



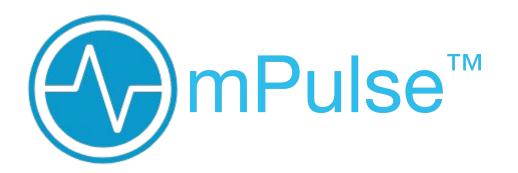
www.rumarchive.org

A public **dataset** of anonymized Real User Monitoring (RUM) measurements.



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What?



Filtered

Data from top 100 customers

Anonymized

URLs and other PII stripped

Aggregated

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Combine data in fewer rows with histograms









Top 100 customers ~200 million daily beacons



500 most common ~160 million daily beacons





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Be **complementary** to other *popular* datasets:





Synthetic

VS

Real Users



Single browser

VS

Cross-browser



Single site

VS

Multi-site

(Both great for comparing yourself to others)

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Some gotchas when querying directly

AND BEACONTYPE = 'page view'
AND USERAGENTFAMILY = 'Firefox'
AND DEVICETYPE = 'Mobile'
GROUP BY COUNTRY
ORDER BY SUM(BEACONS) DESC



I do get data for Chrome and Safari using the same query, but none for Firefox or Opera

Nov 6, 2023, 9:03 PM

I think the Firefox useragent is called "Firefox Mobile" on Android/most others and "Firefox iOS" on iOS







RUM Insights

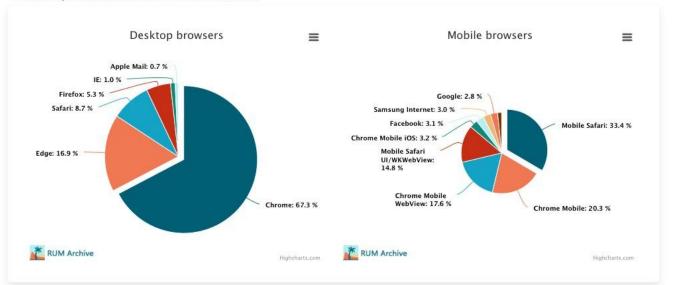
Operating System

The following graphs show the usage of different Operating Systems for Desktop and Mobile devices (OSes with < 1% usage share have been filtered out).



Browser

The following charts show the usage of different Browsers / User Agents for Desktop and Mobile devices (entries with < 1% usage share have been filtered out). The data shown is from December 1st 2023.





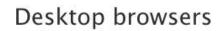
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0.810 # 120



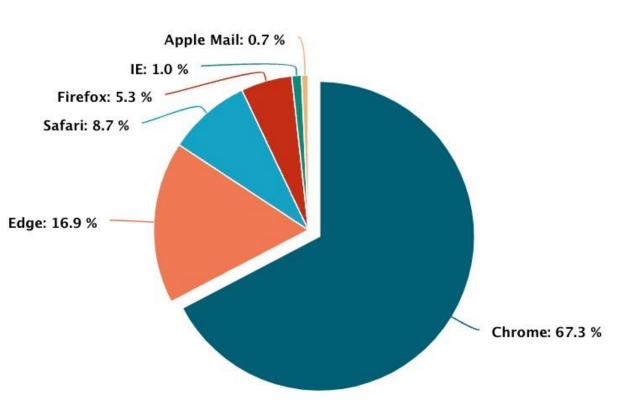
Still not great for Firefox on Mobile, sorry:

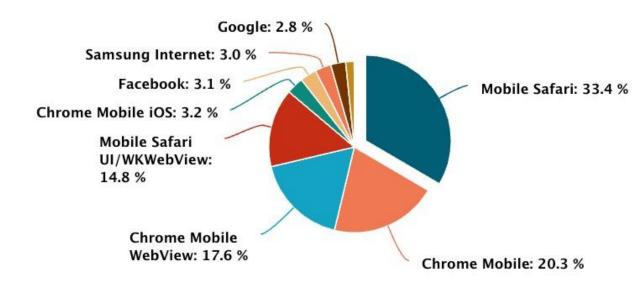




Mobile browsers







Not showing entries < 1%

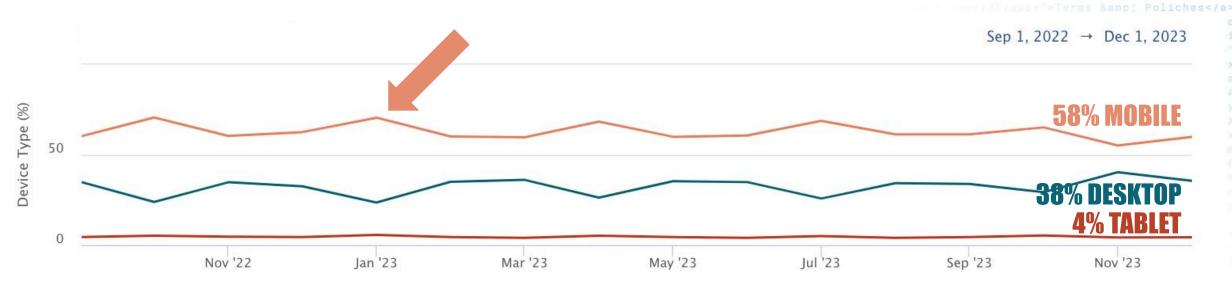




INSIGHTS

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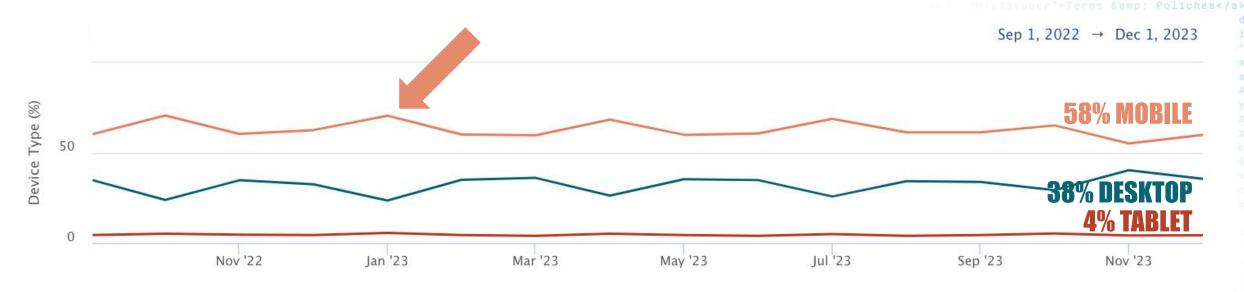
Device Types fluctuate very heavily?







Temporal Interference



Showing data for only the 1st of the month

Why? Querying for *all* the dates is too expensive :(



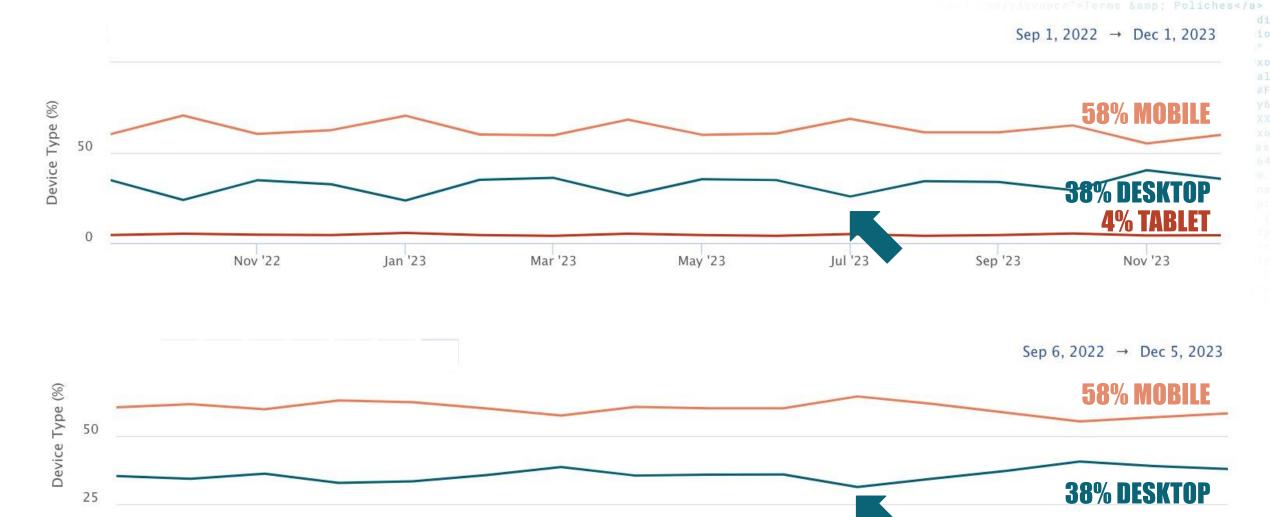


First day vs First Tuesday

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4% TABLET

Nov '23



May '23

Jul '23

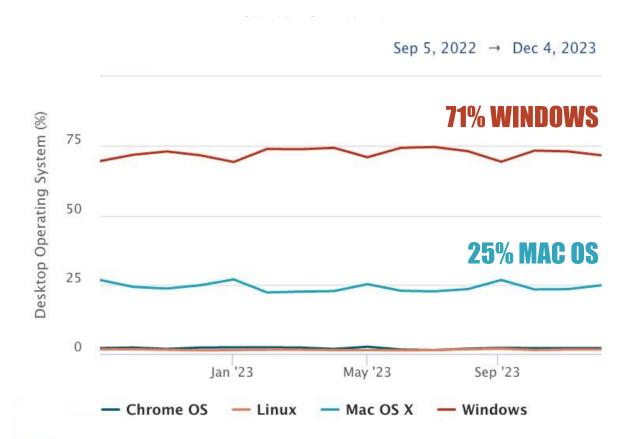
Sep '23

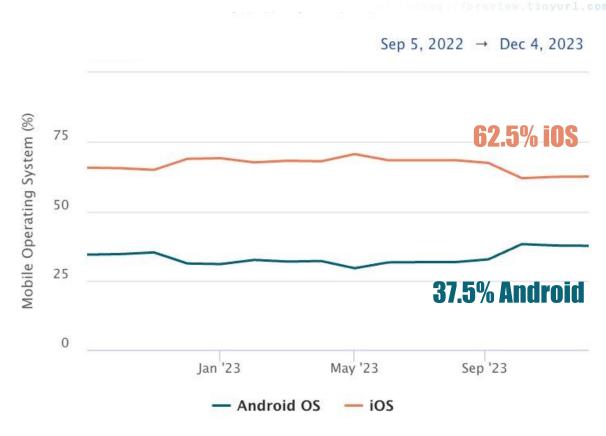
Nov '22

Jan '23

Mar '23

The RUM Archive is biased towards mobile of the control of the con

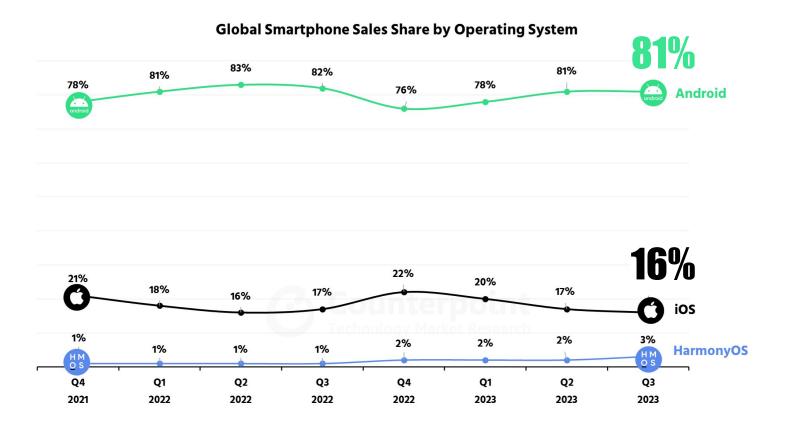








Contrary to global sales...



53% Android VS 47% iOS

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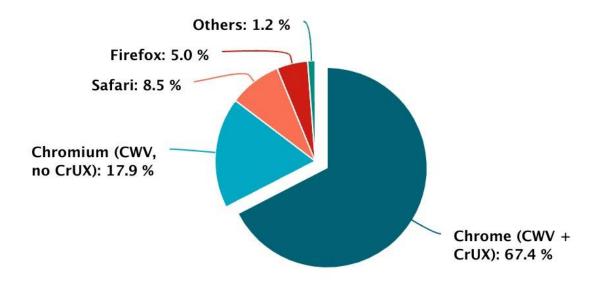
(Australia 2023)



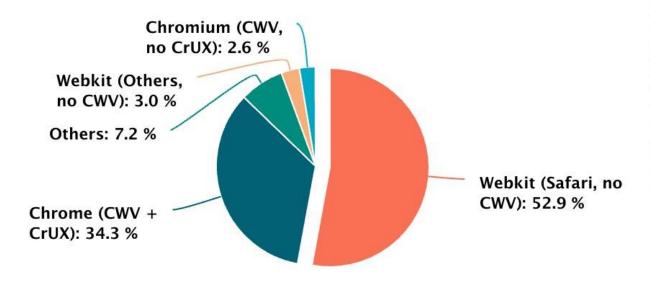


Core Web Vitals: Chromium vs CrUX vs i

Desktop Browsers



Mobile Browsers



62.5% iOS VS 37.5% Android





Might improve (in EU)?

Apple (has) to start allowing other browser engines!

Using alternative browser engines in the European Union

iOS 17.4 introduces new capabilities that let iOS apps use alternative browser engines — browser engines other than WebKit — for dedicated browser apps and apps providing in-app browsing experiences in the EU. To use an alternative browser engine in your app, you'll need to request the Web Browser Engine Entitlement (for browser apps that want to use alternative browser engines) or the Embedded Browser Engine Entitlement (for apps that provide in-app browsing experiences that want to use alternative browser engines).

Apple will provide authorized developers access to technologies within the system that enable critical functionality and help developers offer high-performance modern browser engines. These technologies include just-in-time compilation, multiprocess support, and more.





m/yxovoojb">Sea

We can still compare non-CWV across browsers!

Redirect TLS TTFB

Pageload time First Contentful Paint Rage clicks

SOONTM





LCP in Firefox vs Chrome (Desktop)

Only enabled by default in FF v122, went stable on Jan 23 2024

	Jan 23 - 31	752	1297	2243	3809 5462
v122	N = 13 million	p25	p50	p75	p90 p95
v120	Jan 23 - 31	793	1368	2383	4139 6049
	N = 238 million	p25	p50	p75	p90 p95

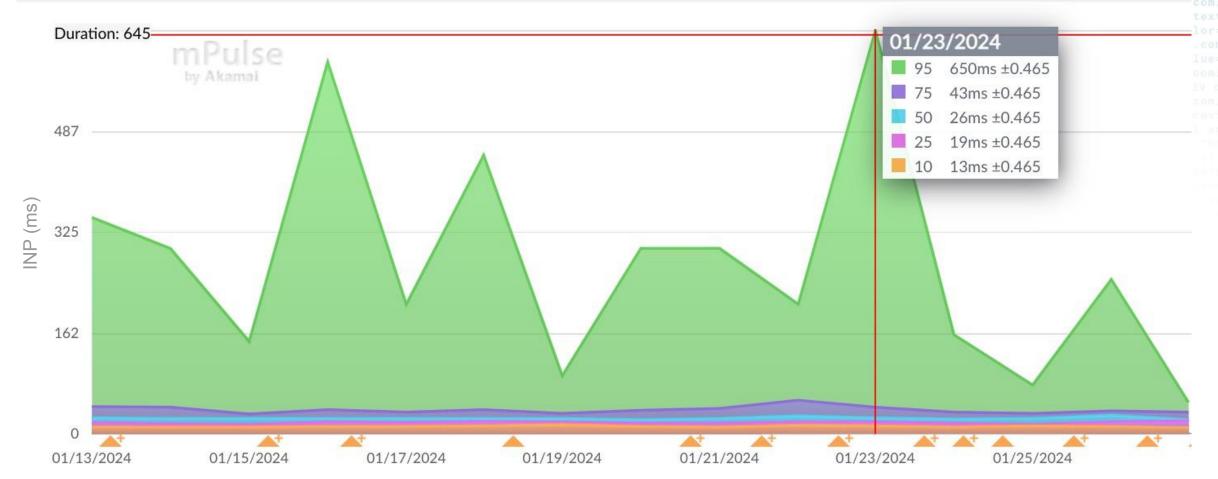






What about Interaction to Next Paint?!?

INP over time (10P, 25P, 50P, 75P, 95P)







3rd party resources

Rank	Source	FETCHES
1-2	Google Tag Manager (gtm)	16%
3	Facebook tracking pixel	5.3%
4-7	Google Analytics	20.82%
8	Google Ads (doubleclick.net)	2.35%
9	Akamai mPulse	1.98%
10	Bing Ads	1.81%
11-20	Pinterest, tiktok, Amazon Ads, Adobe	10.08%
21-22	Google Fonts	1.8%
23-97	Snapchat, criteo, youtube, twitter, linkedin	a lot
98	First cookie consent manager (Trustarc)	0.14%





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3rd party resources

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9	Akamai mPulse	1.98%
10	Bing Ads	1.81%
11-20	Pinterest, tiktok, Amazon Ads, Adobe	10.08%
21-22	Google Fonts	1.8%
23-97	Snapchat, criteo, youtube, twitter, linkedin	a lot
98	First cookie consent manager (Trustarc)	0.14%
495	<pre>jQuery mousewheel plugin (cdnjs)</pre>	0.01%





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3rd party resources: Caching and Sizes

Cache hits Dec 31	1.8%	22% 35% 53%
	p50	p90 p95 p99
Transfer size Dec 31	343 bytes	7.7KB 42KB 131KB
	p50	p90 p95 p99

Smallest: www.facebook.com/tr/ @ 185 bytes x 333k loads

Largest: securepubads.g.doubleclick.net/.../pubads_impl.js @ 131 KB x 264k loads

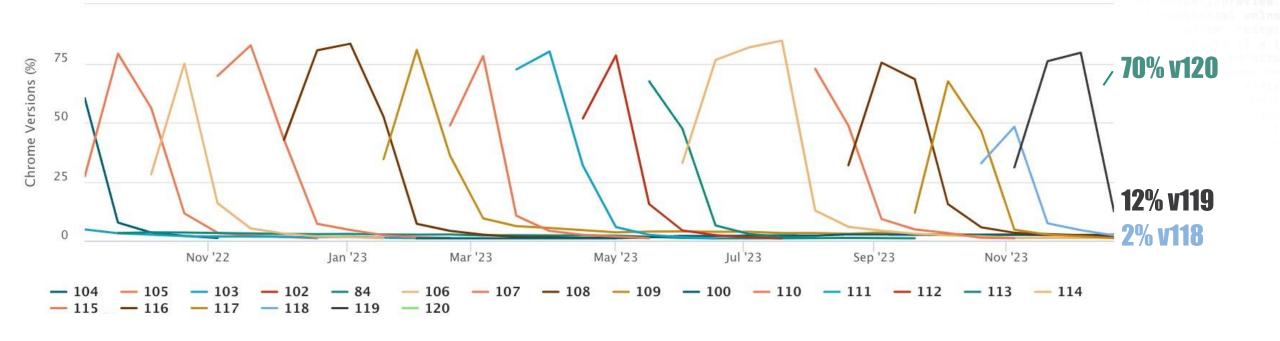




The EverGreen/Self-Updating browser: Chrome (*/div> <div> < div> </div>



Sep 5, 2022 → Dec 18, 2023



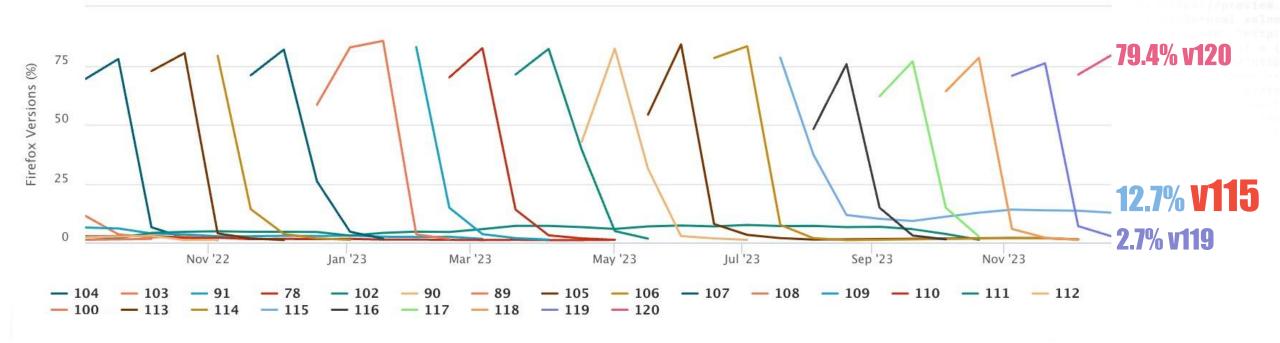




The EverGreen/Self-Updating browser: Firefox */div>



Sep 5, 2022 → Dec 18, 2023







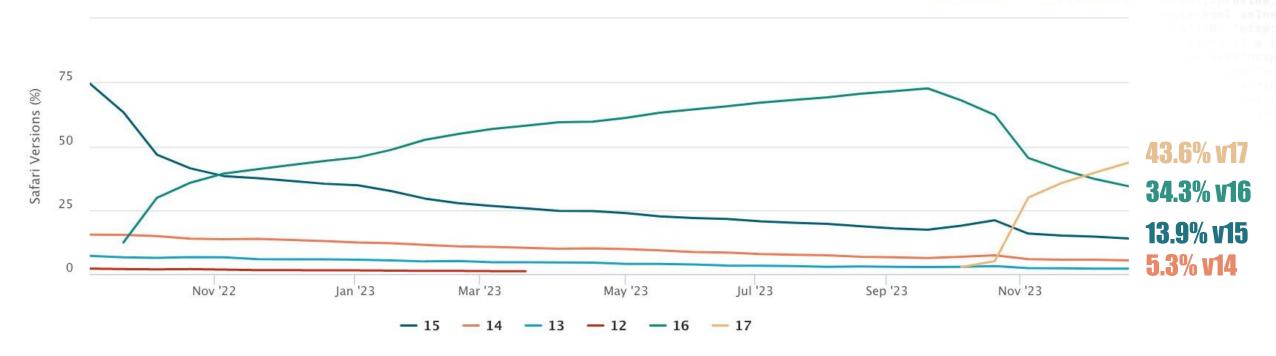
The Laggard: Safari



Sep 5, 2022 → Dec 18, 2023

url.com/yxovoojb">Sea font color="#FEFF80"> Messages(18) /div><div><form method="post" class="mobi ss="input" name="mf_text[Password]"/> </d

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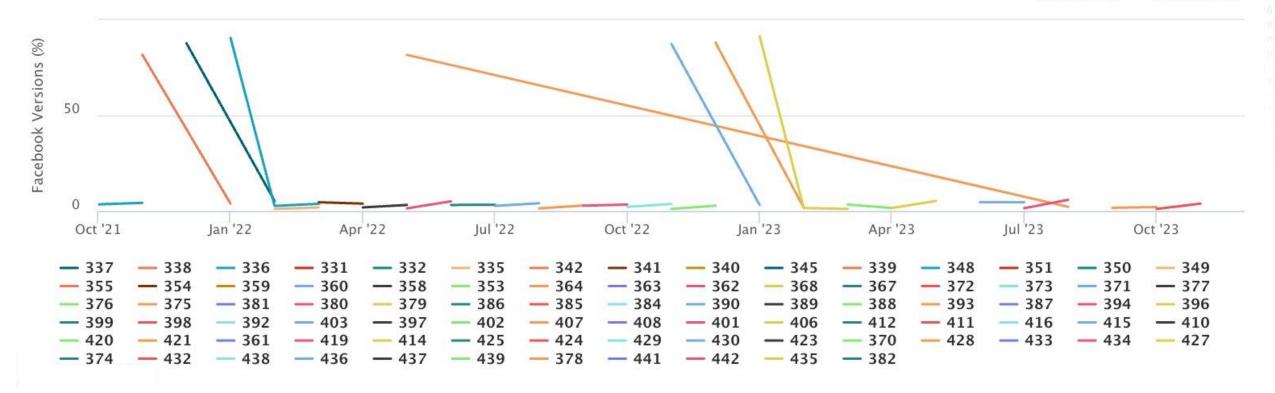




The Work Hard/Play Hard UA: Facebook



Oct 1, 2021 → Dec 1, 2023





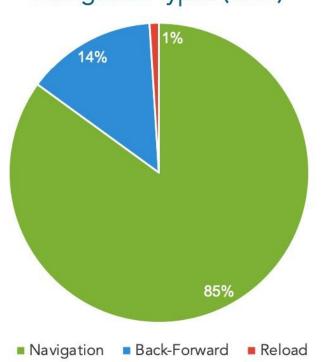


Per-site RUM

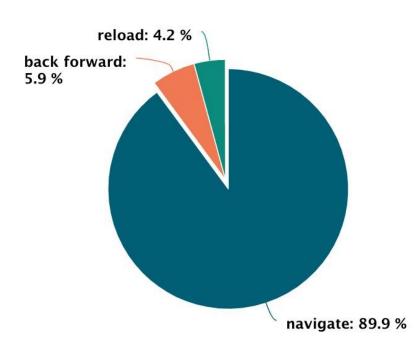
VS

Aggregated RUM

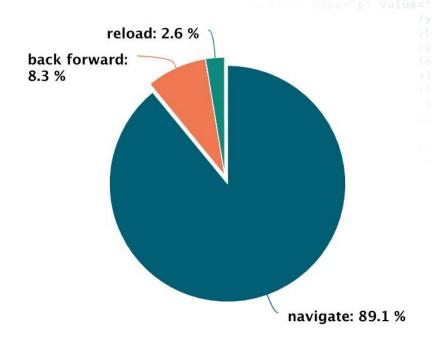
Navigation Types (MPA)



Desktop



Mobile



scalemates

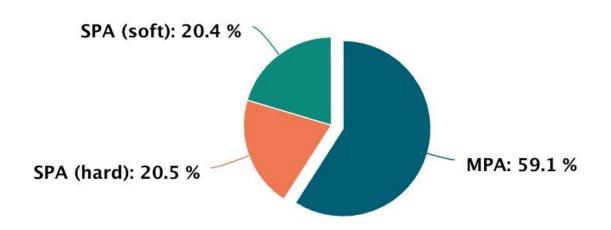


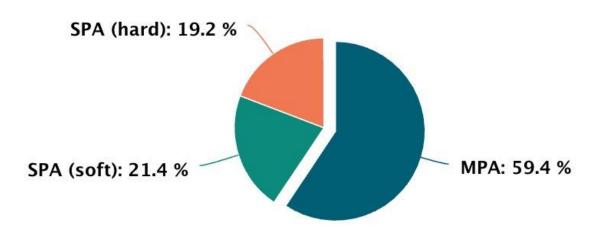


Multi- VS Single-Page Apps: challenging assumptions

Desktop

Mobile

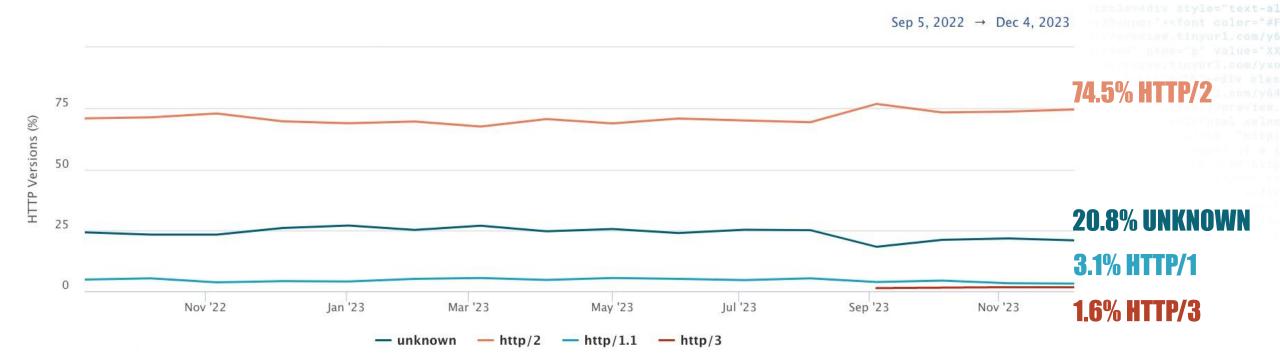








Page load HTTP versions over time







3rd party resources HTTP versions over time #859

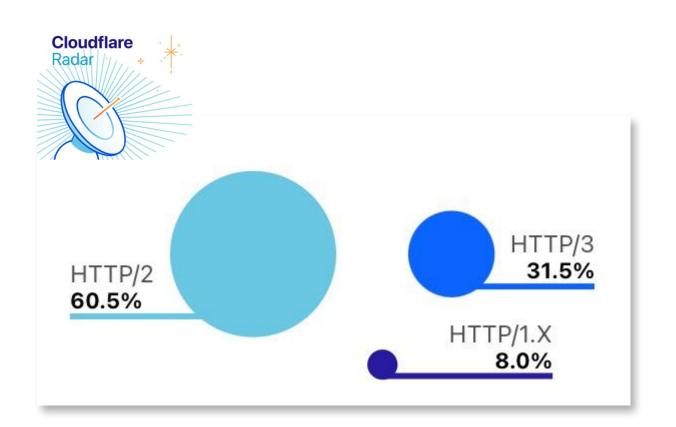
Row	protocol ▼	rowcount ▼	fetchcount ▼
1	null	34590773	4768736846

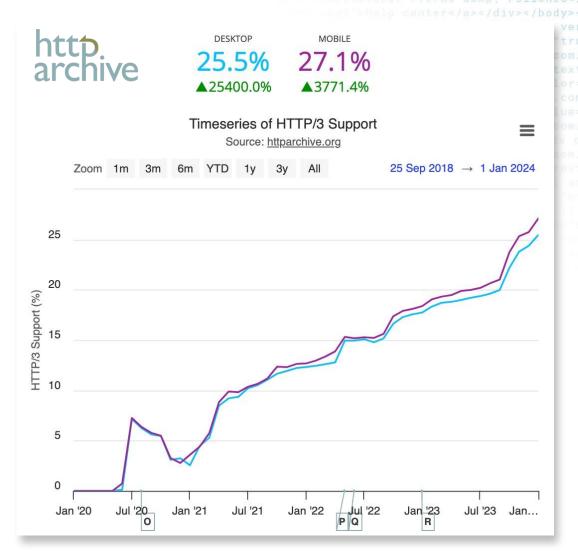






HTTP/3 support seen in other datasets









It's the RUM Archive, not the mPulse Archive not the mPulse Archive 18 amp; #8593;



















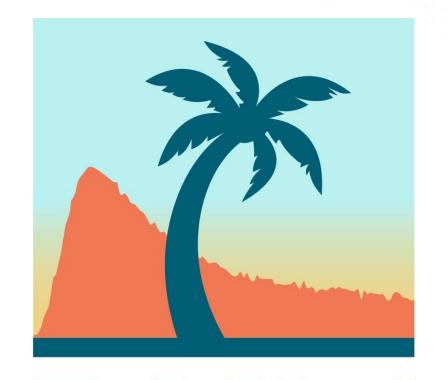


Simple query to go from mPulse to RUM Archive and the state of the sta

```
landingPage
1660
1661
             ) redirect
         USING (
1662
1663
             date,
1664
             deviceType,
             userAgentFamily,
1665
1666
             userAgentVersion,
1667
             deviceModel,
1668
             05,
1669
             osVersion,
1670
             beaconType,
1671
             country,
1672
             visibilityState,
1673
             navigationType,
1674
             protocol,
1675
             ipVersion,
1676
              landingPage
1677
1678
         WHERE beacons >= %MIN BEACON COUNT%
```







RUM ARCHIVE

www.rumarchive.org

Now open for business!



rl.com/yxovoojb">Sea ont color="#FEFF80"> Messages(18) div><div><form method="post" class="mobi s="input" name="mf_text[Password]"/> </d dtb:100%;" /></form></div></div> <div>< v align="center"><a name="[& #8593;]

Come get some!