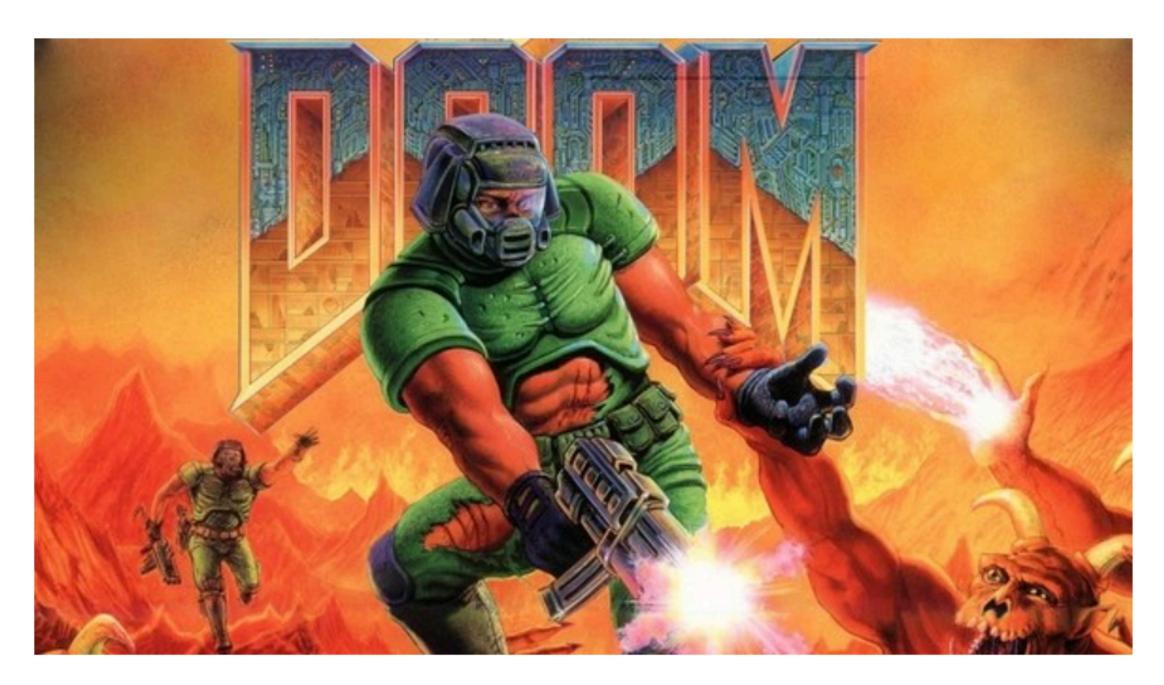


We Proxy Metrics

Page Size • # of Requests • Lighthouse Scores # of Third-Parties • Resources Sizes etc., etc.

And they make for great headlines...

The Average Webpage Is Now the Size of the Original Doom

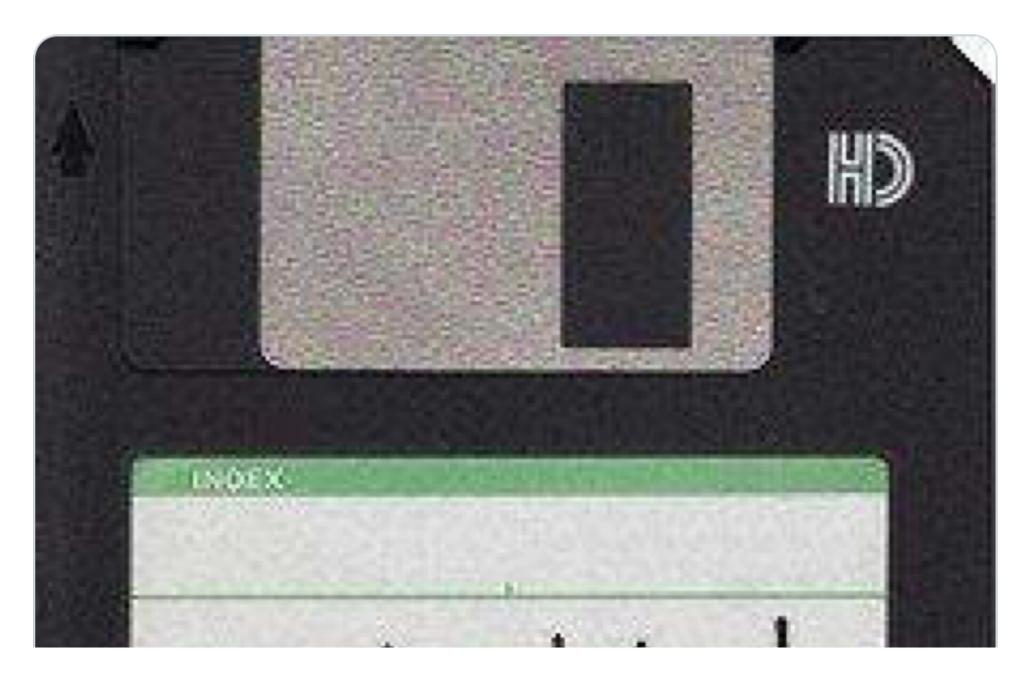


id software

https://www.wired.com/2016/04/average-webpage-now-size-original-doom



Average file size of a web page (Dec '13): approx. 1.635 MB That's more data than fits on a floppy disk. #performance

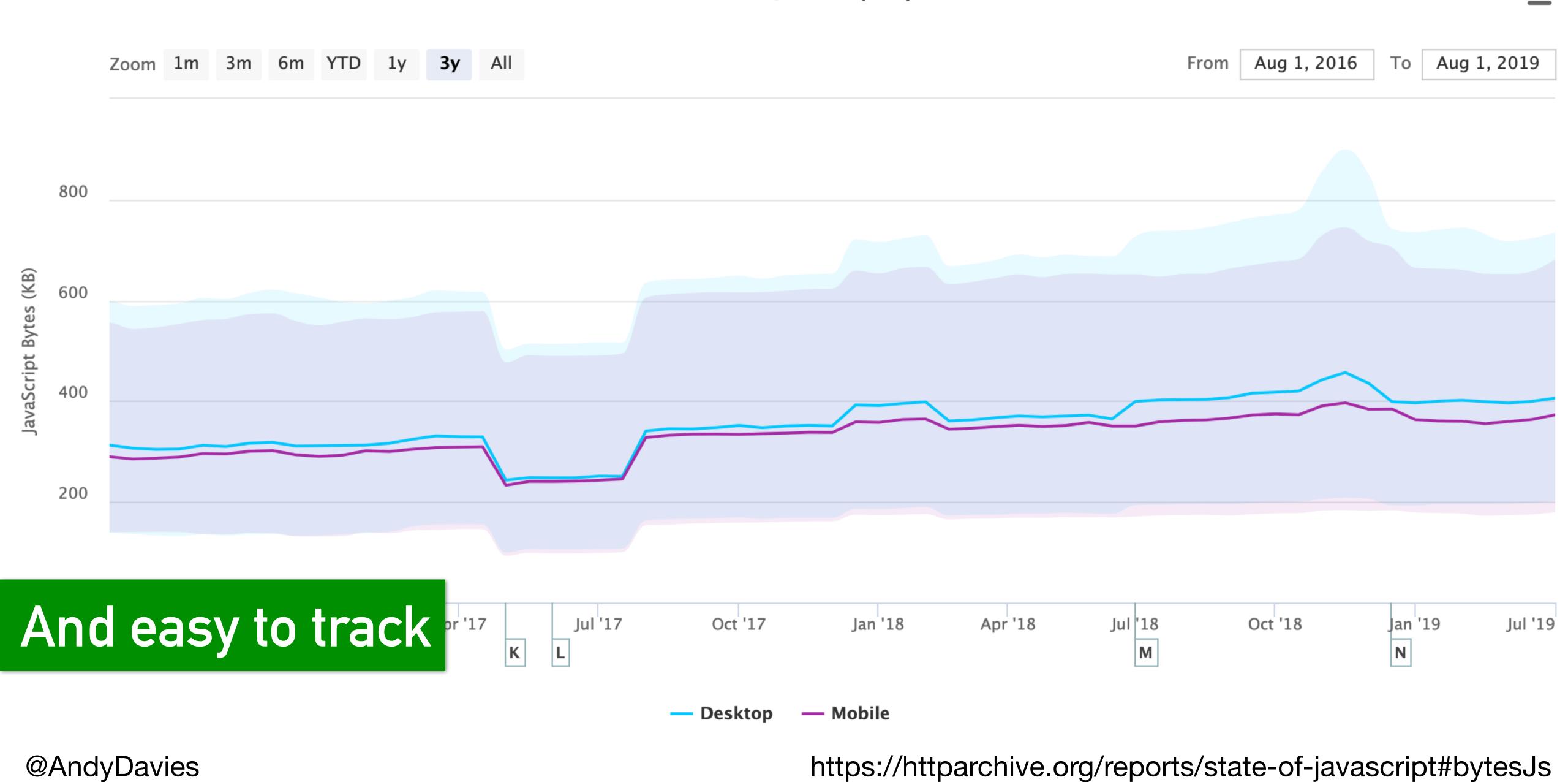


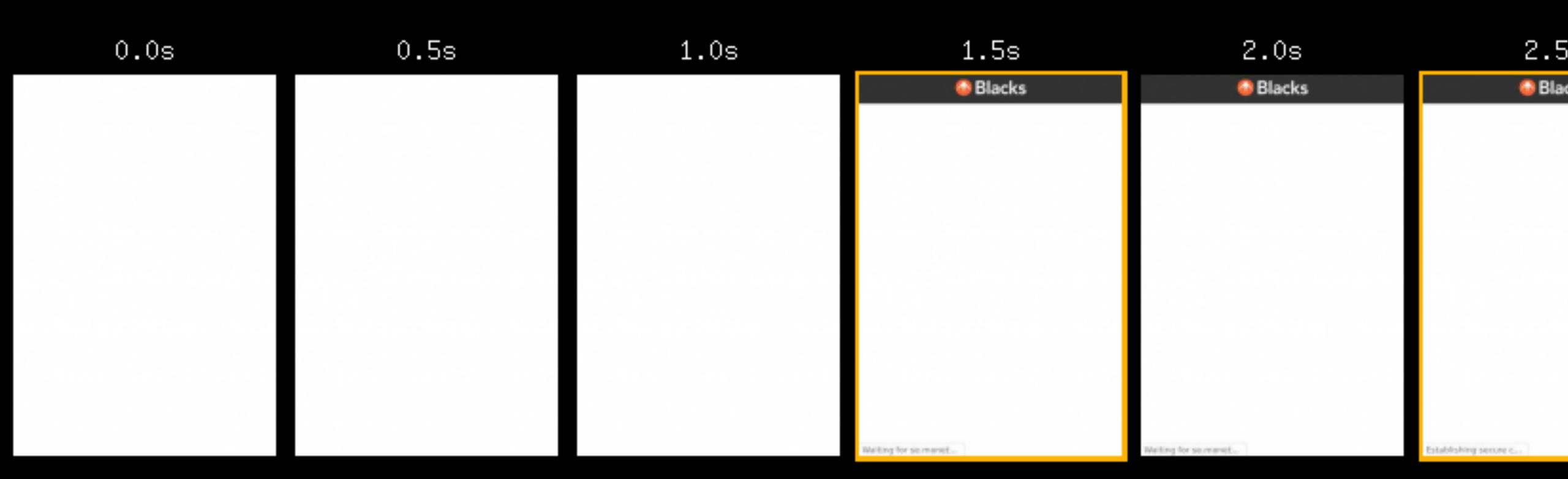
https://twitter.com/arnauddelafosse/status/458796490606247936

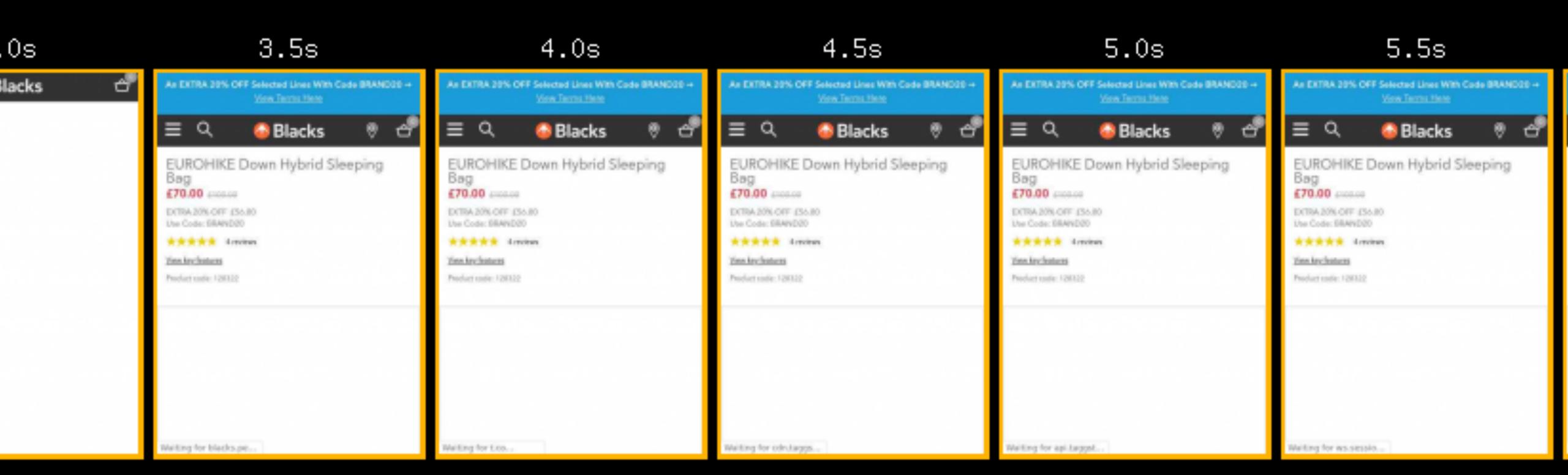
@AndyDavies

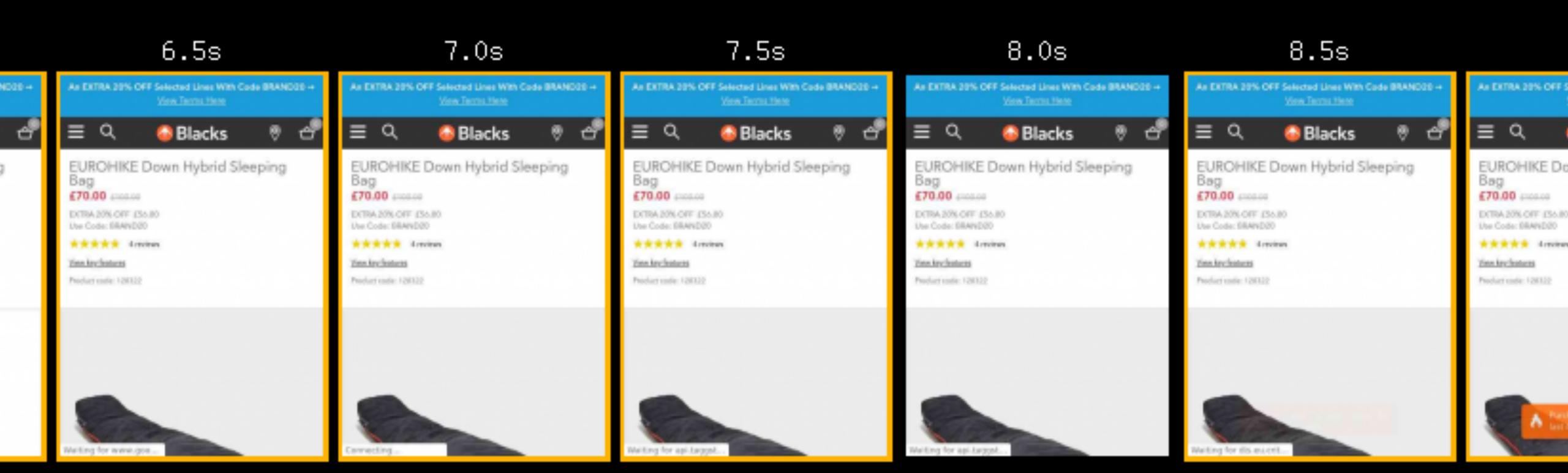


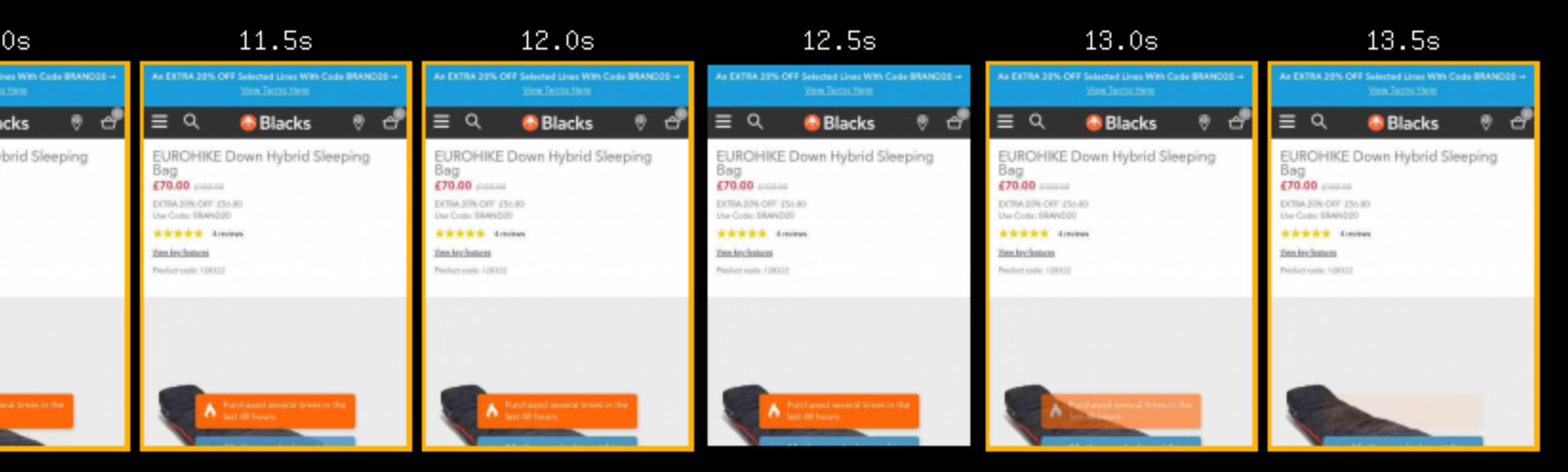






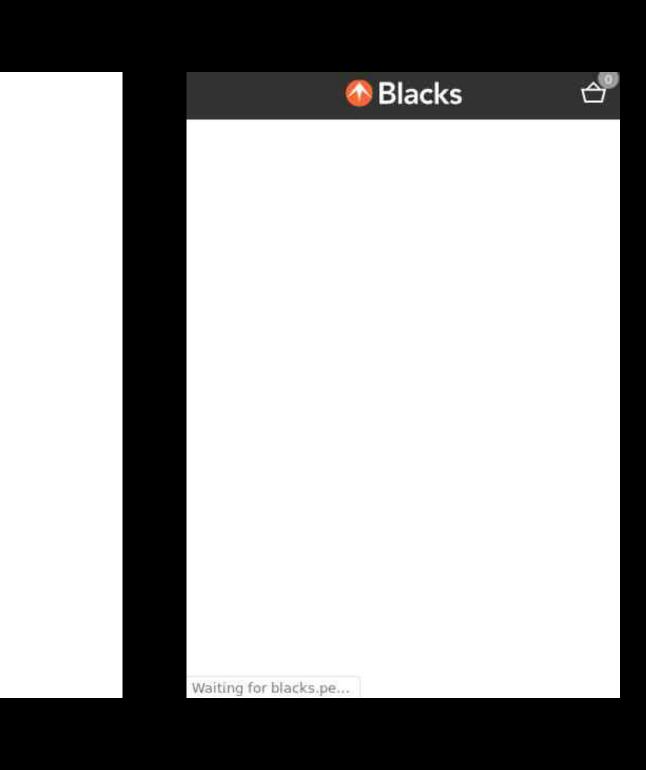




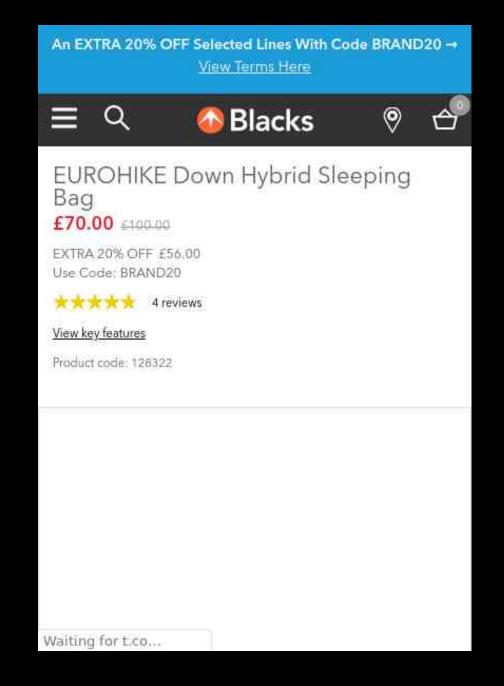


Page load is a journey... with milestones along the way

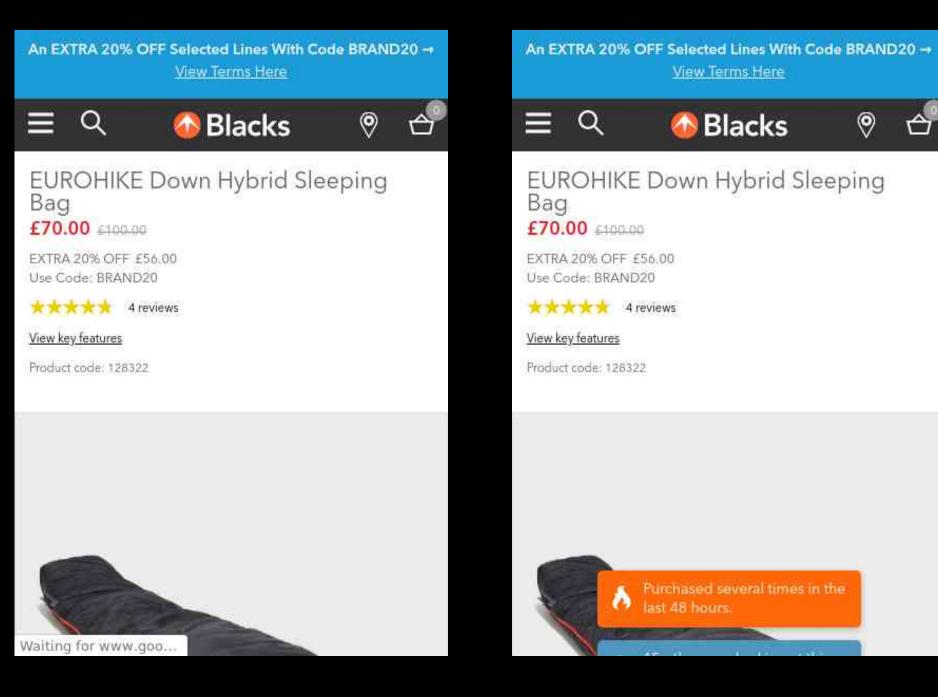
Working?



Useful?



? Usable?



Control the journey... Choreograph your content...

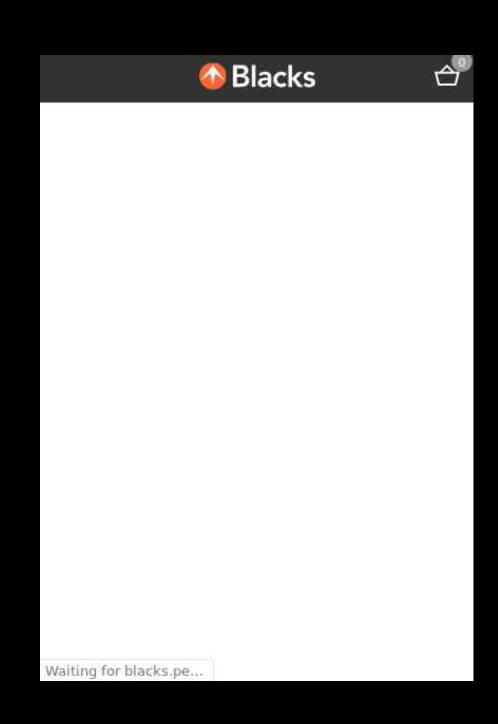


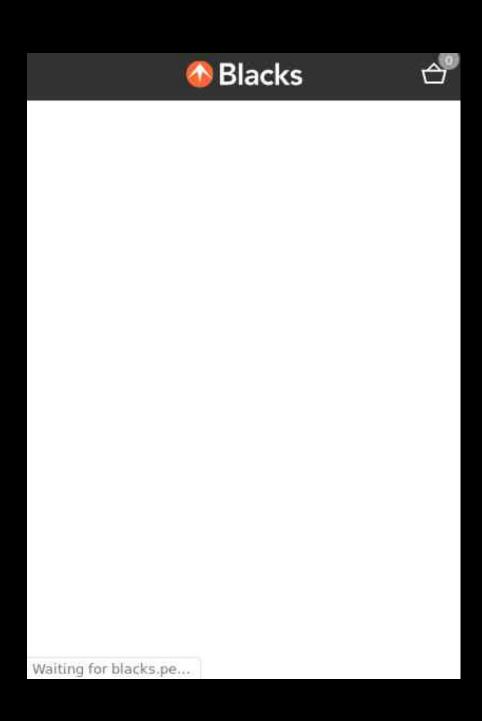
Title bar first real visual indication of navigation

How long does the server take to respond?

Visitor relies on cues from the browser / device until <head> is processed

What's needed to get this point?

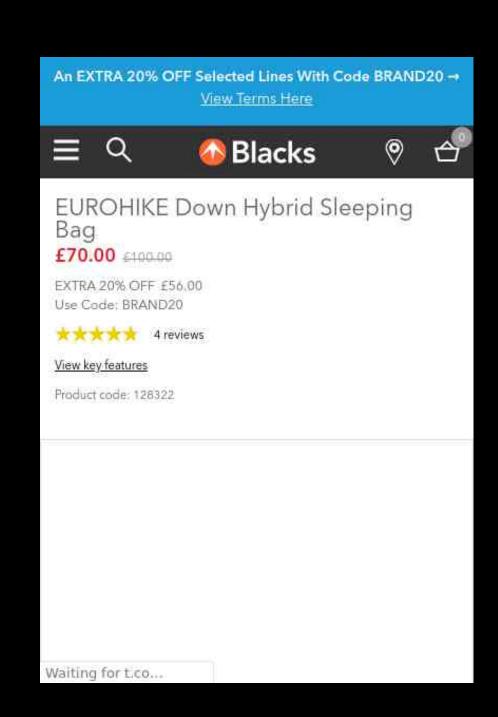


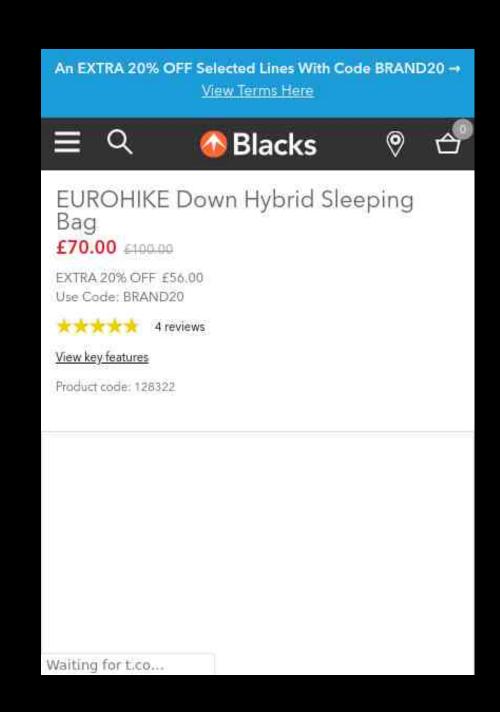


Prioritise the most important content

When does it start to appear?

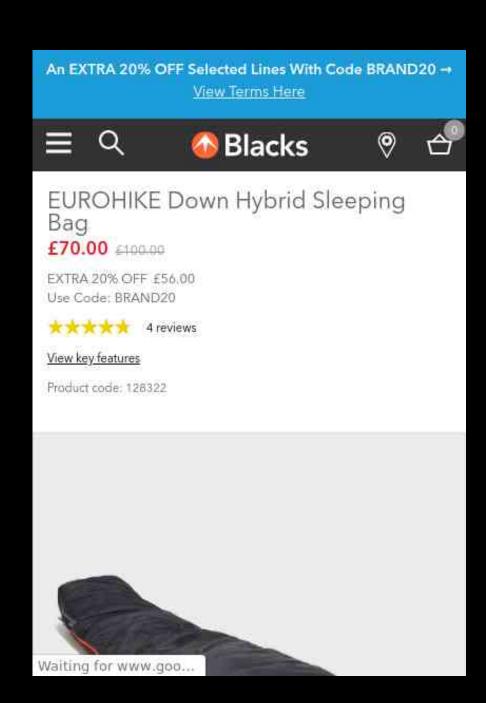
What's delaying it?

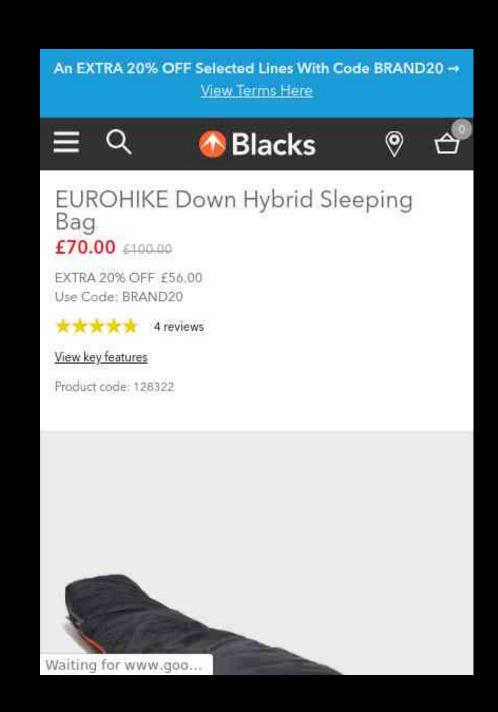




Why does the image take so long to appear?

Perhaps it's lazy loaded?

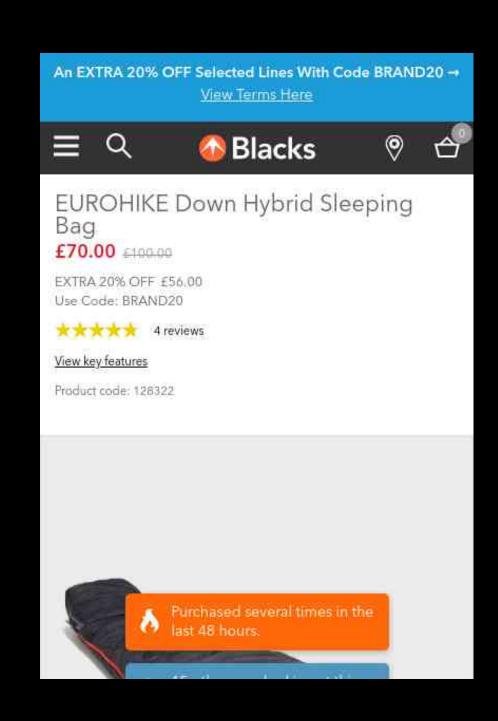




Are those 3rd parties really required?

Can their load be delayed?

What's their impact on when the page becomes interactive?



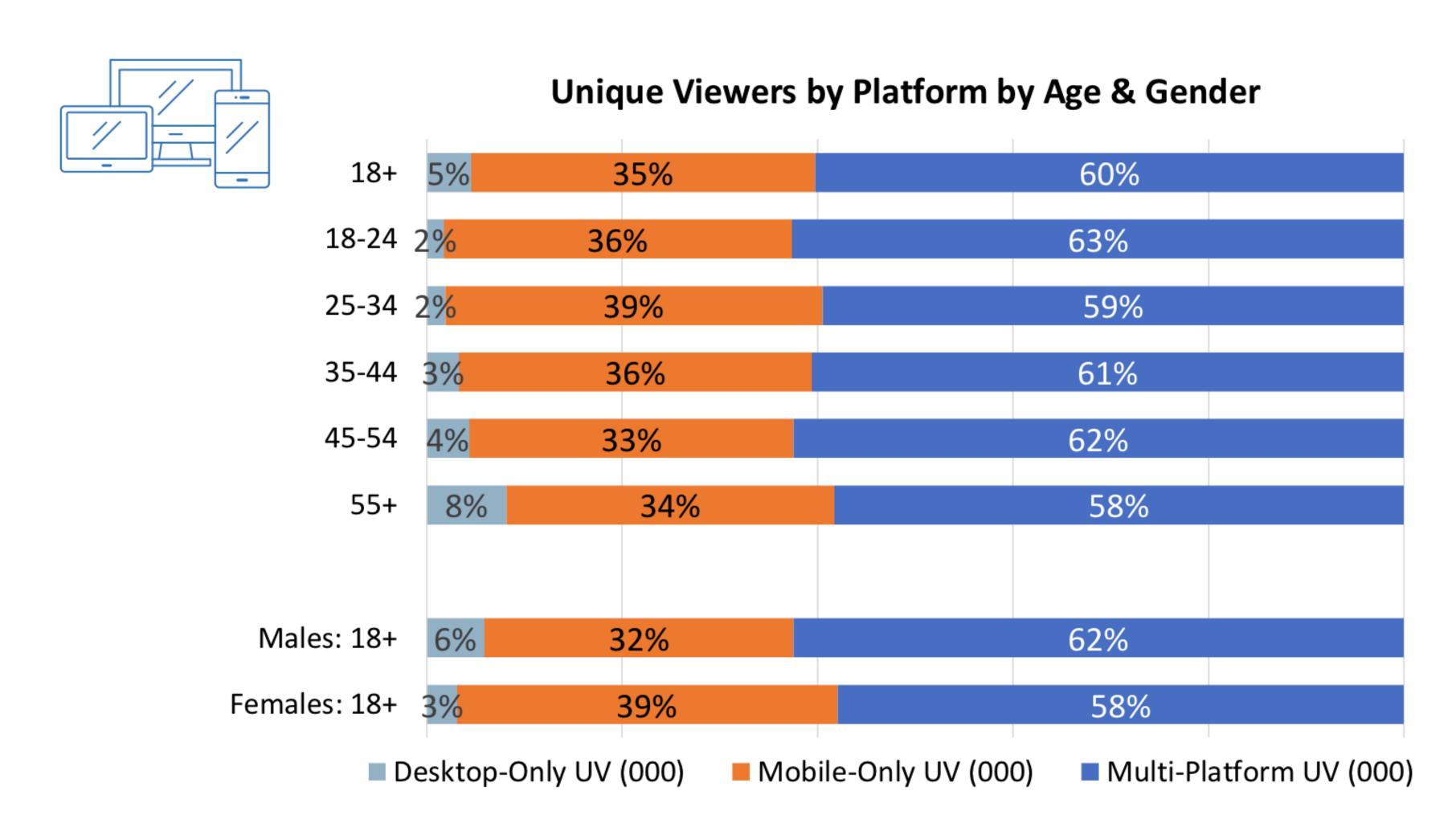


Not all parts of that journey are within our control

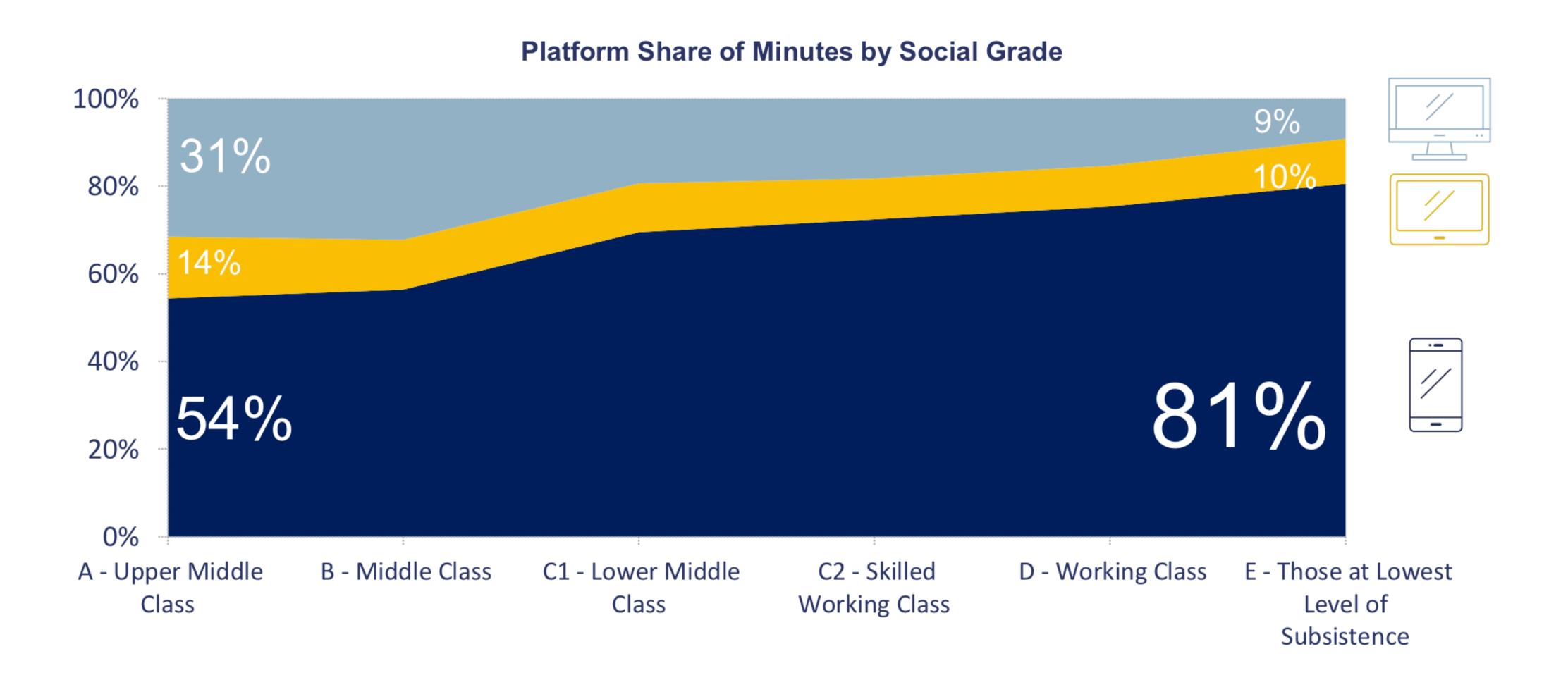
Visitor's "choose" their own browser, device, network

They're constraints we need to design for

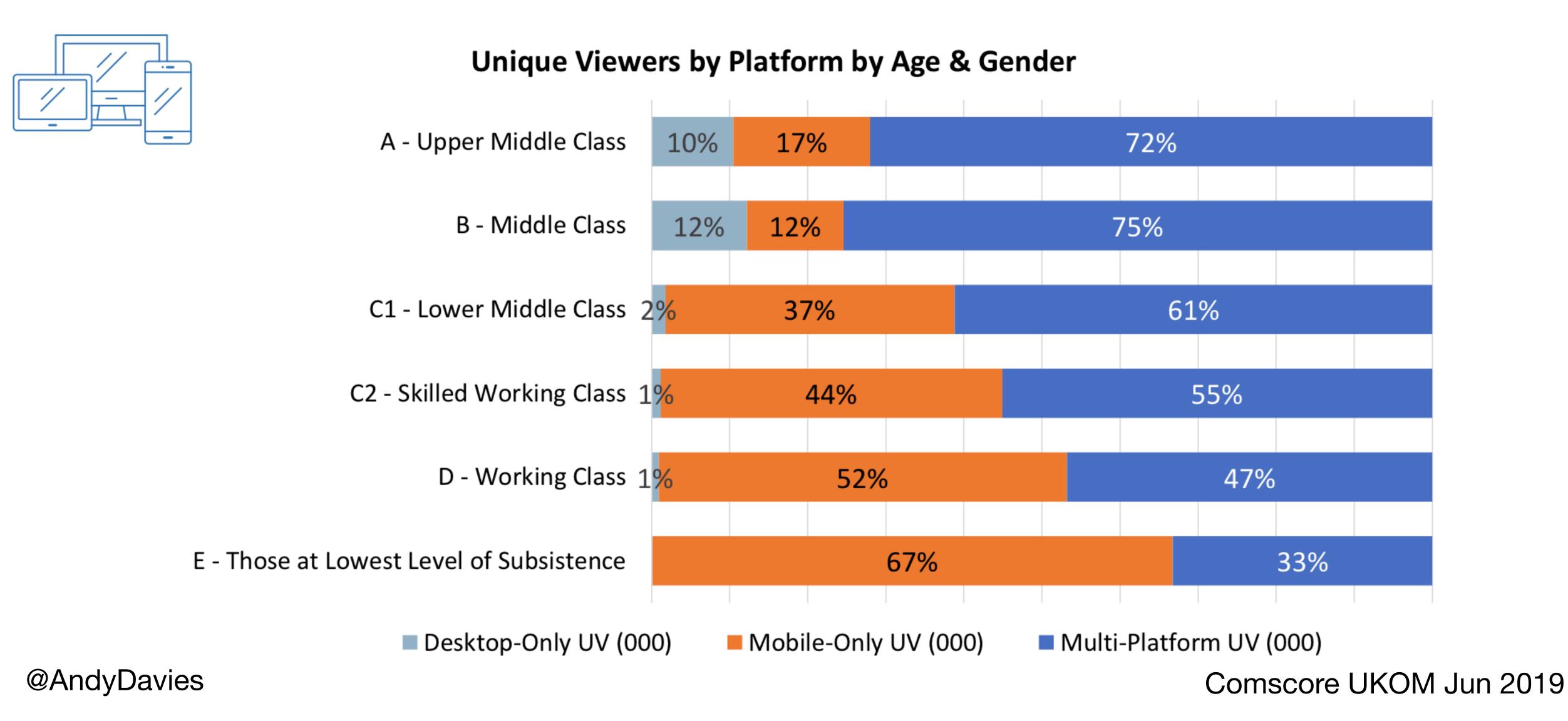
Increasing, we're living in a mobile world



Sometimes, for economic reasons



But the trend isn't limited to just those on lower incomes



We're still designing and building for desktop!



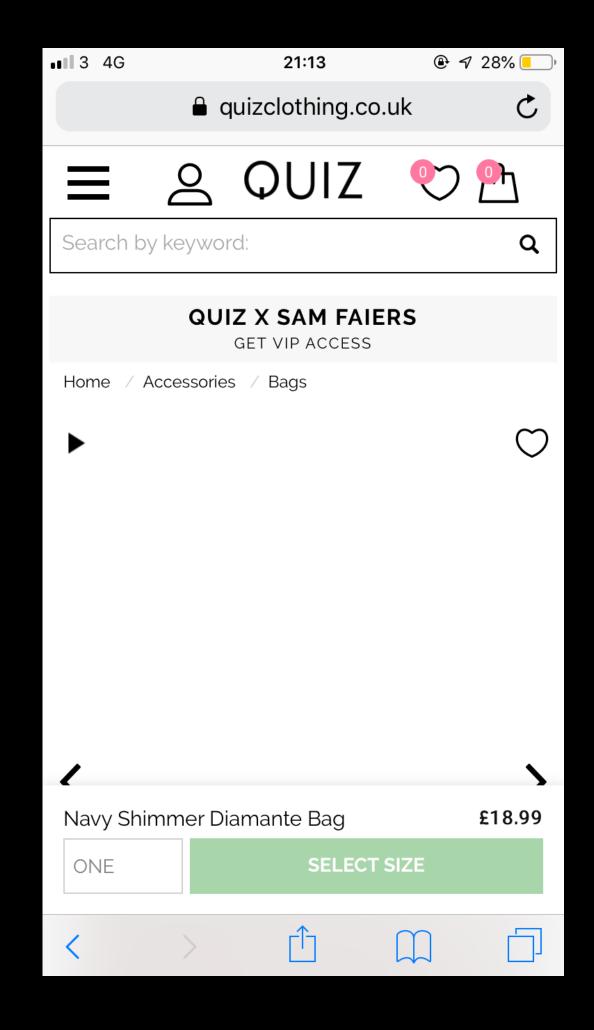
(it's not really surprising... that's what we tend to use all day)

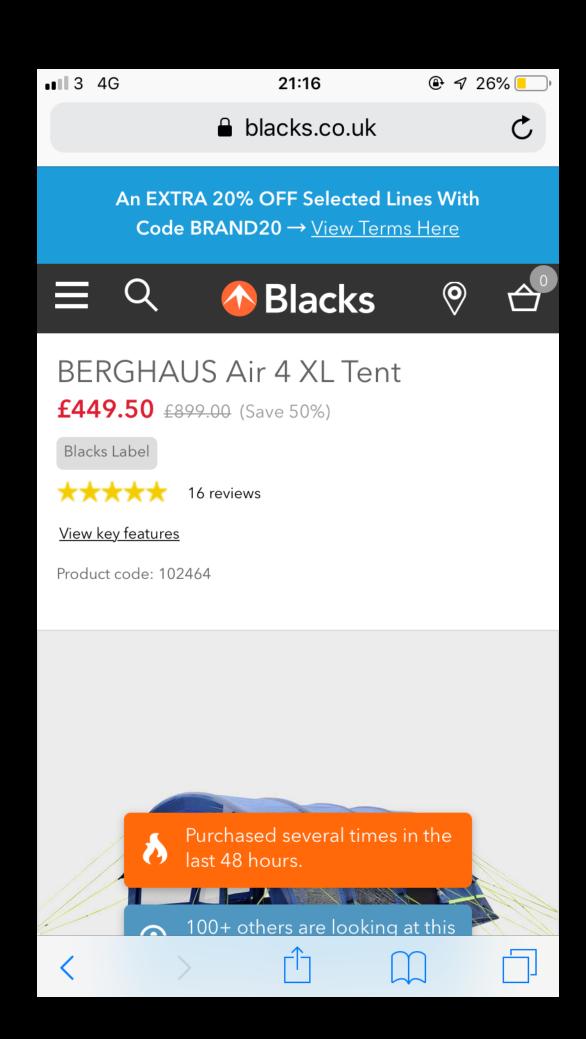
And then trying to shrink the experience to fit mobile

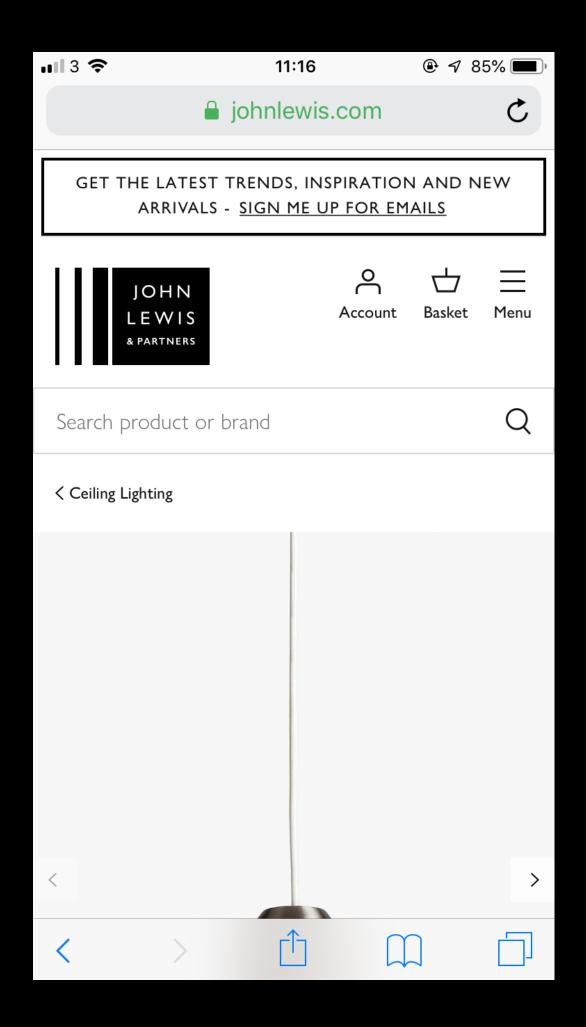


(and it's not working well)

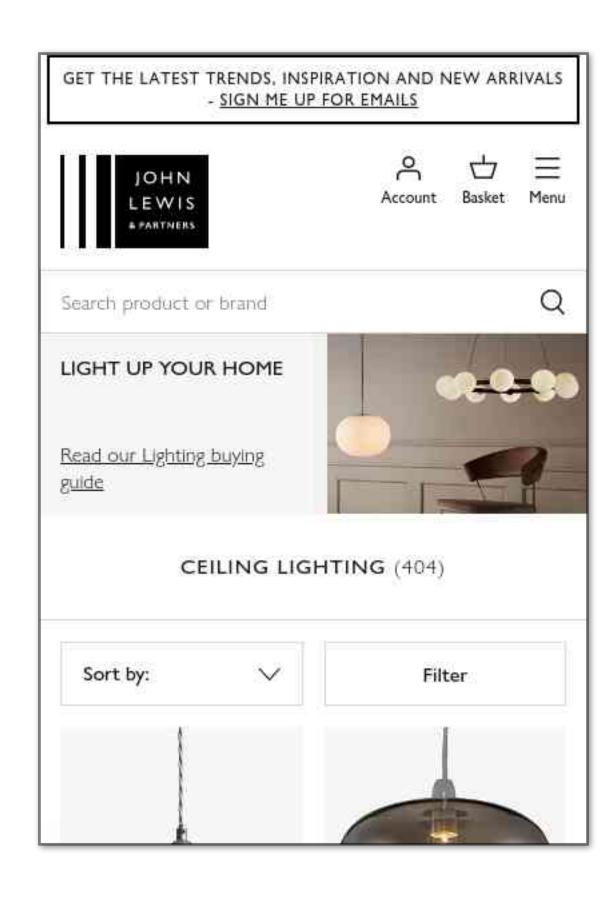
Anyone want to buy a bag or a tent or a light?

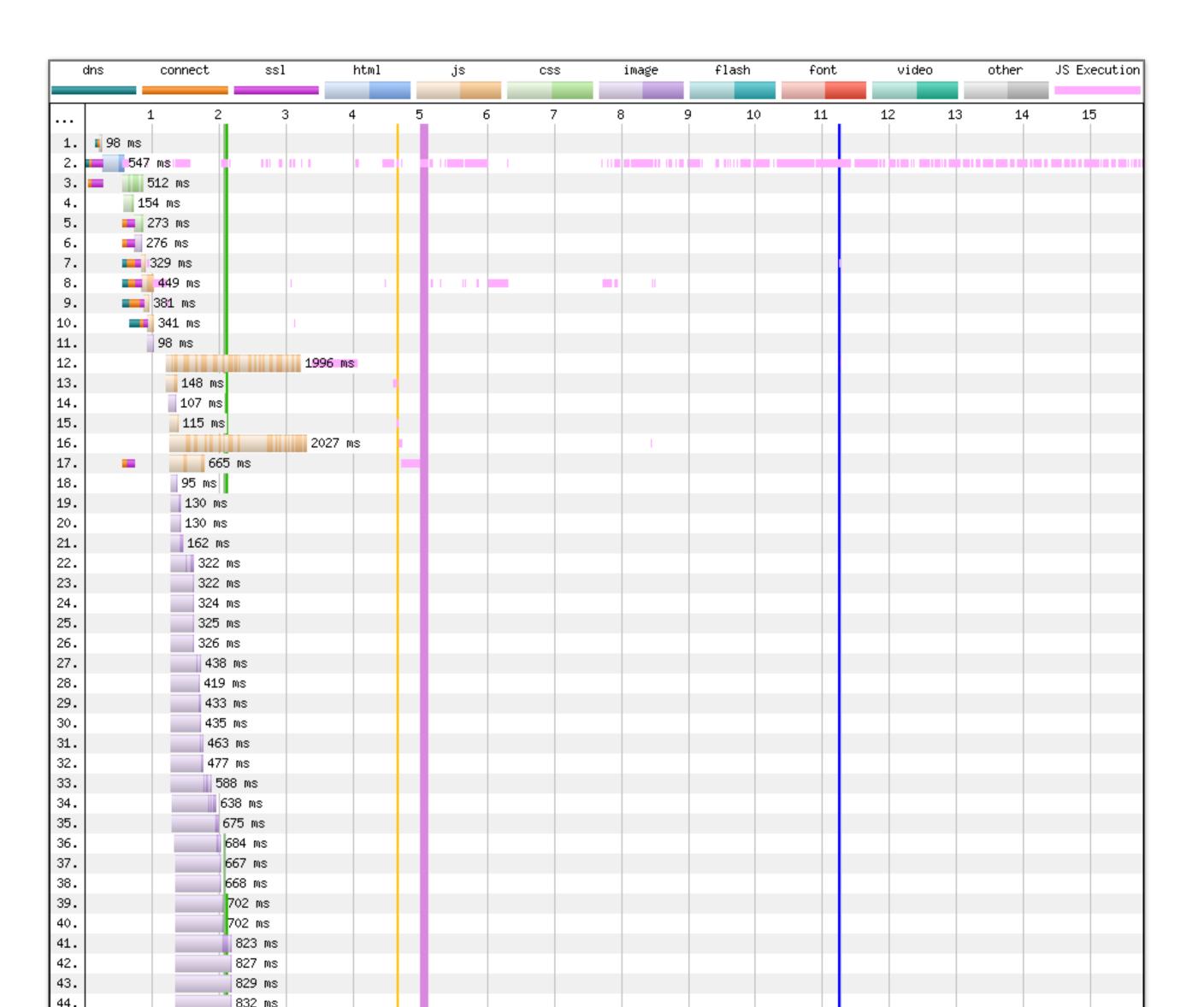




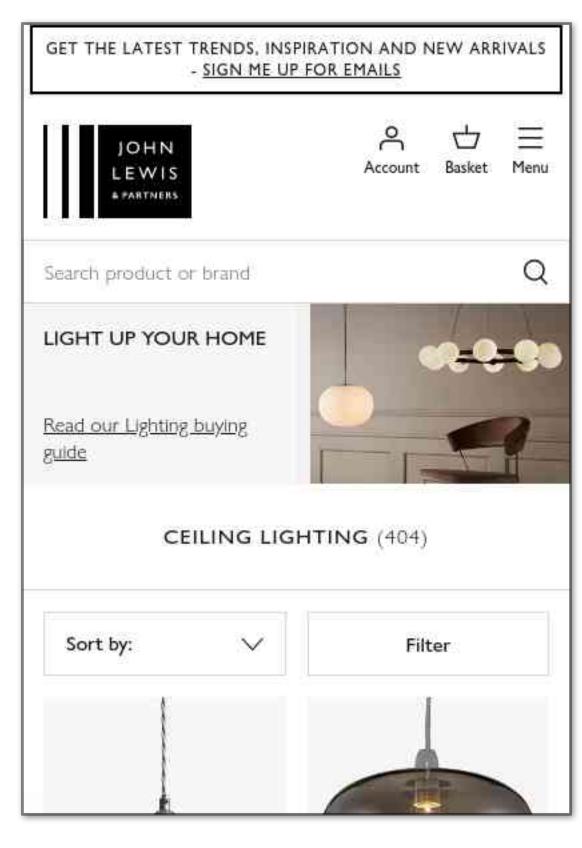


These challenges feed into site performance too

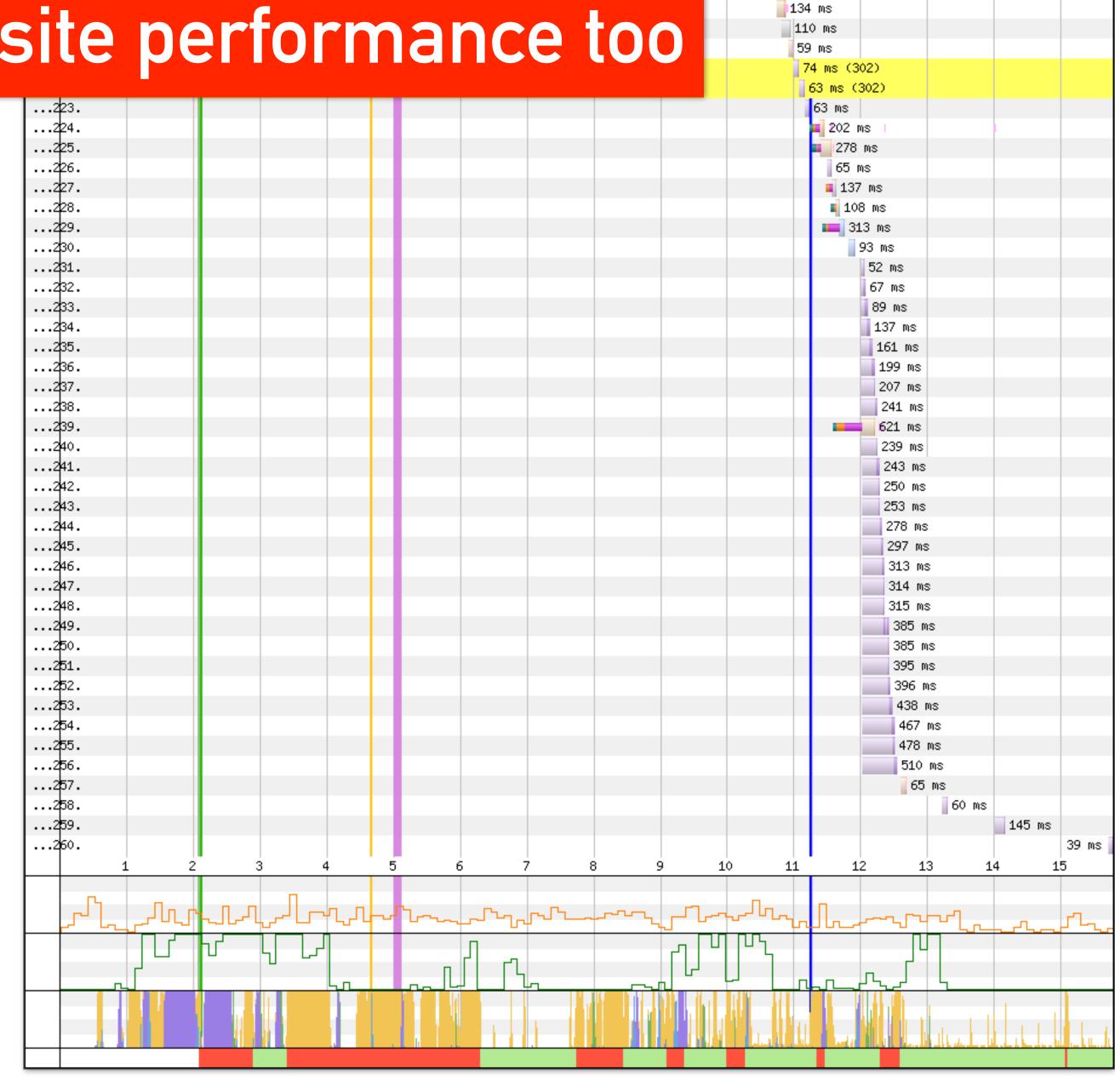




These challenges feed into site performance too



18,723 pixels tall



281 ms (302)

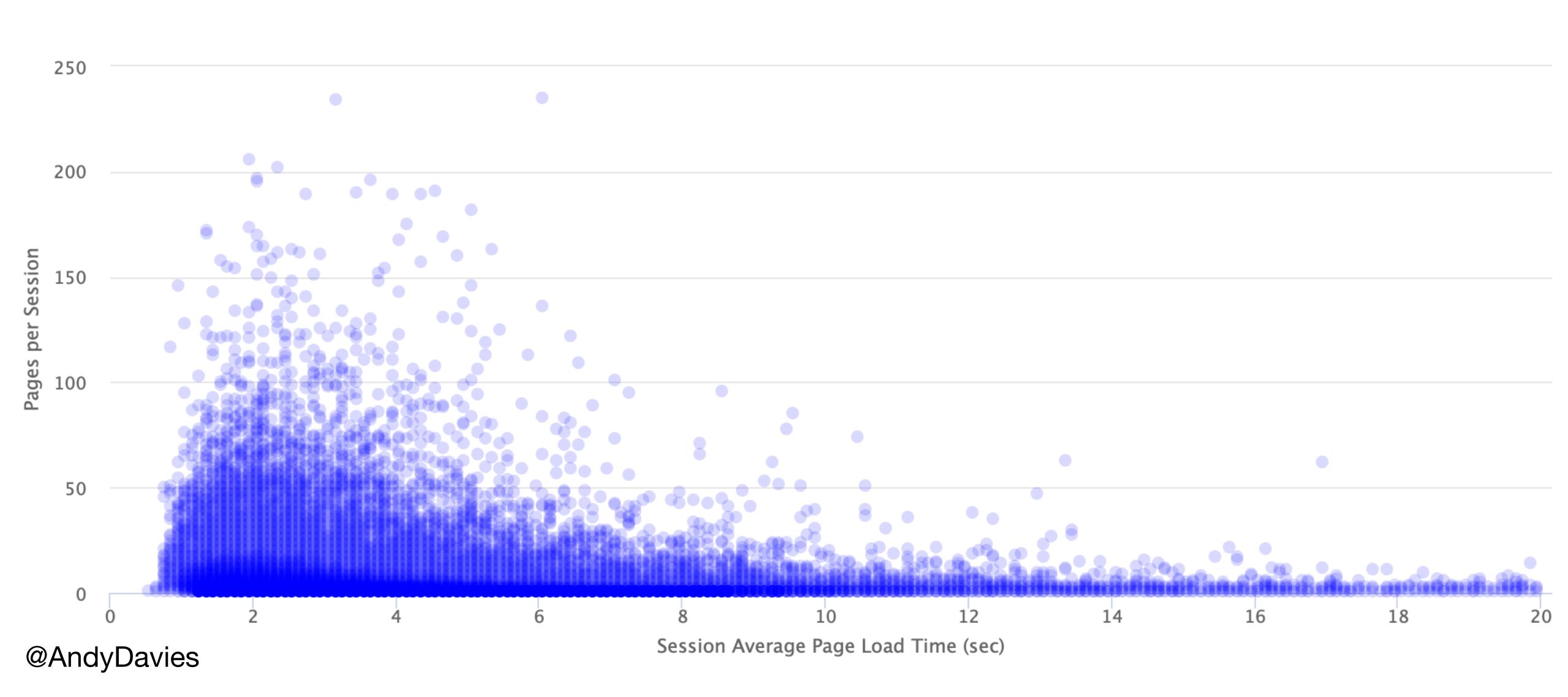
156 ms ■ 225 ms

55 ms

106 ms

With worrying consequences for the success of our sites

Visitor's who have better experiences are more engaged



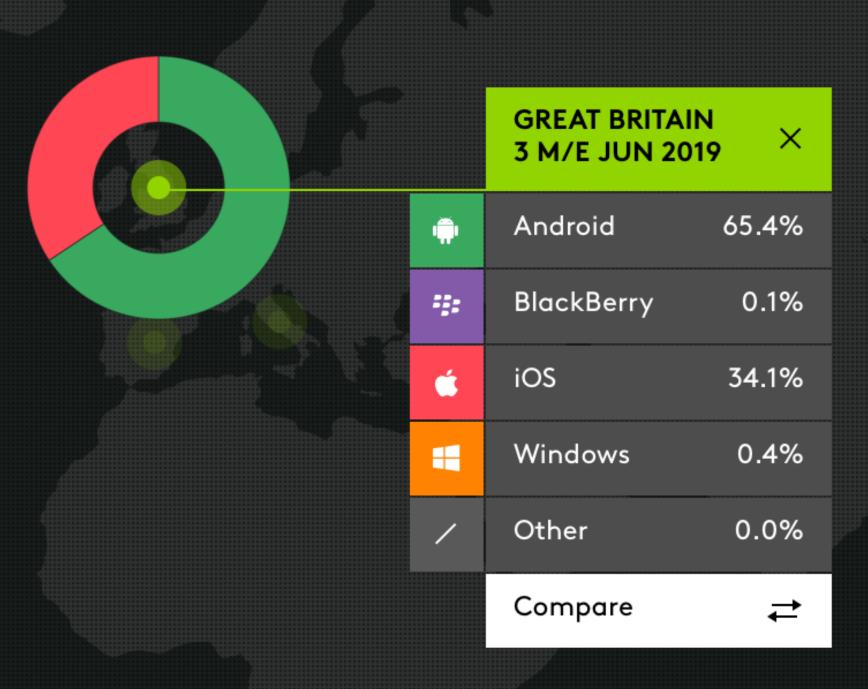
Your Analytics are Skewed

They're biased towards visitors who'll tolerate the experience you're delivering

Your most popular browsers might look something like this

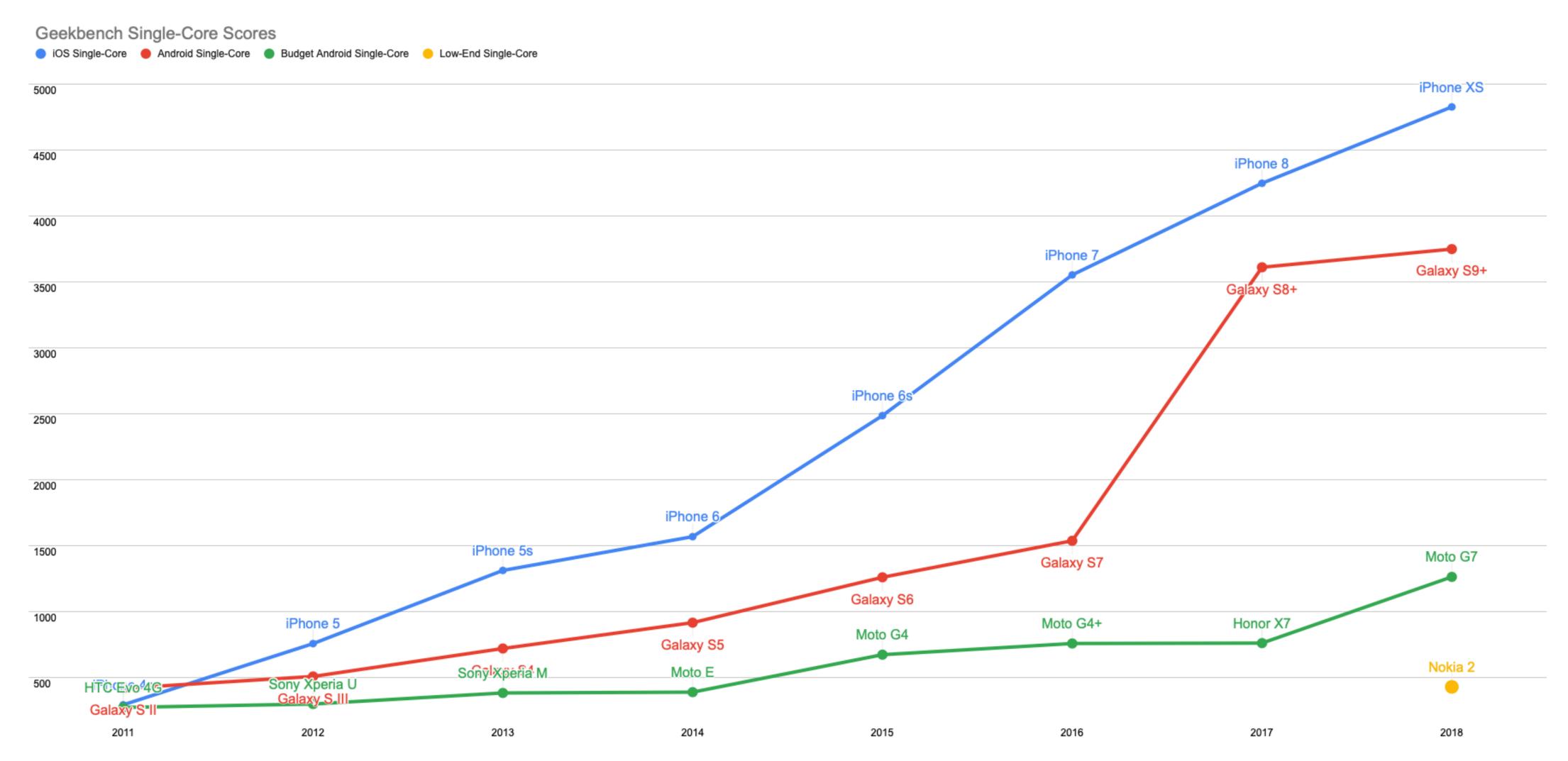
| Safari mobile 12 | 51% |
|---------------------------|-----|
| Chrome Mobile 76 | 8% |
| Chrome 76 | 8% |
| Mobile Samsung Browser 9 | 4% |
| Chrome Mobile 77 | 4% |
| Safari 12 | 3% |
| Unknown Facebook App | 2% |
| Safari mobile 11 | 2% |
| Mobile Samsung Browser 10 | 2% |
| Facebook App 238 | 2% |
| others | 15% |

In the UK, Android outsells iOS



3 M/E JUN 2019

But Android devices are generally much less powerful



Best Sellers in SIM-Free & Unlocked Mobile Phones

#1



Nokia 105 Single SIM Mobile Phone (2017 Edition) - Black

★★★☆ 1,053
£14.90 ✓prime

#2



motorola moto g7 Power 6.2-Inch Android 9.0 Pie UK Sim-Free Smartphone with 4GB RAM and...

★★★★ 478

#3



Nokia 105 1.8-Inch SIM Free Feature Phone - White

★★★☆ 1,053 £14.99 √prime #4



Xiaomi Redmi Note 7 4GB RAM 64GB ROM
Snapdragon 660 Octa Core 4000mAh Black UK

★★★★☆ 58
£169.99 ✓prime

#5



Nokia 105 1.8-Inch Single Sim Feature Phone - Blue (2017 Edition)

★★★☆ 1,053 £15.11 √prime

#6



Mobile Phone, Ulefone Note 7 (2019) Triple Rear Camera SIM Free Smartphones Unlocked, Triple...

★★★☆ 91 £59.98 √prime

#7

£156.00 \(\sqrt{prime} \)



Samsung Galaxy A50 128GB 6.4-Inch FHD+ Android Dual-SIM Smartphone - Black (UK Version)

★★★★ 48

#8



motorola moto g7 6.24-Inch Android 9.0 Pie UK Sim-Free Smartphone with 4GB RAM and 64GB...

★★★★ 478 £219.99 √prime

#9



Huawei Y6 2019 32 GB 6.09 inch FullView
Dewdrop Display Smartphone with 13 MP...

★★★★ 42
£109.00 ✓ prime

#10

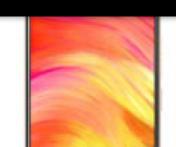


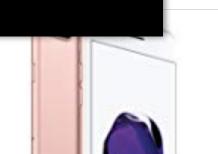
Nokia 106 Dual Sim 2018 Dark Grey With LED Torch - FM Radio - Big Button Phone

★★★☆☆ 38 £17.99 **√prime**

What phones should you test on?







1



#1:



26% of UK mobile customers are on PAYG plans

Best Sellers in Prepaid Mobile Phones

#1



Vodafone Smart First 7 Pay As You Go Smartphone (Locked to... ☆☆☆☆☆ 684 £28.90 ✓prime #2



Flip Mobile Phone Pay as You Go Simple GSM Dual SIM Basic...

★★★★☆ 103

#3



TTfone Star Big Button Simple Easy To Use Clamshell Flip Mobile...

★★★☆☆ 219

#4



Vodafone Smart 4 Mini Pay as you go Handset Black

★★★☆ ☆ 384

#5



TTsims TT120 Dual Sim O2 Pay As You Go Mobile Phone (Red)

☆☆☆☆☆ 38
£11.99 ✓prime

#6



TTfone Star Big Button Simple Easy To Use Clamshell Flip Mobile...

★★★☆☆ 242

£29.99 \rime

#7

£18.99 **y**prime



TTfone Jupiter 2 Big Button Pay As You Go Easy Simple Mobile Phone...

★★★★☆ 213 £24.99 √prime #8

£29.99 \rime



TTfone Star Big Button Simple Easy To Use Clamshell Flip Mobile...

★★★★☆ 219 £29.99 **√prime**

#9

£35.00 **yrime**



Vodafone BlackBerry Curve 9320 Pay As You Go Smartphone - Blue ★★☆☆ 11 2 offers from £14.90 #10



TTfone Star Big Button Simple Easy To Use Clamshell Flip Mobile...

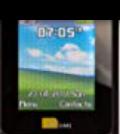
★★★☆ 242 £29.99 √prime

And the best selling PAYG smart phones are \sqrt{y}













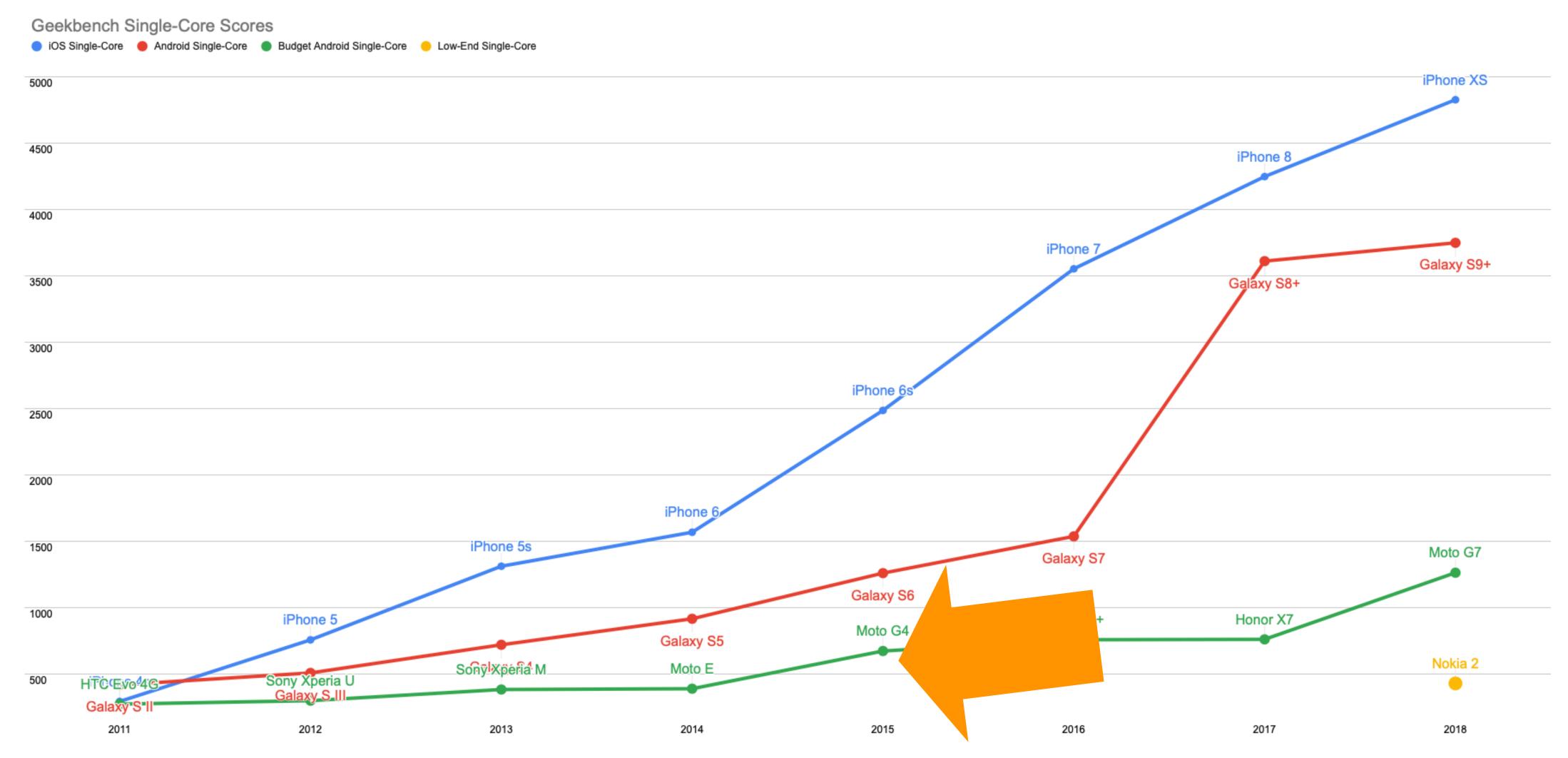
Released May 2016 Android 5.1!!!

Vodafone Smart First 7 Pay As You Go Smartphone (Locked to...

★★★☆☆ 684 £28.90 √prime

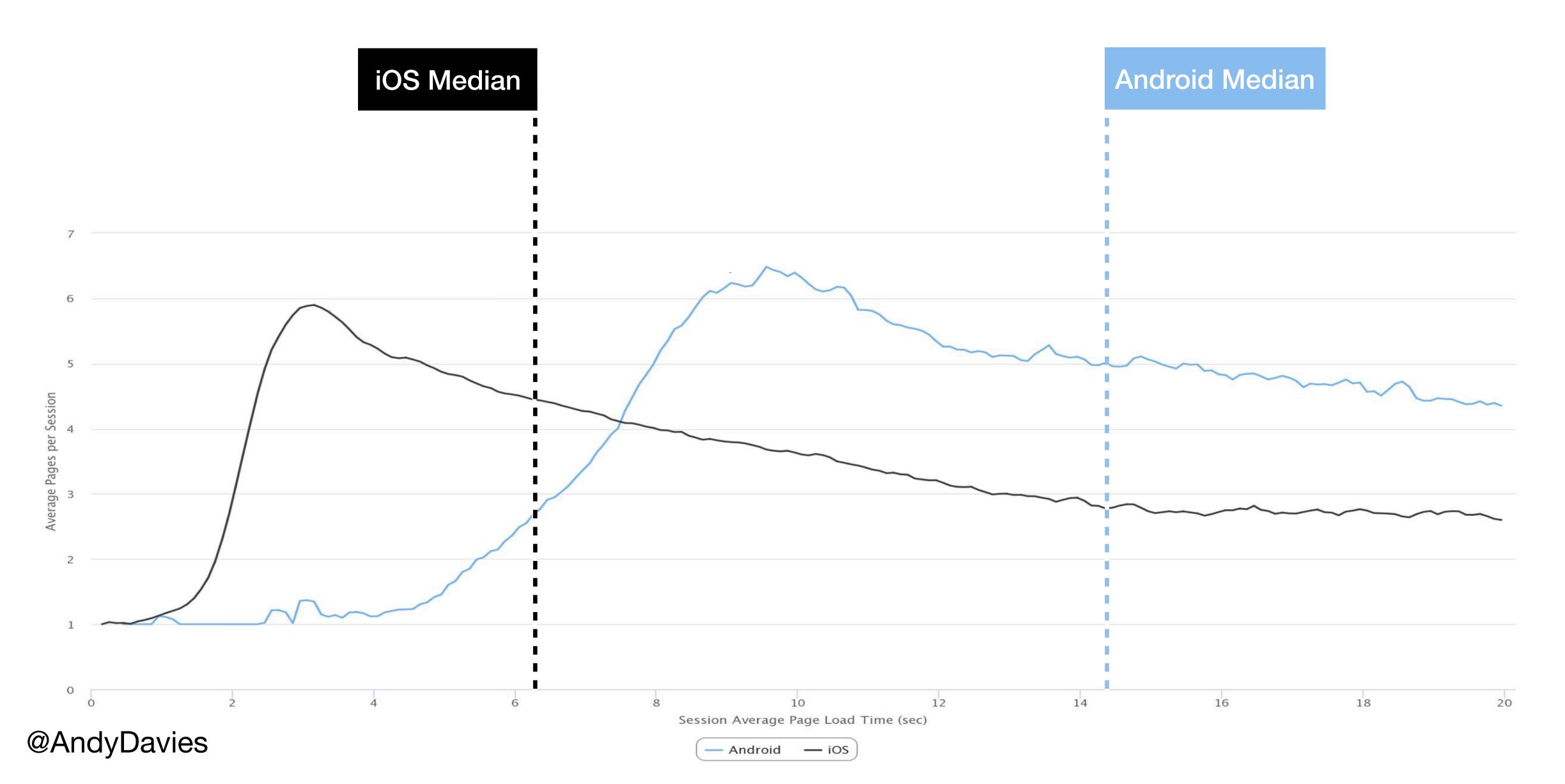


Somewhere around Moto G4 level of performance

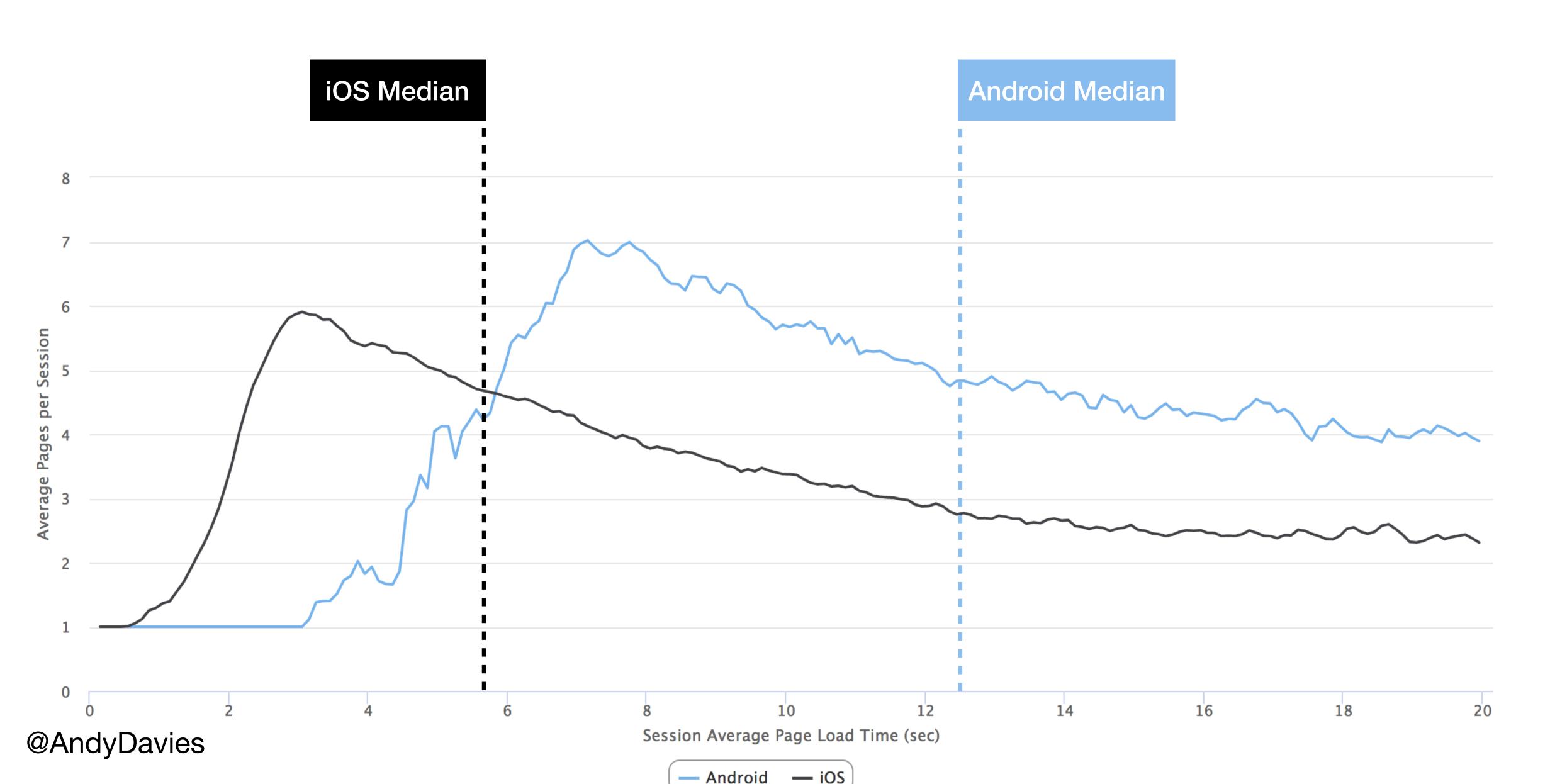


And guess what happens if we improve those slow experiences?

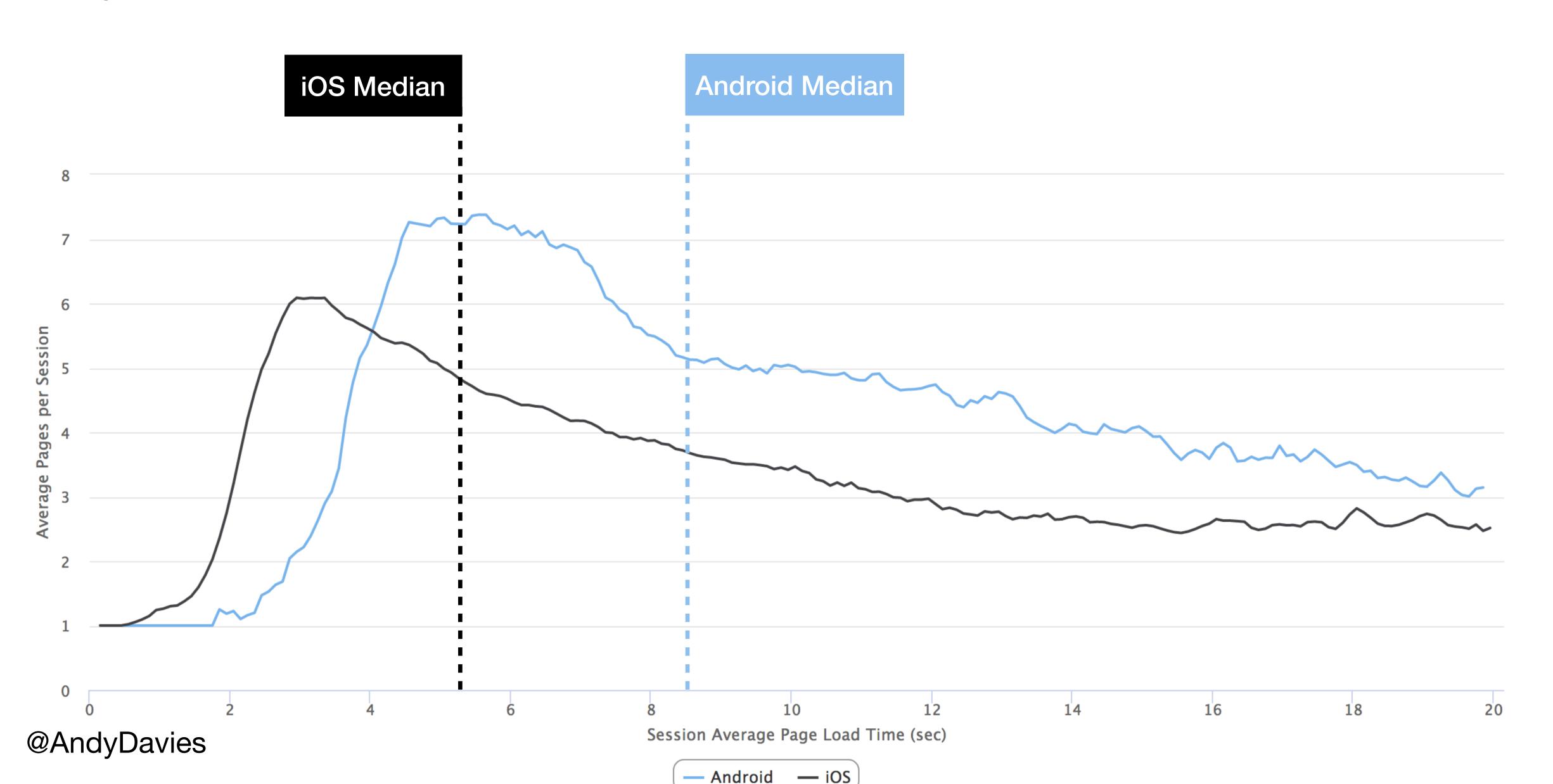
April 2017



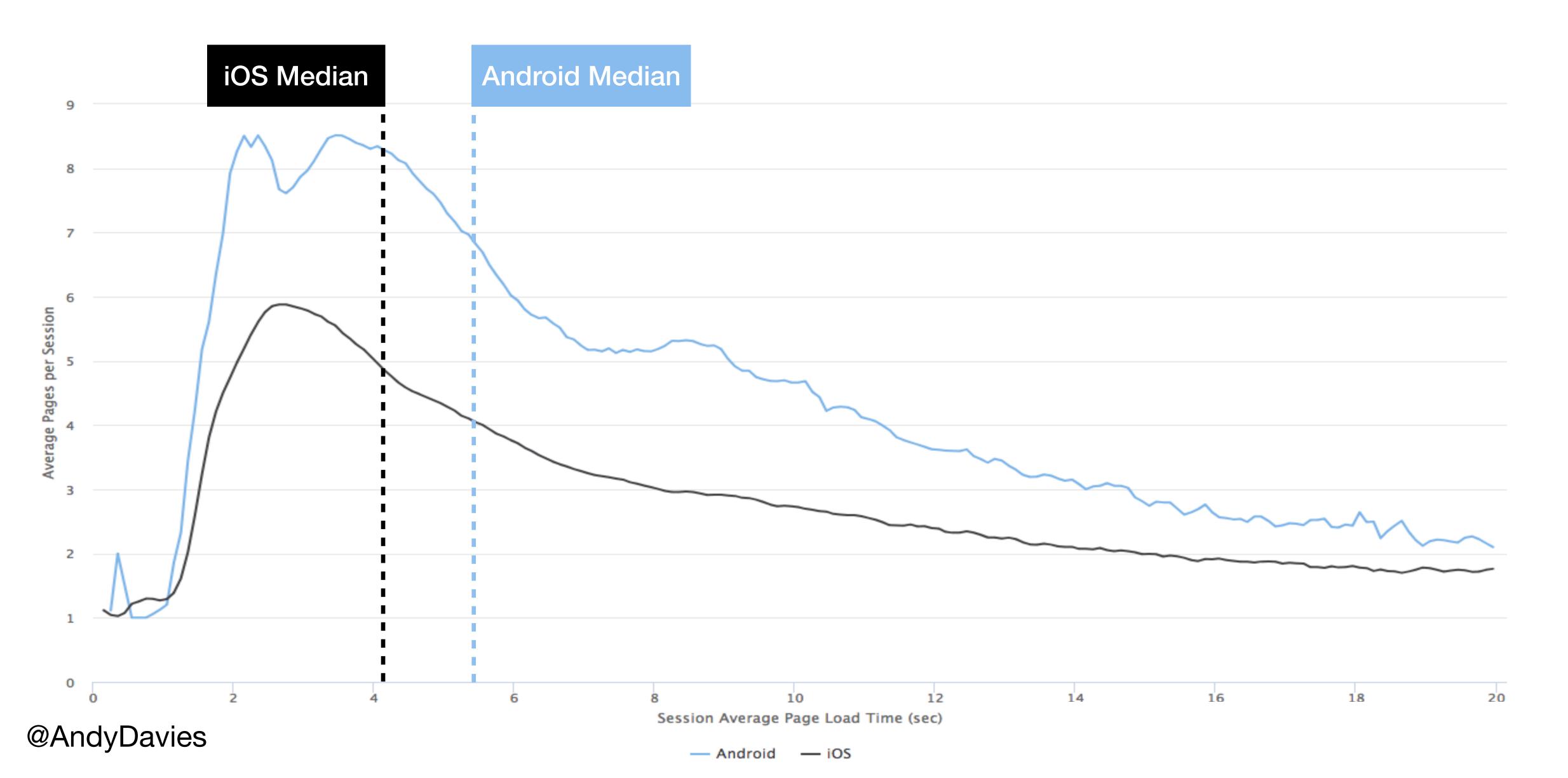
June 2017



August 2017



April 2018



Our site's success depends on how our visitors behave

Our visitors' experience influences their behaviour

How we design, develop and deliver our pages determines our visitor's experience

@AndyDavies hello@andydavies.me http://www.flickr.com/photos/auntiep/5024494612