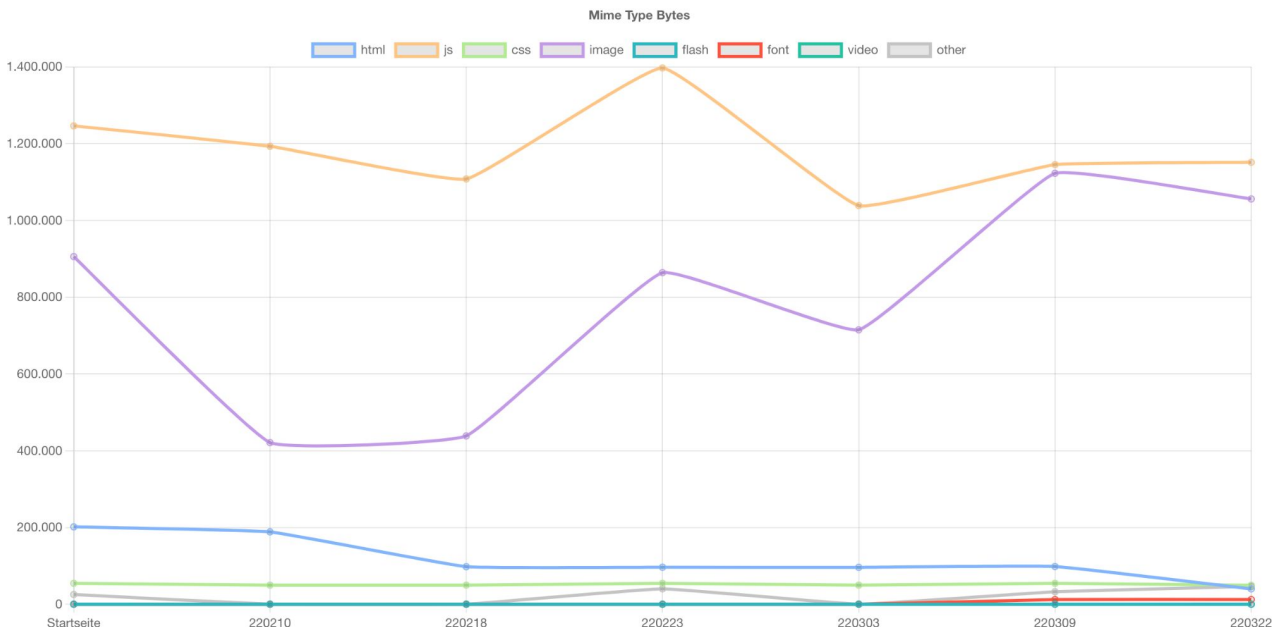
Inline load SVG-Logos

Many brand logos are currently formatted as JPGs. Since the logos are integrated in the navigation, this results in a large number of requests. Loading the logos inline can save considerable time.



DEFINITION OF PERFORMANCE BUDGETS

Structured approach to optimise the size of resources



Optimisation of performance budgets

1. Logging the status quo of the size of all data types.
For example: 201,612 bytes for the HTML of the home page.
2. Determining a target value, like getting 20 % better than the current status quo.
→ **Target:** 161,292 bytes for the HTML of the home page in 2 months.



Timeframe

TIMEFRAME

December 2021 until March 2022



December 2021

Initial presentation of the project

February

Start web performance optimisation

January 2022

Definition of a set of pages to be optimised. Analysis and presentation of results

March

End first stage web performance optimisation





Results

SUMMARY

From the objective to the results



METRIC	Cumulative Layout Shift	Largest Contentful Paint	First Input Delay	Others
PAGE TYPE	- all pages - category pages - product pages	- all pages - product pages	all pages	all pages
RESULT	<ul style="list-style-type: none">→ no Redirects on images→ Inline delivery of SVG images→ lazy loading product images	<ul style="list-style-type: none">→ low image resolution→ Consent Manager is triggered by user interaction	less important scripts were placed at the end of the rendering process to speed it up	Reduction of HTML (effect on the total blocking time) => from compressed 204 kB to 189 kB

IMPROVEMENT

Largest Contentful Paint



Filmstrip key: Visual change Visual change + Layout Shift Largest Contentful Paint Largest Contentful Paint + Layout Shift

[Adjust Filmstrip Settings](#)



The Largest Contentful Paint has temporarily improved by 4 seconds and now averages 2 seconds in Repeat View (as of the end of 2022).

IMPROVEMENT

Largest Contentful Paint



Largest Contentful Paint (LCP)

Origin

<https://www.roastmarket.de>

Source

Chrome UX Report



IMPROVEMENT

Cumulative Layout Shift



Cumulative Layout Shift (CLS)

Origin

<https://www.roastmarket.de>

Source

Chrome UX Report



IMPROVEMENT

First Input Delay



First Input Delay (FID)

Origin

<https://www.roastmarket.de>

Source

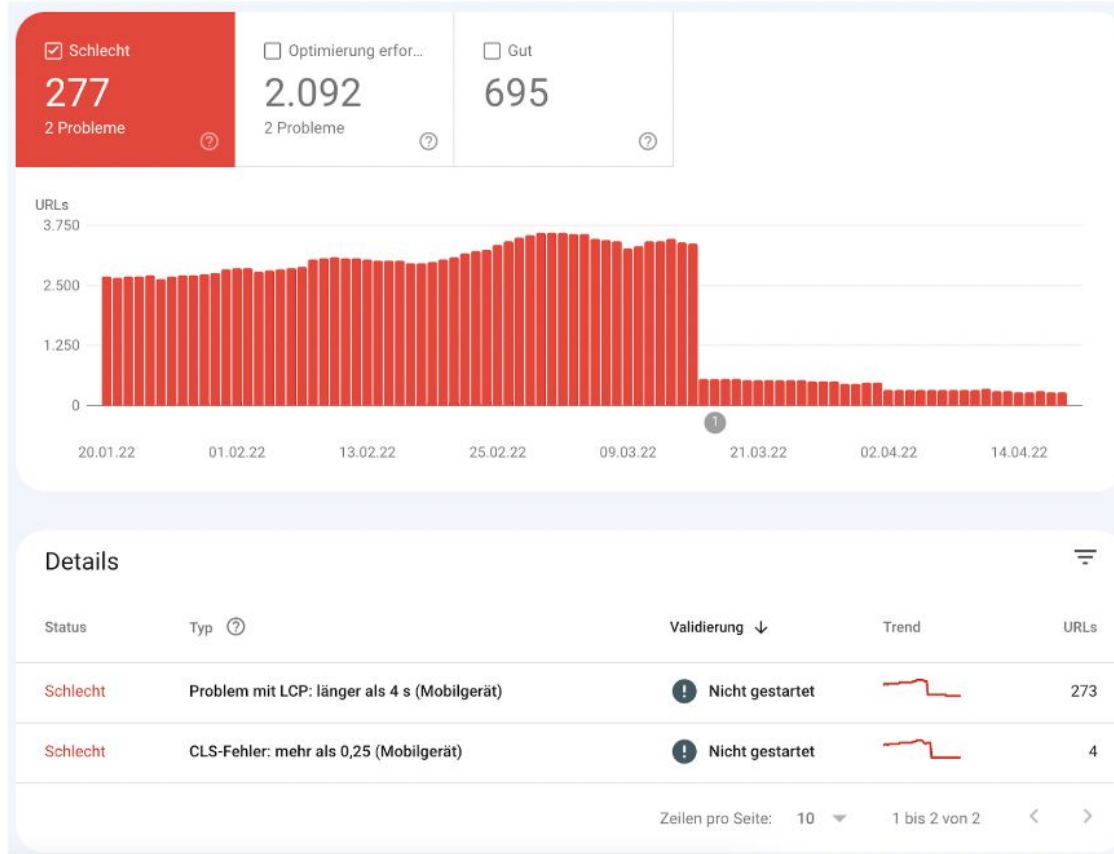
Chrome UX Report



Quelle: CrUX-Dashboard

IMPROVEMENT

Positive Development in the Core Web Vital Report in Google Search Console



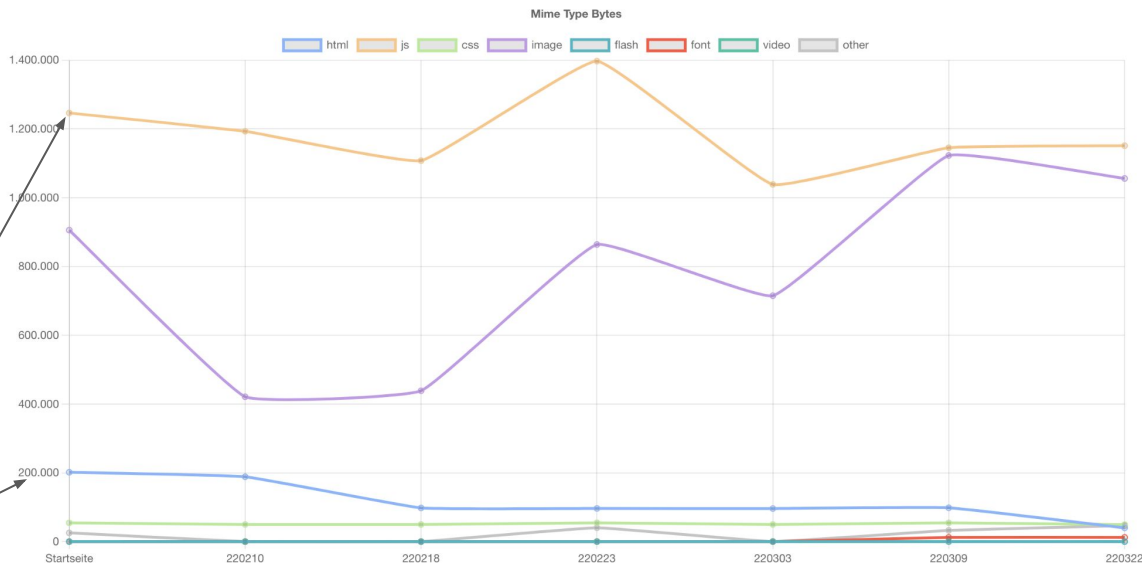
Source: Google Search Console

IMPROVEMENT

Wavelike development of performance budget optimisation



Depending on the optimisation, certain data types showed a positive development. Others rather a wavelike one.



JavaScript and HTML resources were successfully reduced.

Source: own visualisation

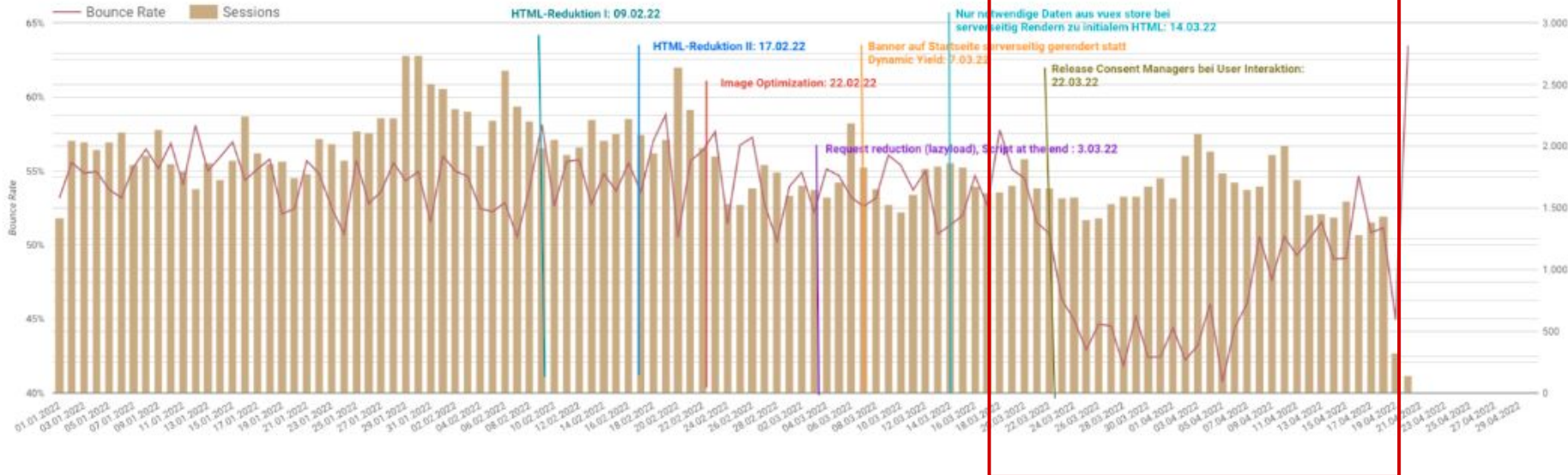
MIME Type Bytes	html	js	css	image	flash	font	video	other
Startseite	201,612	1,246,441	54,532	905,857	0	0	0	25,383
220210	188,523	1,193,425	49,782	421,201	0	0	0	260
220218	97,948	1,107,992	49,782	438,626	0	0	0	260
220223	96,433	1,397,382	54,538	863,984	0	0	0	40,137
220303	96,146	1,038,724	49,787	715,078	0	0	0	260
220309	98,361	1,145,514	54,538	1,122,876	0	12,288	0	32,511
220322	39,998	1,151,431	49,451	1,056,084	0	12,288	0	46,232

IMPROVEMENT

Of the domain-wide bounce rate



Domain

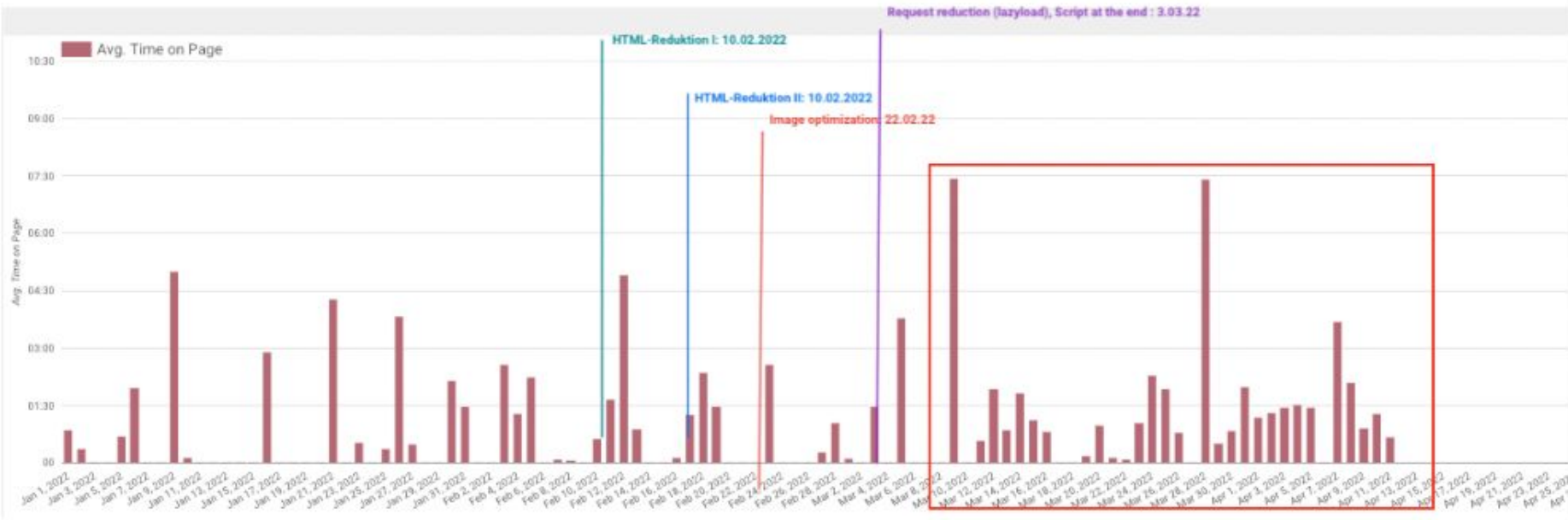


IMPROVEMENT

Of the average page visit duration for optimised category pages



Category: <https://www.roastmarket.de/kaffeemaschinen.html>

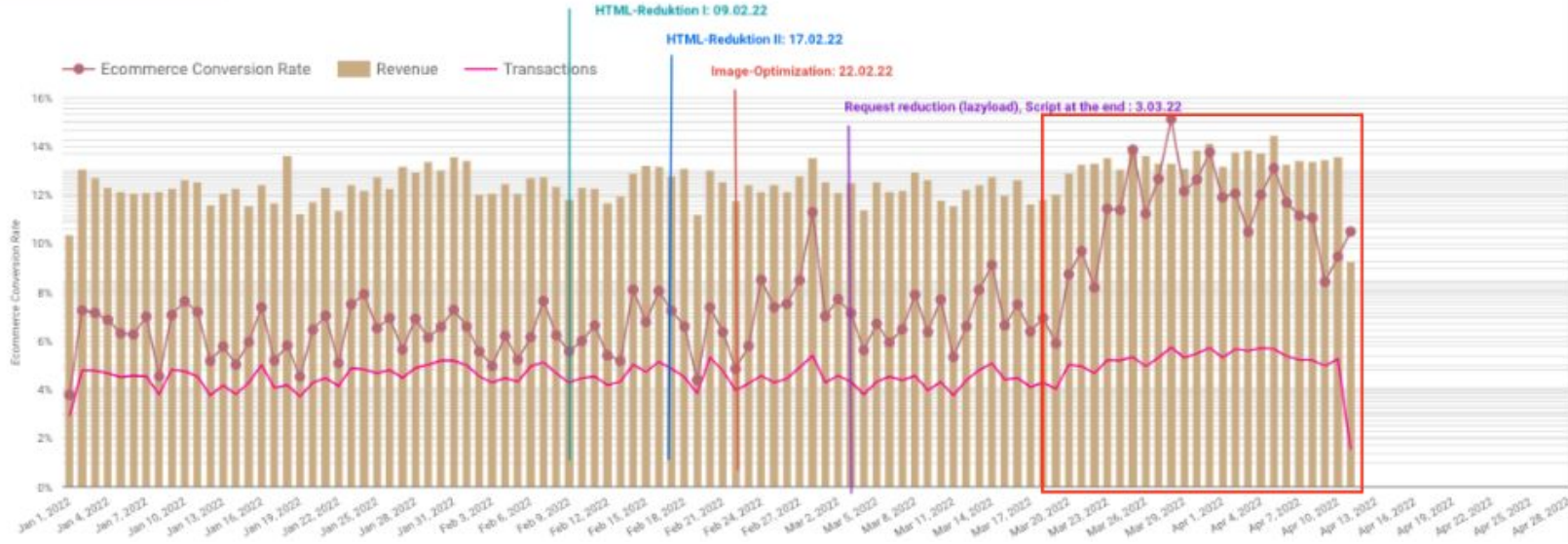


IMPROVEMENT

Of the e-commerce conversion rate from 7 % to generally over 10 %



Domain



Monat Jahr ▾	Ecommerce Conversi...	Monat Jahr ▾	Ecommerce Conversi...
Apr 2022	11.32%	Jun 2021	4.57%
Mar 2022	9.09%	May 2021	4.9%
Feb 2022	6.25%	Apr 2021	5.24%
Jan 2022	6.42%	Mar 2021	7.44%

Which is not due to seasonal effects.

IMPROVEMENT

Increase in Sistrix visibility with marker B as the end point of the optimisation measures



IMPROVEMENT

Competitor comparison by industry and CMS



Filmstrip key: Visual change Visual change + Layout Shift Largest Contentful Paint Largest Contentful Paint + Layout Shift

+ Adjust Filmstrip Settings



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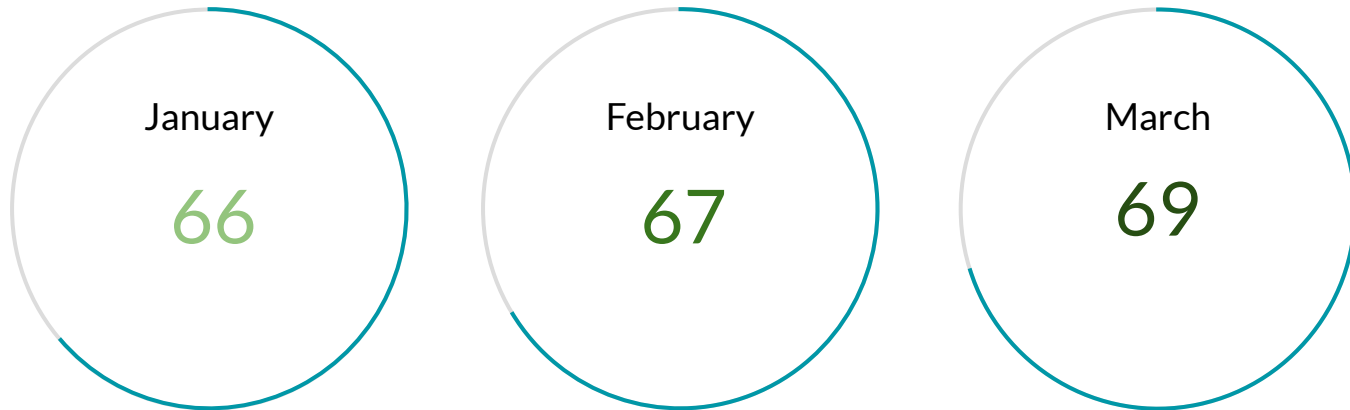
Here, roastmarket.de was in first place in April 2022, after optimisation, and has thus overtaken competitor coffeecircle.com.

IMPROVEMENTS

User Experience



Users were surveyed about their shopping experience via Zenloop after checkout.
The overall Net Promoter Score changed from:



KEY RESULTS

Web performance as an integrative process beyond pure performance optimisation



PROCESS- ESTABLISHMENT

Establishment of internal processes to monitor web performance in the future



KNOWLEDGE- GAINS

A better understanding by web developers of optimisation opportunities and their effects



IMPROVEMENT USER EXPERIENCE

A measurably better page perception for users



A top-down view of a white coffee cup filled with a latte. The coffee has a rich brown color with intricate latte art on top, featuring a central leaf-like pattern with radiating lines. The background is dark, and a green leaf is visible on the left side.

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b THE
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AGENCY

THANK YOU!

Contact:

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