

Keynote

PROGRESSIVE WEB APP

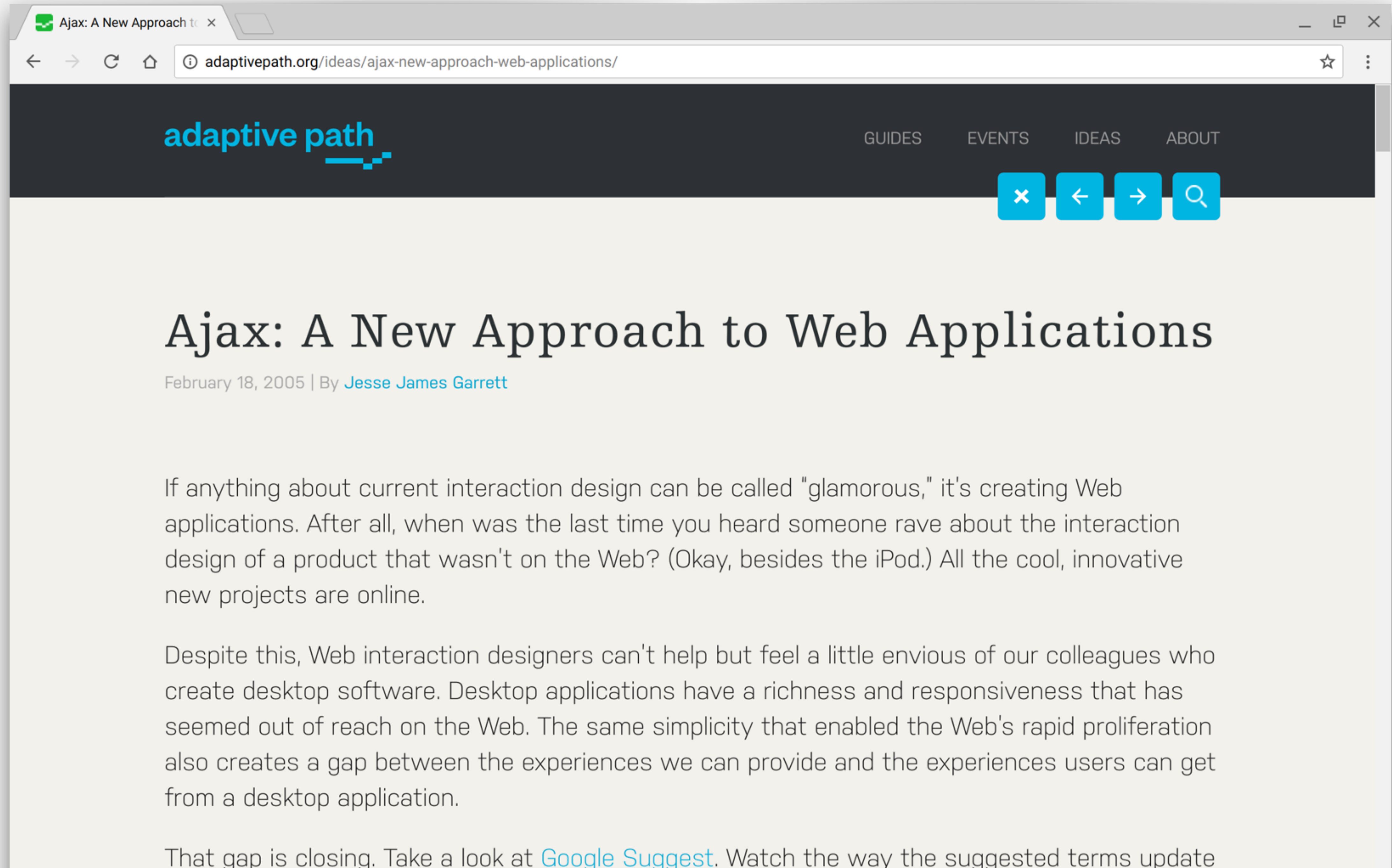
ROADSHOW 2016 

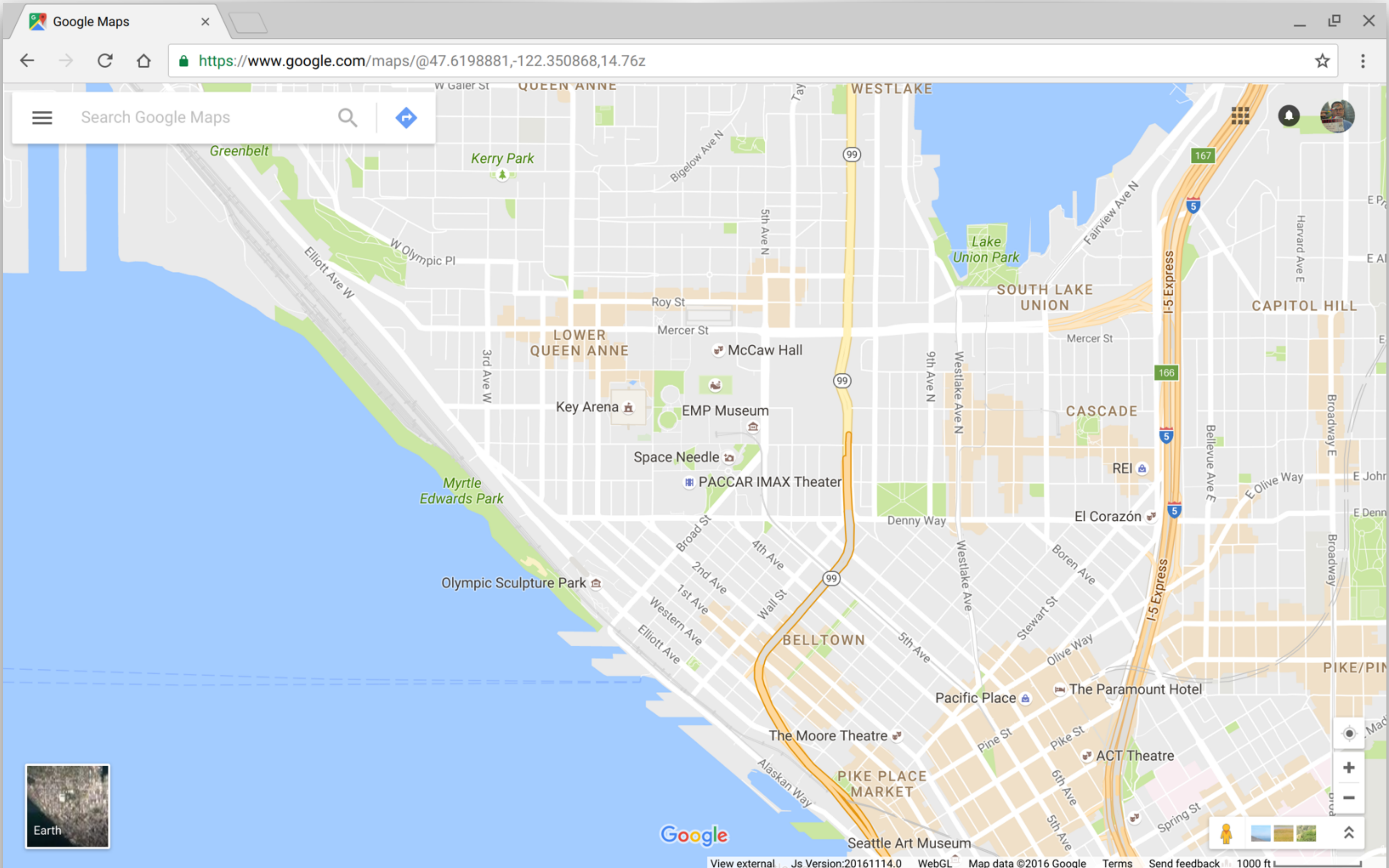
Code of Conduct

Treat everyone with respect.
Speak up if you see or hear something uncool.
Assume positive intent.

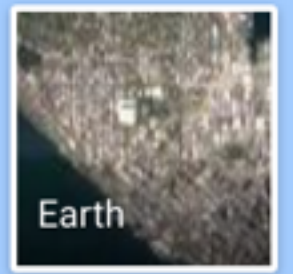
We have a zero tolerance policy for harassment.
Talk to a staffer, or email pwa-roadshow-na@google.com.

<https://goo.gl/s0UaDu>

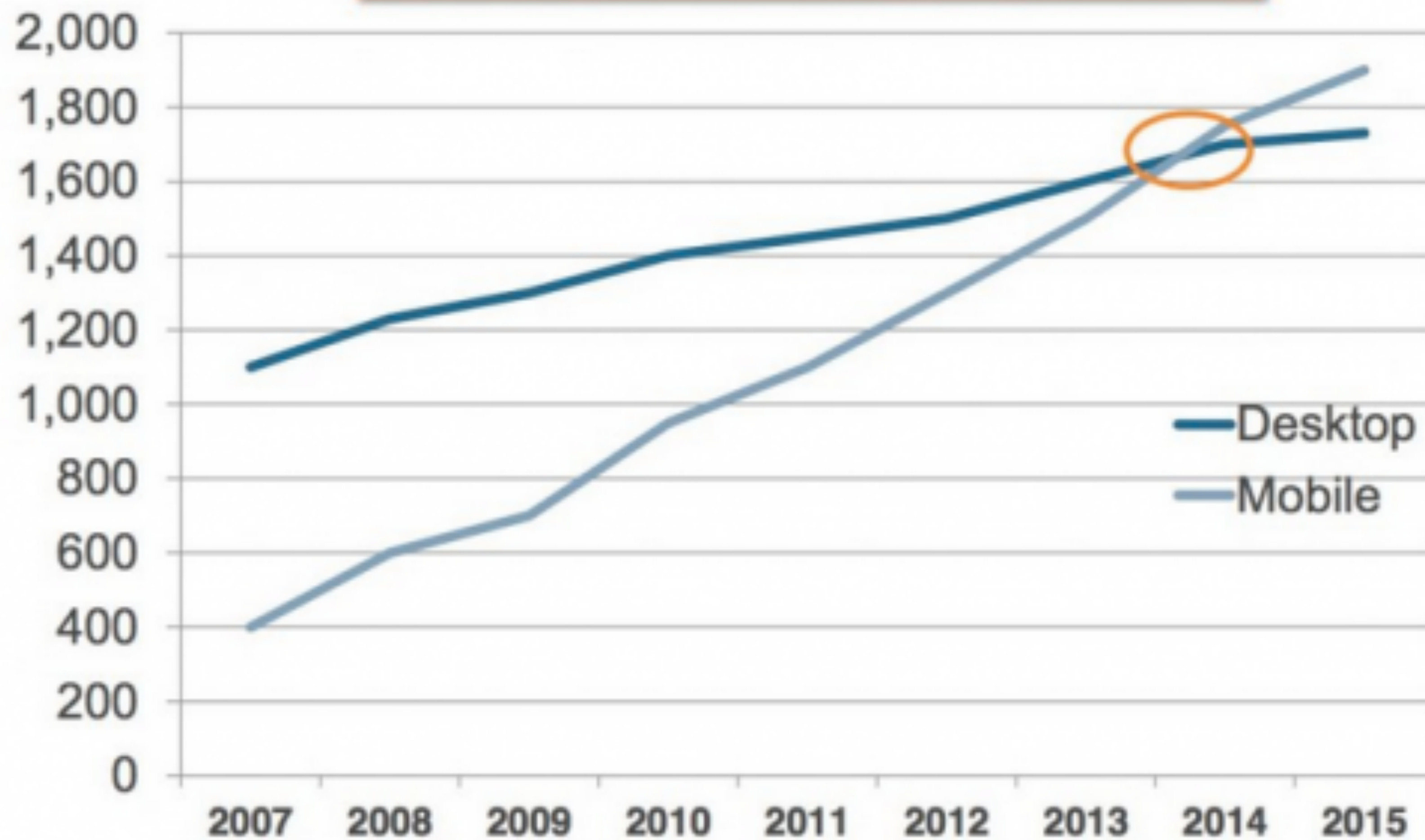


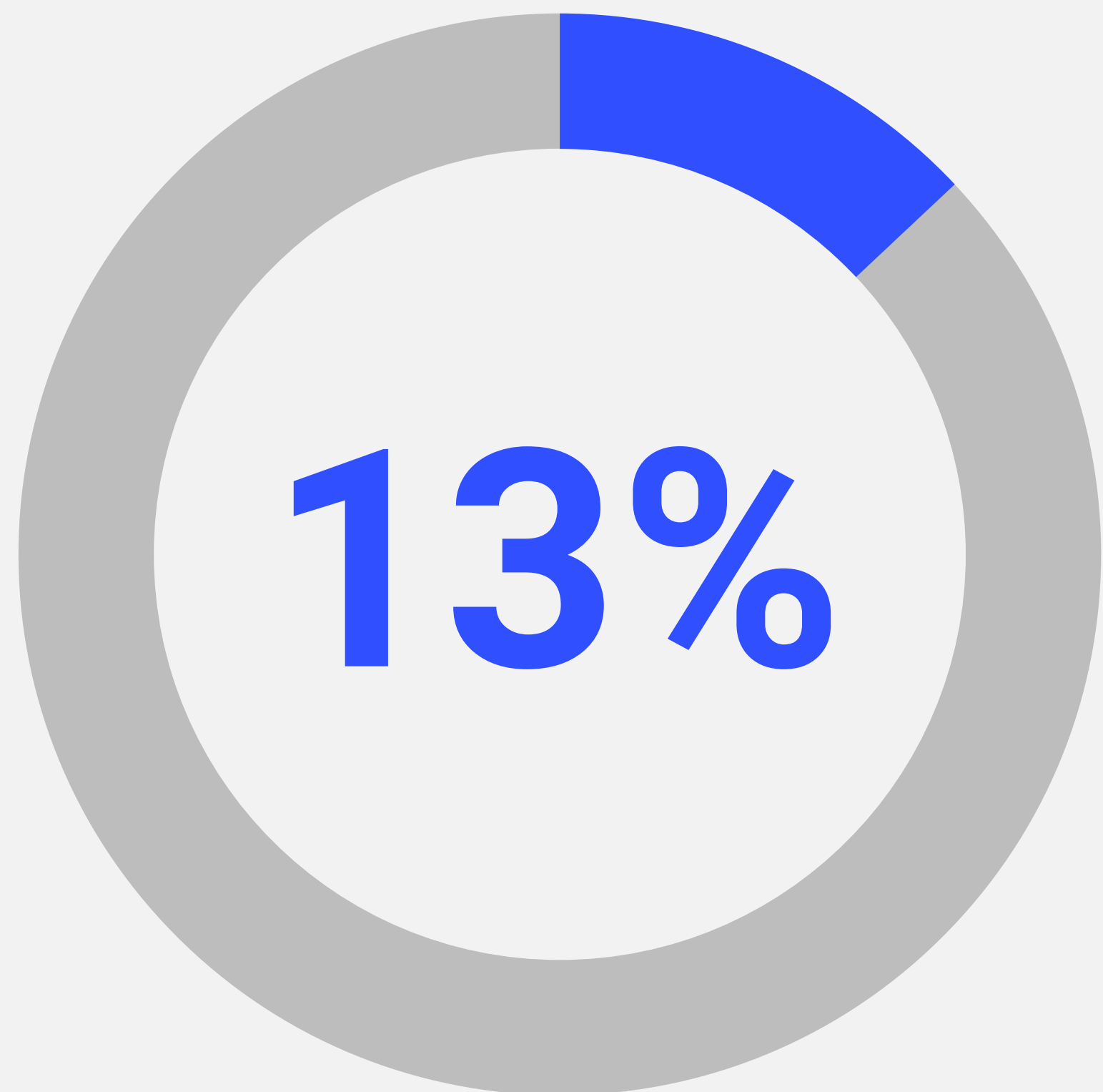


Search Google Maps



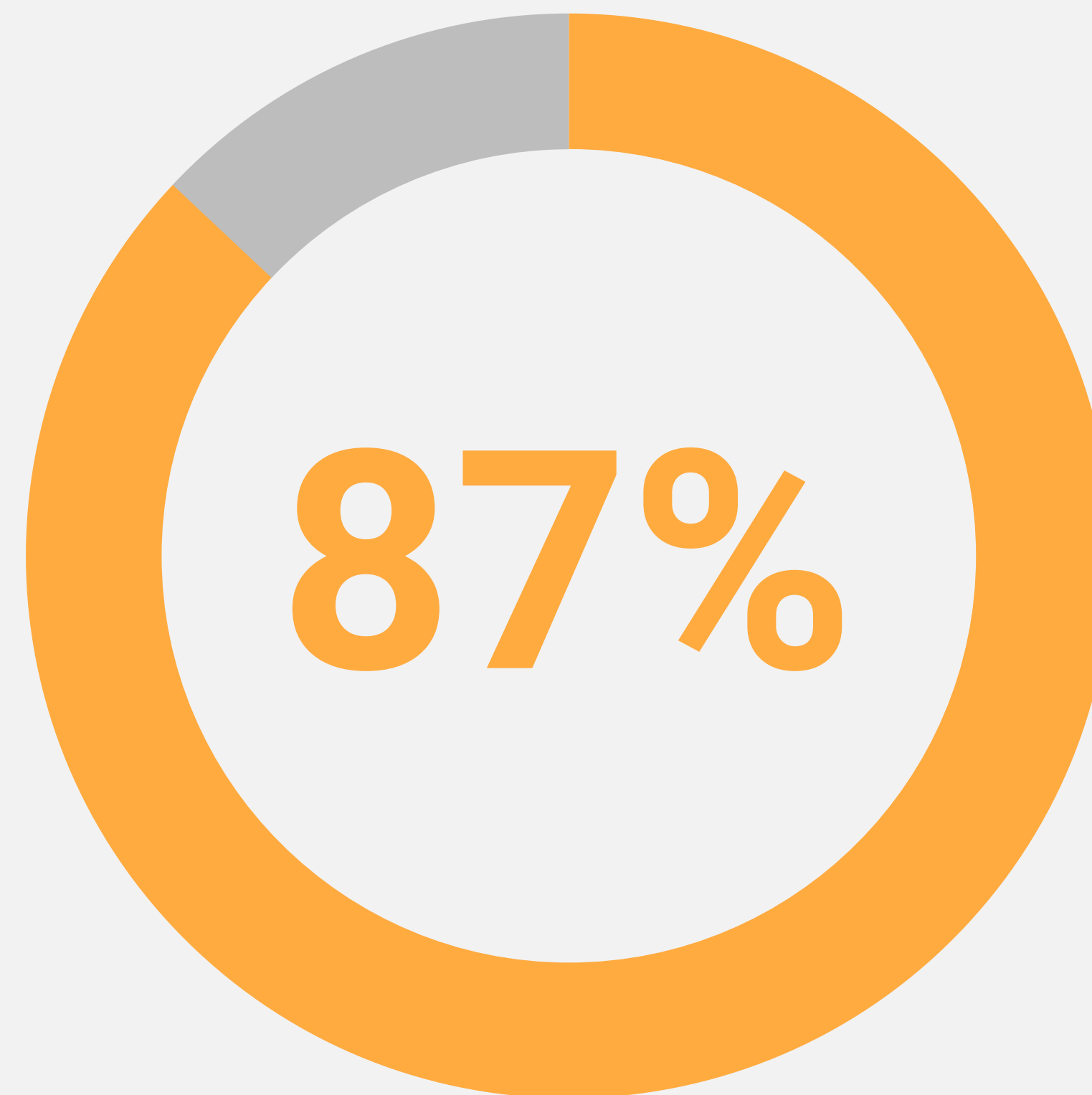
Number of Global Users (Millions)





Mobile web

vs.



Apps

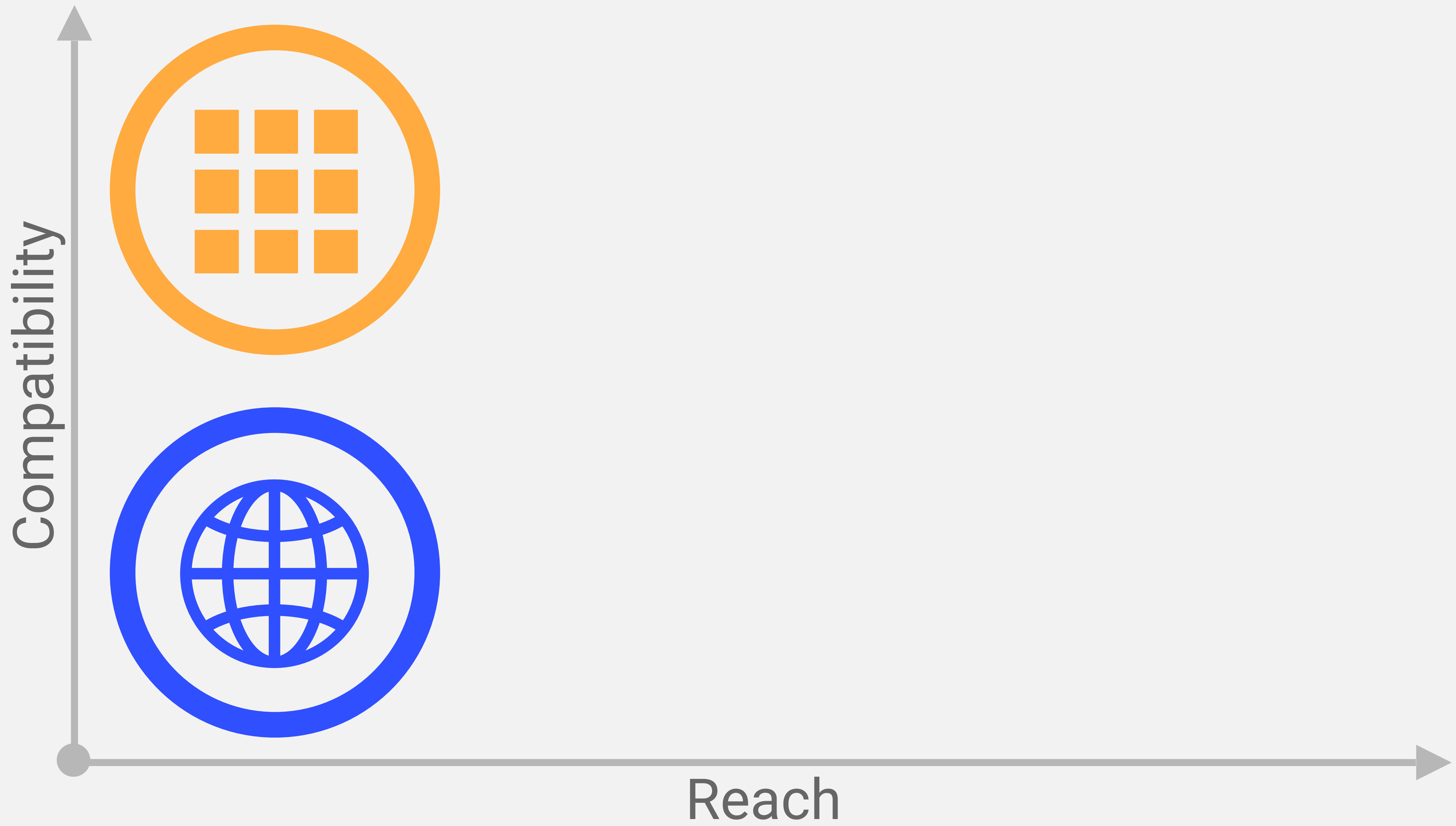
80%

OF TIME SPENT IS IN
USERS' TOP 3 APPS

Source: comScore Mobile Metrix, U.S., Age 18+, June 2015

Compatibility

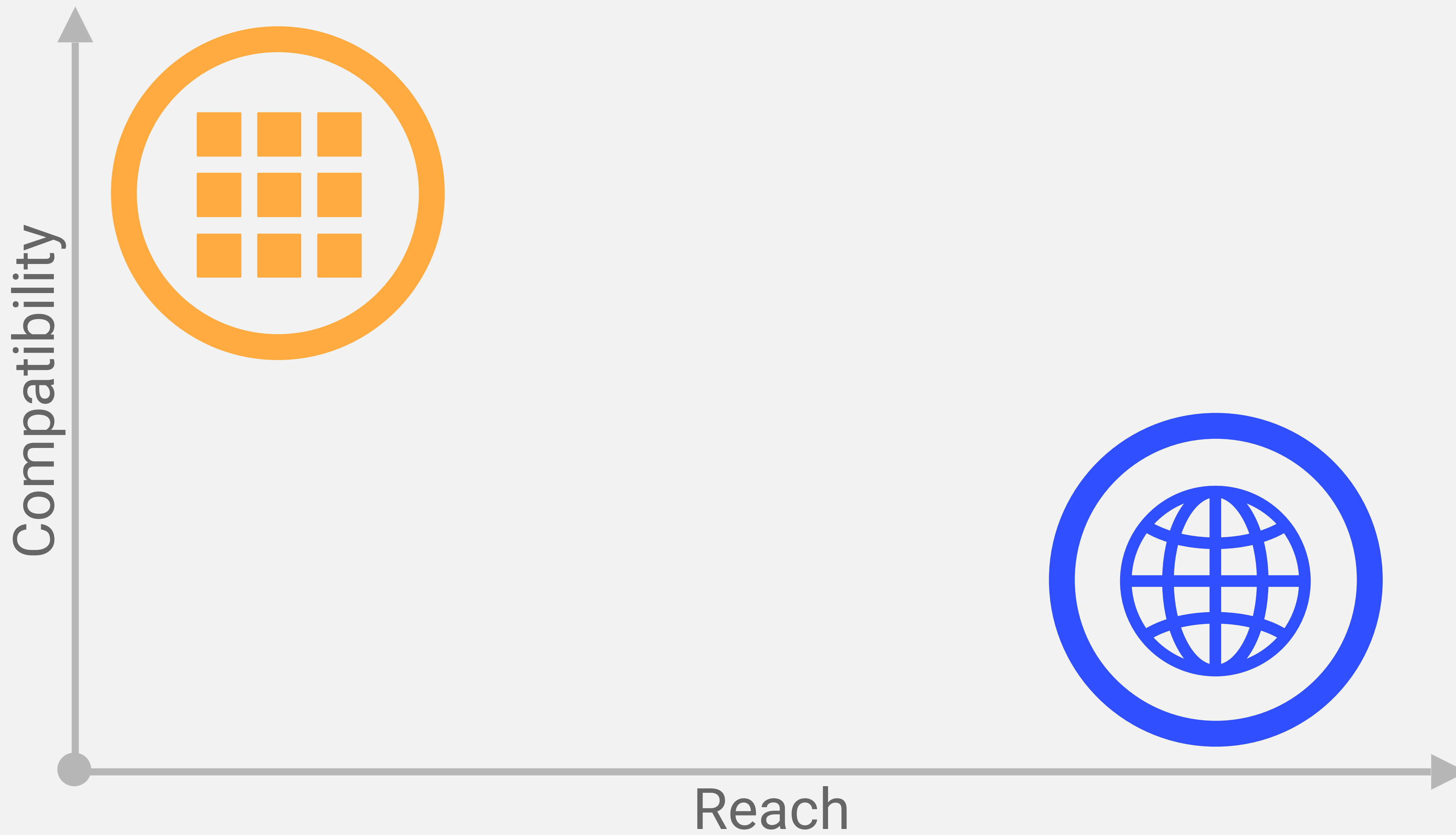


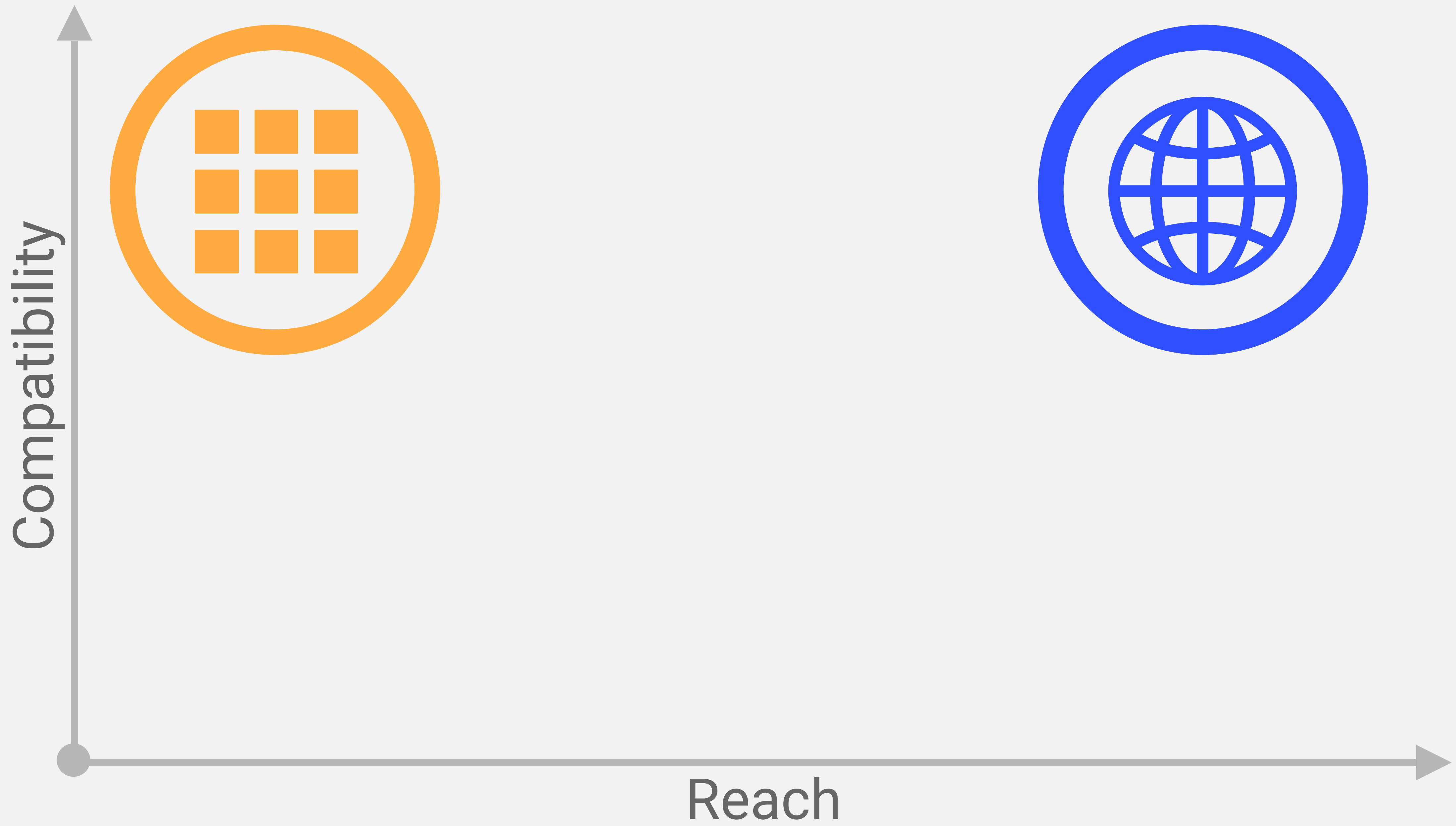


ZERO

NUMBER OF APPS
AVERAGE USER
INSTALLS PER MONTH

Source: comScore Mobile Metrix, U.S., Age 18+, June 2015





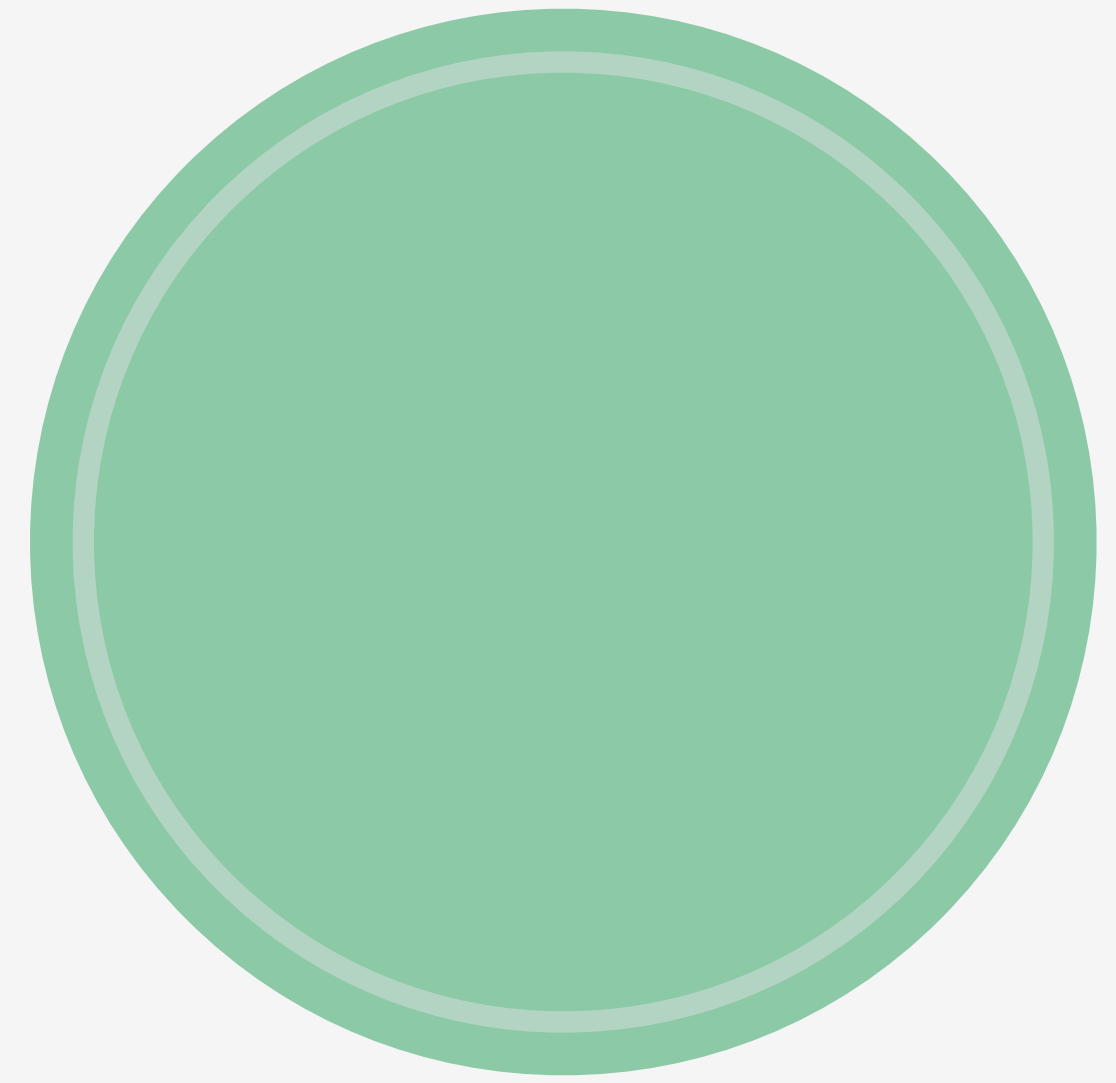
Progressive Web Apps

radically improving
web user experiences

User experiences need to be...



Reliable





83% of rachana.exe Completed



Opening:

This amazing software



Estimated time left 1 sec (175 KB of 276 KB copied)

Download to: Temporary Folder

Transfer rate: 69.8 KB/Sec



Close this dialog box when download completes

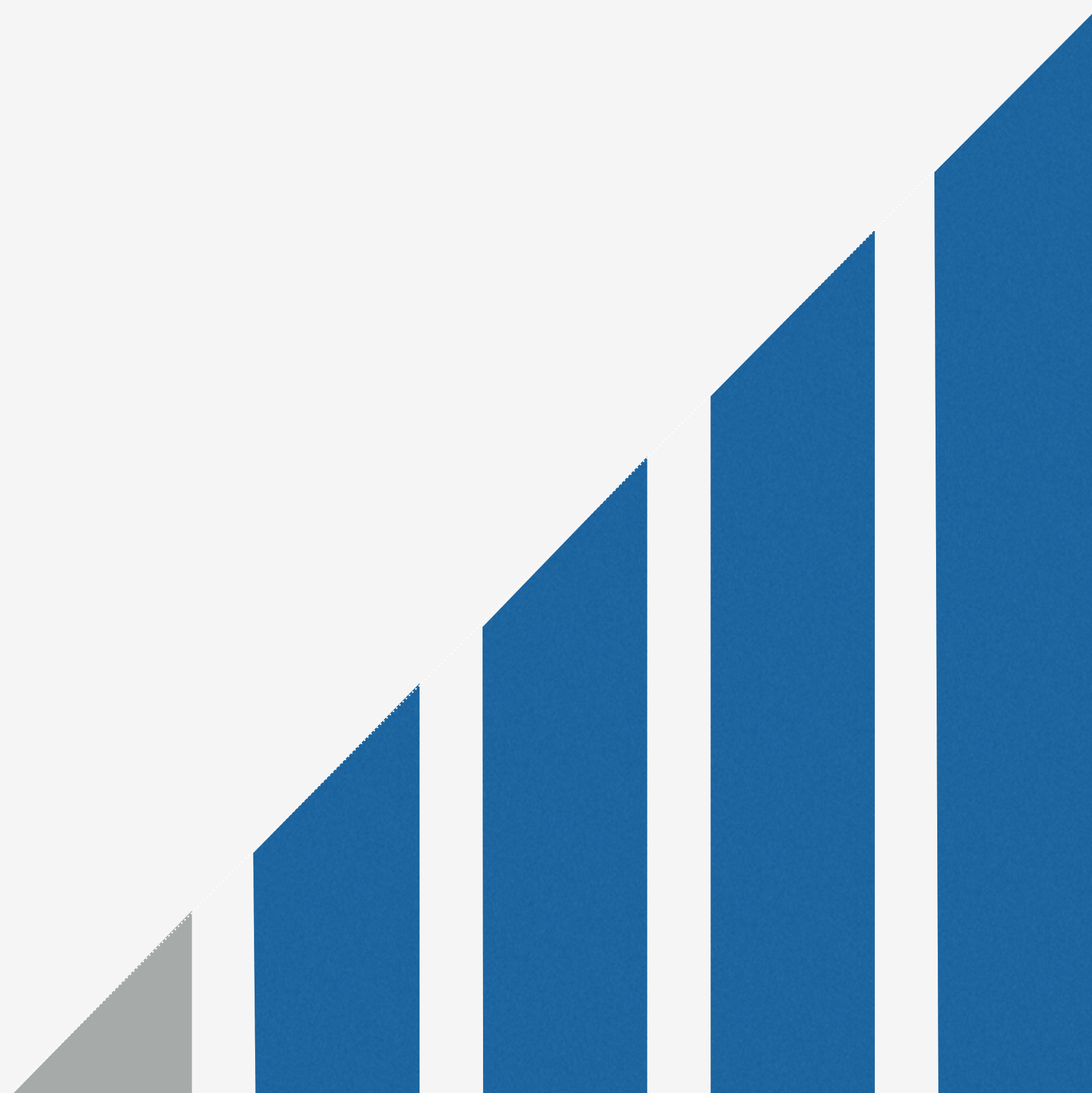
Open

Open Folder

Cancel



Lie-Fi



Reliability means never showing
the Downasaur



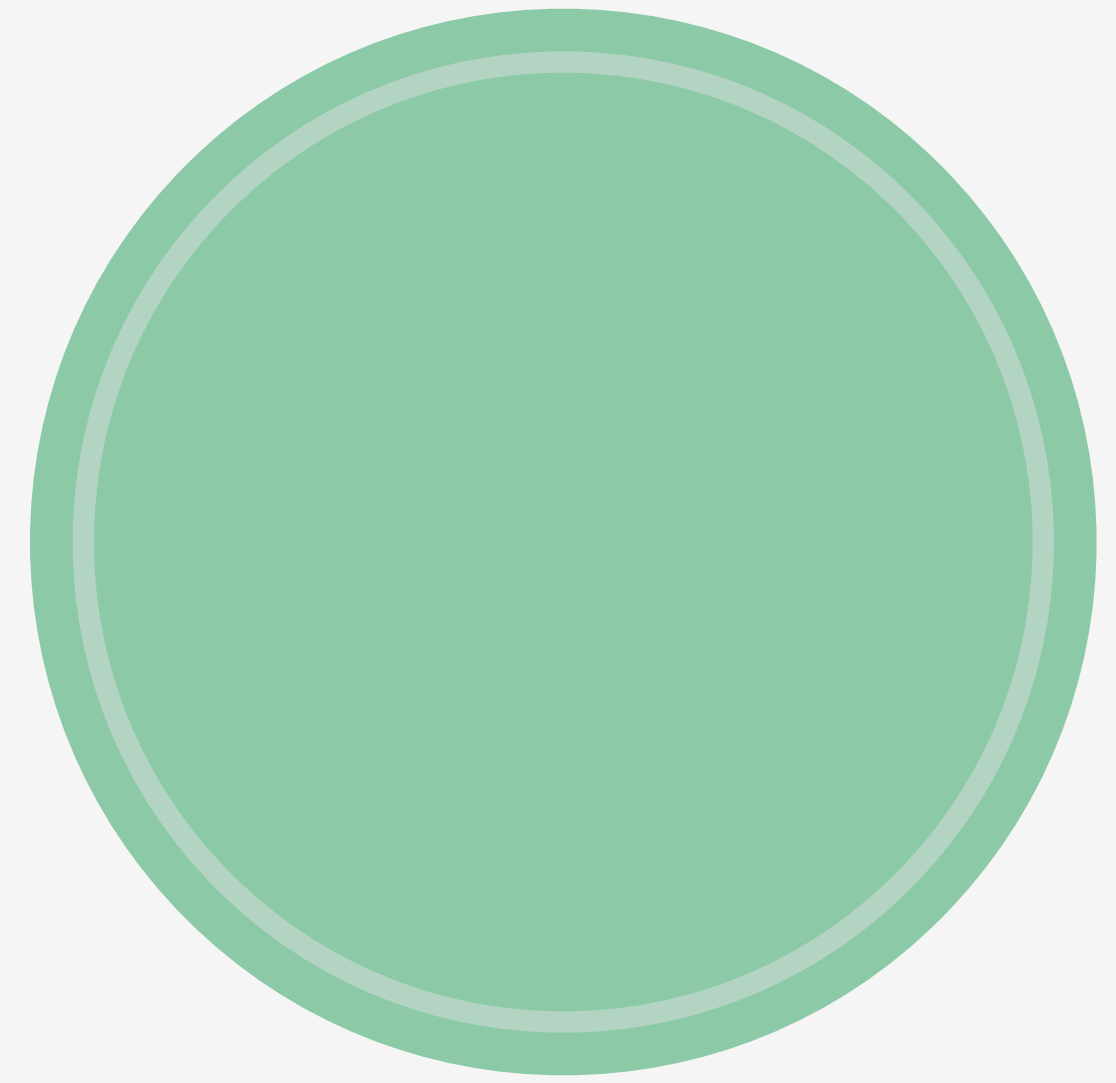
User experiences need to be...

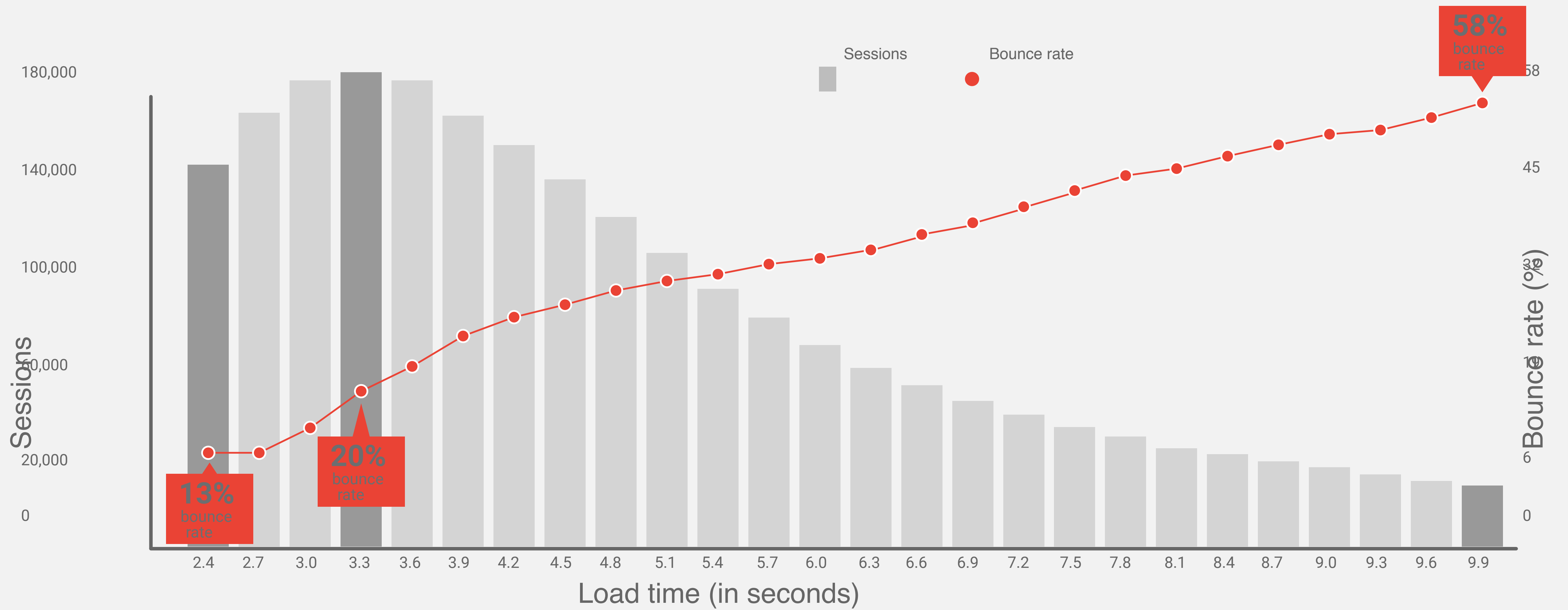


Reliable



Fast





A close-up photograph of a person's face and hand holding a smartphone. The person is looking down at the screen. Overlaid on the left side of the image is a circular graphic consisting of a blue center and a red outer ring. The blue center contains the text '53%'. The background is a blurred indoor setting with warm lighting.

53%

of users abandon sites that take
longer than **3 seconds** to load

User experiences need to be...



Reliable



Fast



Engaging

Engaging



Home Screen

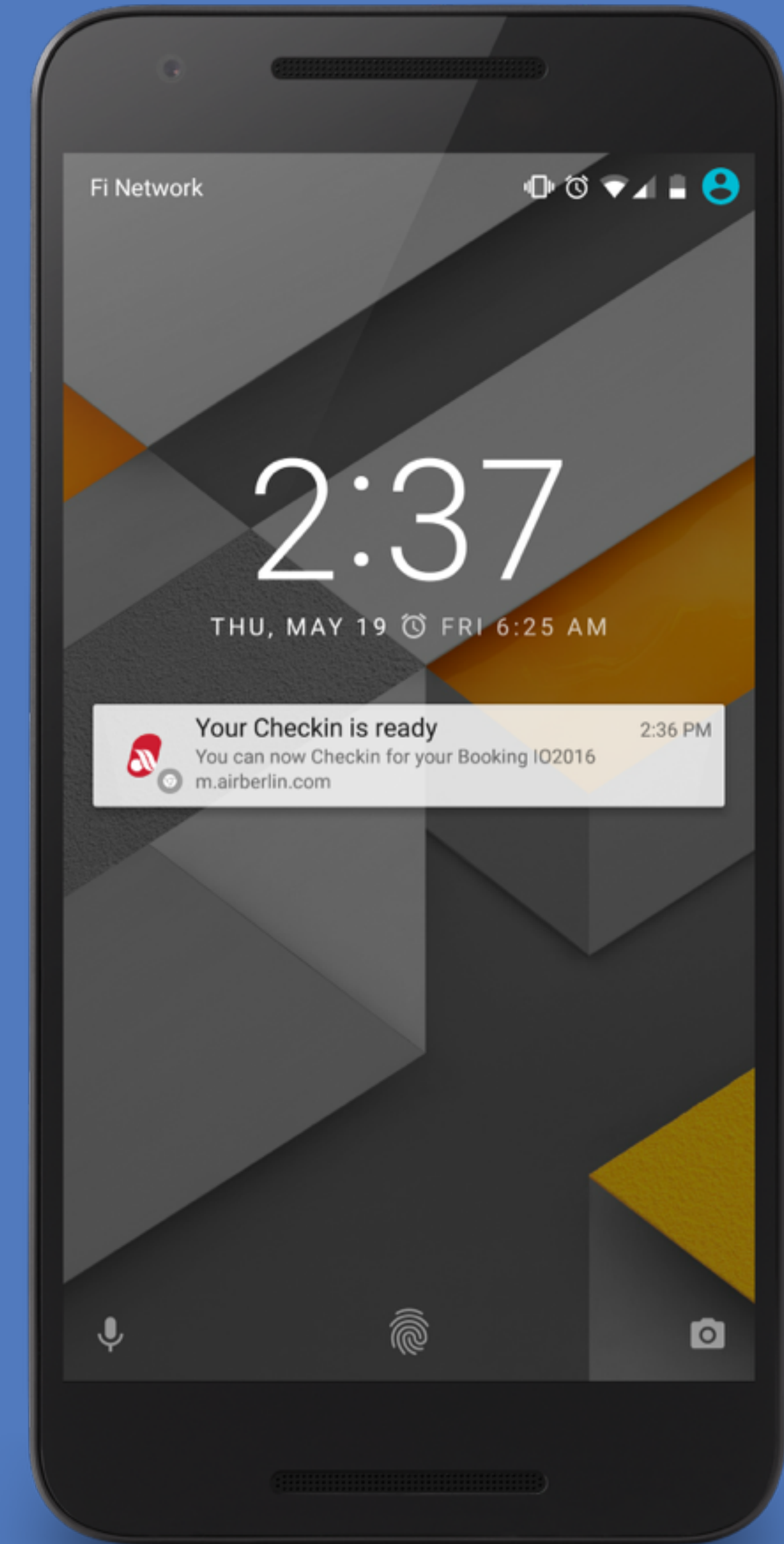
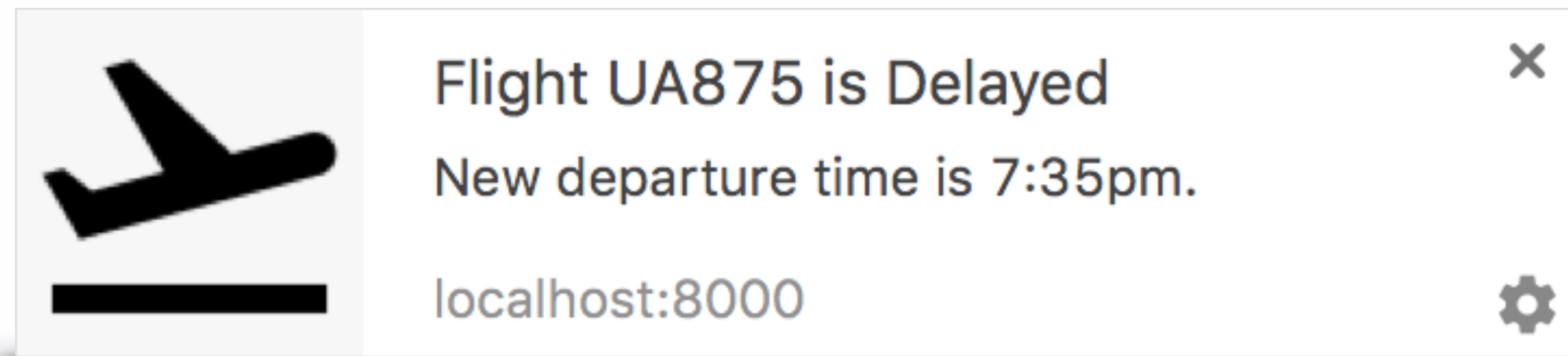


Immersive

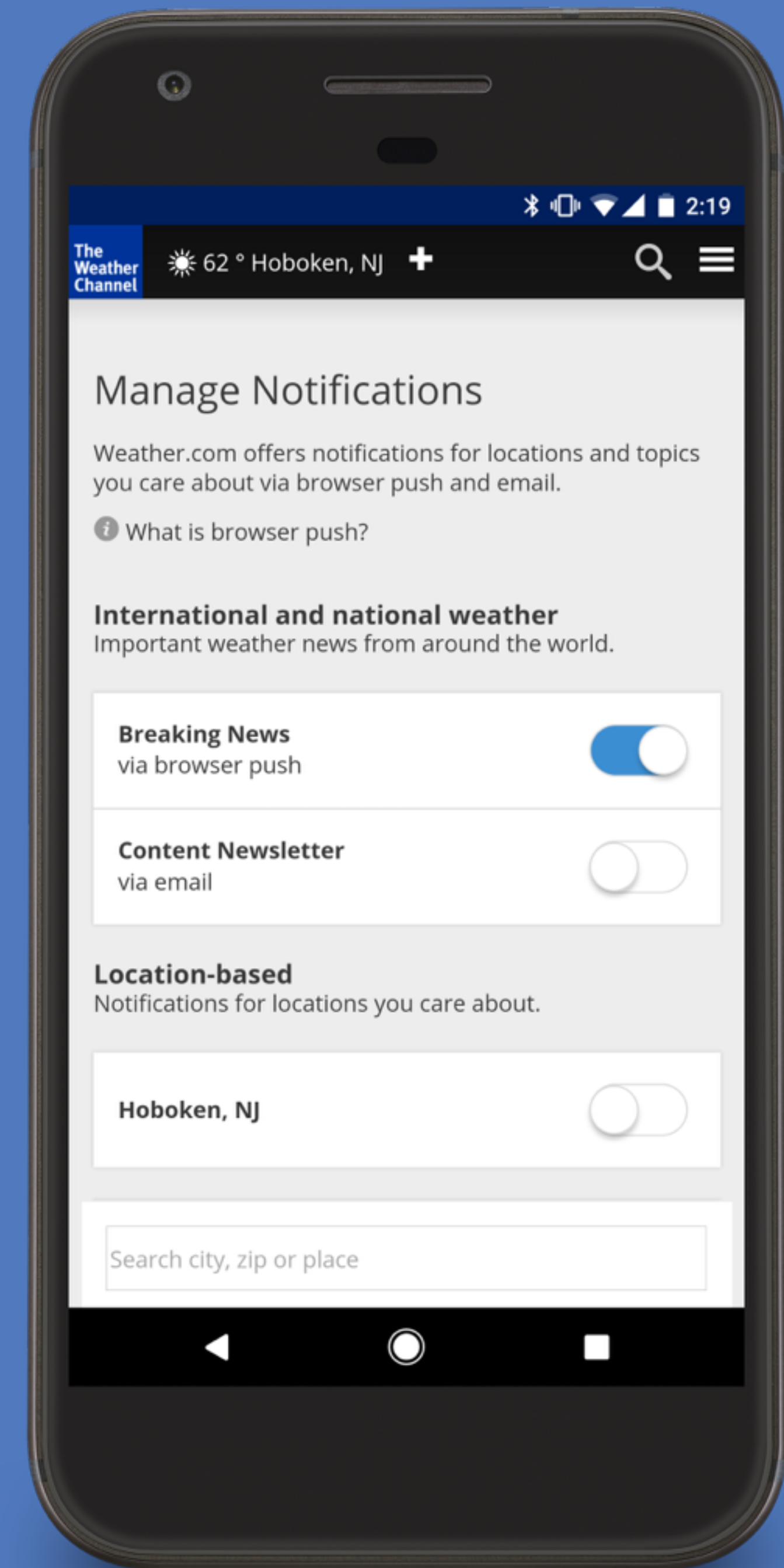
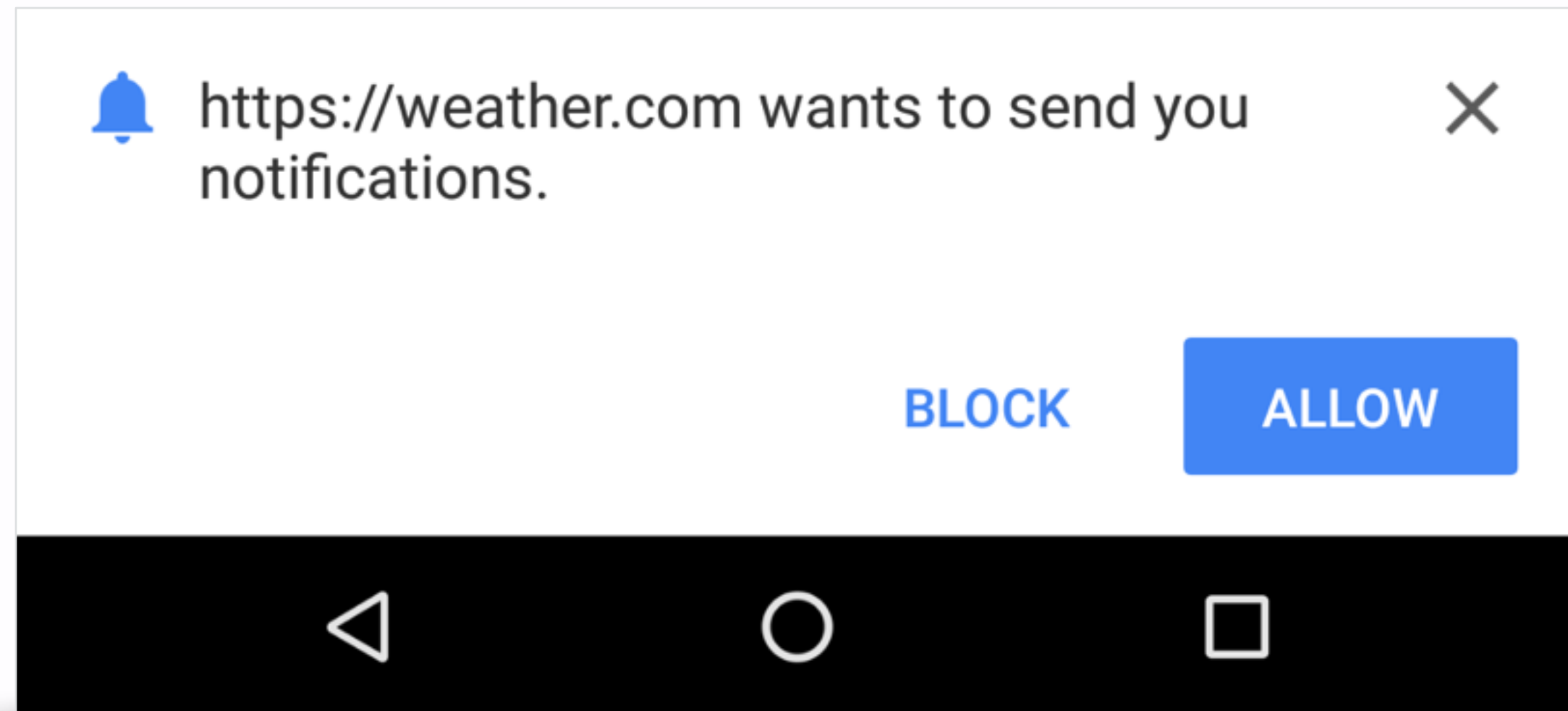


Notifications

Web Push Notifications



No surprises!



01



TRENDING

Westworld is probably a lot bigger than we realized

HBO's "Westworld" continues to tease viewers offscreen too with some

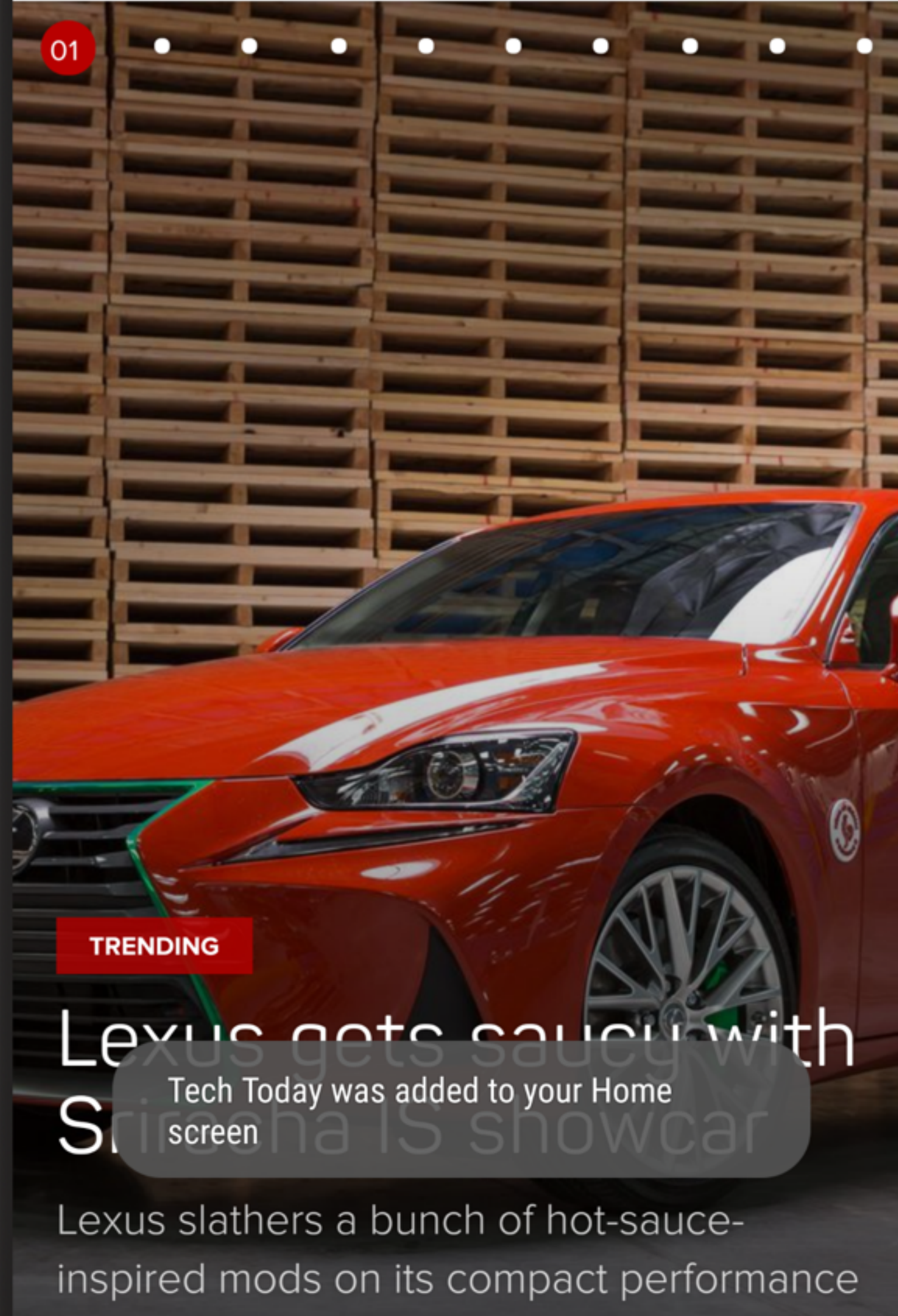


CNET Tech Today
cnet.com



ADD TO HOME SCREEN

01



TRENDING

Lexus gets saucy with S

Tech Today was added to your Home screen

Lexus slathers a bunch of hot-sauce-inspired mods on its compact performance



Tech Today



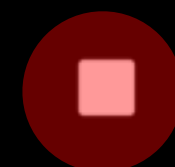


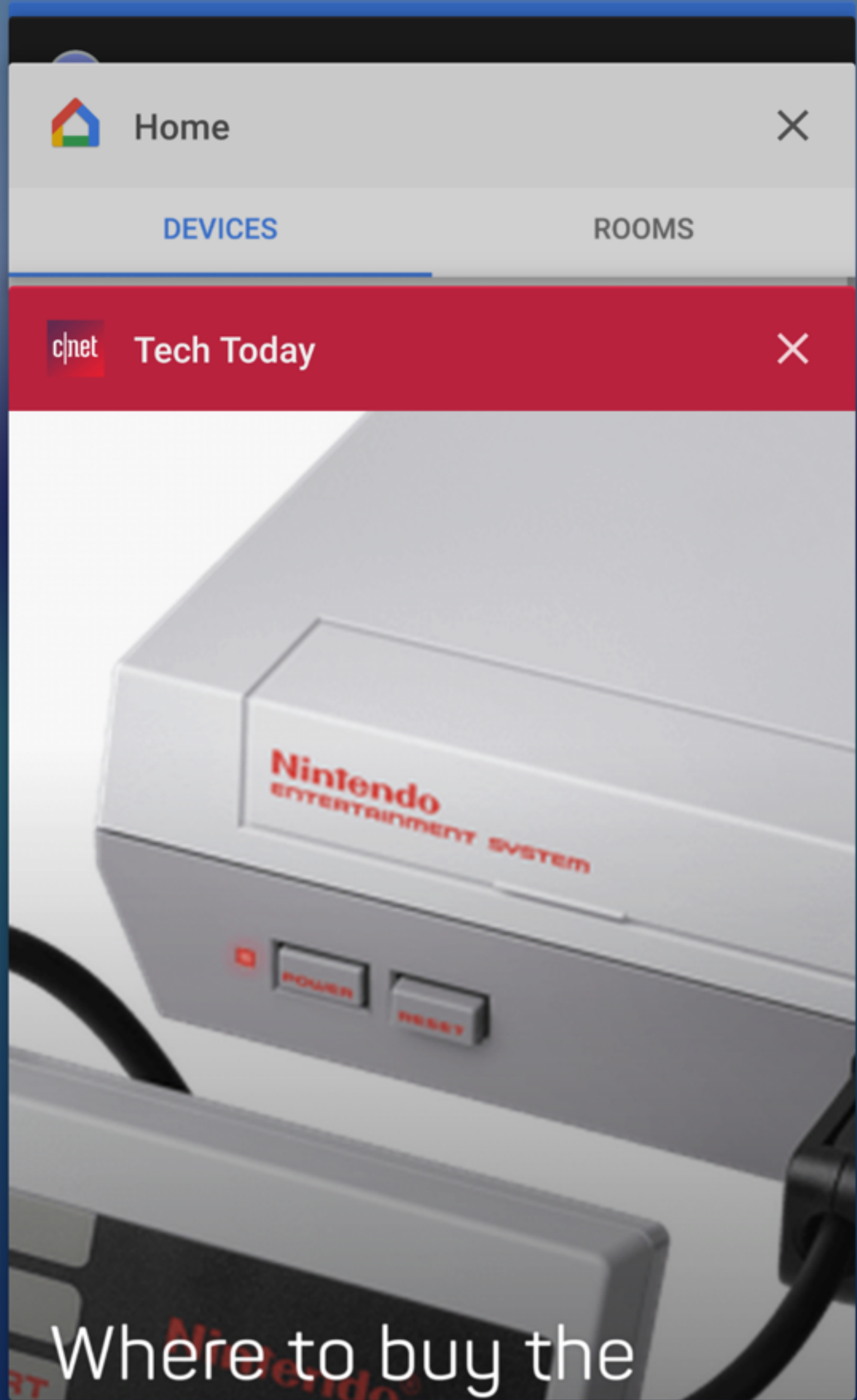
CNET Tech Today



Where to buy the Nintendo NES Classic Edition

On the lookout for the NES Classic Edition?





Progressive Web Apps are...



Reliable

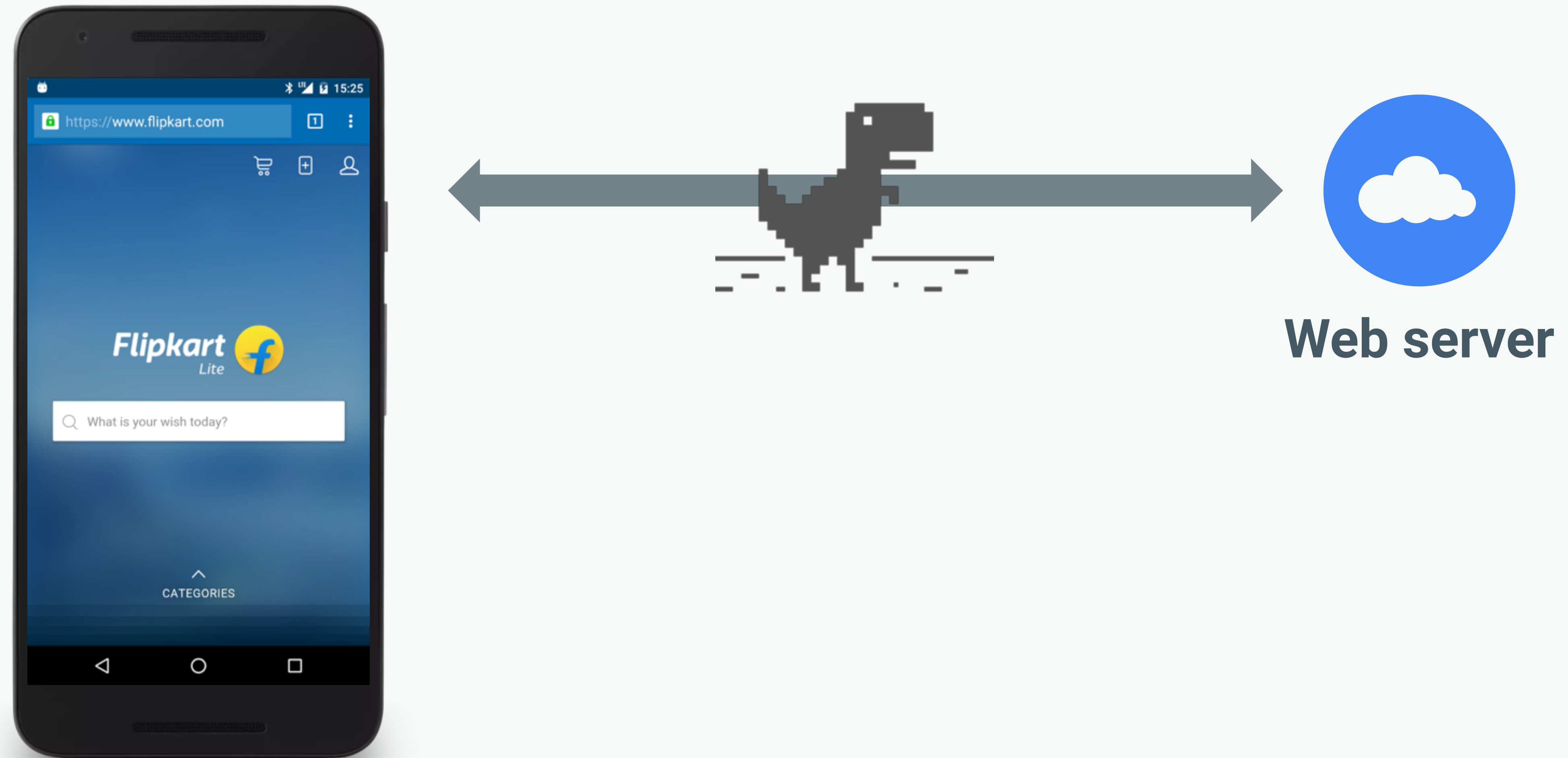


Fast



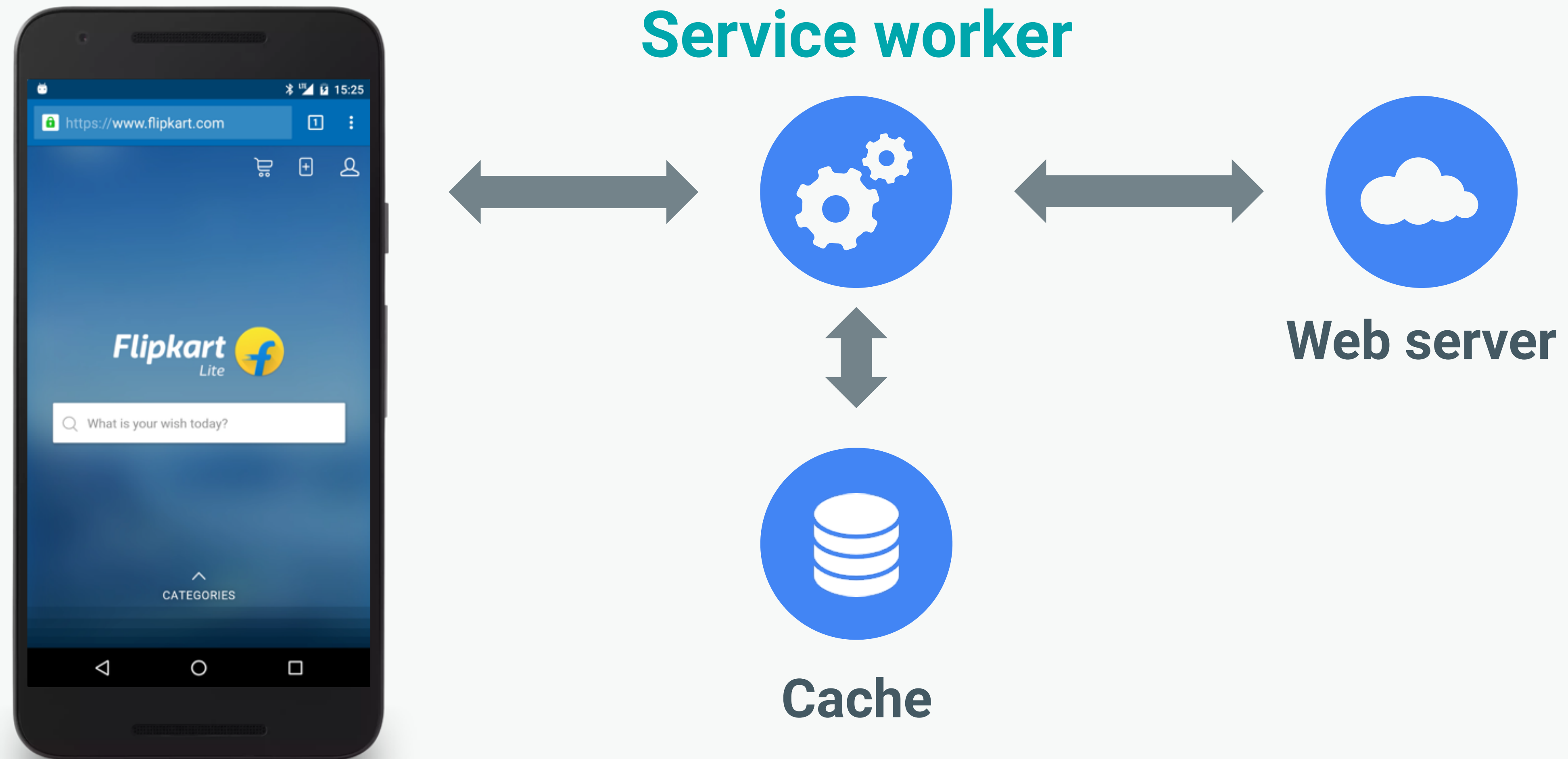
Engaging

Traditional Web Request

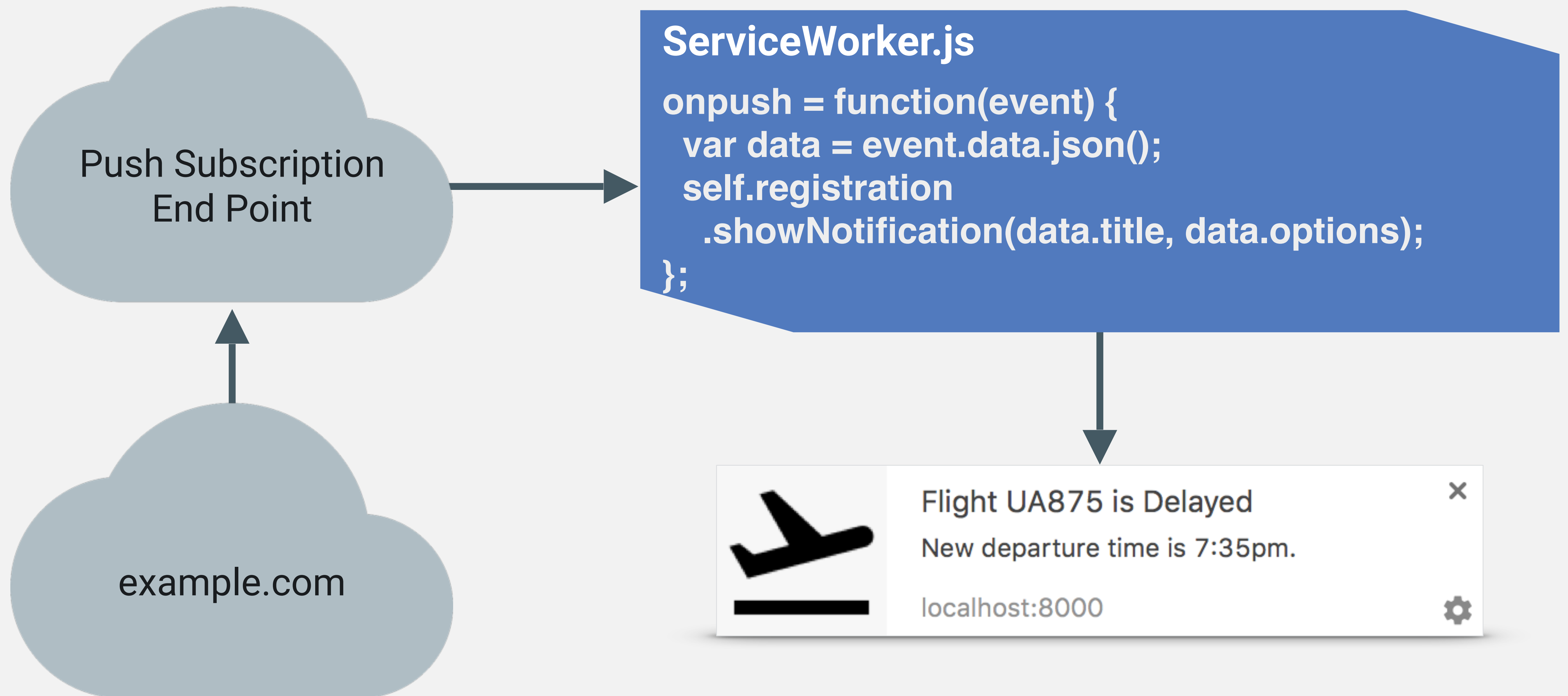


Service Workers

A client side proxy written in JavaScript

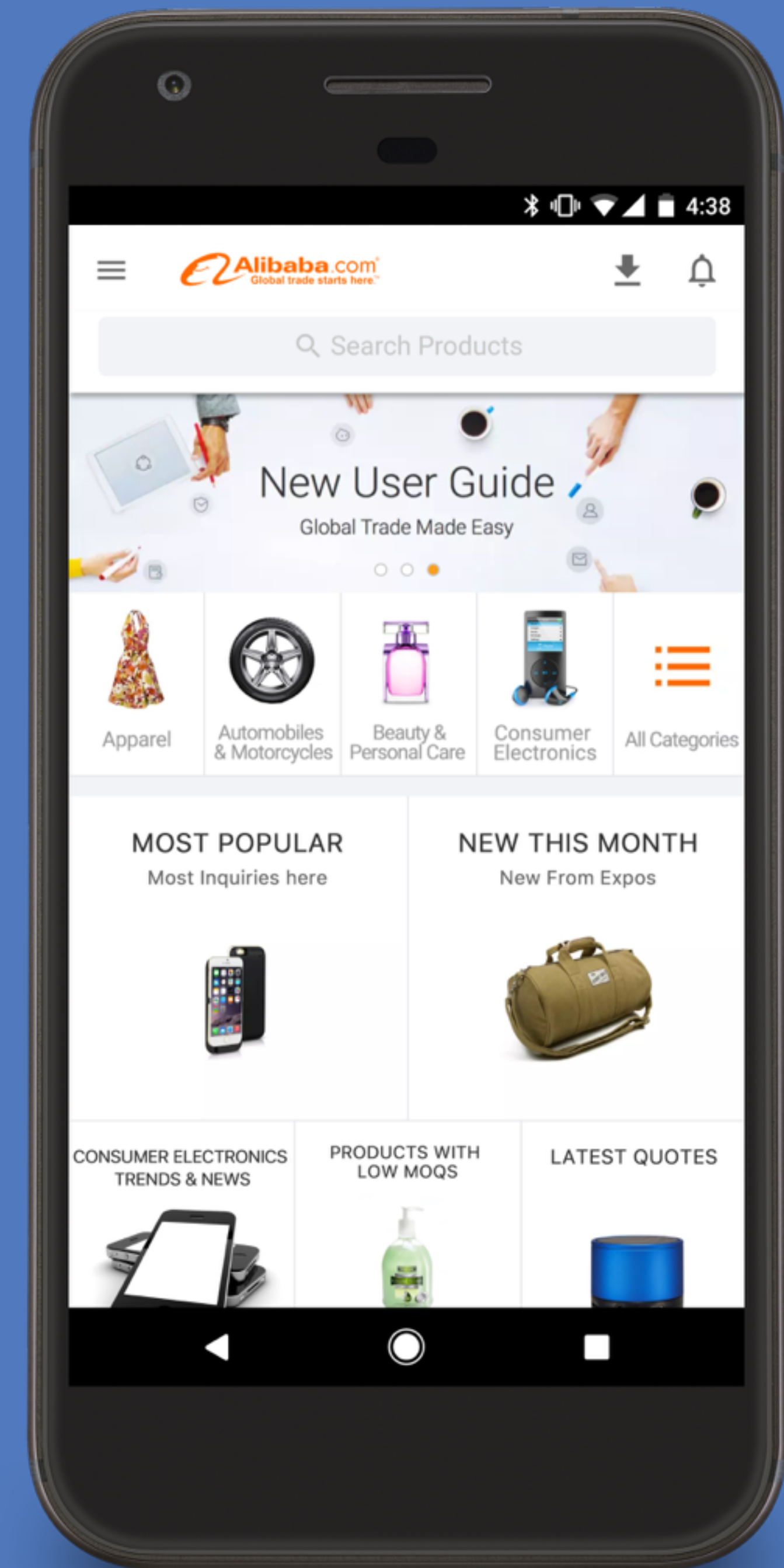


Push is built on Service Workers





76% increase
IN CONVERSIONS

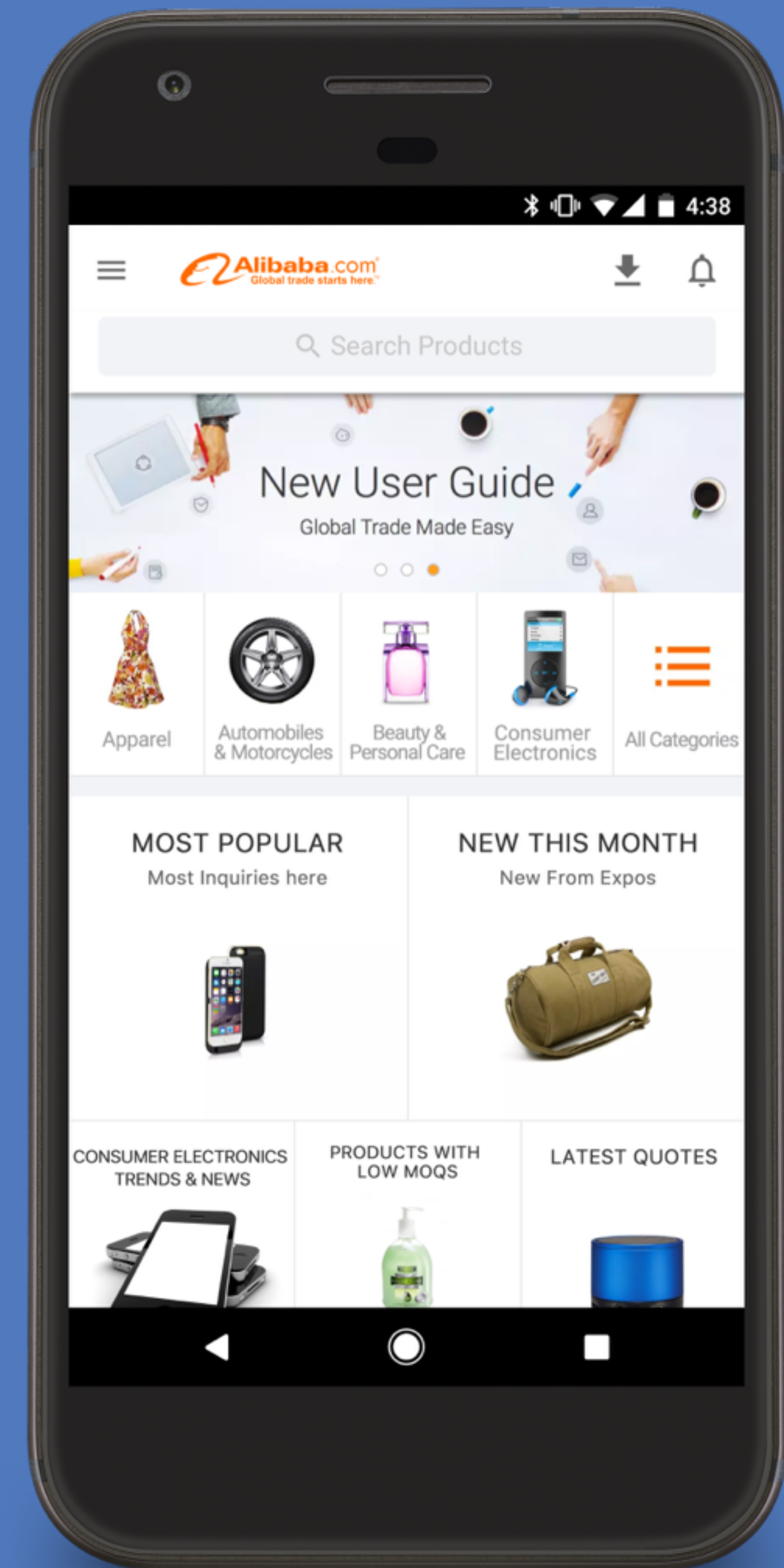




76% increase
IN CONVERSIONS

14% more monthly
ACTIVE USERS ON iOS

30% more monthly
ACTIVE USERS ON ANDROID



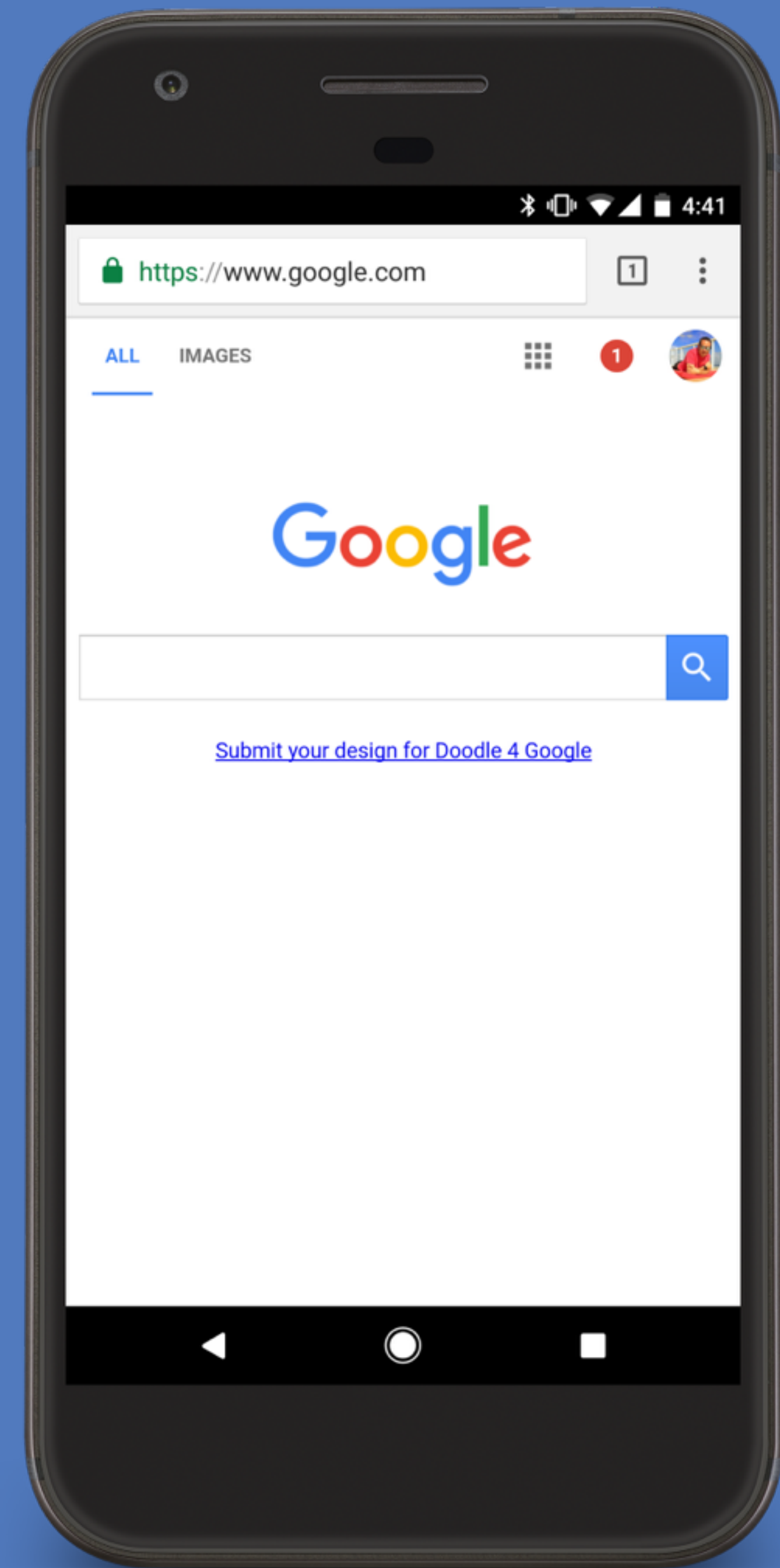
Progressive Web Apps
are progressive.

How do I get started?

Start Secure



HTTPS: Secure connection between site and users



Keeping Users Safe



Identity



Confidentiality



Integrity

Three Approaches to PWA-ifying

from the ground up

The diagram consists of three horizontal arrow-shaped bars pointing to the right. The top bar is solid blue and contains the text 'from the ground up'. The middle bar is composed of a light gray outer section and a solid blue inner section that contains the text 'a simple version'. The bottom bar is composed of a small solid blue square on the left and a light gray section on the right that contains the text 'a single feature'.

a simple version

a single feature

Three Approaches to PWA-ifying



from the ground up

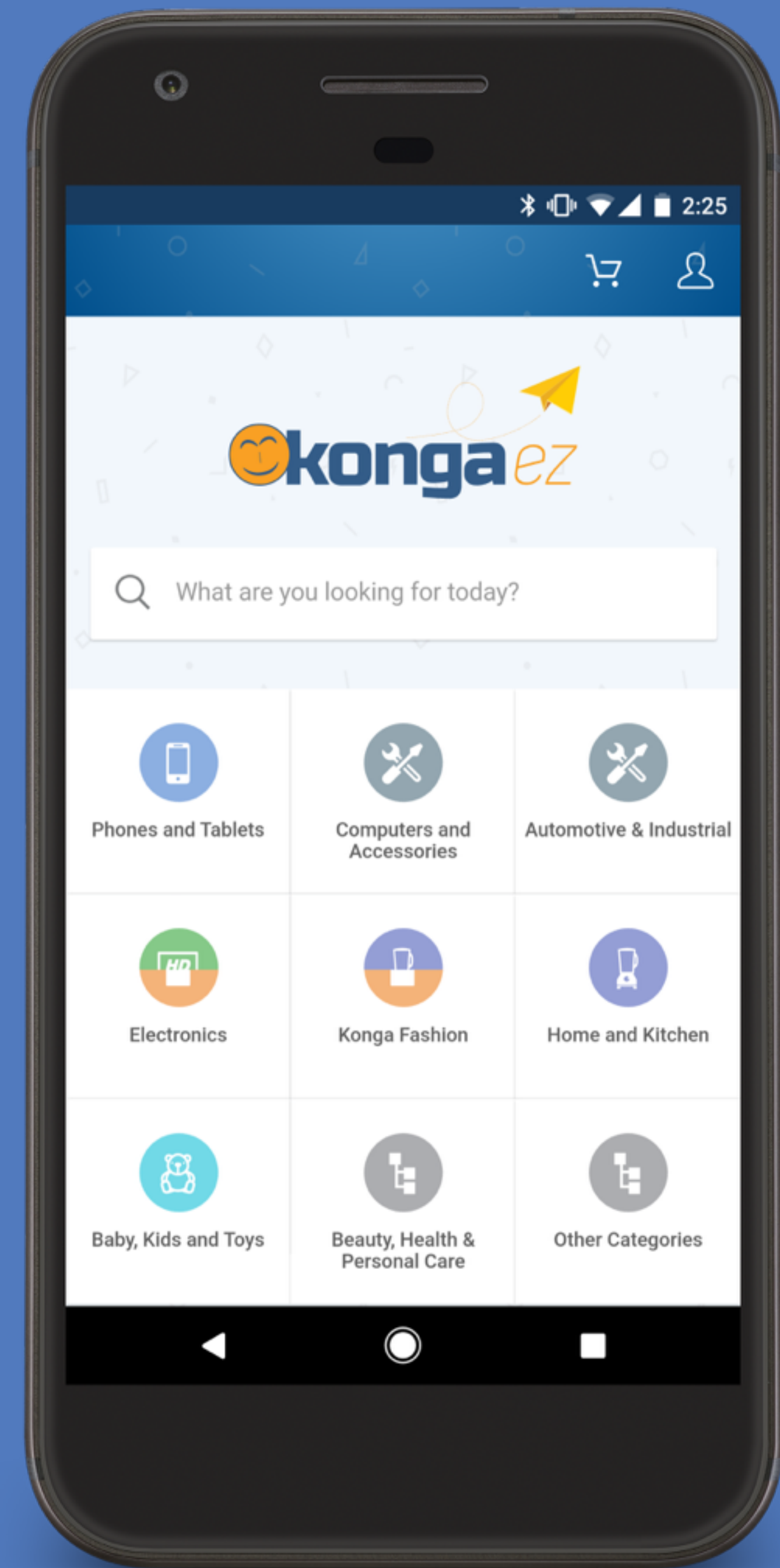
The diagram consists of three horizontal arrow-shaped bars pointing to the right. The top bar is solid blue and contains the text 'from the ground up' in white. The middle bar is composed of a light gray outer layer and a darker blue inner layer that contains the text 'a simple version' in white. The bottom bar is composed of a light gray outer layer and a small blue square on the left side, with the text 'a single feature' in gray positioned to the right of the square.

a simple version

a single feature



Both data points are compared to native app

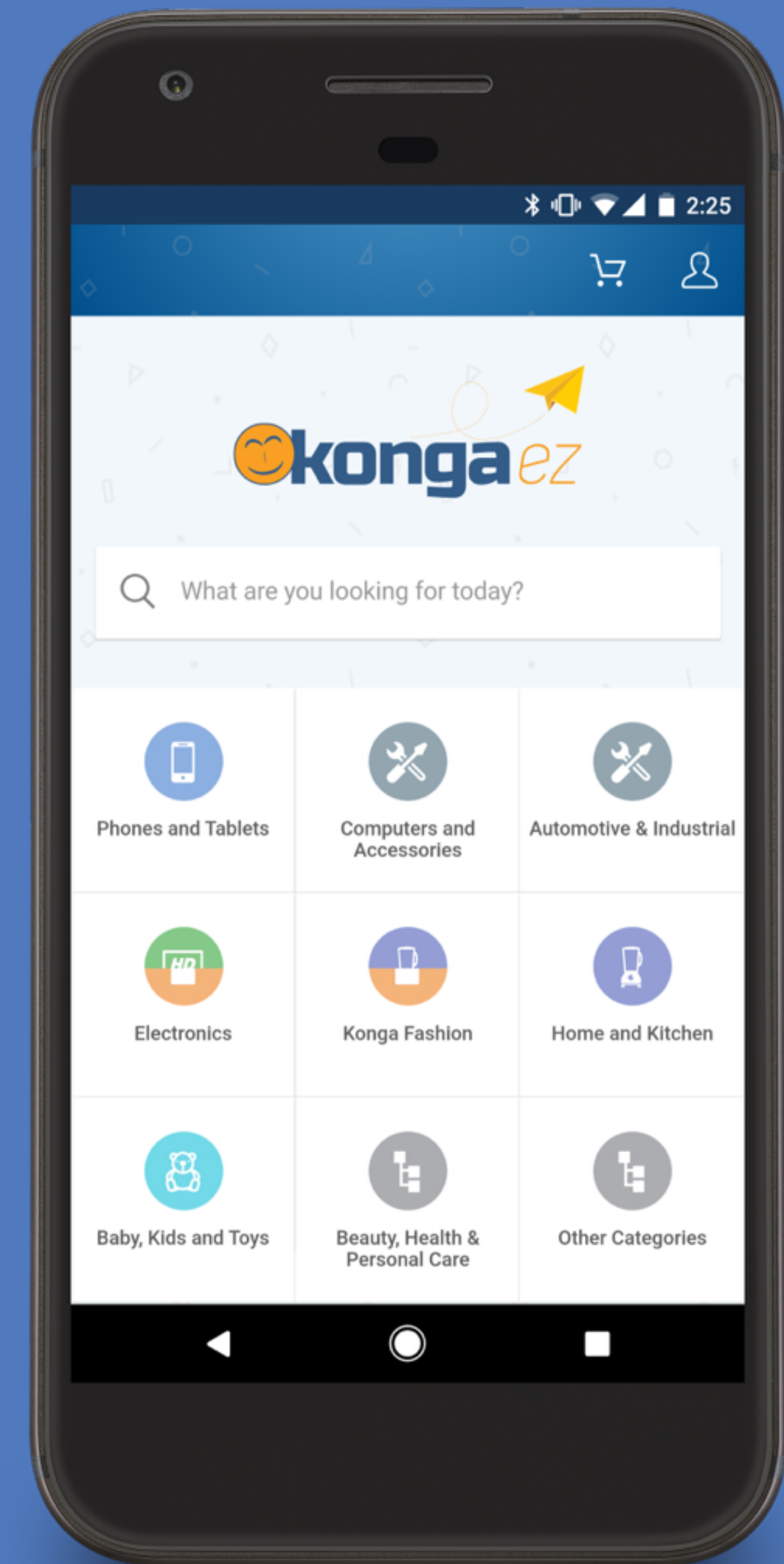




92% less data
FOR INITIAL LOAD

82% less data
TO COMPLETE FIRST
TRANSACTION

Both data points are compared to native app



Three Approaches to PWA-ifying

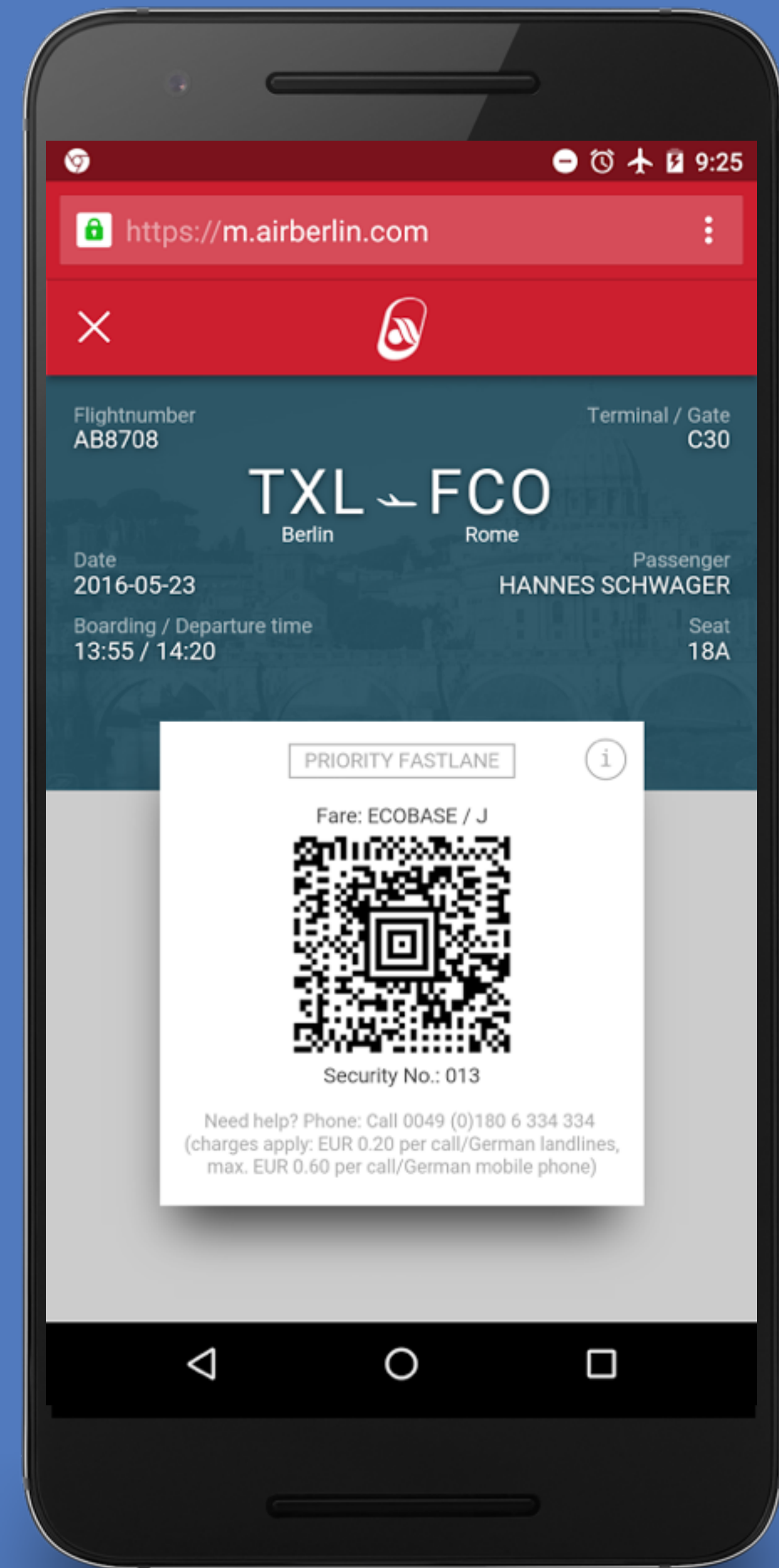


from the ground up

The diagram consists of three horizontal arrow-shaped bars pointing to the right. The top bar is solid blue and contains the text 'from the ground up' in a light gray font. The middle bar is composed of a light gray outer layer and a solid blue inner layer; the text 'a simple version' is written in white on the blue inner layer. The bottom bar is composed of a small solid blue rectangle on the left and a light gray rectangle on the right; the text 'a single feature' is written in a dark gray font on the light gray portion.

a simple version

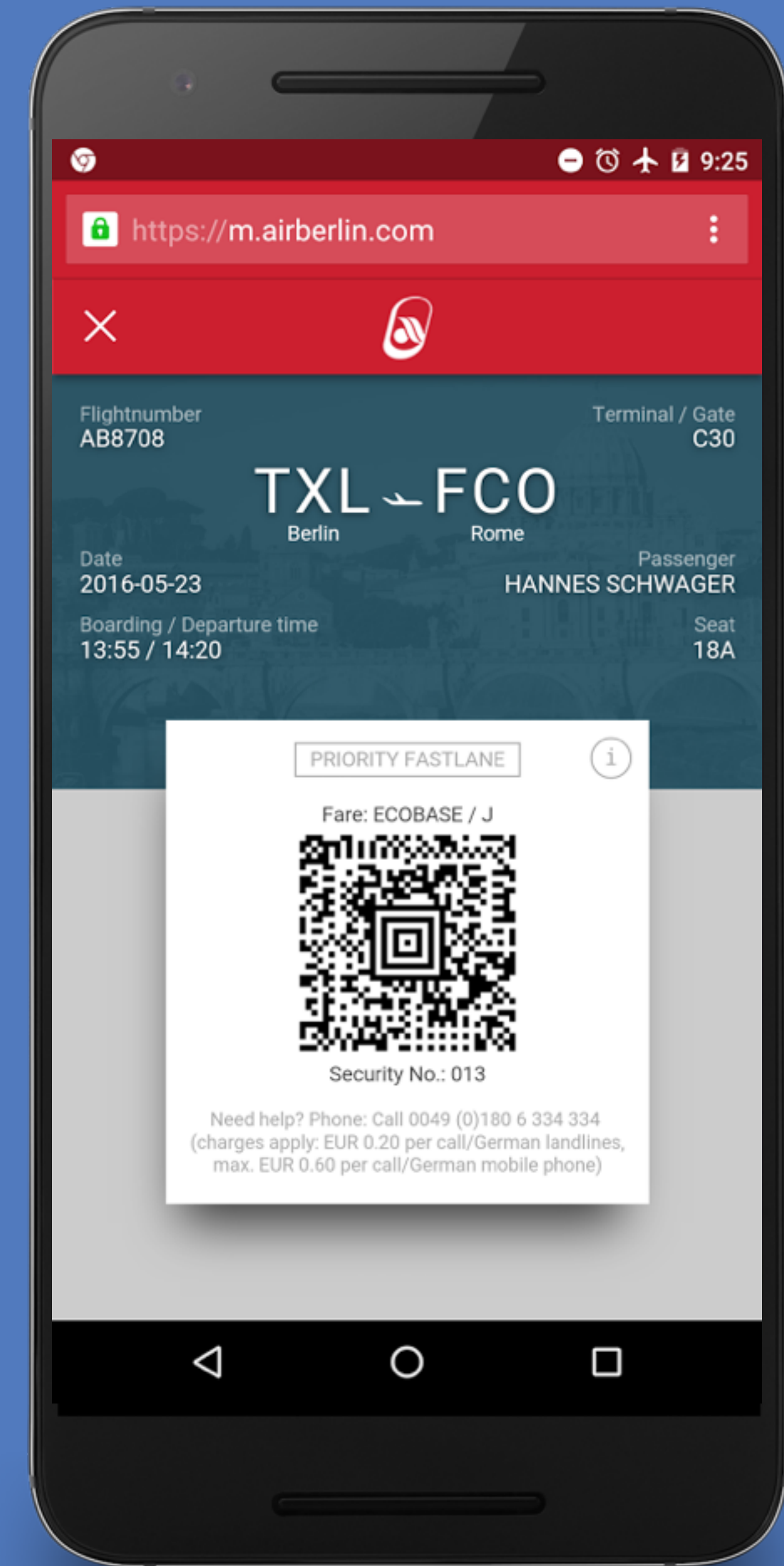
a single feature





<1s

INITIAL LOADING TIME AND
EVEN FASTER FOR
SUBSEQUENT LOADS



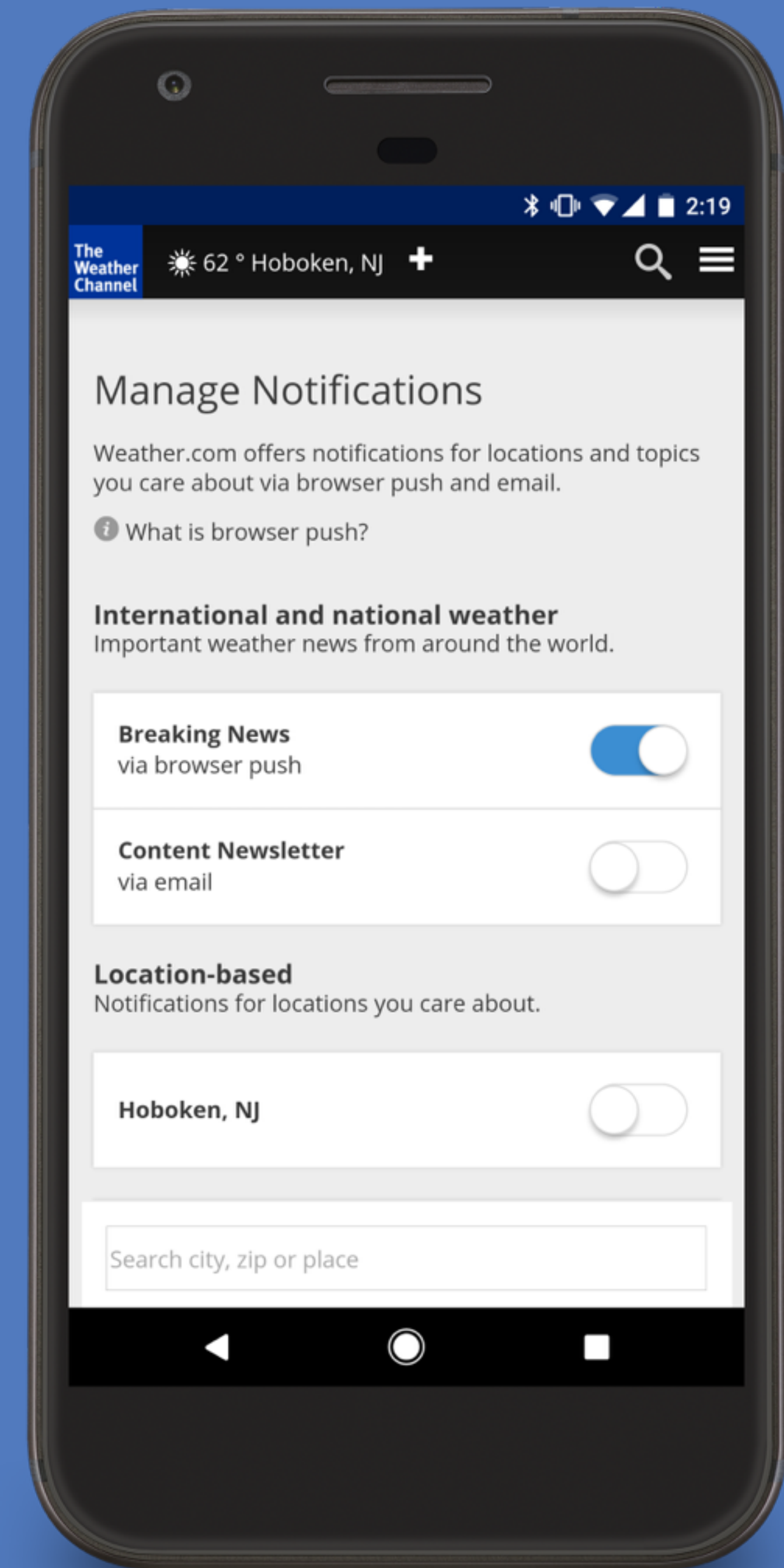
Three Approaches to PWA-ifying



from the ground up

a simple version

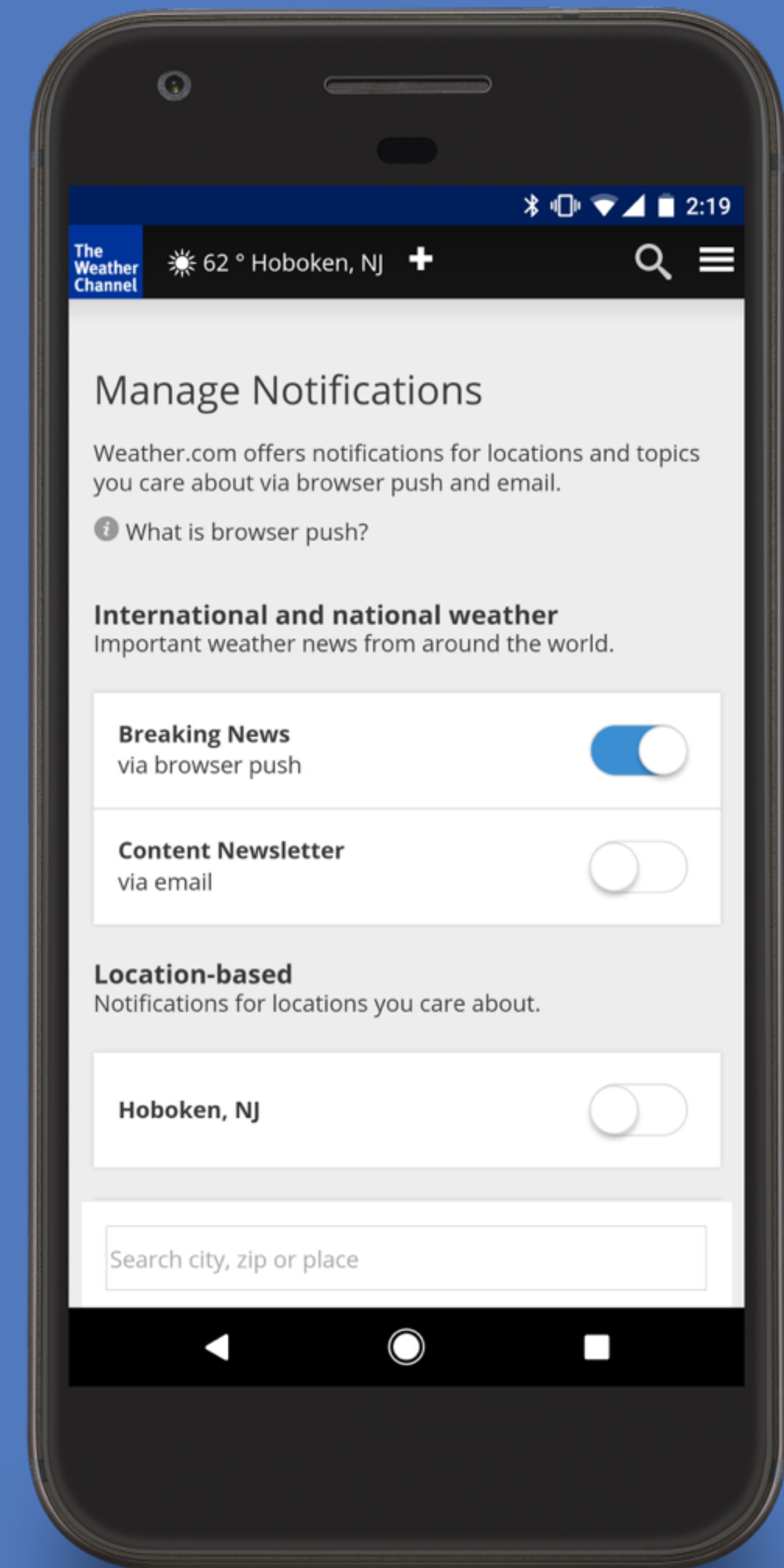
a single feature





60+ languages

ROLLED OUT GLOBALLY WITH WEB PUSH NOTIFICATIONS



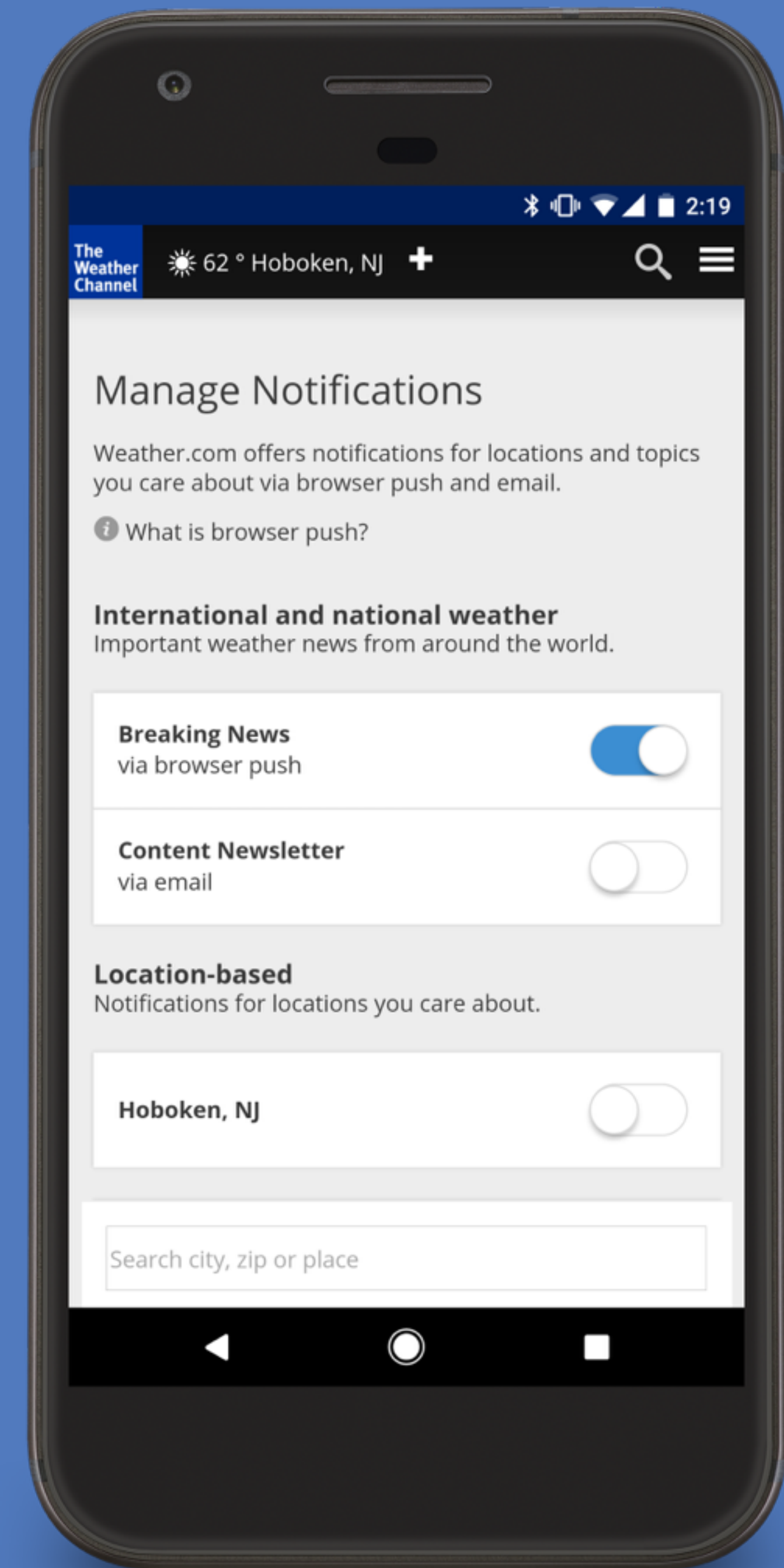


60+ languages

ROLLED OUT GLOBALLY WITH
WEB PUSH NOTIFICATIONS

1,000,000+

OPT-IN'S IN THE FIRST THREE
MONTHS



Which Approach Will You Take?



from the ground up



a simple version



a single feature





meow

Go build!

Thank You!

PROGRESSIVE WEB APP

ROADSHOW 2016 