



ARE THEY REALLY USING IT?

# MONITORING DIGITAL EXPERIENCE TO DETERMINE FEATURE EFFECTIVENESS

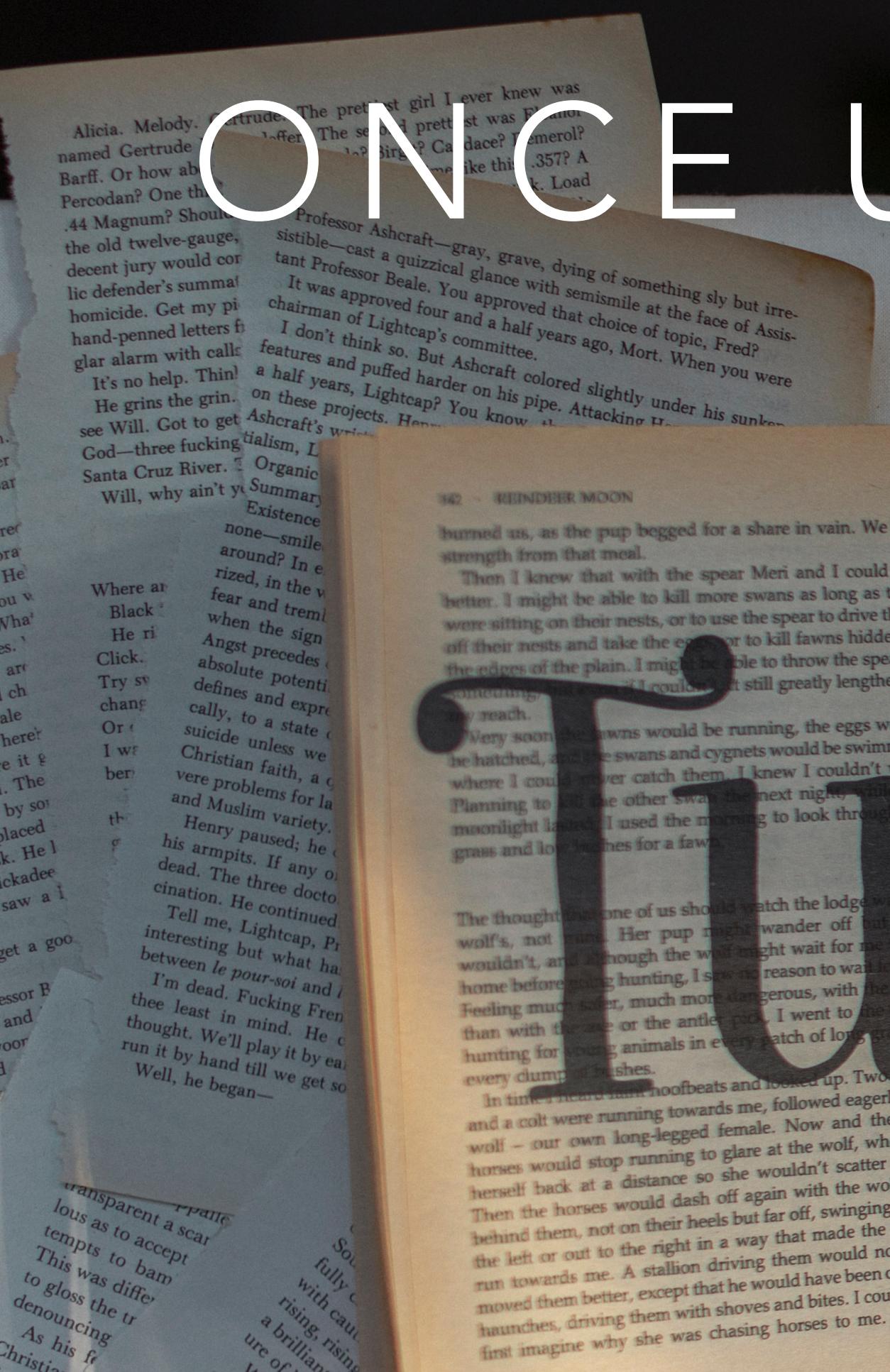
CARLY RICHMOND





# RED ALERT!

# ONCE UPON A TIME...



Alicia. Melody. Gertrude. The prettiest girl I ever knew was named Gertrude. The second prettiest was Edna. ... Sir? Cadace? Emerol? Barf. Or how about Percodon? One thing. Magnum? Should the old twelve-gauge, decent jury would consider Professor Ashcraft—gray, grave, dying of something sly but irresistible—cast a quizzical glance with semimile at the face of Assistant Professor Beale. You approved that choice of topic, Fred? homicide. Get my penmanship done. Get my hand-penned letters featuring and puffed harder on his pipe. Attacking him. I don't think so. But Ashcraft colored slightly under his sunken features and puffed harder on his pipe. Attacking him. A half years, Lightcap? You know the chairman of Lightcap's committee. It was approved four and a half years ago, Mort. When you were

362 - REINDEER MOON

burned us, as the pup begged for a share in vain. We got strength from that meal.

Then I knew that with the spear Meri and I could eat better. I might be able to kill more swans as long as they were sitting on their nests, or to use the spear to drive them off their nests and take the eggs, or to kill fawns hidden at the edges of the plain. I might be able to throw the spear at the swans.

Very soon the swans would be running, the eggs would be hatched, and the swans and cygnets would be swimming where I could never catch them. I knew I couldn't wait. Planning to kill the other swans next night, while the moonlight lasted, I used the morning to look through the grass and low bushes for a few.

Henry paused; he had his arms crossed. If any one dead. The three doctors continued. He continued. Tell me, Lightcap, interesting but what happened between le pour-soi and I'm dead. Fucking fren.

The thought that one of us should watch the lodge was the wolf's, not mine. Her pup might wander off, but Meri wouldn't, and although the wolf might wait for me to get home before going hunting, I saw no reason to wait longer. Feeling much safer, much more dangerous, with the spear than with the bow or the antler pick. I went to the plain, hunting for young animals in every patch of long grass, in every clump of bushes.

In time I heard faint hoofbeats and looked up. Two horses and a colt were running towards me, followed eagerly by a wolf—our own long-legged female. Now and then the horses would stop running to glare at the wolf, who held herself back at a distance so she wouldn't scatter them.

Then the horses would dash off again with the wolf alert behind them, not on their heels but far off, swinging out to the left or out to the right in a way that made the horses run towards me. A stallion driving them would not have moved them better, except that he would have been on their haunches, driving them with shoves and bites. I couldn't at first imagine why she was chasing horses to me. Then I

thought she might want help. Did she know what the spear was for? She couldn't know that. Perhaps she saw me standing on the plain and hoped I might smash one of the horses with my hands, to hold it until she could set her teeth in it to start it bleeding or drag it down.

In the next moment the horses thundered by. Then everything happened at once—I threw the spear just below the hooves of the first mare lifted me off the ground and sent me flying. Drawing up my knees and hugging my arms over my head as I landed, I caught a second blow as if a tree had fallen on me, then I felt a stab of pain from a third, terrible blow on my shoulder, which I thought would crush my bones.

The horses galloped on and I lay on the ground, looking up at the wolf with a toothy grin. The colt came up to the mare, sniffing at her, and the mare sniffed back. When the colt tried to mount the mare, the mare spun, but instead of rushing back to the stallion, she jounced against each other, confessing. The stallion snorted and the two mares answered, and then one of them charged back to us, I rolled myself up on a ground squirrel. In the silence that followed I opened my eye to see the wolf near me, the colt stretched in a pool of blood, still alive, with the mare bowed over him, her head by his head, a distance from the wolf, eyes half closed and tongue slightly out. Remembering a wolf that Timu and I once killed, I crawled into the earth by the mare—a short distance away, the tracks told clearly—I lay perfectly still, hardly daring to breathe. After a very long wait, during which the mare ran at the wolf several times and ravens set themselves down on the plain around us, the colt died and the mare gave up hope. Then both mares went away. Again I dared to peek, and saw the wolf taking big bites from the colt's haunches.

I stood up carefully, my head ringing and my body very sore. But the wolf snarled at me so fiercely I sat down again. After that she ate more quickly while keeping an eye on me, and any move of mine brought her almost to her feet, snarling. By now evening was coming with other hunters;

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In the next moment the horses thunder

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20/26 6/7

Performance Best Practices

20/26

## Performance

▲ 0–49 ■ 50–89 ● 90–100

**METRICS**

▲ Total Blocking Time  
**400 ms**  
Sum of all time periods between FCP and Time to Interactive, when task length exceeded 50ms, expressed in milliseconds. [Learn more](#).

● Interaction to Next Paint  
**40 ms**  
Interaction to Next Paint measures page responsiveness, how long it takes the page to visibly respond to user input. [Learn more](#).

[View Trace](#) [View Treemap](#)

View Trace View Treemap

SIDE B (STEREO)  
19975883381  
33 1/3 RPM

Show audits relevant to: All TBT CLS INP



CORE WEB VITALS



LCP

# LARGEST CONTENTFUL PAINT

The render time of the largest image or text block visible within the viewport



FID

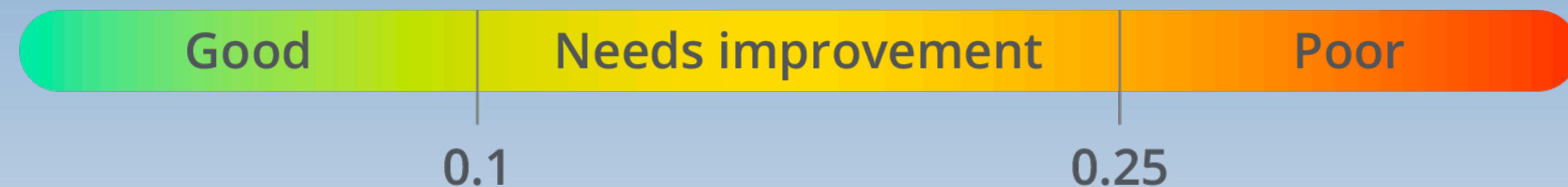
# FIRST INPUT DELAY

The time from when a user inputs an action or command  
and the page executes it



# CUMULATIVE LAYOUT SHIFT

The largest burst of *layout shift scores* for every unexpected layout shift that occurs during the entire lifespan of a page



# LIMITATIONS



# Twitter is testing a status feature that's taking us back to MySpace

Amanda Silberling @asilbwrites 9:31 PM GMT+1 • July 27, 2022

Comment



GoodUI PATTERNS TESTS LEAKS TEMPLATES COACHING BLOG Log In Get Access

## Google Has Been A/B Testing Link Colors (Again) And This Light Blue Didn't Pass

Leak #16 from Google.com | Jul 22, 2019 [Listing](#)

It's been a decade since it was first discovered that [Google has famously tested those 41 shades of blue](#).

Last month I discovered that they began experimenting with link colors on their search results screen - once again. This time Google tested a lighter blue with a lower contrast which turned out that they rejected (most likely due to a negative experiment result).



Published in Netflix TechBlog



Netflix Technology Blog

Sep 7, 2021 • 3 min read • Listen



## Decision Making at Netflix

Martin Tingley with Wenjing Zheng, Simon Ejdemyr, Stephanie Lane, and Colin McFarland

*This introduction is the first in a multi-part series on how Netflix uses A/B tests to make decisions that continuously improve our products, so we can deliver more joy and satisfaction to our members. Subsequent posts will cover the basic statistical concepts underpinning A/B tests, the role of experimentation across Netflix, how Netflix has invested in infrastructure to support and scale experimentation, and the importance of the culture of experimentation within Netflix.*

WIRED

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FEATURED

HOW TO DIGITIZE OLD PHOTOS

BEREAL BASICS

BEST TABLETS FOR WORK AND PLAY

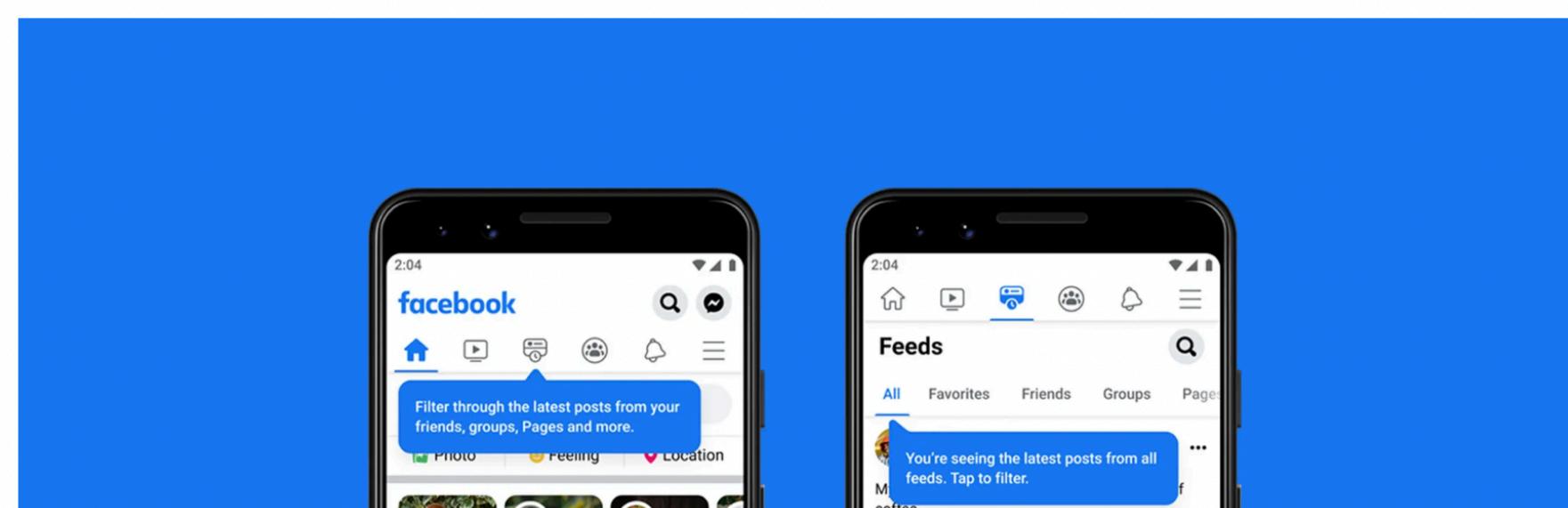
BEST CAMERA BAGS AND ACCESSORIES

BUYING GUIDES

GADGET LAB NEWSLETTER

## As Facebook Becomes TikTok, a New Feeds Tab Ditches the Algorithm

Big changes are coming to the platform.



@CarlyLRichmond

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Instagram

## Instagram rolls back some changes to app after user backlash

**Reversal includes toning down algorithm that resulted in users' feeds being deluged with videos from accounts they do not follow**

Dan Milmo *Global technology editor*

Thu 28 Jul 2022 22.48 BST





**Elon Musk intensifies his crackdown on working from home: Tesla is now tracking how frequently staffers swipe into the office and warning them if they don't show up often enough**

**VICE****MOTHERBOARD**  
TECH BY VICE

# Amazon's AI Cameras Are Punishing Drivers for Mistakes They Didn't Make

Amazon delivery drivers say surveillance cameras installed in their vans have made them lose income for reasons beyond their control.

CAREERS

## Why CoStar's Alleged Employee Monitoring Program Could Backfire

Tom Spiggle Senior Contributor *I'm an employment lawyer who writes about your workplace rights.*

The New York Times

## Should a Morning Staff Meeting Feel Like Homeroom?

A hybrid-work challenge: taking attendance.

yahoo!news

BUSINESS INSIDER

**JPMorgan Chase staffers complain of being 'watched' all the time as the bank seems to be growing more secretive with its employee-tracking systems**

Samantha Delouya

July 7, 2022 · 2 min read

**BANKING DIVE**

Deep Dive Opinion Library Events

Commercial Retail Credit Unions Payments Regulations &amp; Policy

DIVE BRIEF

## Barclays faces \$1.1B fine over alleged monitoring of employees

Published Aug. 10, 2020



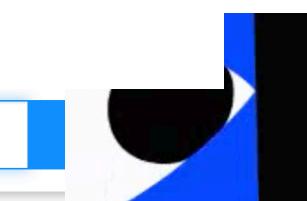
Dan Ennis

Senior Editor

**MOTHERBOARD**  
TECH BY VICE

## Workers Are Using 'Mouse Movers' So They Can Use the Bathroom in Peace

"The tables have turned in favor of the Worker," said one mouse jiggler company. "They are in power today."



Out of sight: the algorithms running our lives

## 'Bossware is coming for almost every worker': the software you might not realize is watching you

Computer monitoring software is helping companies spy on their employees to measure their productivity - often without ent

byn

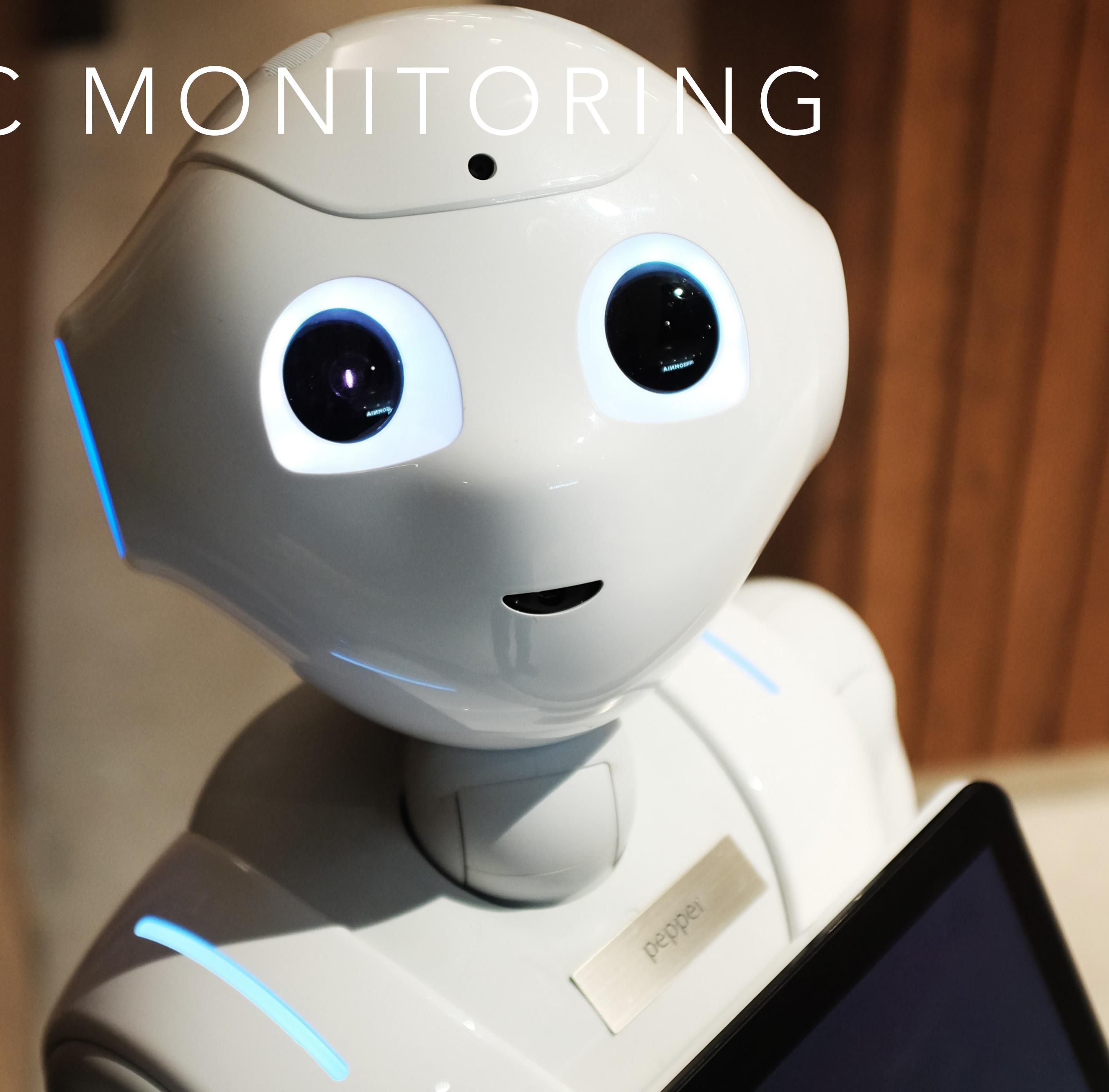
TUC warns against employee monitoring after Post Office scandal

by Jo Faragher | 28 Feb 2022

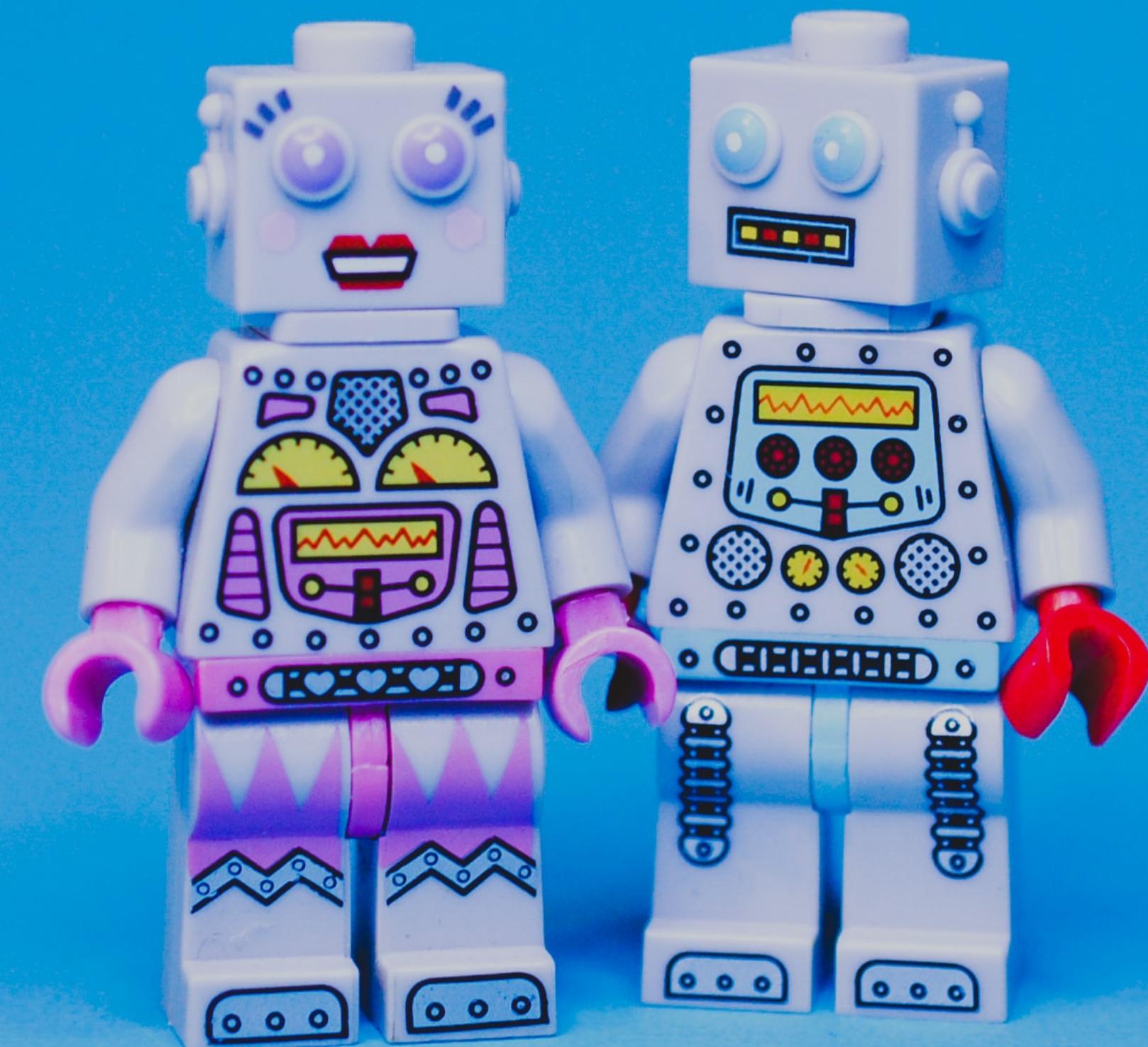


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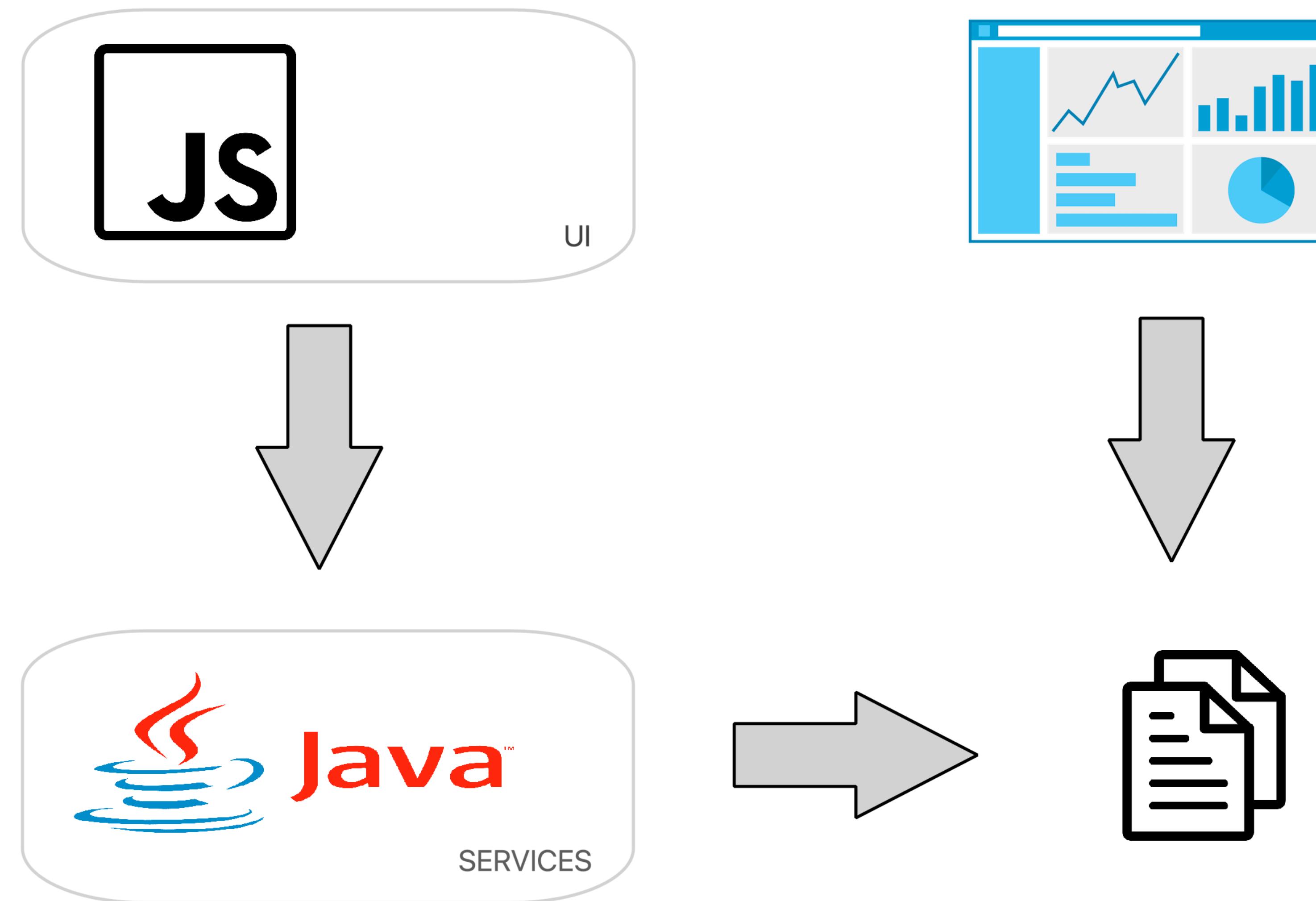
# SYNTHETIC MONITORING



# BUILD YOUR OWN MONITORING



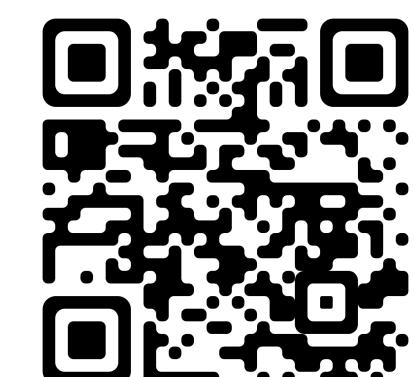
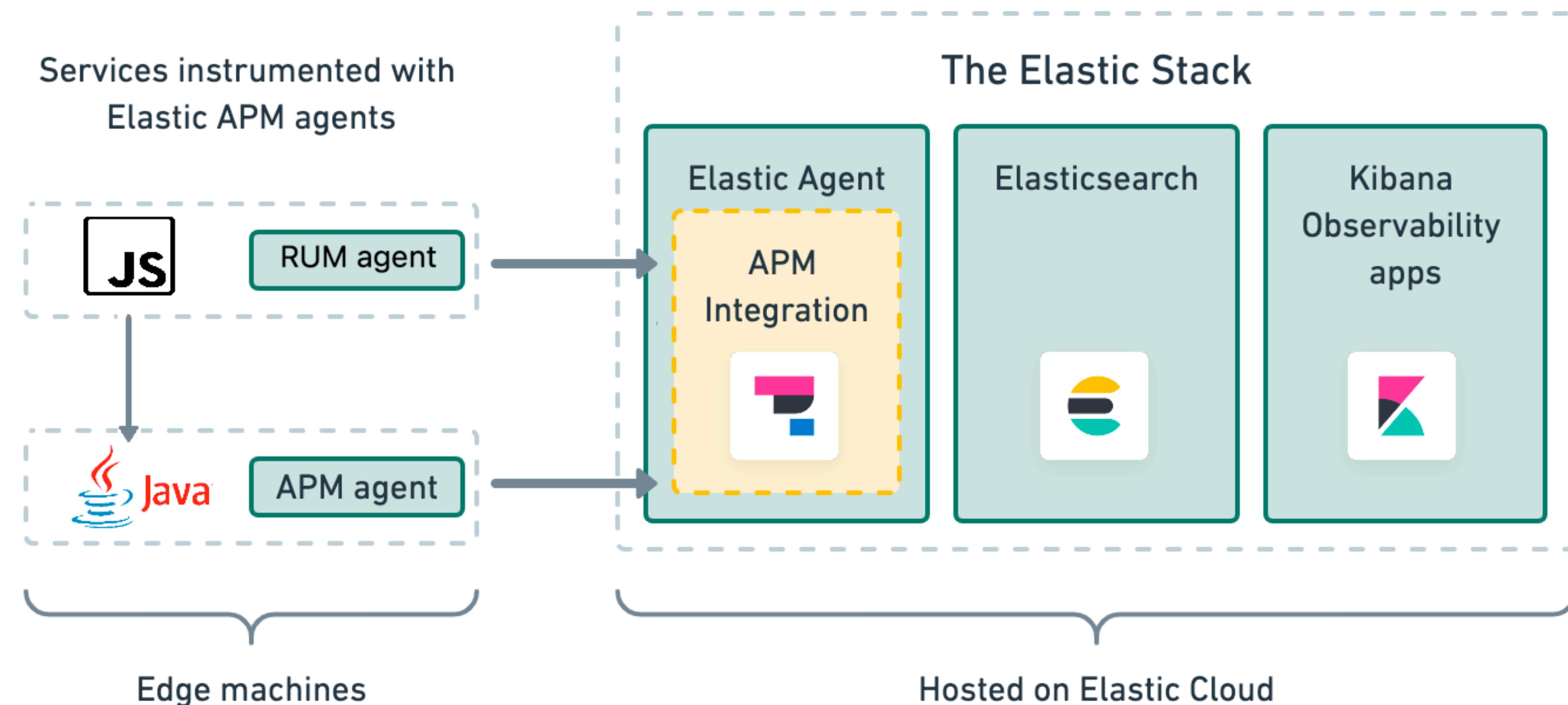
# BYO MONITORING





MORE REAL USER MONITORING!

# SAMPLE RUM ARCHITECTURE





# IT'S SO SLOW



**Observability**

Overview

Alerts

Cases

Logs

Stream

Anomalies

Categories

Metrics

Inventory

Metrics Explorer

APM

Services

Traces

Dependencies

Service Map

Uptime

Monitors

TLS Certificates

User Experience

Dashboard**Dashboard**

Last 30 days

Refresh

Web application rum-records-react-ui

Percentile 50th (Median)

Environment All

Filter by URL

Location 1

Device 1

OS 1

Browser 5

▼

▼

**Page load (median)**

Total②

**439 ms**

Backend②

**13 ms**

Frontend②

**426 ms**

Total page views

**385****Metrics (median)**

First contentful paint②

**300 ms**

Total blocking time②

**15 ms**

No. of long tasks②

**2**

Longest long task duration②

**101 ms**

Total long tasks duration②

**137 ms****Core web vitals ②**

88% of the traffic represented ②

Largest contentful paint②

**324 ms**

● Good (80%) ● Needs improvement (10%) ● Poor (10%)

First input delay②

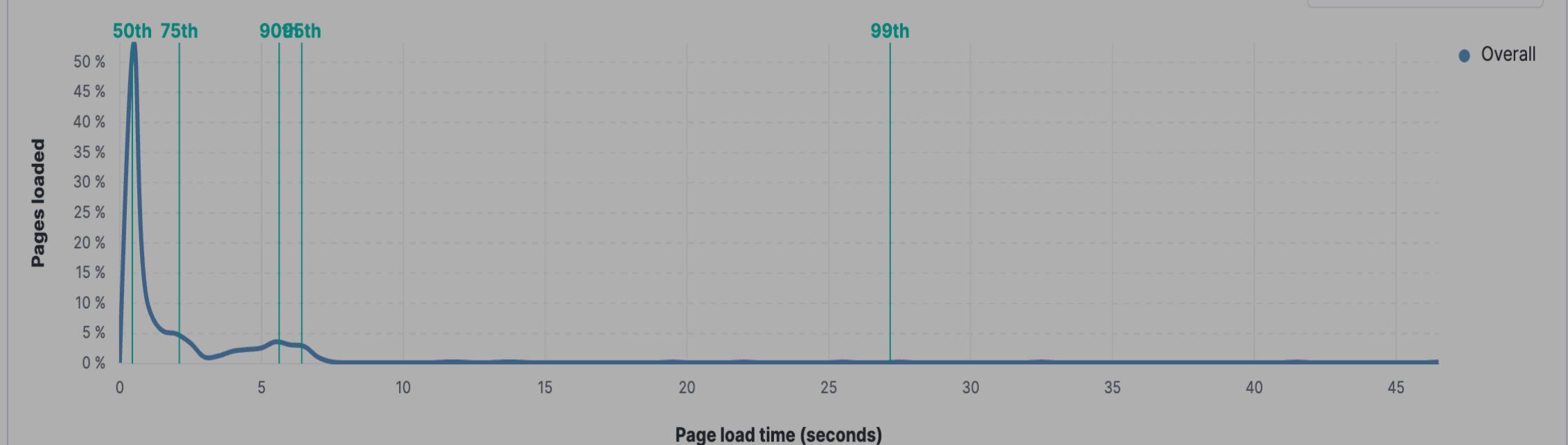
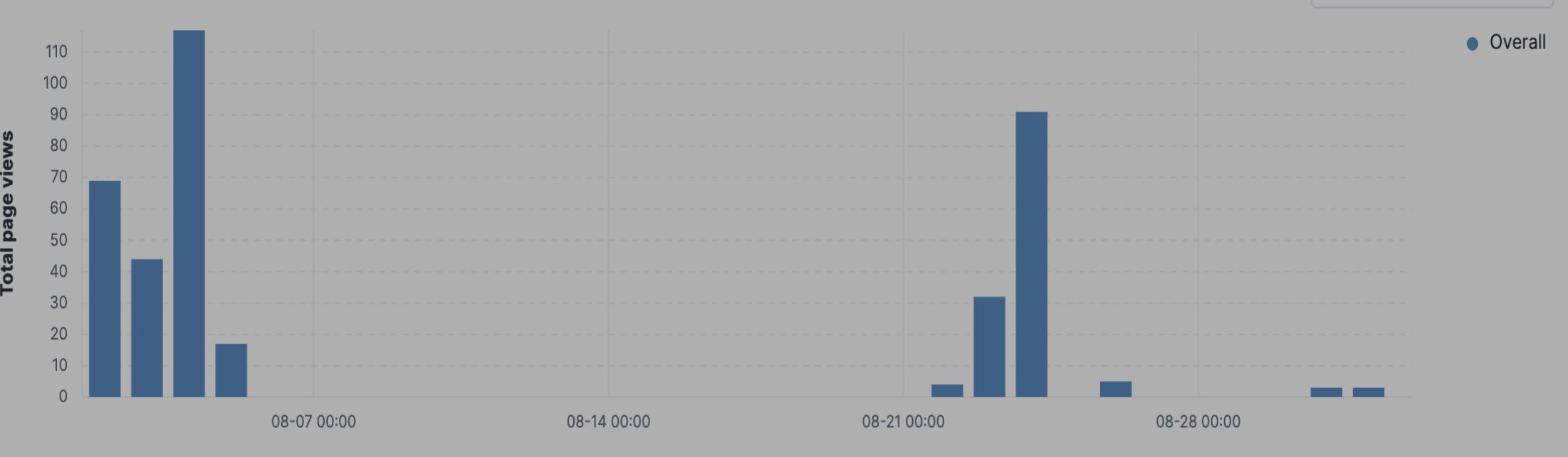
**1 ms**

● Good (100%) ● Needs improvement (0%) ● Poor (0%)

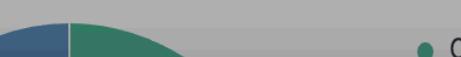
Cumulative layout shift②

**0.008**

● Good (89%) ● Needs improvement (7%) ● Poor (4%)

**Page load distribution****Total page views****Page load duration by region (avg.)****Visitor breakdown**

Browser



Operating system



@CarlyLRichmond

Mac OS X

## Observability

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Trace sample &lt; &lt; 1 of 10 &gt; &gt;

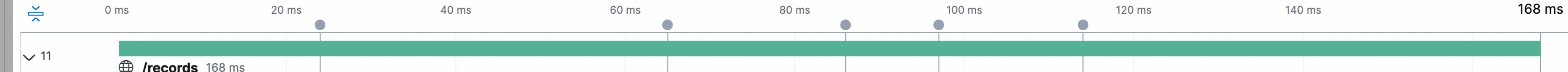
Investigate ▾

View full trace

2 hours ago | 168 ms (100% of trace) | http://localhost:4200/records?terms=beat | Chrome (105.0.0.0)

Timeline Metadata Logs

Services rum-records-react-ui rum-records-server



11

/records 168 ms

Requesting and receiving the document 12 ms

Parsing the document, executing sync. scripts 35 ms

http://localhost:4200/polyfills.82ebe2a387f1b222.js 12 ms

http://localhost:4200/runtime.6805a8fc38a8cc1.js 10 ms

http://localhost:4200/styles.69be5fe425e71093.css 7.0 ms

http://localhost:4200/main.8fee940b694fe848.css 7.0 ms

http://localhost:4200/main.cd344a97e6b4cb75.js 15 ms

http://localhost:4200/styles.367bab1f865259f8.js 11 ms

1

GET http://localhost:8080/records/beat 63 ms

HTTP 2xx RecordController#getRecordByQuery 35 ms

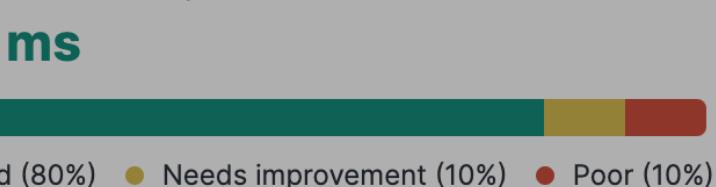
http://localhost:4200/assets/images/records/1.avif 3.0 ms

http://localhost:4200/assets/images/records/2.avif 2.0 ms

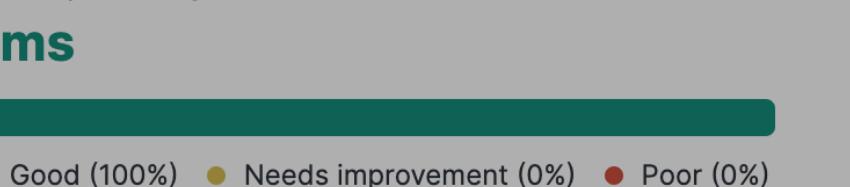
A photograph of a man and a woman in profile, facing each other. They are both wearing dark grey t-shirts and have their mouths open as if they are shouting or arguing. The man's right hand is pointing towards the woman, and the woman's left hand is pointing towards the man. They appear to be in a room with white walls.

CONFLICTING ACCOUNTS

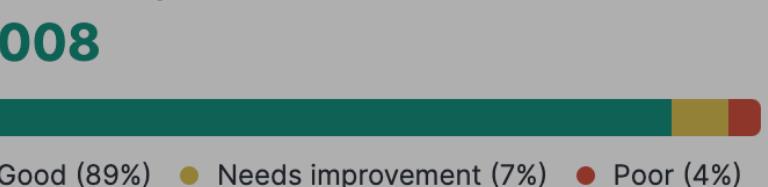
Contentful paint



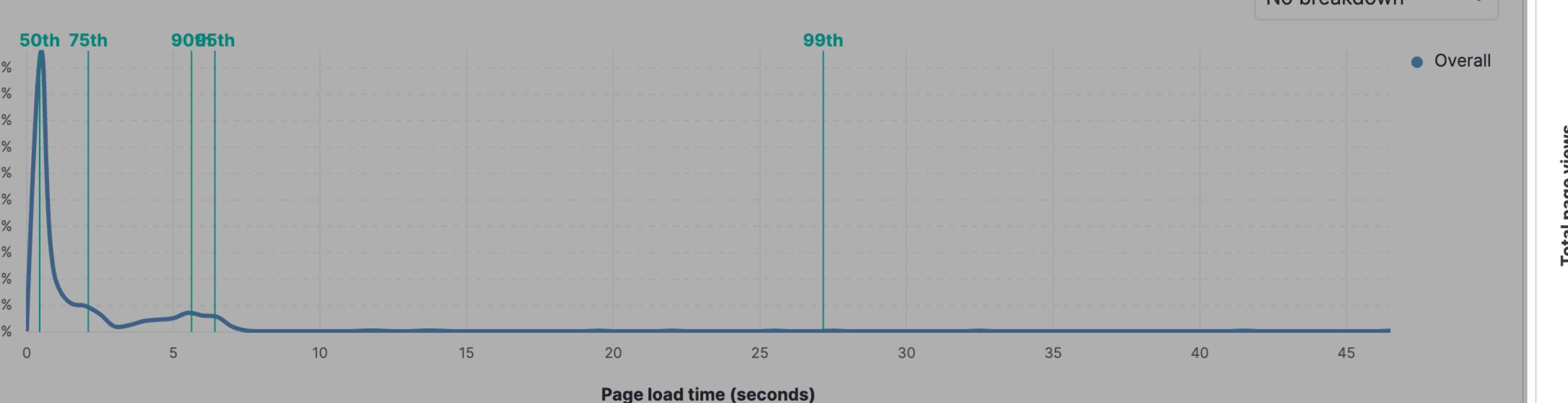
First input delay



Cumulative layout shift



Load distribution



Load duration by region (avg.)



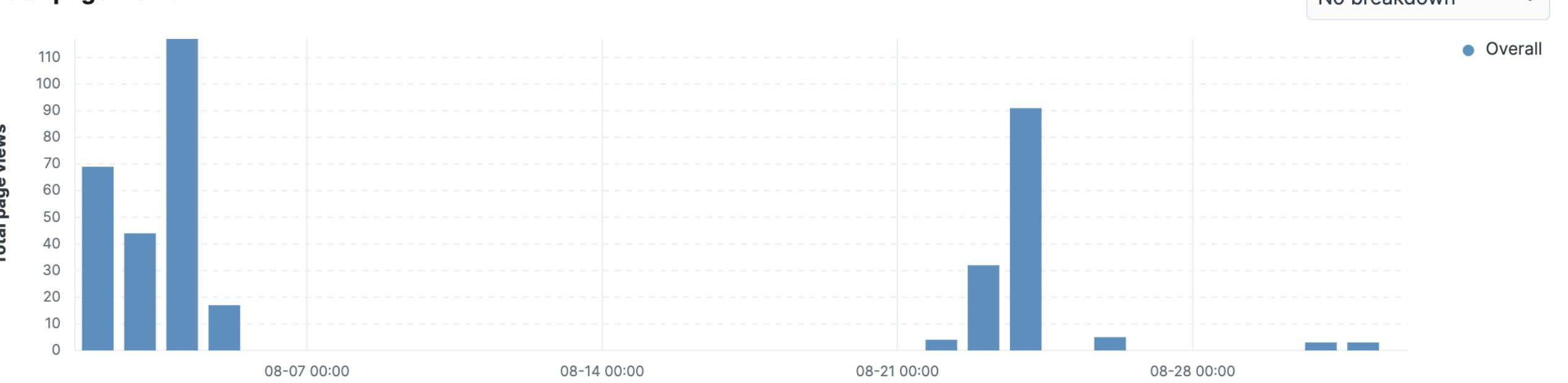
Script errors

Errors

Message

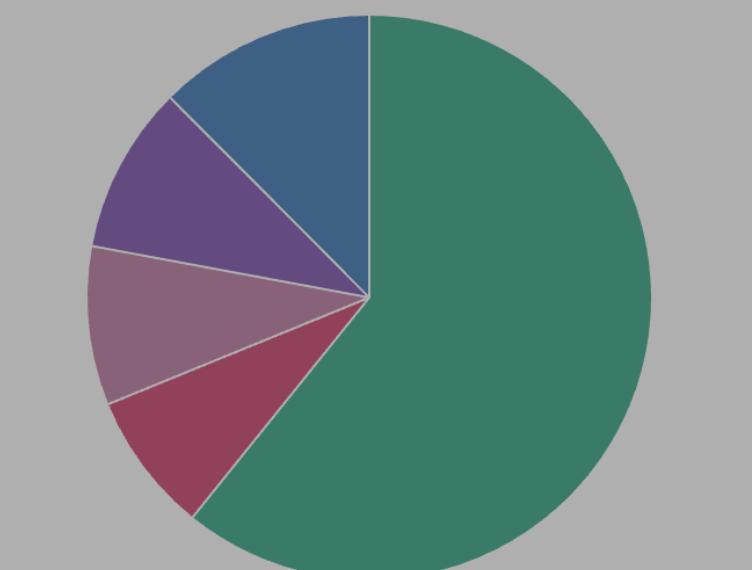
Unhandled promise rejection: AxiosError: Network Error

Total page views

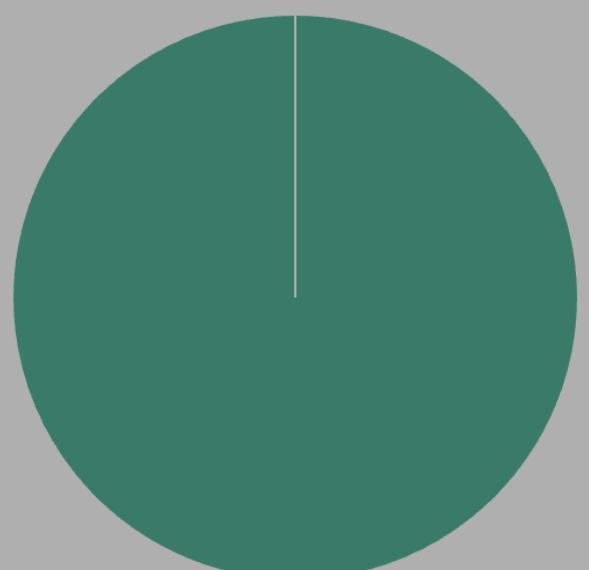


Visitor breakdown

Browser



Operating system



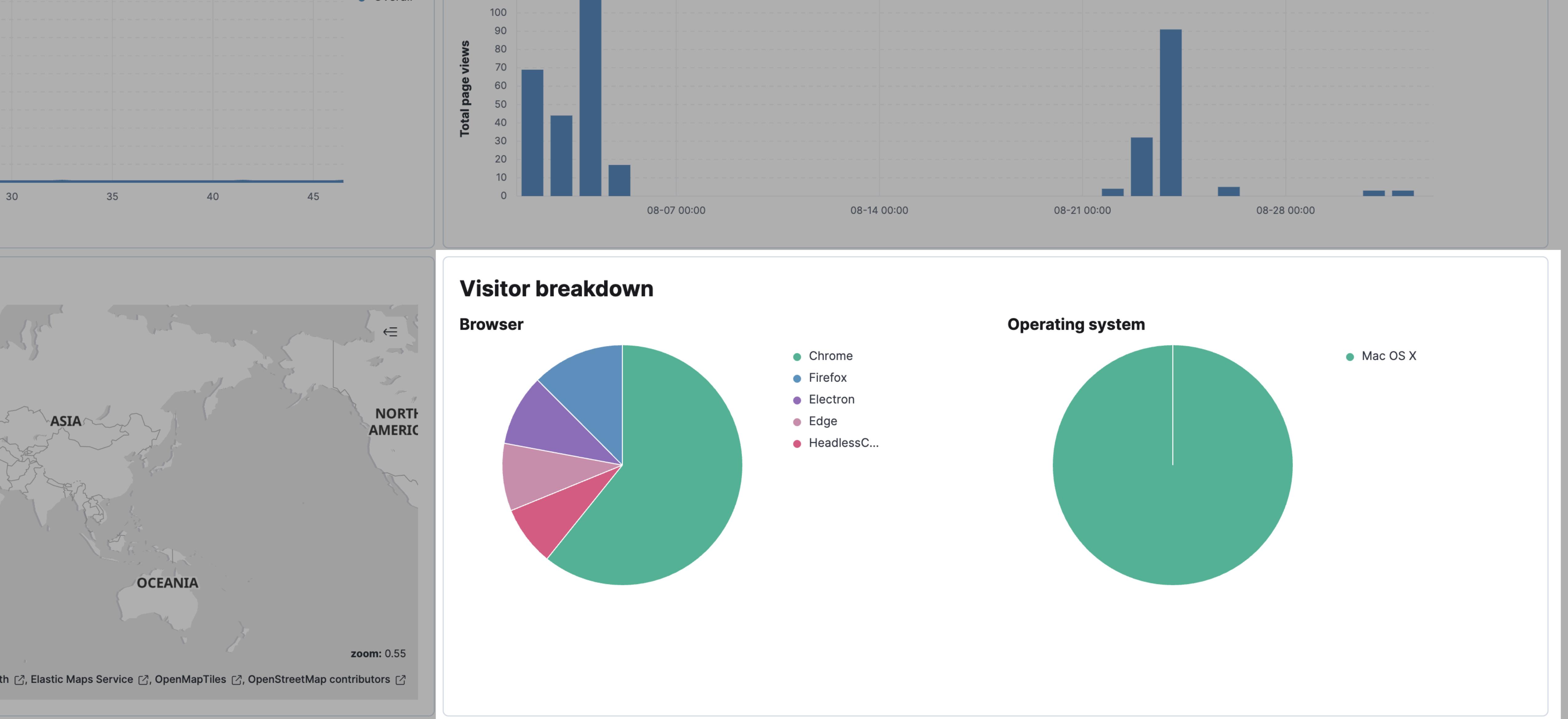
Mac OS X

Impacted page loads

0.5 %

NOT WORKING FOR A PARTICULAR USER





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## rum-records-react-ui

JS

Explore data

Environment All

▼

Overview Transactions Errors Service Map

Search errors (E.g. http.response.status\_code &gt;= 400)

Comparison 02/07 09:27 - 02/08 00:00

Last 30 days

Refresh

## Error group Ob4a4

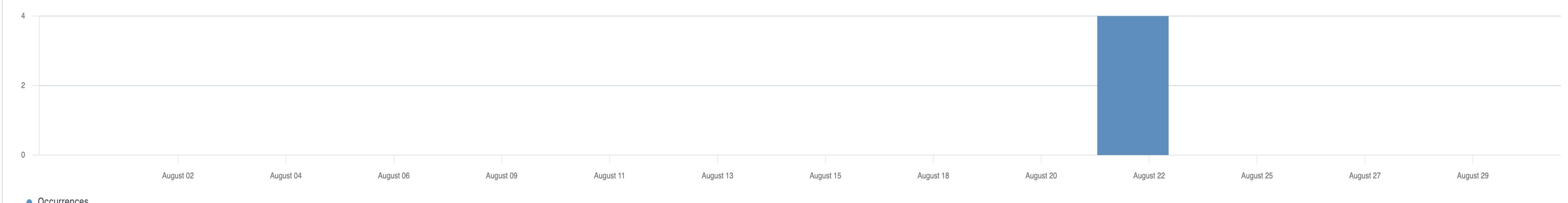
Exception message

**Unhandled promise rejection: AxiosError: Network Error**

Culprit

(inline script)

## Occurrences



## Error occurrence

View 4 occurrences in Discover

9 days ago | Edge (104.0.1293.63) | Click - input

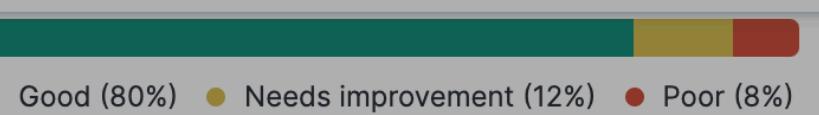
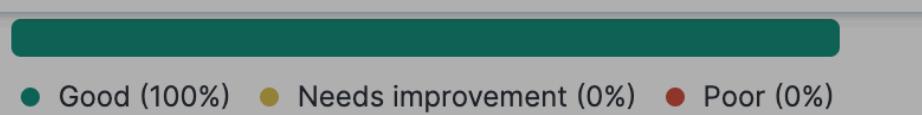
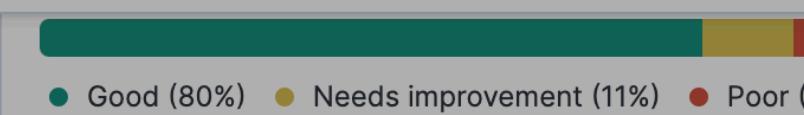
Exception stack trace Metadata

**Unhandled promise rejection: AxiosError: Network Error**

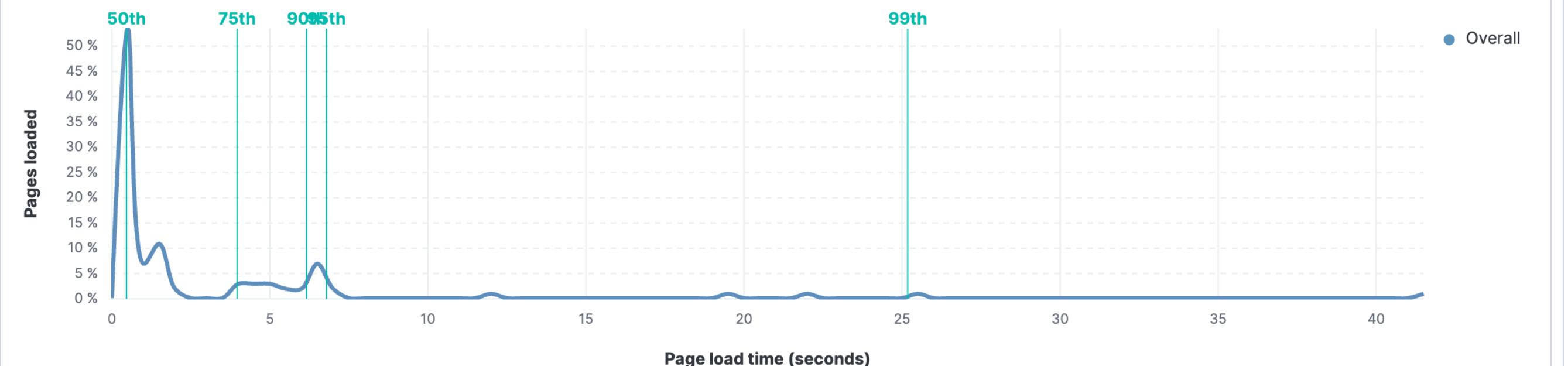
No stack trace available.

# NO LONGER USING IT (PROMISE)

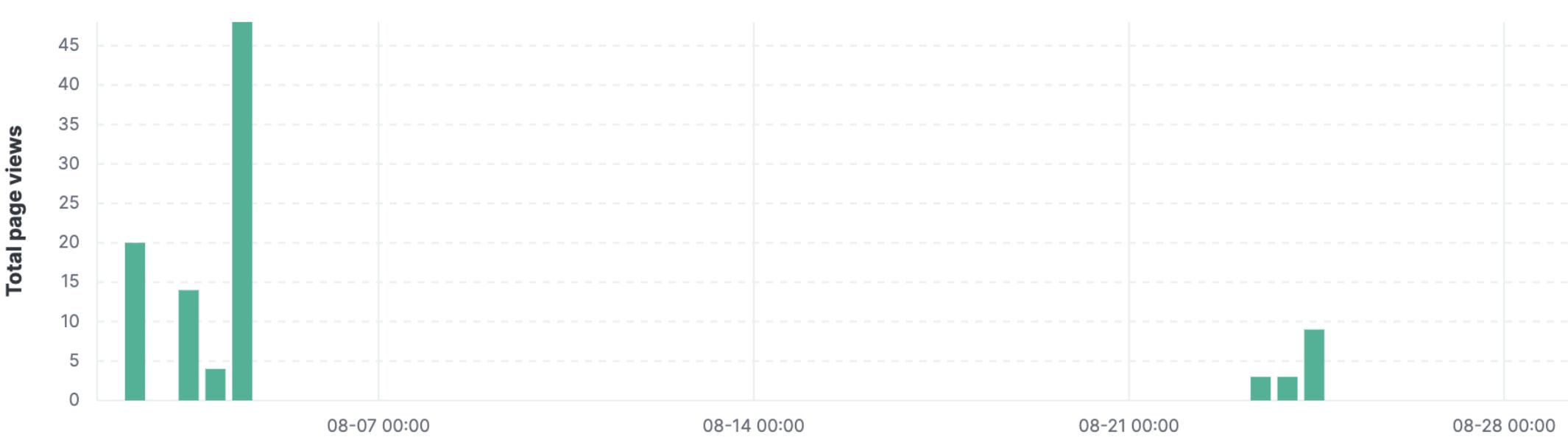




### Page load distribution



### Total page views

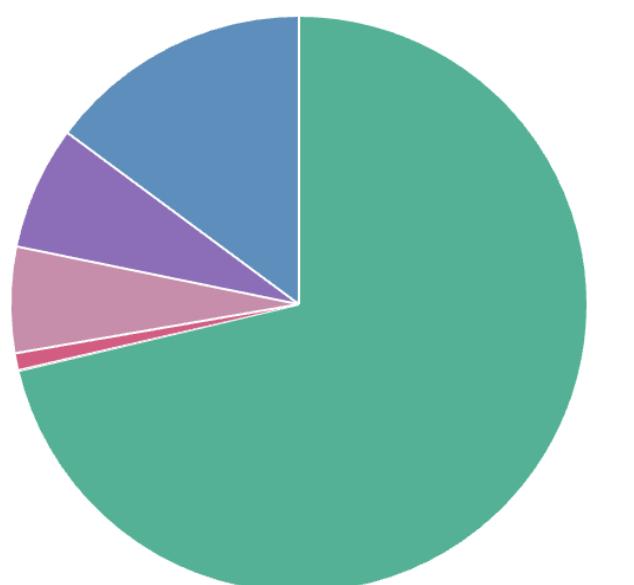


### Page load duration by region (avg.)

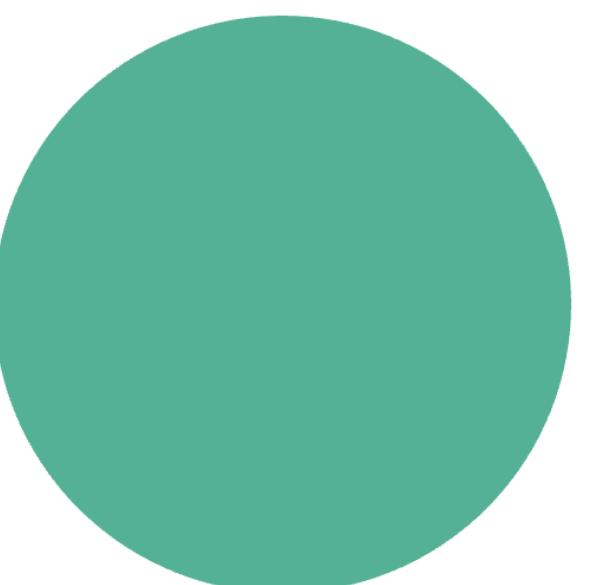


### Visitor breakdown

#### Browser



#### Operating system



### JavaScript errors

Total errors

**2**

#### Error message

Unhandled promise rejection: AxiosError: Network Error

TRY YOUR LIPS OUT

DANKE !

THANK YOU !

MERCI !

GRAZIE !

GRACIAS !

DANK JE WEL !

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