

How to survive 20 years developing Apps

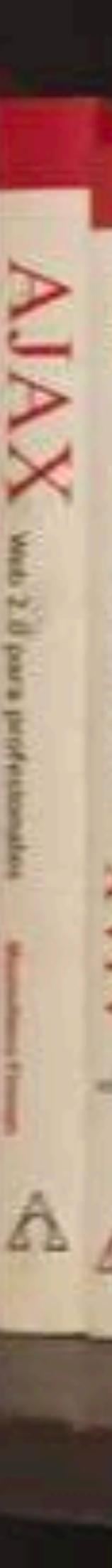
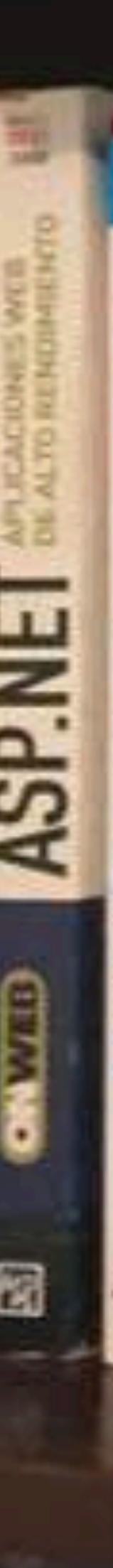
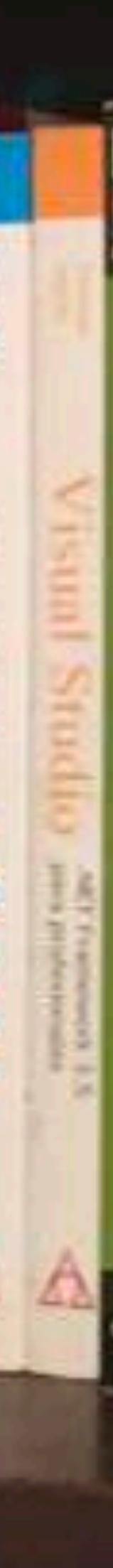
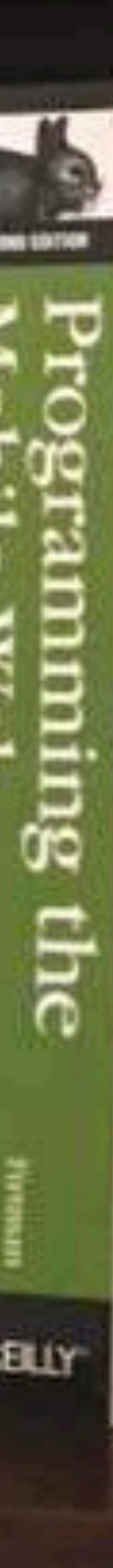
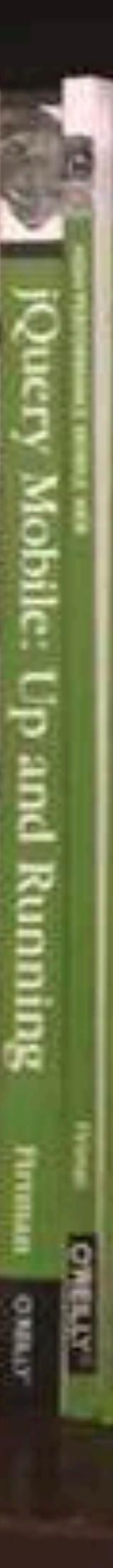
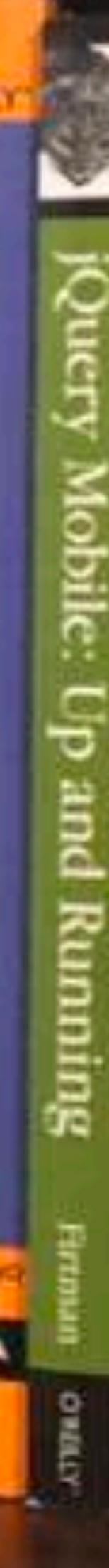
Maximiliano Firtman
@firt



References

DEVELOPER POUR LE WEB MOBILE

PEARSON



24 years ago

<<<

Yahoo!

[Yahoo!] [

Yahoo! Deutschland Weekly Picks

Search Options

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(NORMAL LINK) Use right arrow or <return> to activate.

Arrow keys: Up and Down to move. Right to follow a link; Left to go back.

H)elp O)ptions P)rint G)o M)ain screen Q)uit /=search [delete]=history list

Very different



File Edit View Go Bookmarks Options Directory

Help



Welcome

What's New!

What's Cool!

Questions

Net Search

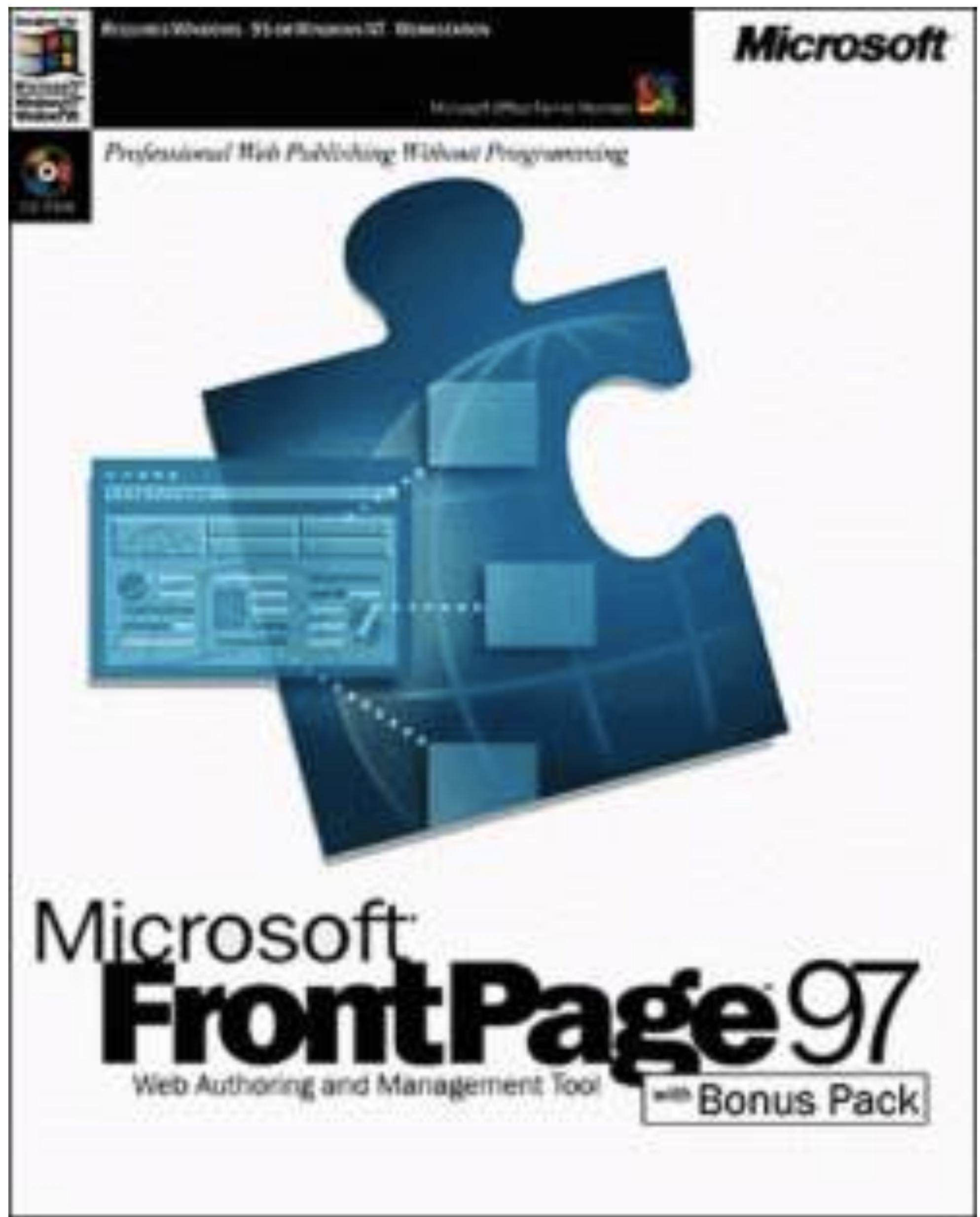
Net Directory



Welcome to Netscape

You have just embarked on a journey across the Internet, and Netscape is your vehicle. This welcome page will help you get started on your use of Netscape and your exploration of the Internet.







Our communities are home to the most popular collection of **FREE HOME PAGES** & **E-MAIL** on the web. Please join or visit one of our 29 neighborhoods today.



[Click here for a Blast from TV's past!](#)

GEO CITIES



YOUR HOME ON THE WEB

- [ENTER HERE](#)
- [INFORMATION](#)
- [NEIGHBORHOODS](#)
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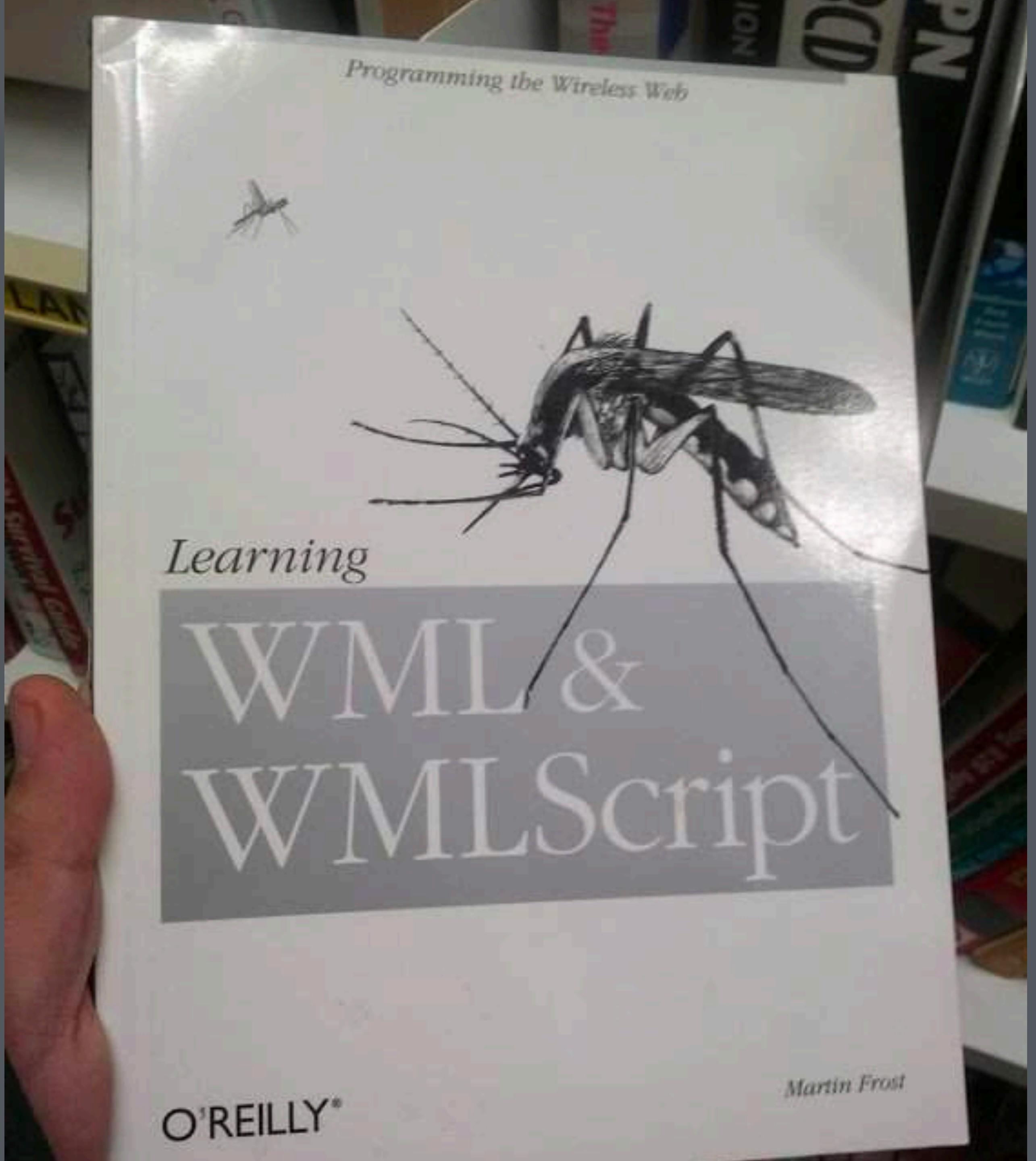


Today's Cool Homestead

[Yosemite4273](#)

Sunsets, coastal seagulls and flowers are part of the photographic fare at inetd's homepage.

20 years ago



Nokia WAP Toolkit

File Edit Go Toolkit Help

Location file:D:\Uyehuda\Column61\currency.wmlc

D:\Uyehuda\Column61\currency.wml

```
<?xml version="1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.1//EN" "http://www.wapforum.org/DTD/wml_1.1.xml">

<wml>

<card id="card1" title="Currency" newcontext="true">
<p>
    Amount: <input format="*N" name="amount" title="Amount:"/>
    From: <select name="from" value="USD" title="From:>">
        <option value="DEM">German Mark</option>
        <option value="FRF">French Franc</option>
        <option value="FIM">Finnish Markka</option>
        <option value="USD">US Dollar</option>
    </select>
    To: <select name="to" value="FIM" title="To:>">
        <option value="DEM">German Mark</option>
        <option value="FRF">French Franc</option>
        <option value="FIM">Finnish Markka</option>
        <option value="USD">US Dollar</option>
    </select>
</p>
</card>
</wml>
```

Compile Show Line 53 Col 1

Messages Variables History Bookmarks WML Deck Session mortgage.wml currency.wml

Ready







128 x 96 pixels



Max. 64KB



INTERNET MÓVIL

Telenet
Pantupalma.com

Conexión a Internet vía Palm offline

Mediante cualquier equipo Palm y una suscripción a un servicio de conexión, como puede ser AventoGo, es posible navegar offline por Internet sin necesidad de conectarse.

La sincronización se hace en el momento de la sincronización diaria se descargan los cambios.

Se puede navegar por diarios, revistas, servicios de clima y otros sitios que prepararon sus páginas para móviles palm offline.



No Tutorials



No Video



No StackOverflow



No Google



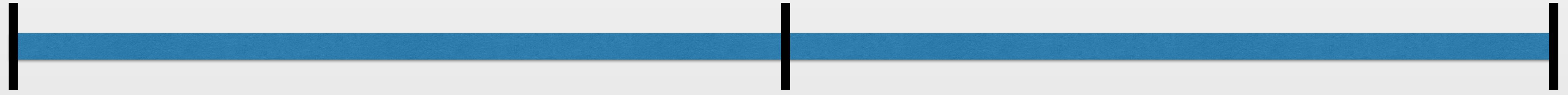
Very different

A lot of things
haven't changed



-20 years

Today



-20 years

Today

+20 years

A wide-angle, nighttime photograph of a futuristic city. The sky is filled with numerous small, glowing white particles, resembling stars or falling snow. In the foreground, a large, illuminated bridge arches over a dark river or canal. The bridge's lights reflect off the water. To the left, a tall building with a glass facade reflects the surrounding lights. A person stands on a balcony of this building, looking out over the scene. The overall atmosphere is one of a advanced, technologically advanced urban environment.

2040, here we go!

20 years Survival Kit



Frustration

Change

Web vs. Native

Tools

Mobile

Corporations

Performance

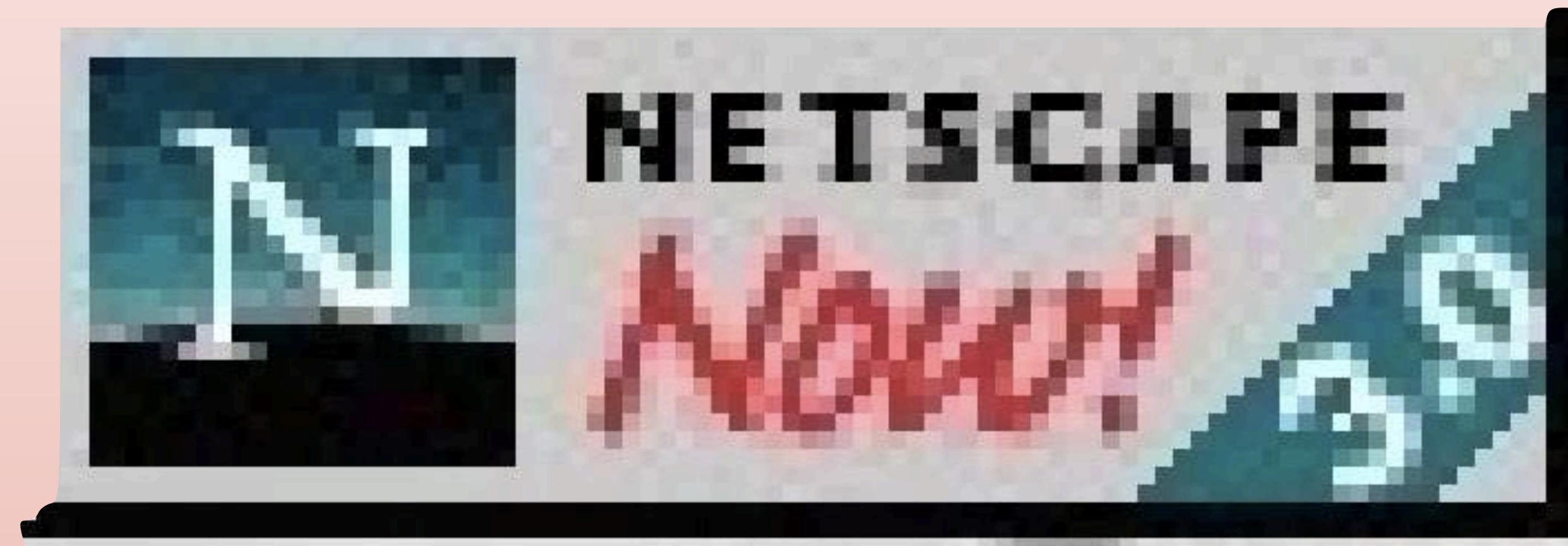
Ideas

Frustration

Frustrations: for the **user**

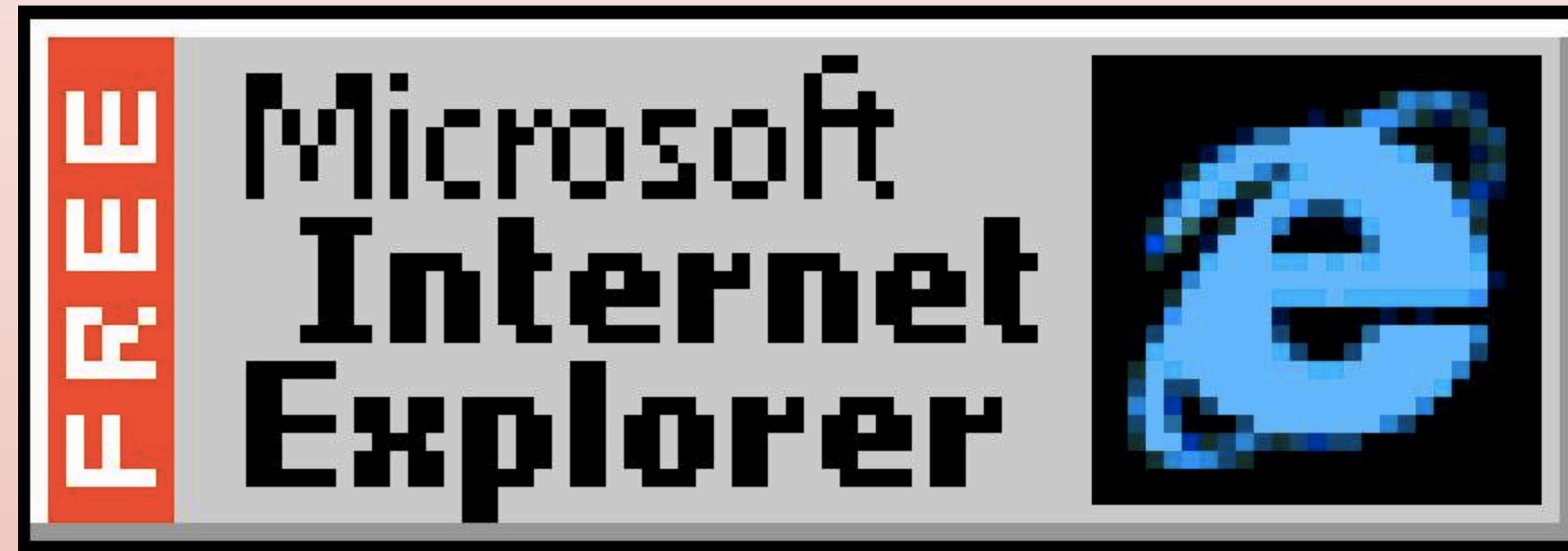
Frustrations: for the user

Best viewed with

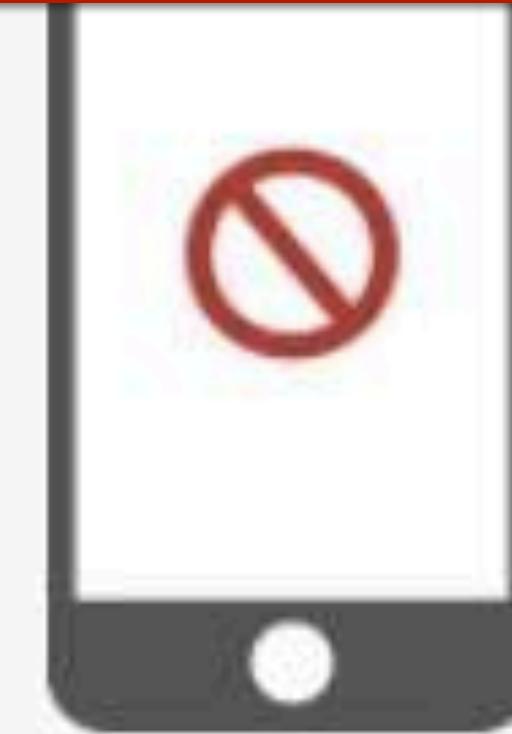


Frustrations: for the user

Best viewed with



Frustrations: for the user



Sorry, this page isn't available
on mobile yet.

Frustrations: for the user

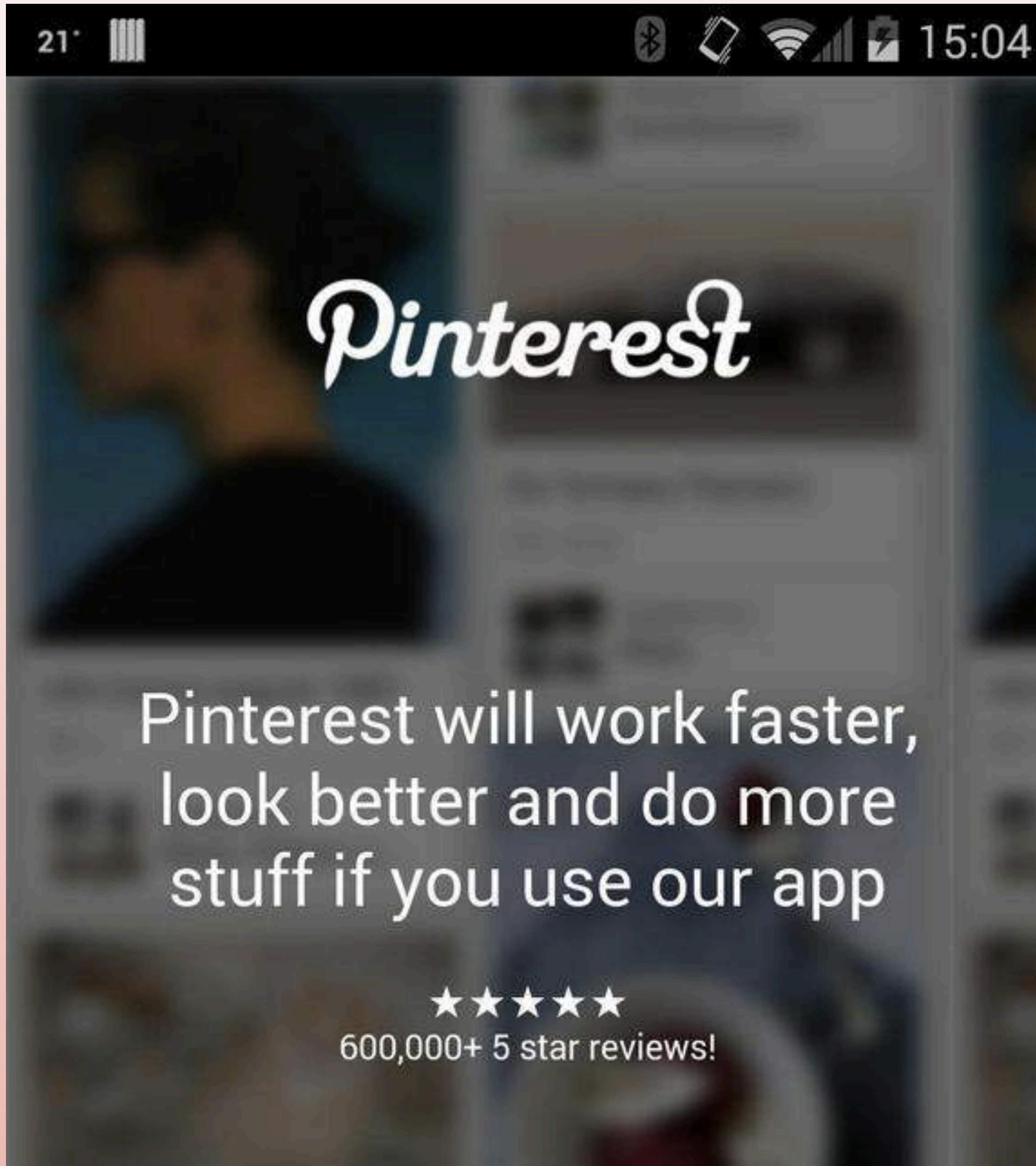
The image shows a mobile phone's home screen with a semi-transparent overlay from a website. The top status bar displays signal strength (3 bars), network (O2-UK), time (12:30), and battery level (47%). The main content area has a dark grey header with white text that reads: "To enjoy this site you'll need to update your Flash Player. It's easy, painless and will take just a moment...". Below this, there is a list of four steps in white text: 1. Download and install the latest version of Adobe's Flash Player 2. Unfortunately you'll then need to close your web browser 3. Go back to this site after you restart your web browser 4. That's it-have fun! At the bottom of the overlay is a white button with a yellow border and black text that says "Click to download" with a small orange arrow pointing right.

To enjoy this site you'll need to update your
Flash Player. It's easy, painless and will take
just a moment...

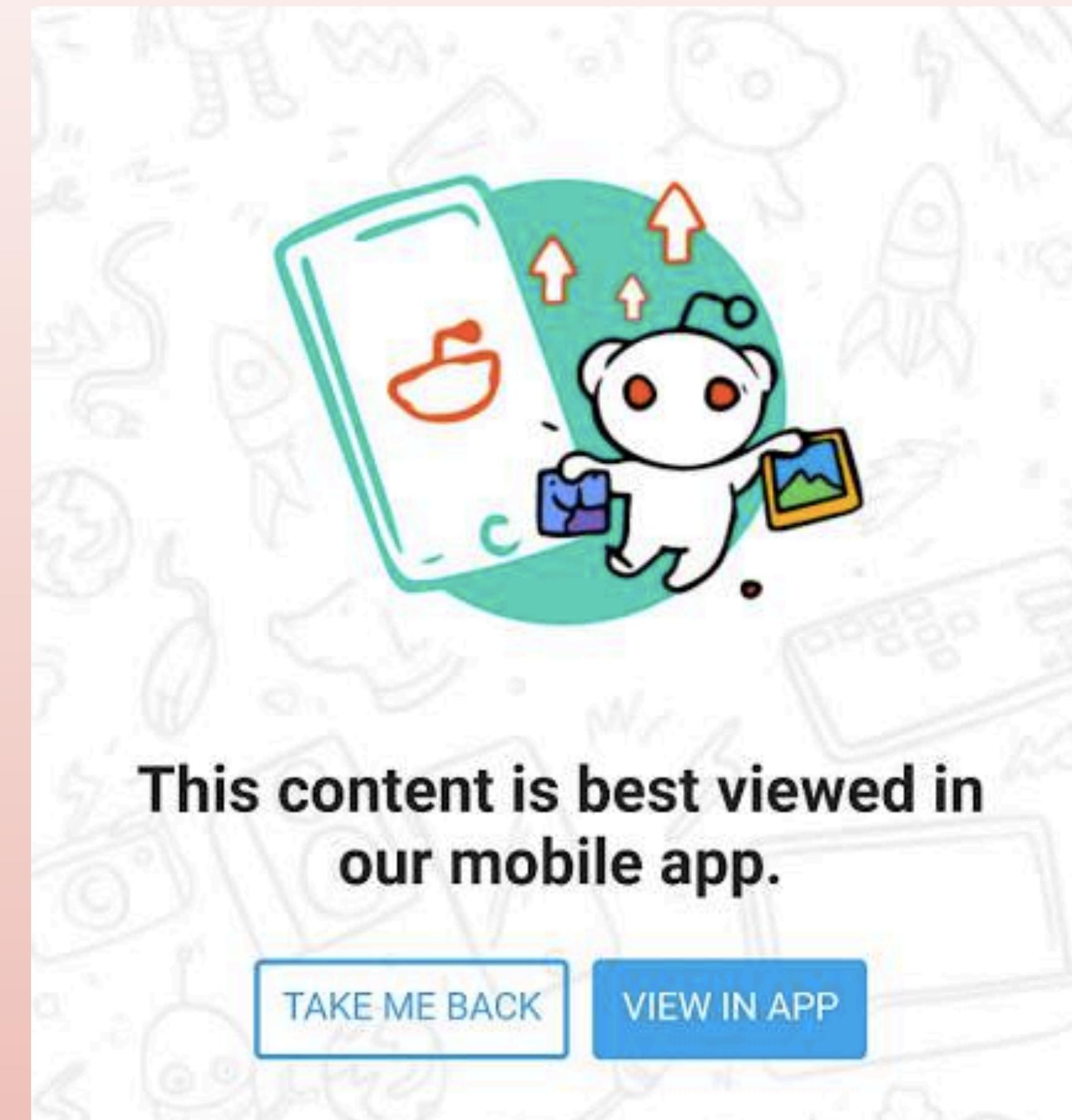
1. Download and install the latest version of Adobe's Flash Player
2. Unfortunately you'll then need to close your web browser
3. Go back to this site after you restart your web browser
4. That's it-have fun!

> Click to download

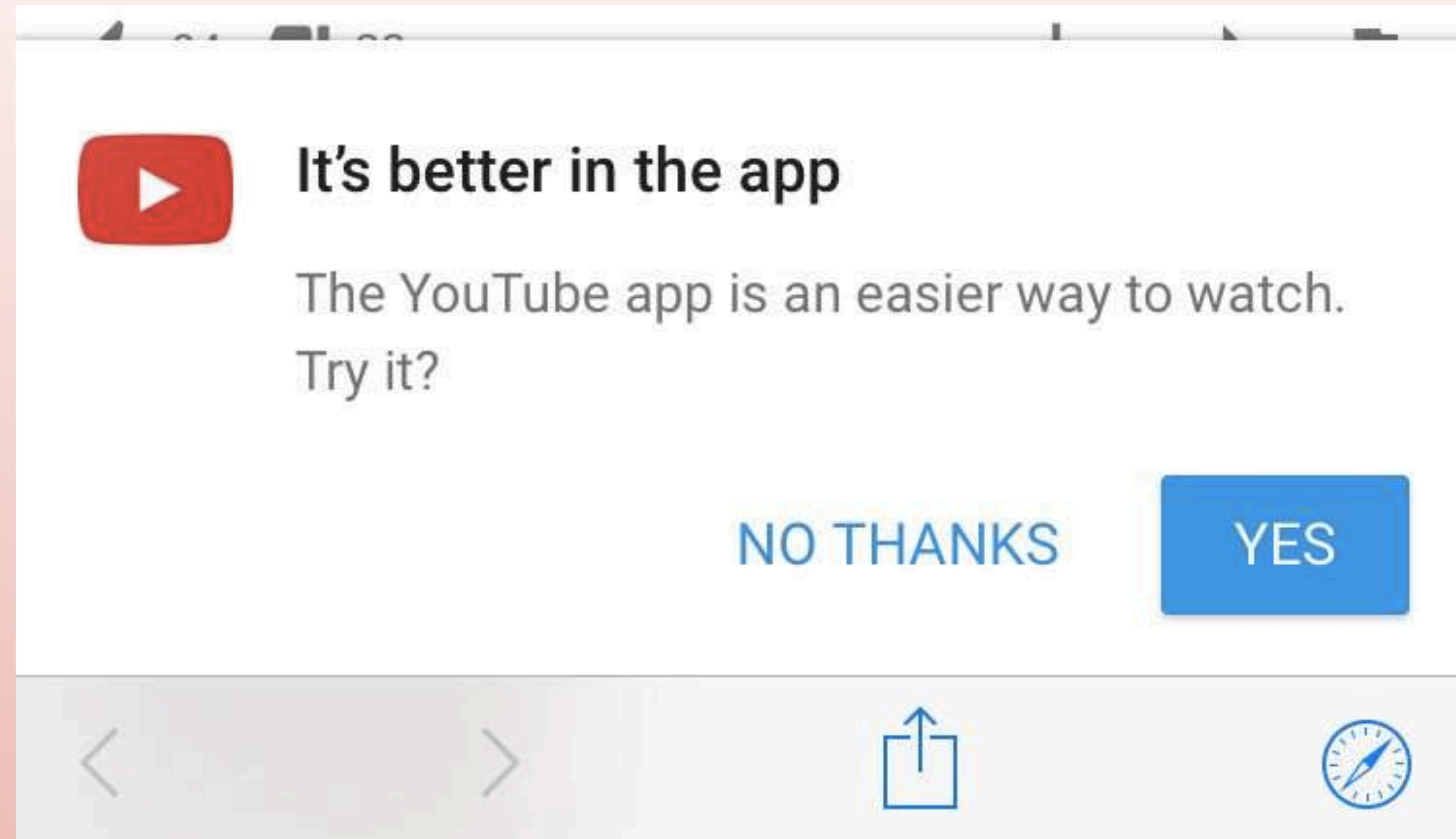
Frustrations: for the user



Frustrations: for the user



Frustrations: for the user



Frustrations: for the user

LinkedIn works better if you switch to our iPhone app



LinkedIn app for iPhone

★★★★★ · 50,000,000+ downloads

Download for free

Not now

Frustrations: for the user

≡ Google Earth

Google Chrome is required to run the new Google Earth. Please try this link in Chrome. [Learn more.](#)

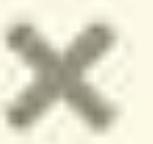
DOWNLOAD CHROME

Frustrations: for the user

The image consists of two side-by-side screenshots. The left screenshot shows a form with several input fields, all of which have been redacted with yellow bars. At the top right, there is a date selector labeled "Expiration date:" with the value "3 2020". Below the date selector are several other redacted fields, including a "Province:" dropdown set to "Ontario" and a "ZIP/postal code:" field. There is also a section for "Future use. (optional)". The right screenshot shows a mobile application interface for "Google Fi". The top bar displays the time "22:13" and signal strength. The main content area features the Google Fi logo and a navigation menu with the following items: "Account", "Billing", "Shop", "Support" (which is highlighted with a blue background), "Share the Fi love", and "Settings". To the right of the menu, there is a vertical sidebar with partially visible text: "HELP CENTER", "M", "F", "User", "Le", "G", "In", "Tip", and "Ti".

Frustrations: for the user

Open this link in Safari on iOS to install apps.



If you're using iPadOS (iOS13 for iPad), please turn on the mobile mode by clicking the "Aa" icon

Don't do this

Consistent
experience

Follow the user

Avoid Frustration



Change

Change



Change



Change



Change



Change



Change



Change



Change



Change



Change



Change



Change



Change



Change



Change

Windows CE

Pocket PC

Windows Mobile

Windows Phone

Windows Phone 8.x

Windows 8.x

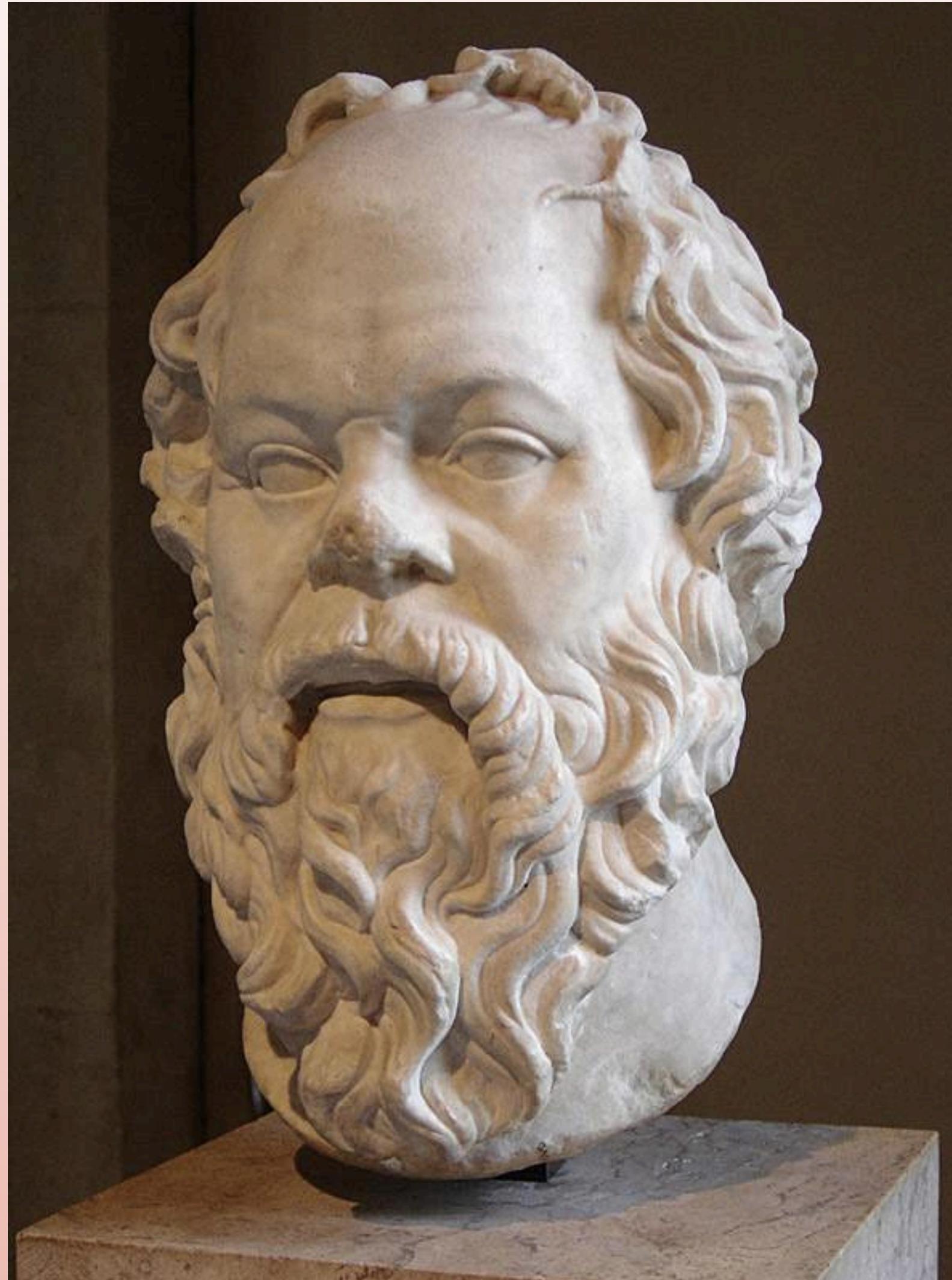
Windows Universal Apps

Windows 10

Windows 10 for Mobile

WindowsX

Change



Change

“ipse se nihil scire id unum sciat”

Change

“I only know that I know nothing”

Future?

Unknown

Change

Change is the only constant

Don't stop
innovating



Google Glass arī Rīgā

Ilze ŠEINFELDE

Argentīnietis Maksimiliano Firtmans ir viens no 10 000 cilvēkiem, kas jau lieto *Google Glass* viedās brilles. Viesojoties Latvijā, viņš demonstrēja šo brīļu iespējas preses konferencē, kas bija veltīta otrajai informācijas un komunikācijas tehnoloģiju izstādei un konferencei *RIGA COMM 2013*, kas notiks no 22. līdz 24. novembrim Starptautiskajā izstāžu centrā *Kīpasalā*.

Kaut gan *Google Glass* dēvē par brillēm, īstenibā tā ir multifuncionāla ierīce, kura jāvalkā līdzīgi kā acenes. Tā spēj fotografēt, filmēt, pateikt priekšā tulkojumu, informēt par laiku, maršrutu, gaidāmo lidojumu, jaunākajām ziņām un tā tālāk. Tā ir kā trešā acs un auss.

Pirms biju tās uzlikusi, uz šo tehnoloģiju brīnumu raudzījos visai skeptiski, jo šķita, ka raudzīties pasaule caur papildu ekrānu būs visai divaini. Taču īstenibā, uzliekot *Google Glass*, nav nekādu traucējošu sajūtu, pat neskatoties uz to, ka informācija tiek attēlotā



AR SAJŪSMU. Argentīnietis Maksimiliano Firtmans – populārs mobilo aplikāciju izstrādātājs un grāmatu autors – neskaitāmas reizes pārliecinājis, ka maz ir tādu, kurus *Google Glass* viedās brilles atstāj vienaldzīgus

cēta telpā divu metru attālumā. Lai redzētu, cik ir pulkstenis vai navigētais maršruts, pat nav īpaši jāpiepūlas. Ja, protams, ir vēlme lasīt e-pastu vai pārlūkot iepriekš uzfilmēto, tad gan ir jāpievērš

Google Glass var vadīt, gan pieskaroties brīļu rāmim, gan arī ar balsi. Pagaidām gan tās saprot vien angļu valodu. Baterija darbojas aptuveni četras stundas, taču, ja tiek nepārtrauktī

M. Firtmans *Google Glass* izmanto arī ikdienā, piemēram, lai izmantotu navigāciju un atrastu ceļu svešā pilsētā. «Ja es lidojam būtu izmantojis *British Airways* pakalpojumus, tad

izlidošanas terminālu un ceļu,» sacīja Maksimiliano Firtmans.

Lielākās diskusijas saistībā ar šim brillēm līdz šim ir bijušas par privātuma aizsardzību, jo ar tām iespējams filmēt vai fotografēt tā, ka apkārtējie to pat nepama. M. Firtmans uzskata, ka faktiski tas ir tikai laika jautājums, kad visi filmē visus.

Iespējams arī, dzīve ar *Google Glass* kļūs paredzamāka, jo tās spēs atpazīt cilvēkus, vietas, notikumus un atrast informāciju par tiem globālajā tīmeklī. Piemēram, dodoties uz bāru, acenes informēs, ka kungs uz kuru lūkojaties, saskaņā ar *Facebook* profilu ir precēts, divu bērnu tēvs un kaķumilis, savukārt piens, ko grasāties likt savos iepirkumu ratiņos veikalā, citā tirdzniecības vietā maksā uz pusī lētāk.

Līdz šādām iespējām gan vējāgaida kāds laiks, savukārt tas, ko varēs aplūkot un izmēģināt izstādē *RIGA COMM 2013*, jau ir realitāte, piemēram, Latvijā ražoti trīsdimensiju printeri, in-



Foto: ERIC DESLASSUS/AGENCE FRANCE PRESSE

Design & Tech

A screenshot of the FORTUNE greece.com website. The main header features the word "FORTUNE" in large red letters above "greece.com". Below the header is a navigation bar with several tabs. The main content area has a large headline in Greek: "Google Glass: Τα απόρια μηχανήσια είναι εδώ". Below the headline is a large photograph of a person wearing Google Glass. To the right of the main content are three sidebar columns, each containing a thumbnail image and some text. The sidebar columns are titled "ΕΙΔΟΥΣ ΕΠΙΧΕΙΡΗΣΗΣ", "ΕΙΔΟΥΣ ΕΠΙΧΕΙΡΗΣΗΣ", and "ΕΙΔΟΥΣ ΕΠΙΧΕΙΡΗΣΗΣ". The right edge of the screenshot shows a portion of another page with the number "2" and some text.

A close-up photograph of a man's face, showing him wearing Google Glass. He is looking towards the right side of the frame. The background is blurred, suggesting an indoor environment.

A close-up photograph of a man's face, focusing on his eyes and forehead. He is wearing a pair of Google Glass smartglasses. His gaze is directed upwards and to the right. His left hand is partially visible, resting near his chin and mouth area. The background is blurred, suggesting an indoor setting.

A close-up photograph of a man with dark hair and a beard, wearing Google Glass. He is smiling slightly and looking towards the camera. The background is blurred, showing what appears to be an indoor setting with other people.

A screenshot of a news website's homepage. At the top, there are two small video player boxes. The left one shows a man in a suit with the caption "Watch: George Clooney is on the hunt". The right one shows a man in a suit with the caption "Watch: John Boehner to get his turn to be prime minister". To the right of these is a yellow circular icon with the number "30" and the text "Viewing history: 88%+ for my city | 7 day free trial". Below these are several horizontal navigation links: HOME, SPORT, BUSINESS, ENTERTAINMENT, LIFE & STYLE, TRAVEL, METRO, EDITION, and OPINION. A search bar is positioned below the navigation. The main headline is "Surgeon General: Google Glass-wearer". Below the headline is a small text snippet: "10:00 am - 08:00 am - 08:00 am". The main image is a close-up of a man's face wearing Google Glass. To the right of the main content area is a "Most Popular" sidebar with five numbered items: 1. "Indian village doctors going wireless on presidential election day" (with a thumbnail image). 2. "FBI advertising Google Glass" (with a thumbnail image). 3. "India's first app for smart mobile users" (with a thumbnail image). 4. "Takes on the Microsoft site despite latest update" (with a thumbnail image). 5. "American off course after No. confidence in" (with a thumbnail image). At the bottom of the sidebar is a link "Read more popular stories". On the far right edge of the screen, there is a vertical column of text starting with "P W ate r h".

The image shows a close-up profile of a man's face, focusing on his forehead and nose. A silver-colored Google Glass device is mounted on his forehead, covering his eyes. He has short brown hair and a light beard. The background is blurred, suggesting an indoor setting. At the top of the image, there is a red banner with white text that reads "THE DAILY CALLER". Below the banner, there is a navigation bar with links for "HOME", "US", "ENTERTAINMENT", "SPORTS", "BUSINESS", "TECH", "EDUCATION", and "OPINION".

A screenshot of the Reuters news website. At the top, the word "REUTERS" is prominently displayed. Below it is a navigation bar with various links like "HOME", "BUSINESS", "TECHNOLOGY", "SCIENCE", "HEALTH", "ARTS", "OPINION", "LIFESTYLE", and "MULTIMEDIA". A search bar is located at the top right. The main content area features a large black-and-white photograph of a man's face in profile, looking slightly to the right. To the left of the photo, the headline reads "UK government to cut welfare budget again". Below the photo, there is a detailed article summary. To the right of the photo, there is a sidebar with a video thumbnail showing a person in a suit, with the text "EUROPE: Germany's Merkel to visit US". Further down the page, there are more headlines and articles, including one about "Germany's Merkel to visit US" and another about "UK's Osborne to meet US Treasury Secretary Lewinsky". The overall layout is clean and professional, typical of a major news organization's website.

A screenshot of the El Comercio website's technology section. The main header features the word 'TECNOLOGÍA' in large, bold, black letters. Below the header, there is a large image of a man wearing Google Glass. To the right of the image is a sidebar with a yellow background containing a numbered list from 1 to 8, each followed by a snippet of text. At the bottom of the sidebar, there is a yellow button labeled 'COMENTAR'. The overall layout is clean and modern, typical of a news website.

The image is a screenshot of a Hebrew news website's homepage. At the top, there is a navigation bar with various links and a logo for 'Ynet' (YLE) on the right. Below the navigation bar, there is a large, prominent image of a man wearing Google Glass. The man has a beard and is looking slightly to the side. To the left of this main image, there is a vertical sidebar displaying several smaller thumbnail images, likely links to other news articles or video clips. The overall layout is typical of a news portal.

A screenshot of a CNN Mexico news article. The headline reads "Google estrena en Estados Unidos una tarjeta de débito prepagada". Below the headline is a short summary in Spanish. The main body of the article is partially visible. At the bottom left, there is a large, stylized "Google" logo. On the right side, there is a sidebar with a video thumbnail showing a person's hand holding a smartphone.

Global economy is
'on the mend'French quite happy
to get knickers in a
tryst

30°

Johannesburg 30°C / 16°C
Set my city | 7 day forecast

LIVE TRAFFIC!

Search Times LIVE

SEARCH

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FBI interrogates Google Glass-wearer

©The Daily Telegraph | 23 January, 2014 00:27



A man and his wife were told to leave an Ohio cinema because he was wearing a Google Glass device.
File photo

MOST POPULAR

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THIS WEEK

1

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2

**FBI interrogates Google Glass-wearer**

3

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4

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5

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THURSDAY, FEB 06, 2014

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Explains How Its
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NEWS

App for Jailbroken Google Glass Will Allow Users to Know Your Personal Details Just By Looking at You [VIDEO]

Feb 05, 2014 04:58 PM EST by Pete Calautti



TECH HOME

COLUMNS

REVIEWS

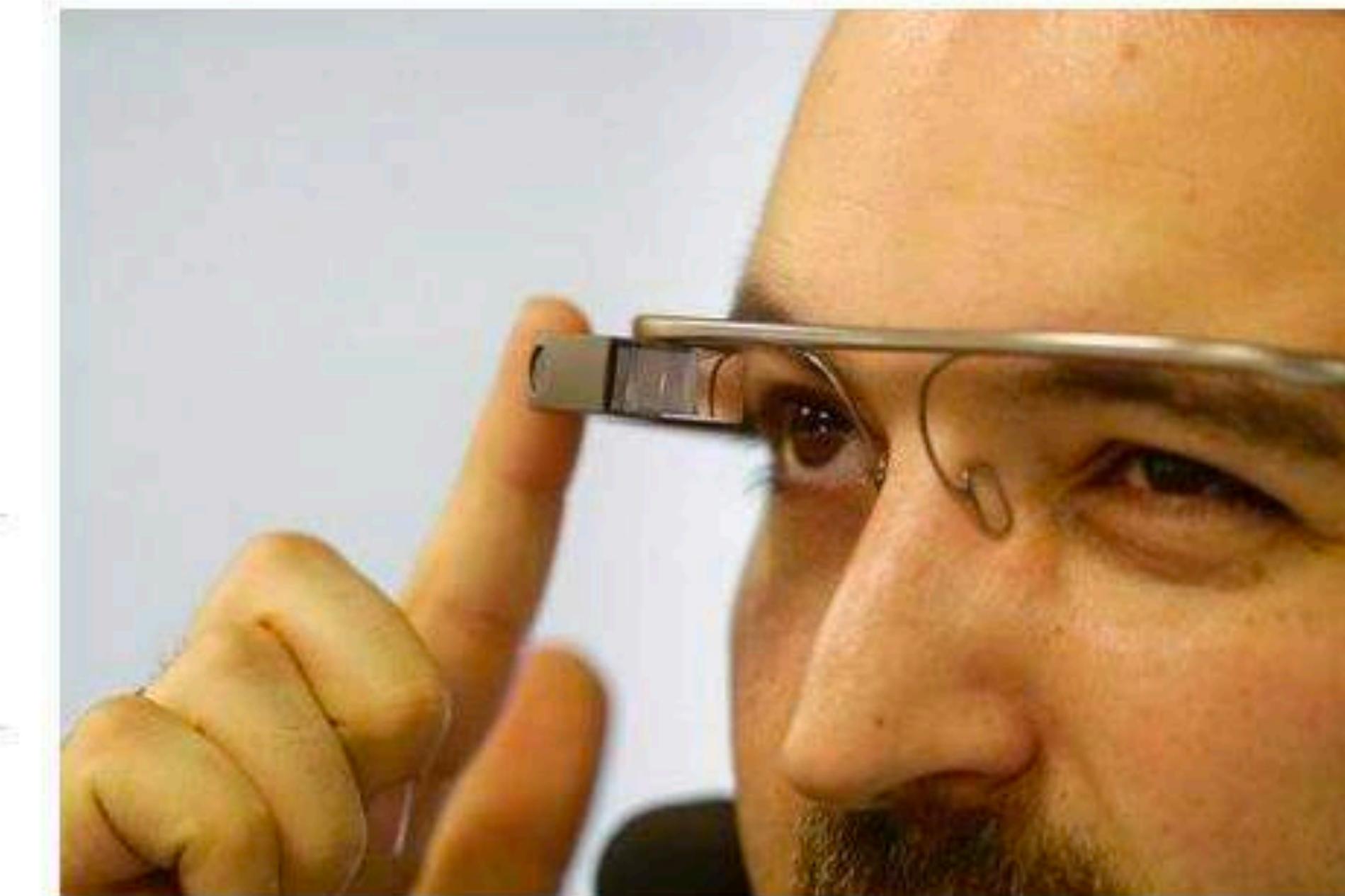
POGUE VIDEOS

HOW TO

t
f
v
✉

Are You a
Glasshole? Take
This Quiz to Find
Out

Dan Tynan
Tech Columnist
Mar 18, 2014



*Google Glass developer Maximiliano Firtman. Actually a nice guy.
(Photo: Reuters)*

Just because you wear Google Glass, it doesn't automatically make you a Glasshole. Right?

Since early versions of the uber-gadget were sold to 8,000 lucky Googletonians last year, there's been a growing backlash against the

[TECH HOME](#)[COLUMNS](#)[REVIEWS](#)[POGUE VIDEOS](#)[HOW TO](#)

t Are You a
f Glasshole? Take
v This Quiz to Find
m Out

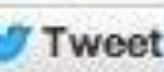
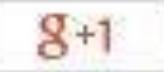
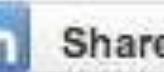
Dan Tynan
Tech Columnist
Mar 18, 2014



Google Glass developer Maximiliano Firtman. Actually a nice guy.

© 2014 Yahoo! Inc.

Since early versions of the uber-gadget were sold to 8,000 lucky Googletonians last year, there's been a growing backlash against the

 0 Like 1 Tweet 0 g+1 in Share SU 0

A new application for Google Glass promises that "sex will never be the same"

Washington : DC : USA | Jan 23, 2014 at 1:49 AM PST

BY [rsa76](#)

 1  0

VIEWS: 14

1 of 1



Developer Firtman wears Google glasses before news conference in Riga

Innovate

20 years Survival Kit



Embrace
Change

Web vs. Native



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Crazy Dude
Builds Fully
Automatic...

3 days ago

As Mobile Roars Ahead, It's Time To Finally Admit The Web Is Dying

Posted May 9, 2014 by [Danny Crichton \(@DannyCrichton\)](#)

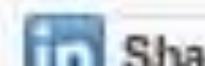
189



1.3k



768



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809



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A View from **Christopher Mims**

Why Mobile Apps Will Soon be Dead

The seeds of destruction for both iOS and Android app stores

Mobile Apps Will Soon be Dead



A View from **Christopher Mims**

Why Mobile Apps Will Soon be Dead

The seeds of destruction for both iOS and Android app stores



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WAIT! THE WEB ISN'T DEAD AFTER ALL. GOOGLE MADE SURE OF IT



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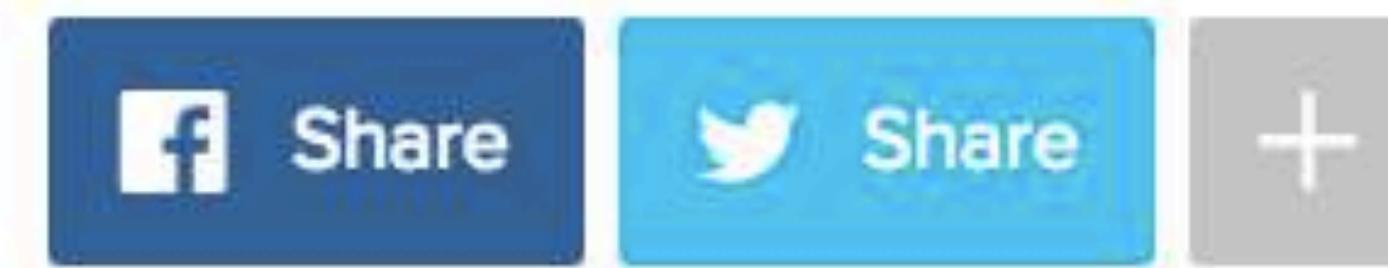
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Zuckerberg's Biggest Mistake? 'Betting on HTML5'

3.3k
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Mark Zuckerberg: Our Biggest Mistake Was Betting Too Much On HTML5

Drew Olanoff @yoda / 5:20 pm EDT • September 11, 2012

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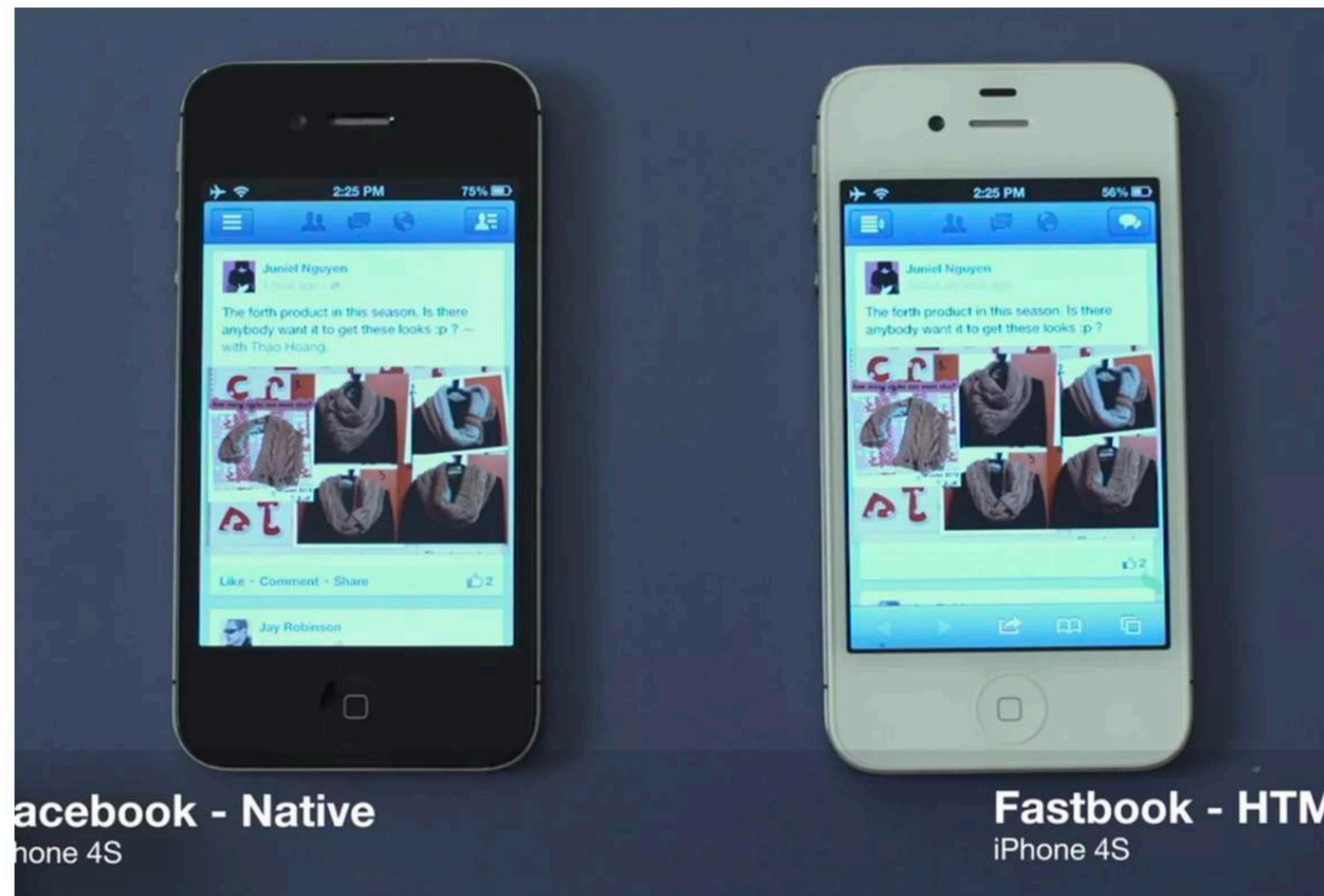
Developer suggests that Facebook was the problem with Facebook's app, not HTML5

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By [Justin Rubio](#) | Dec 17, 2012, 2:24pm EST

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fastbook html5 app

GOOD DEALS



Sam's Club's one-day sale is over, but more Black Friday deals are coming



Best Buy's early Black Friday deals have already started, and they're great

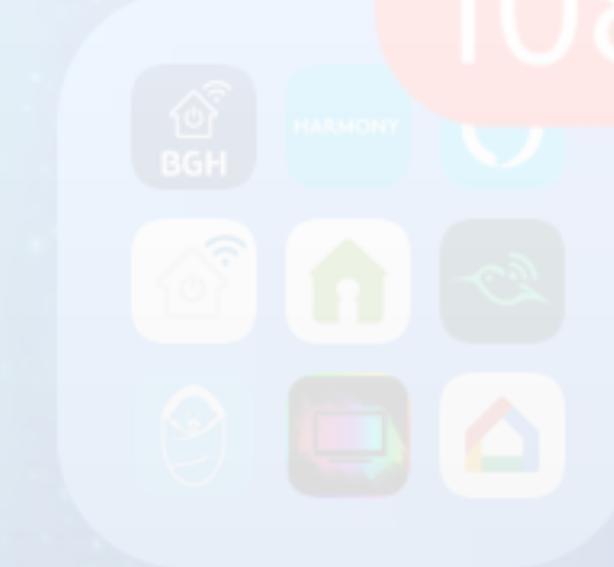
App Ecosystem
has issues



Settings



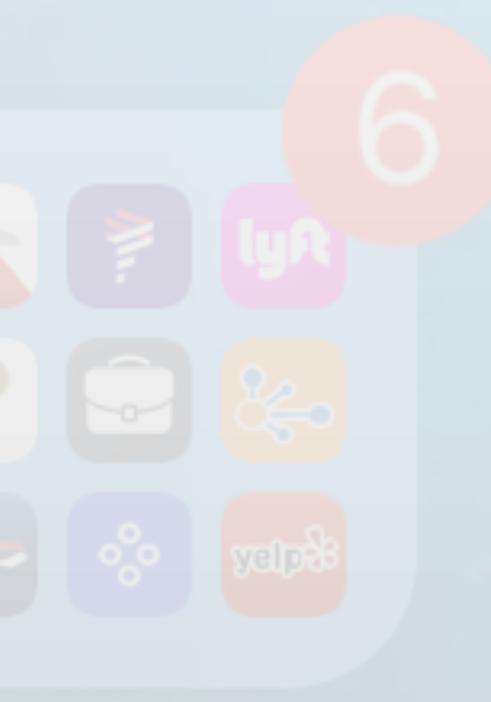
Finance



Home



Google



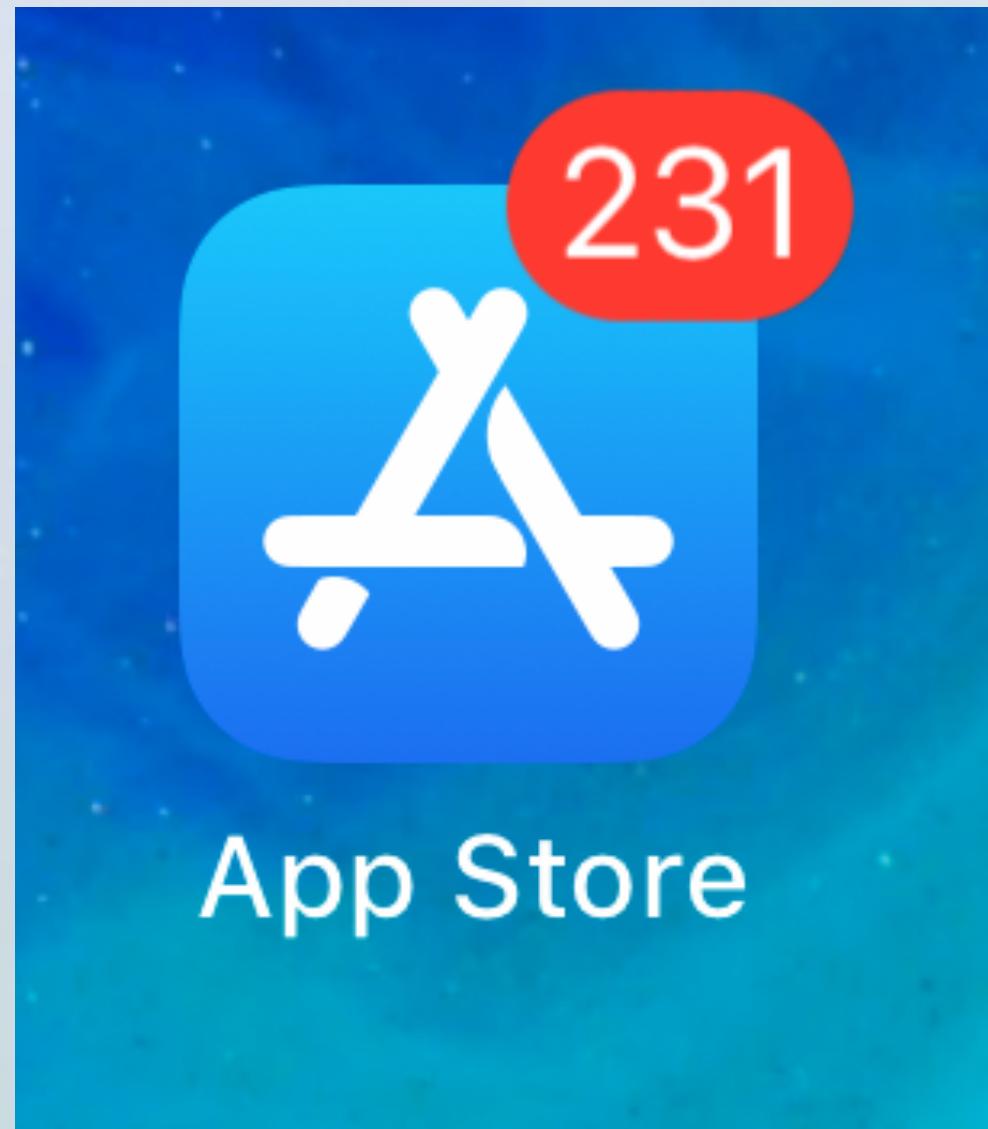
Travel



Google Maps



Safari



App Store



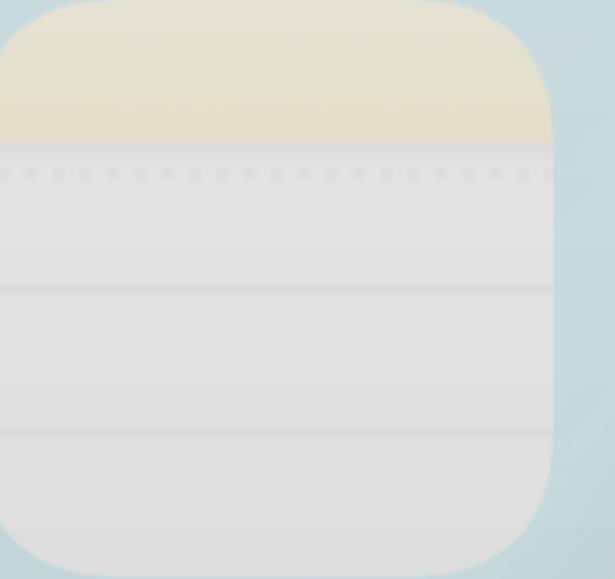
Google Photos



Spotify



Instagram



Notes

iPhone Privacy Is Broken...and Apps Are to Blame

Don't be too confident in those privacy controls. Our test of 80 apps in Apple's App Store reveals most apps are tracking you in ways you cannot avoid



MOTHERBOARD

TECH BY VICE

By Jason Koebler | Jan 4 2019, 8:08pm

Stop Using Third-Party Weather Apps

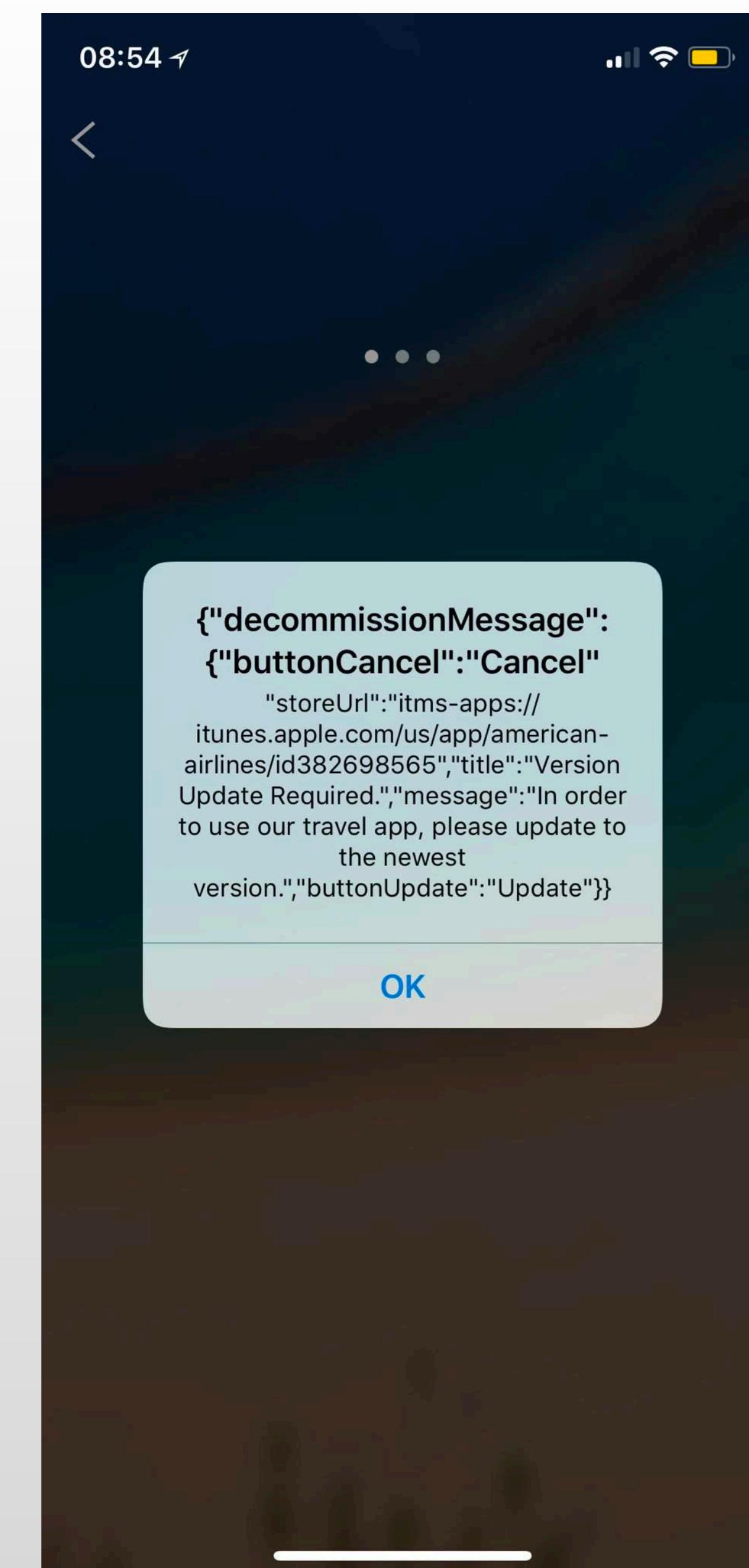
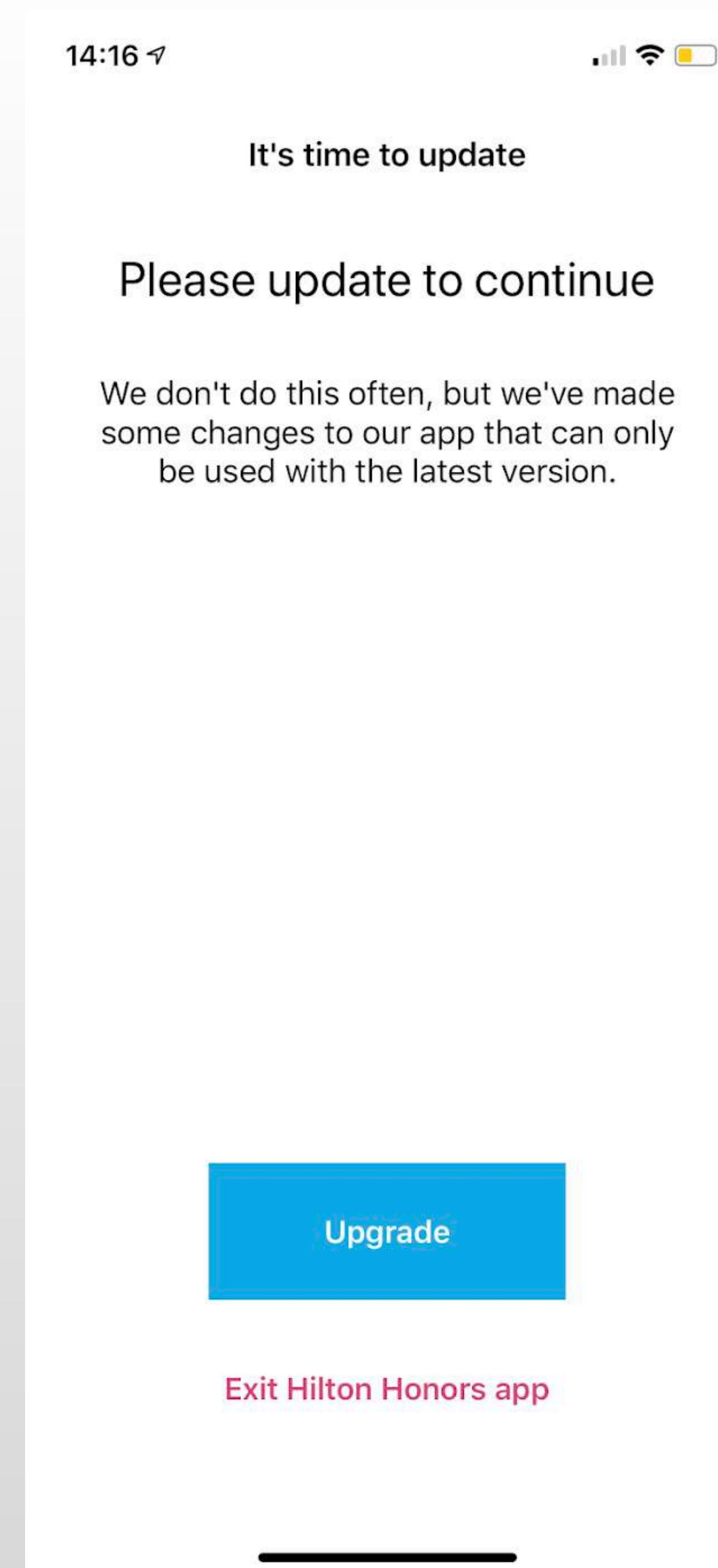
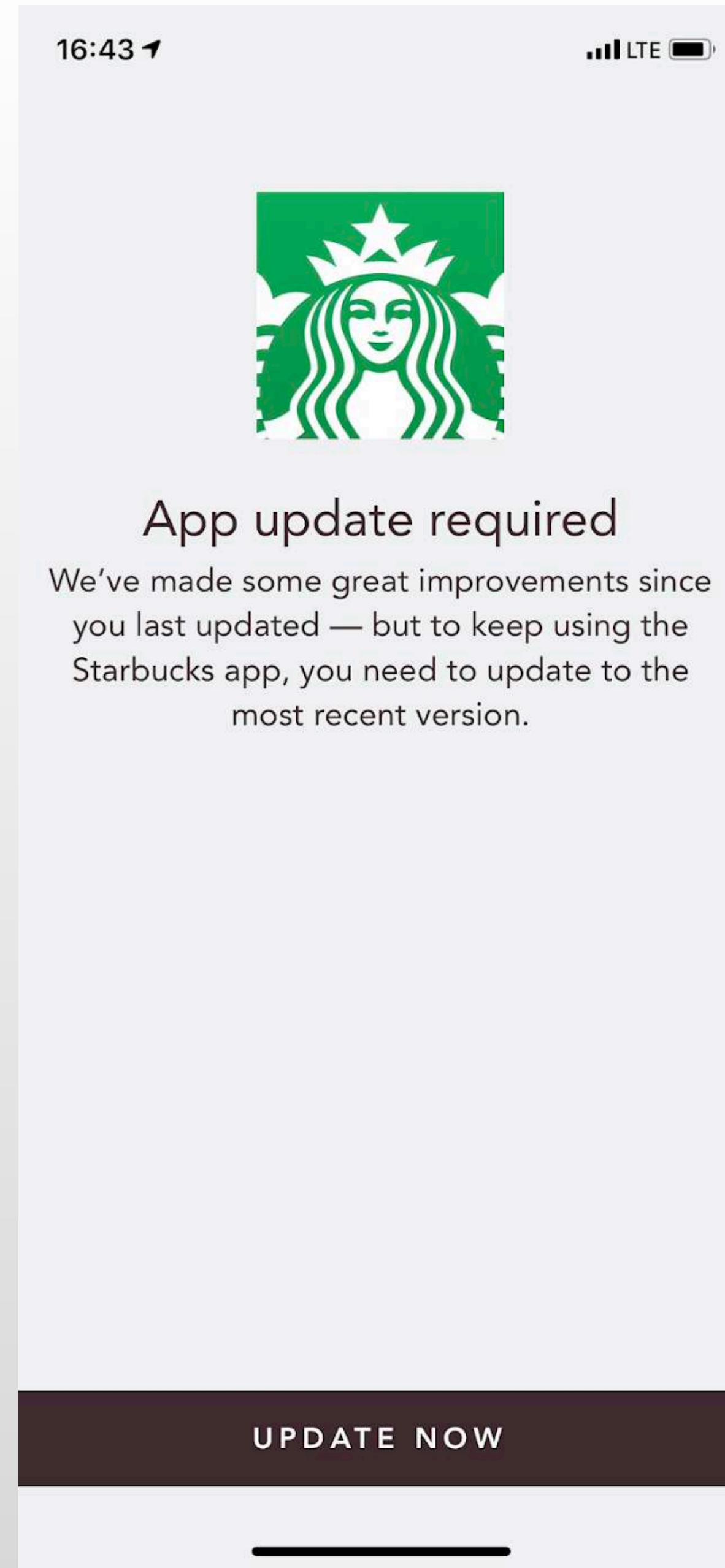
Time and time again, weather apps—including The Weather Channel, Accuweather, and WeatherBug—have shown that they share your location data.

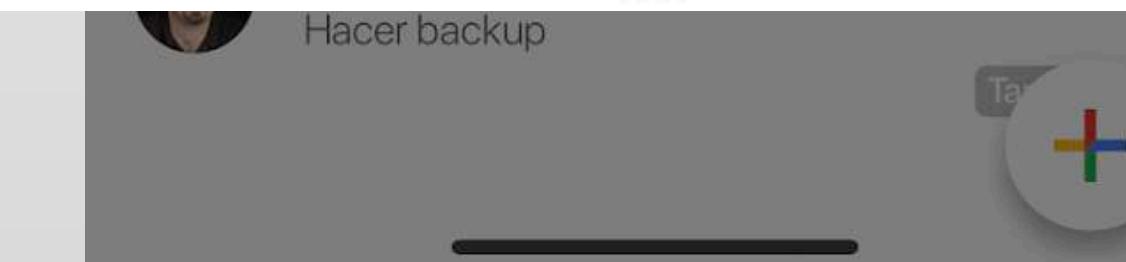
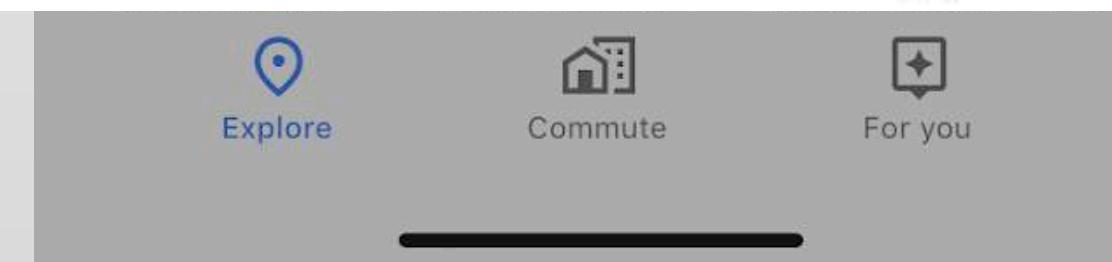
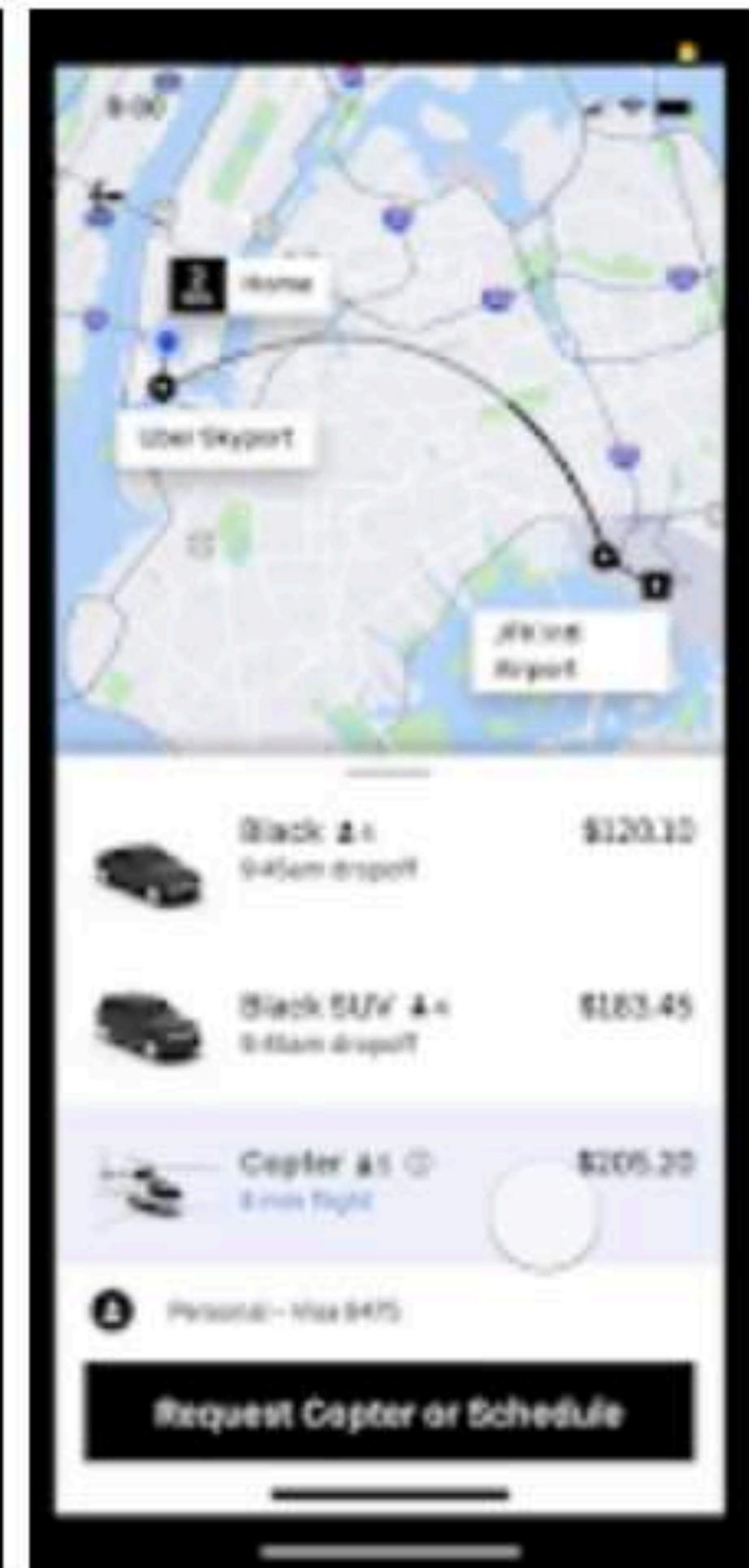
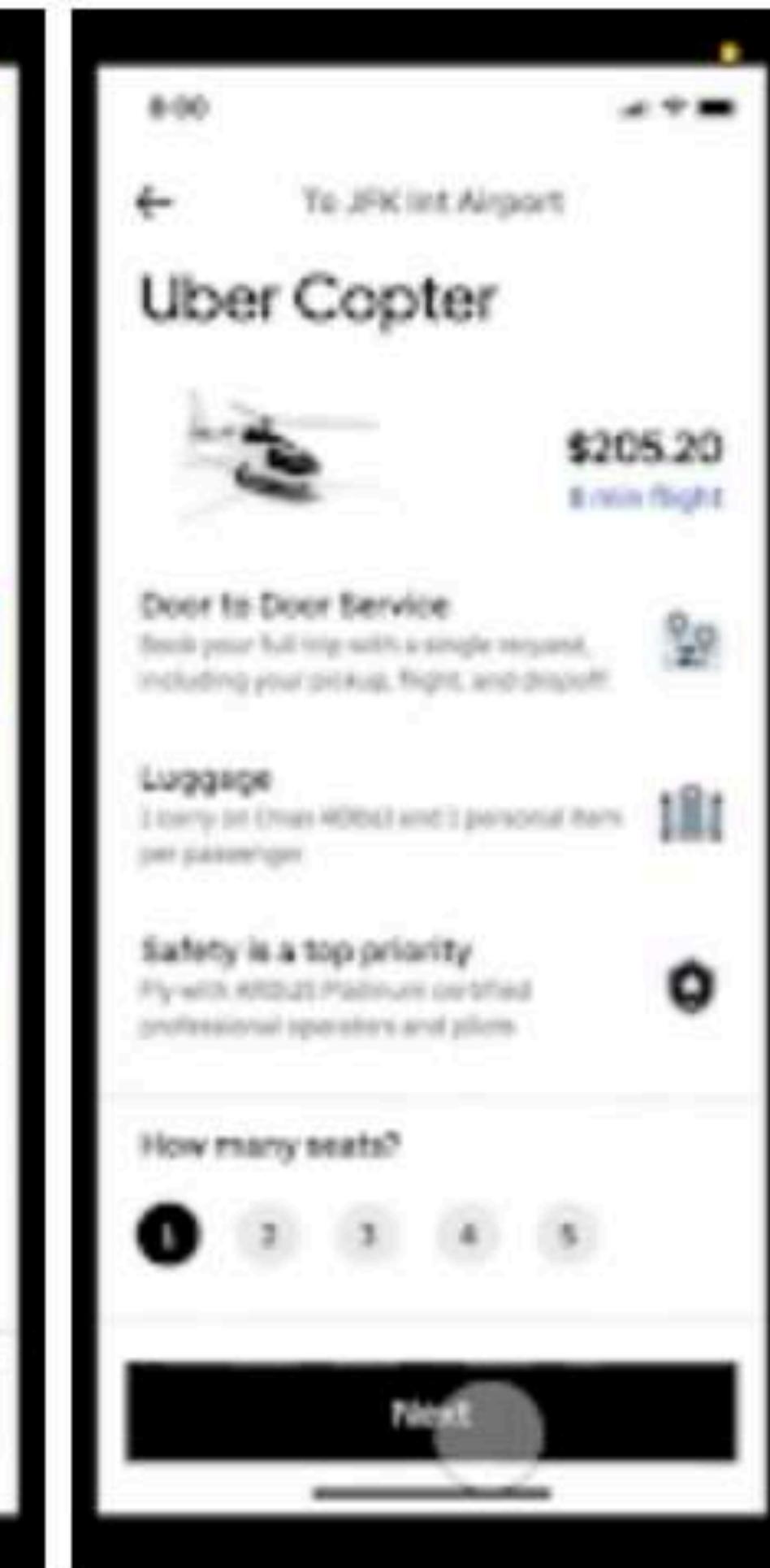
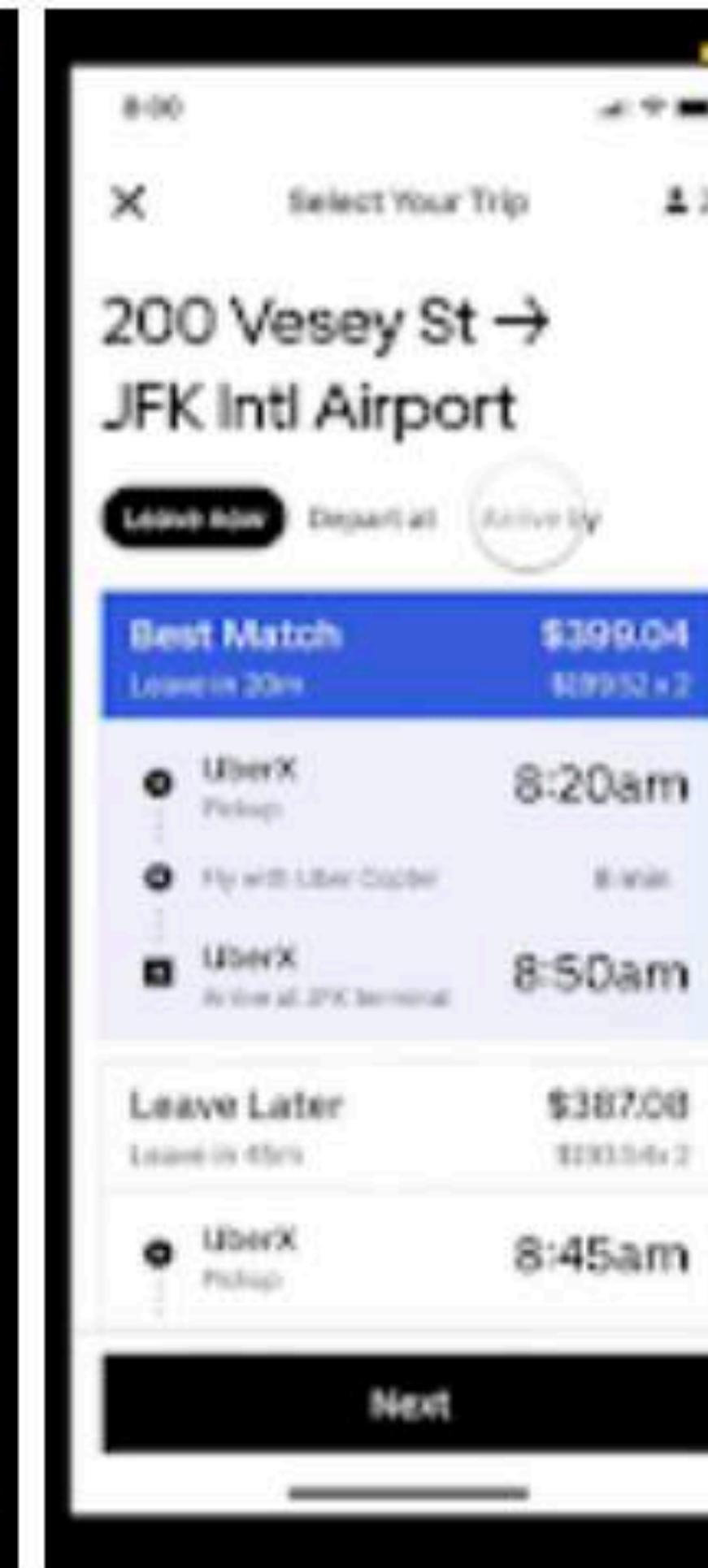
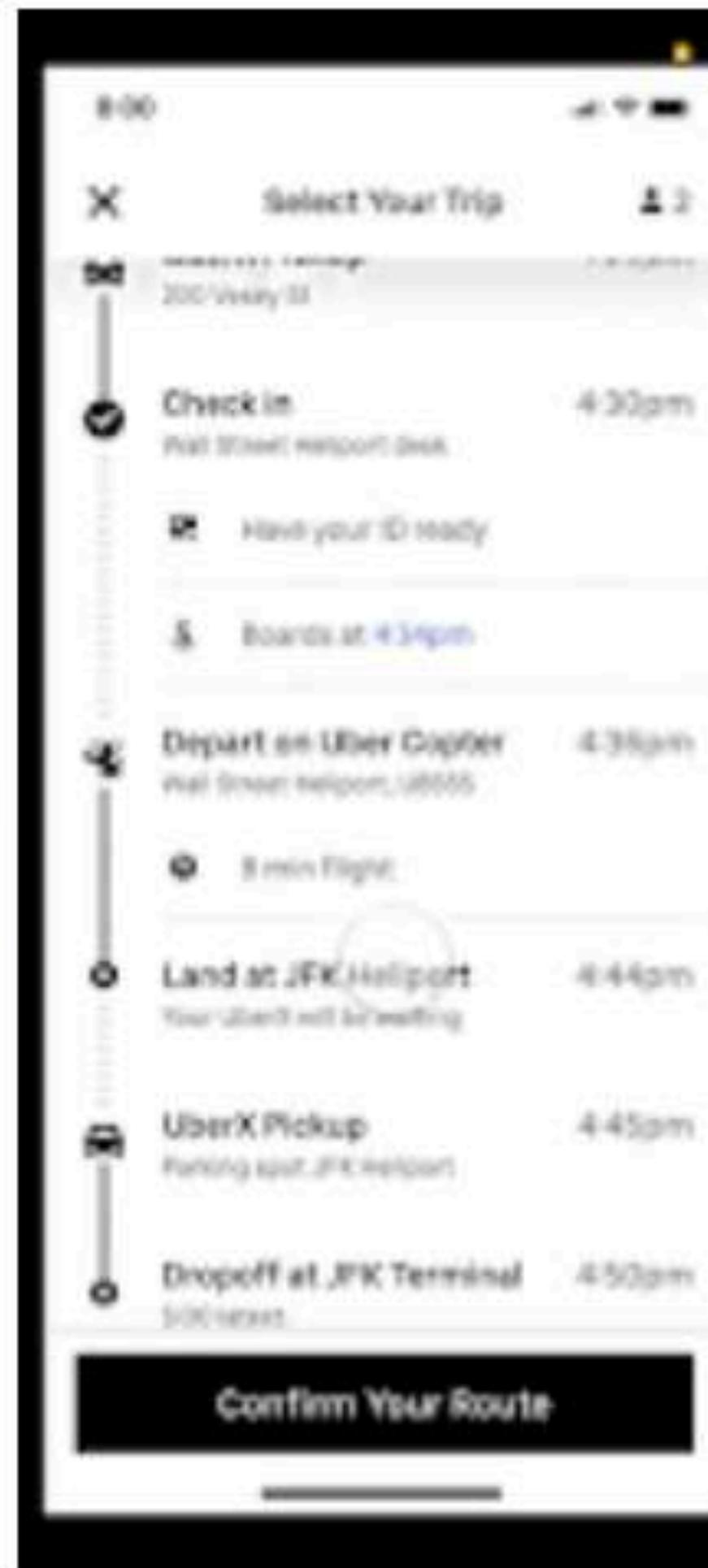
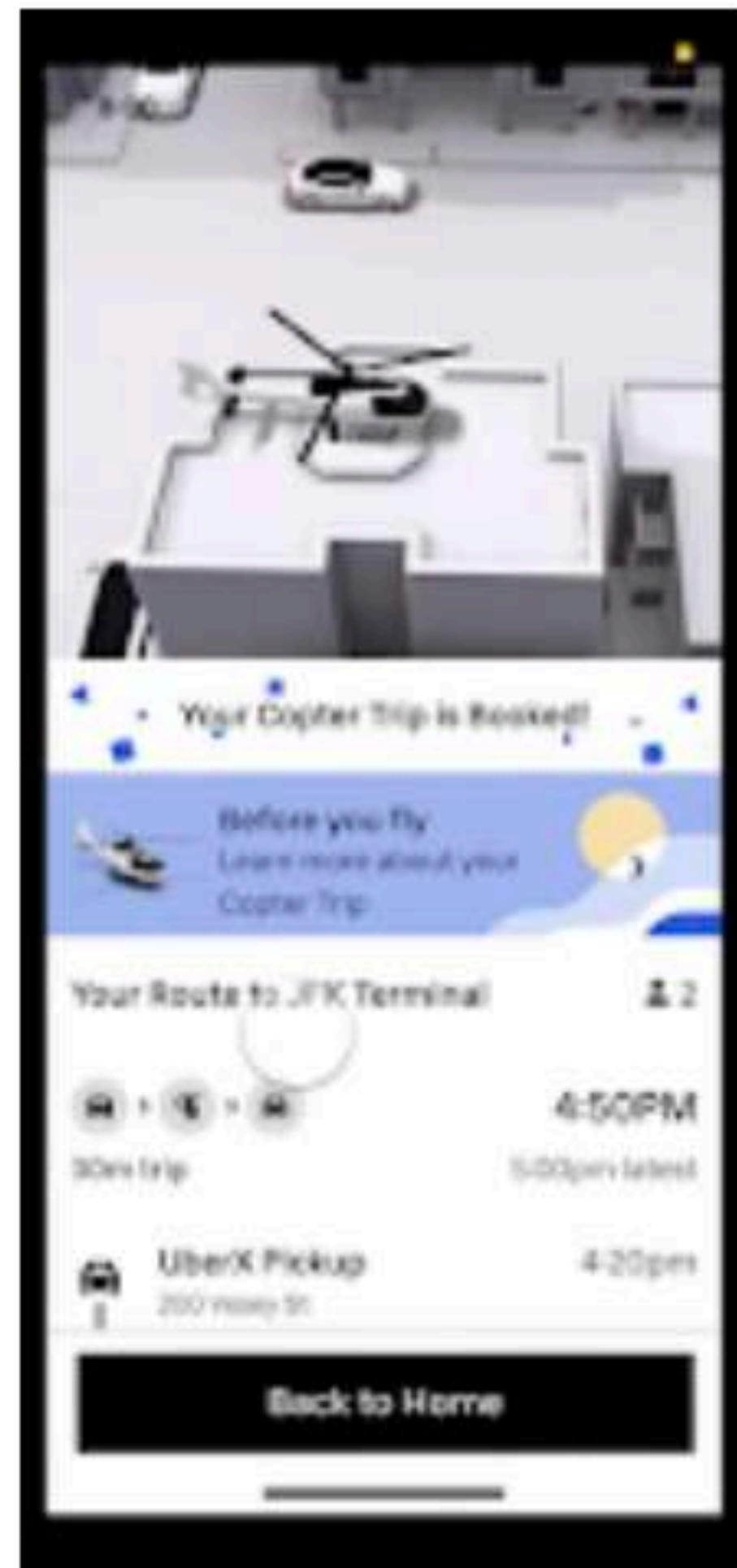
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native vs. web?

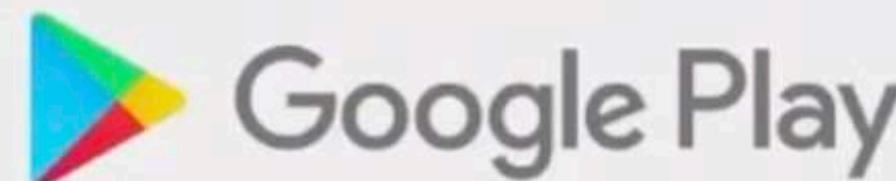


Browser vs. store?



Trusted Web Activities

PWA



- Smaller application size
- Higher performance
- Greater security
- Cross-platform development

JavaScript vs. native code?

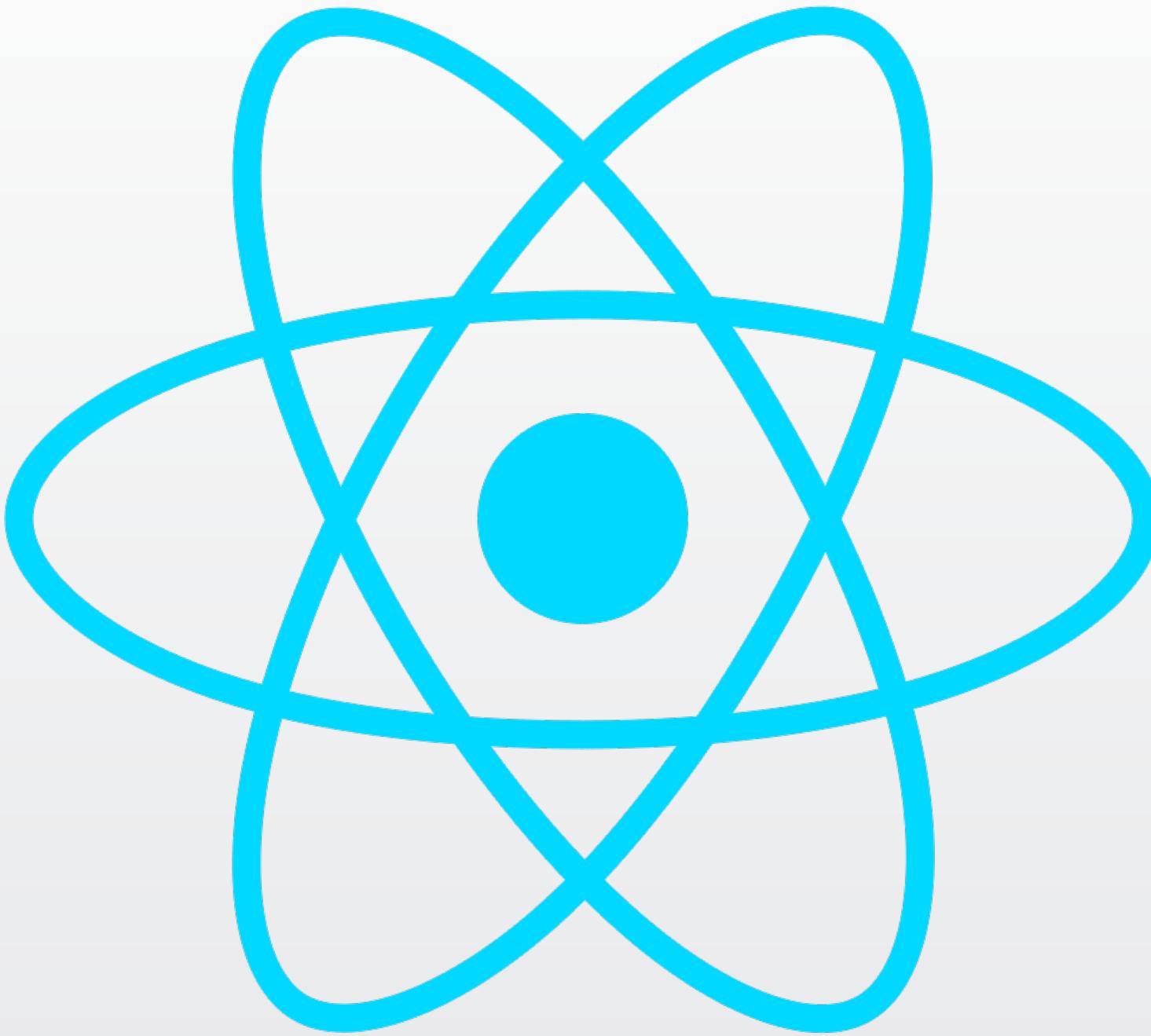


WEBASSEMBLY

Web runtime
vs. native UI?



NativeScript



React Native

native

vs. web?

Not so simple

20 years Survival Kit



Forget Web vs. Native

Tools

7

CHAPTER

Tables and Layout

A table is an orderly arrangement of data distributed across a grid of rows and columns similar to a spreadsheet. In printed documents, tables commonly serve a subordinate function, illustrating some point described by accompanying text. Tables still perform this illustrative function in HTML documents. However, because HTML alone does not offer the same layout capacities available to print designers, Web page tables also are commonly used to structure a page for layout. But unlike printed tables, HTML tables can contain information that is *dynamic*, or even interactive, such as the results of a database query. We'll see that even when their impressive layout duties are retired in favor of CSS, tables will still have an important role in the Web developer's toolbox.

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HTML UTOPIA:
**DESIGNING
WITHOUT
TABLES
USING CSS**

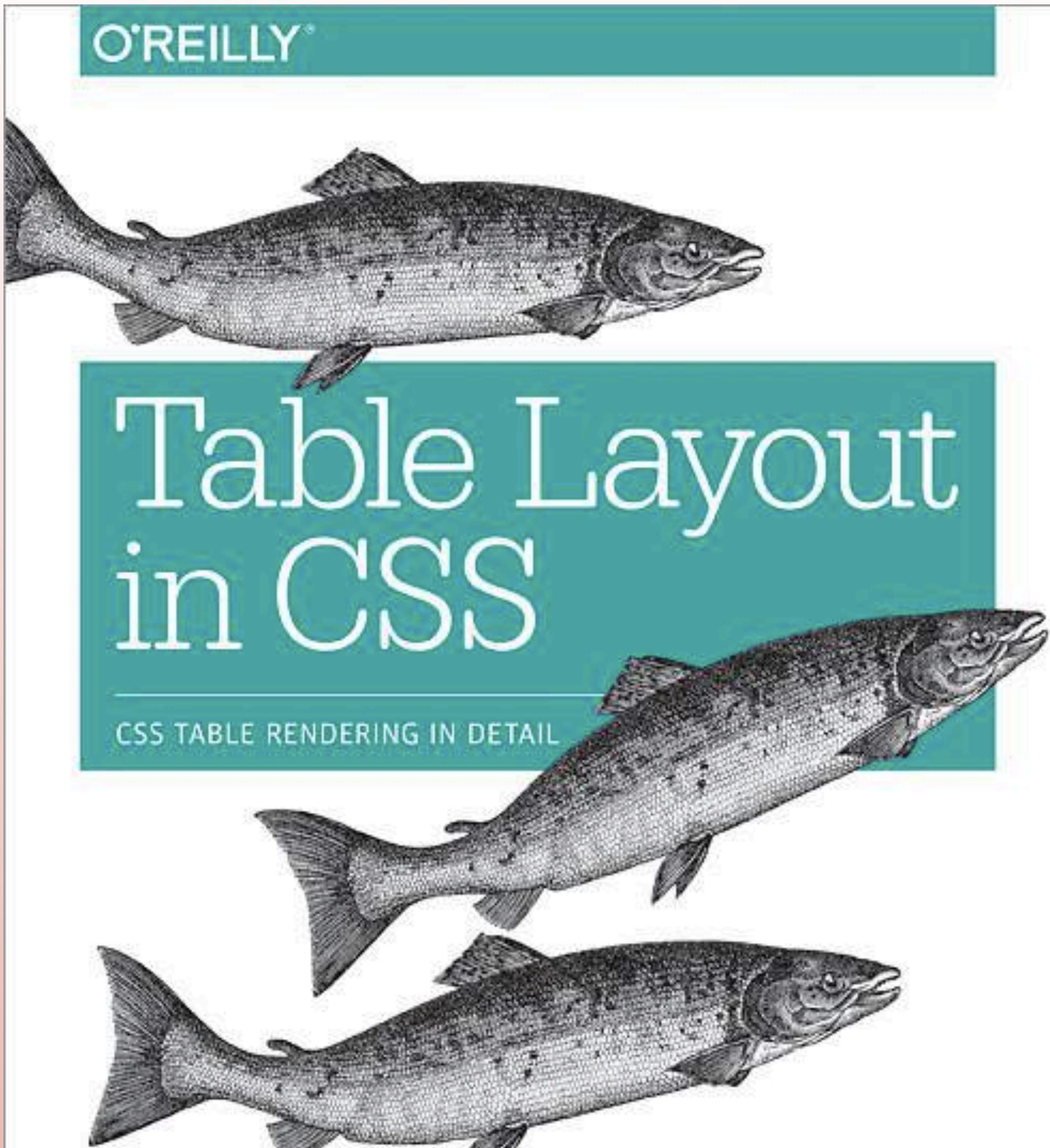
BY RACHEL ANDREW
& DAN SHAFER



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Table Layout in CSS

CSS TABLE RENDERING IN DETAIL



A Brain-Friendly Guide

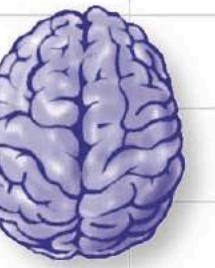
Head First jQuery



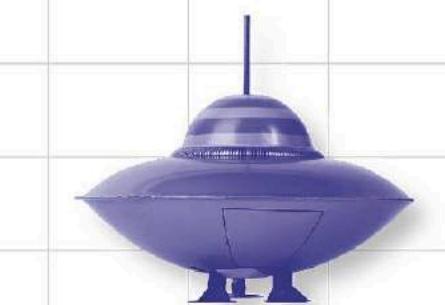
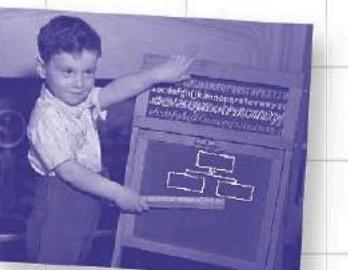
Quickly
implement
complex
HTML forms



Build web apps
without pesky
browser plugins



Write your
own custom
jQuery
functions



Put animation
and Ajax to use in
your web pages

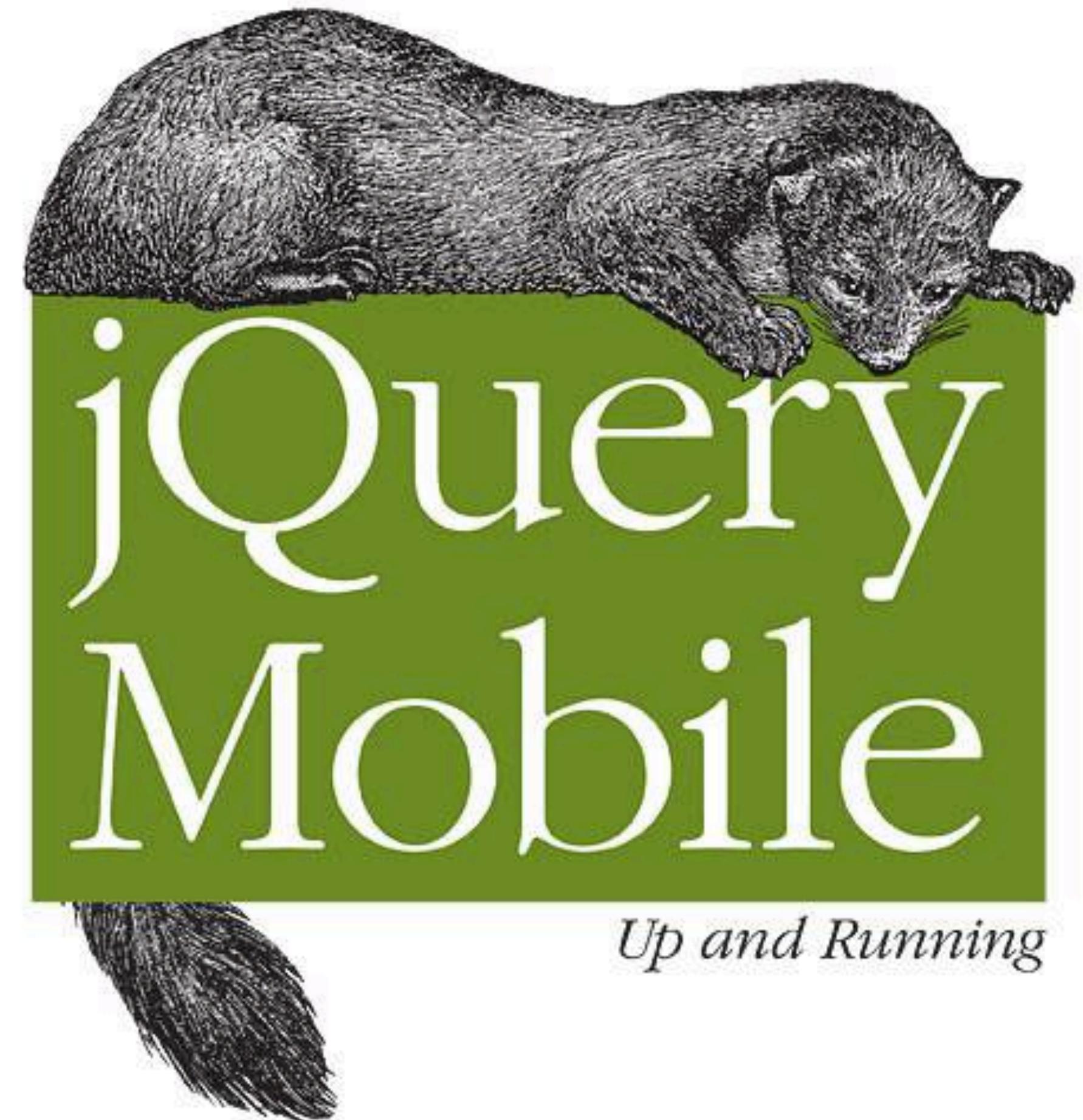


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Ronan Cranley

Using HTML5 to Design Web Apps for Tablets and Smartphones



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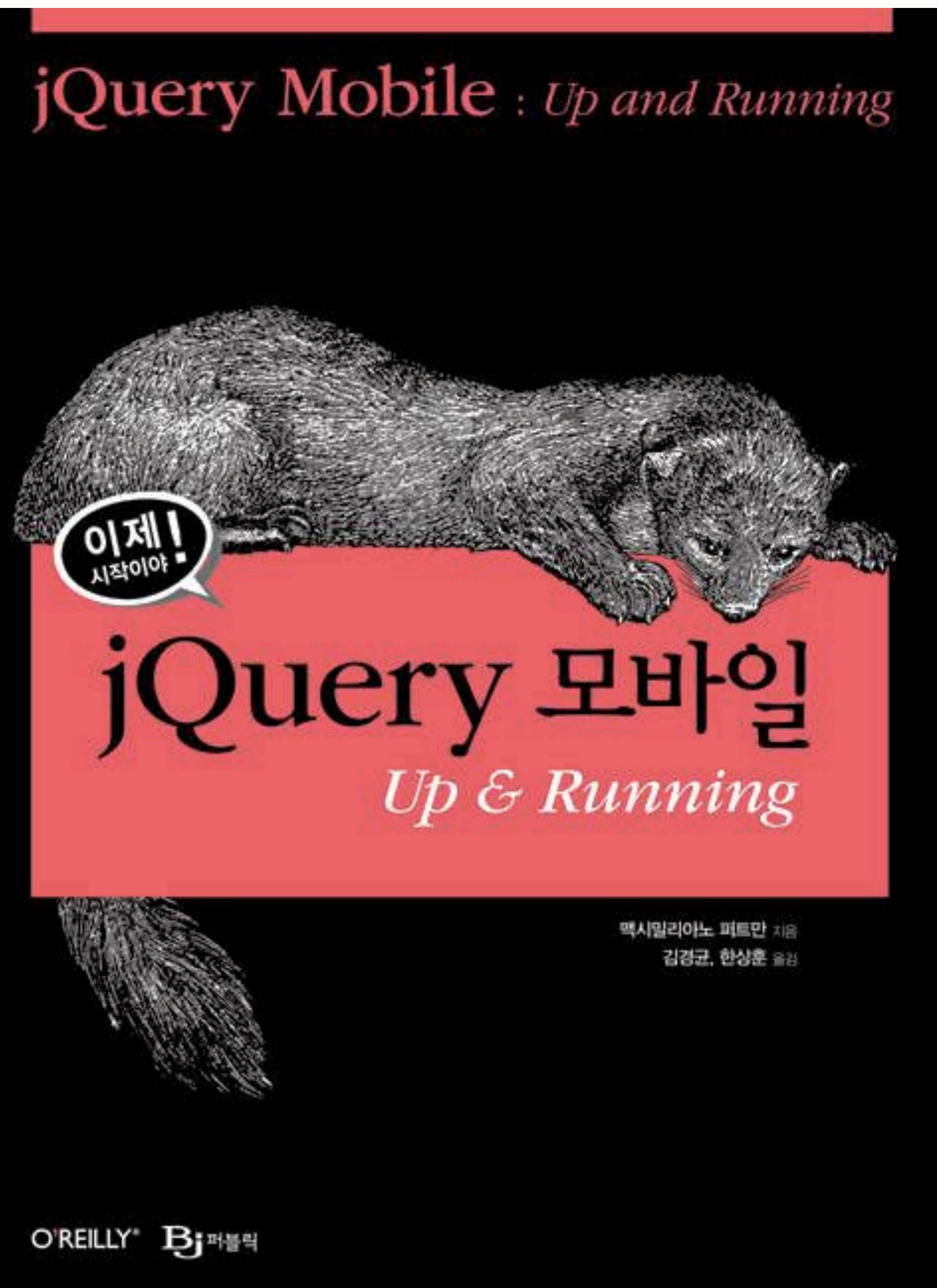
Использование HTML5 для разработки приложений для планшетов и смартфонов



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A Warrior's Guide to
ANGULARJS



Carlos Solis

Angular Essentials



Published By:



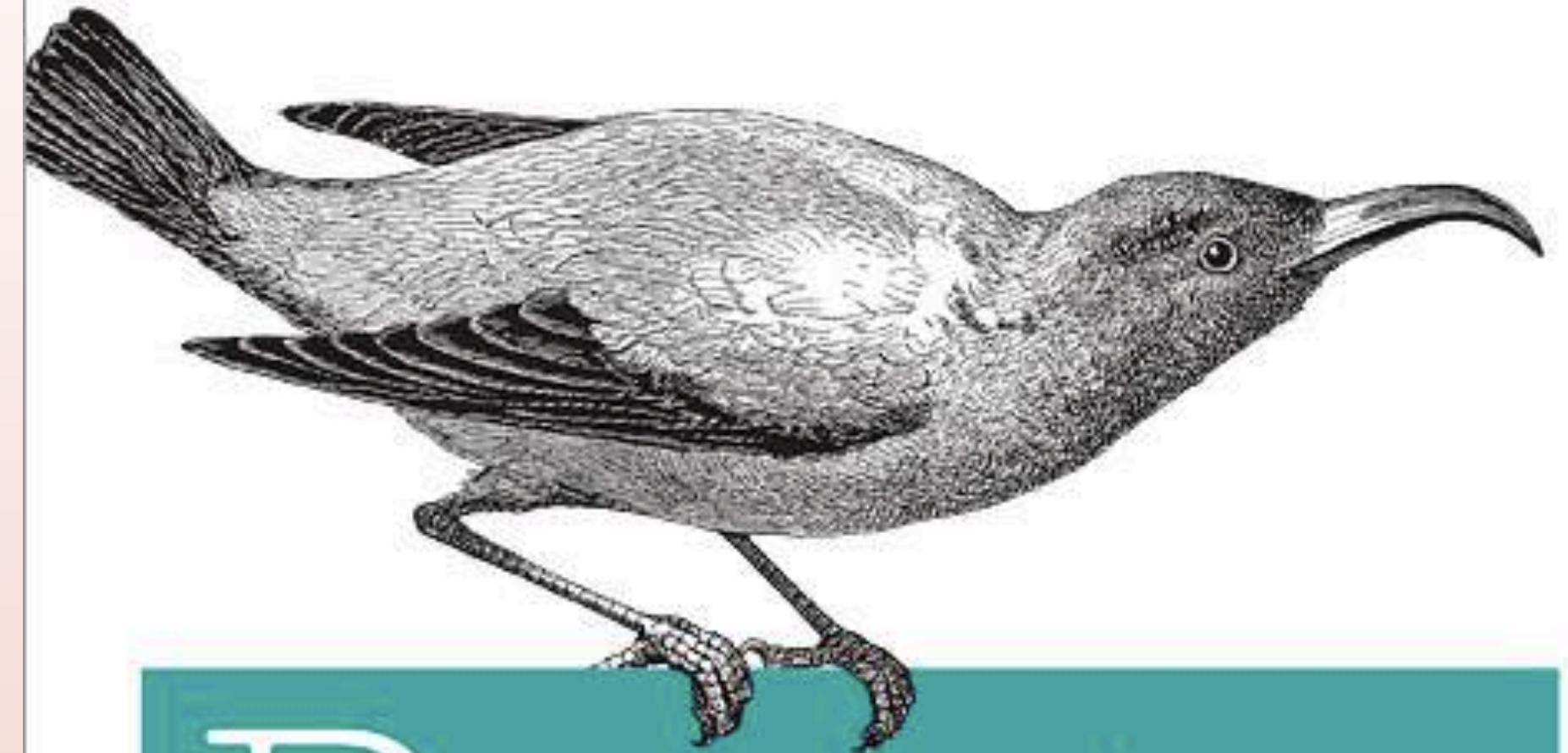
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By: Rabi Kiran, Mahesh Sabnis, Suprotim Agarwal

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React Up & Running

BUILDING WEB APPLICATIONS

Stoyan Stefanov

 vuejs / vue

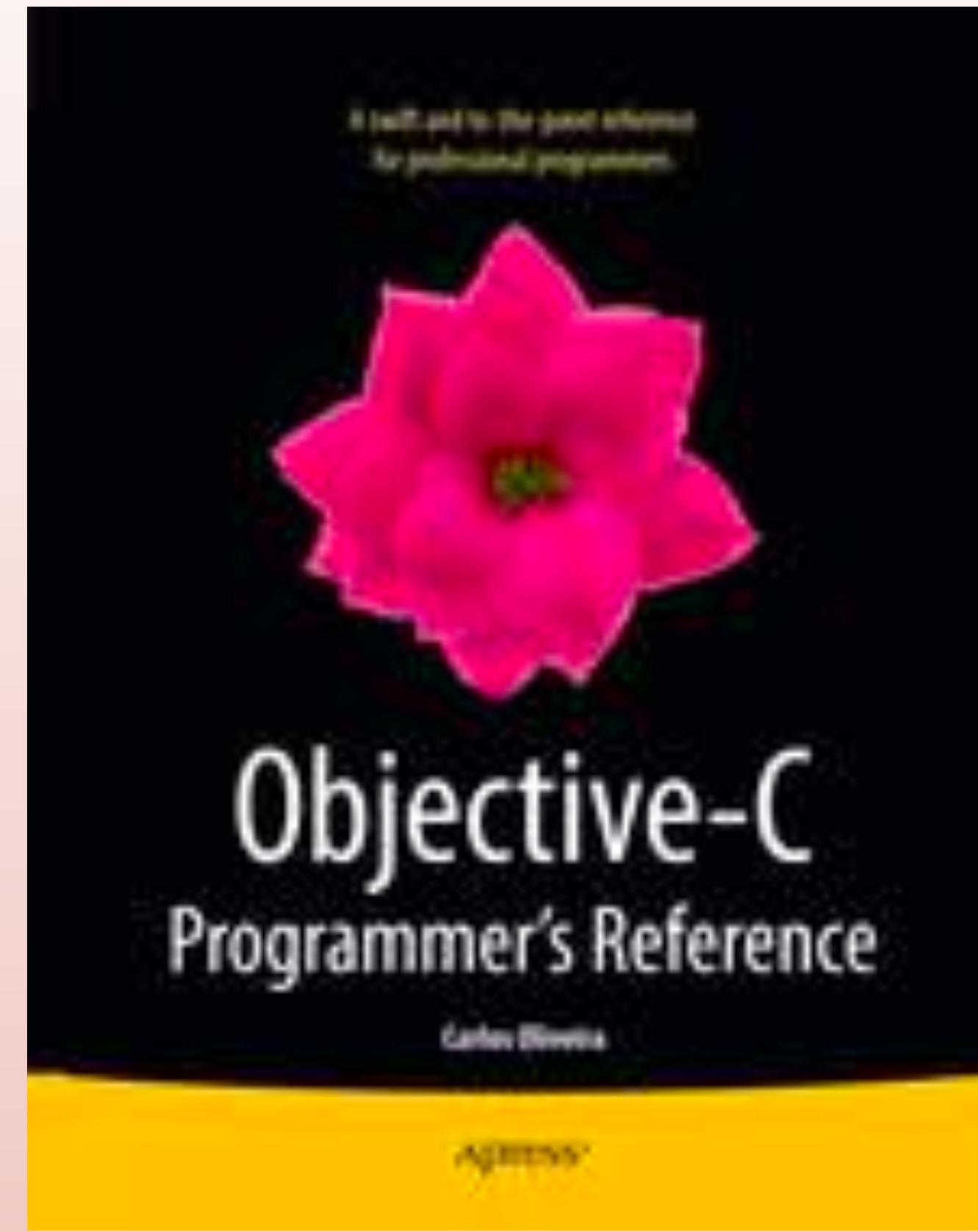
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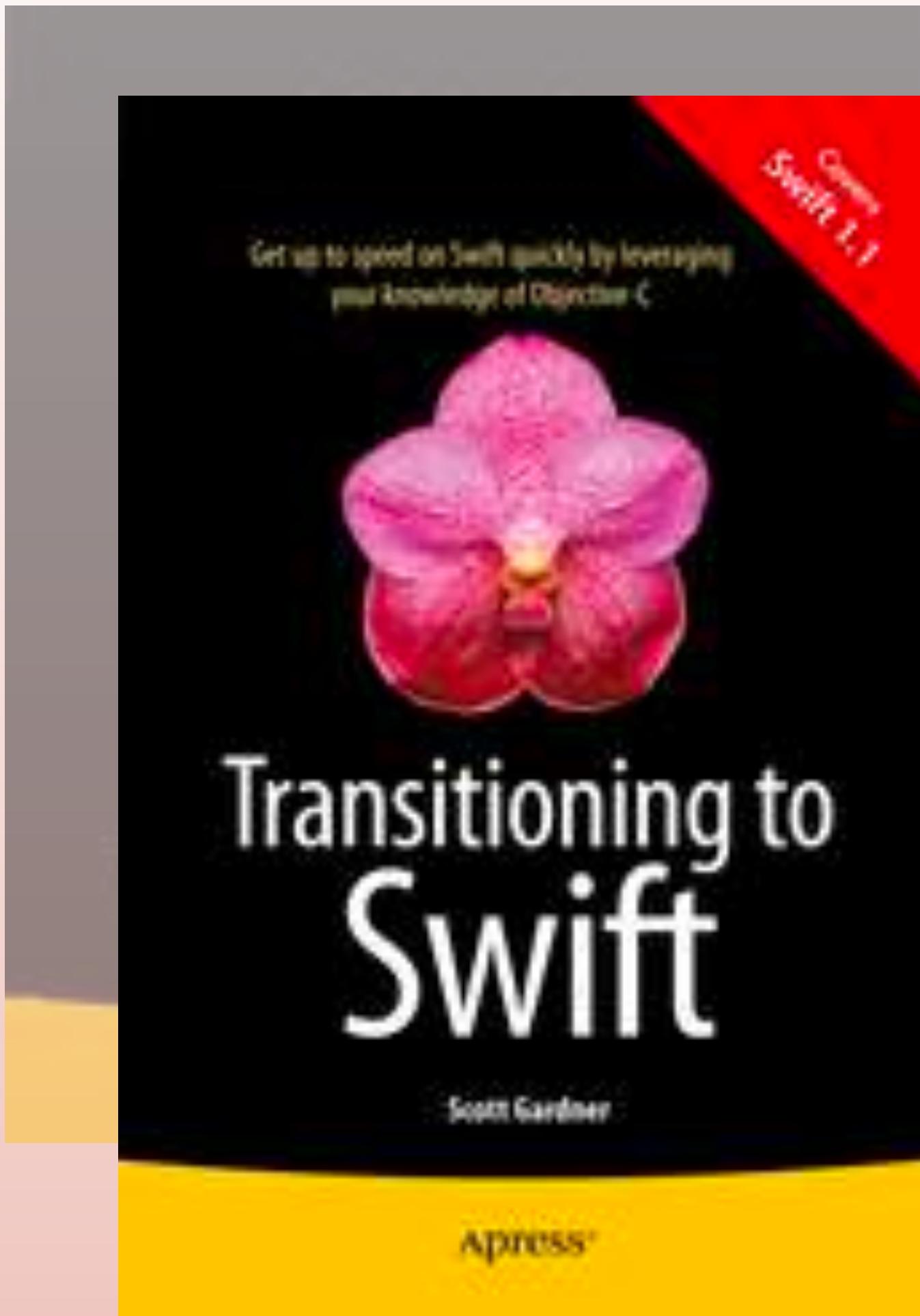
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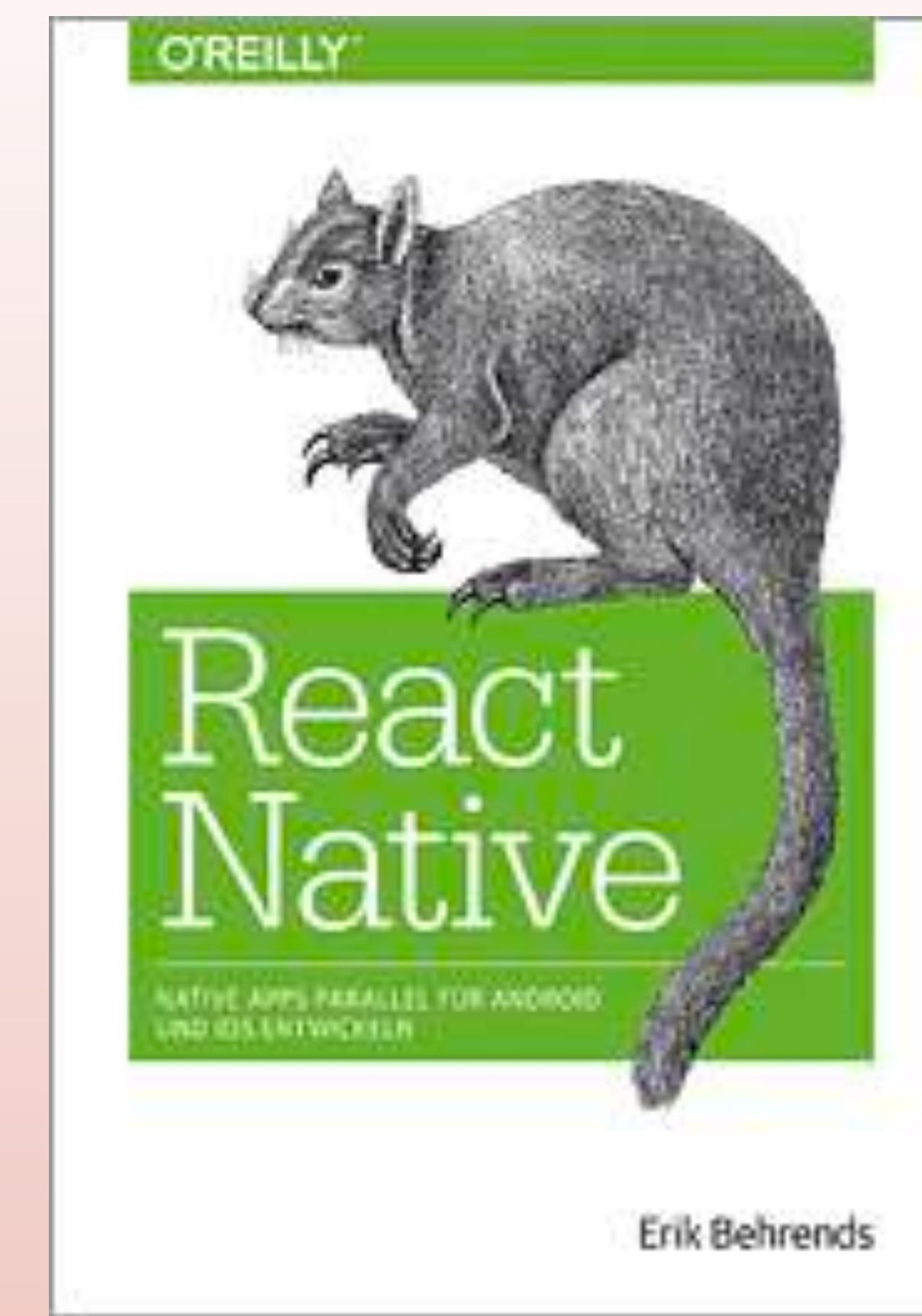
 facebook / react

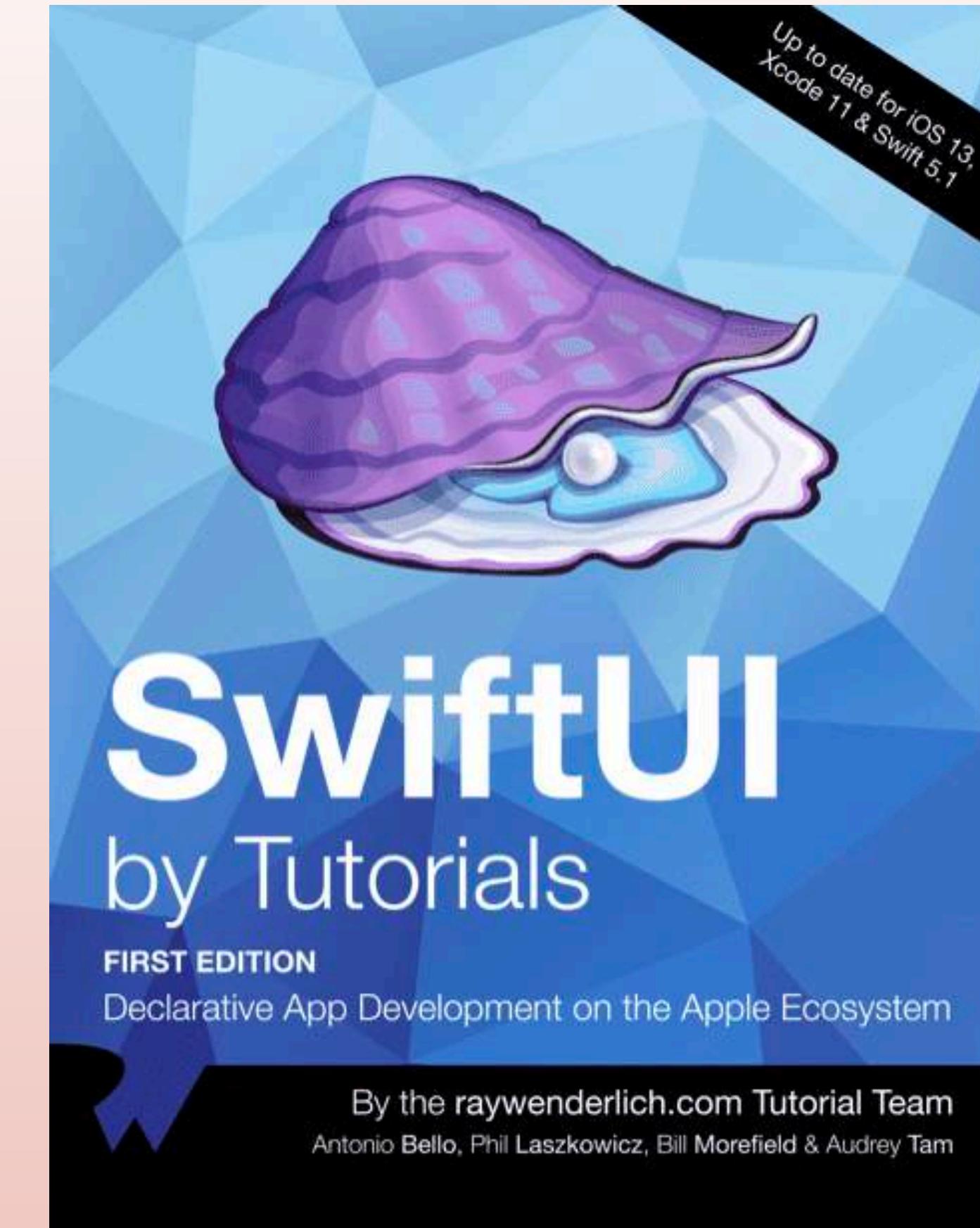
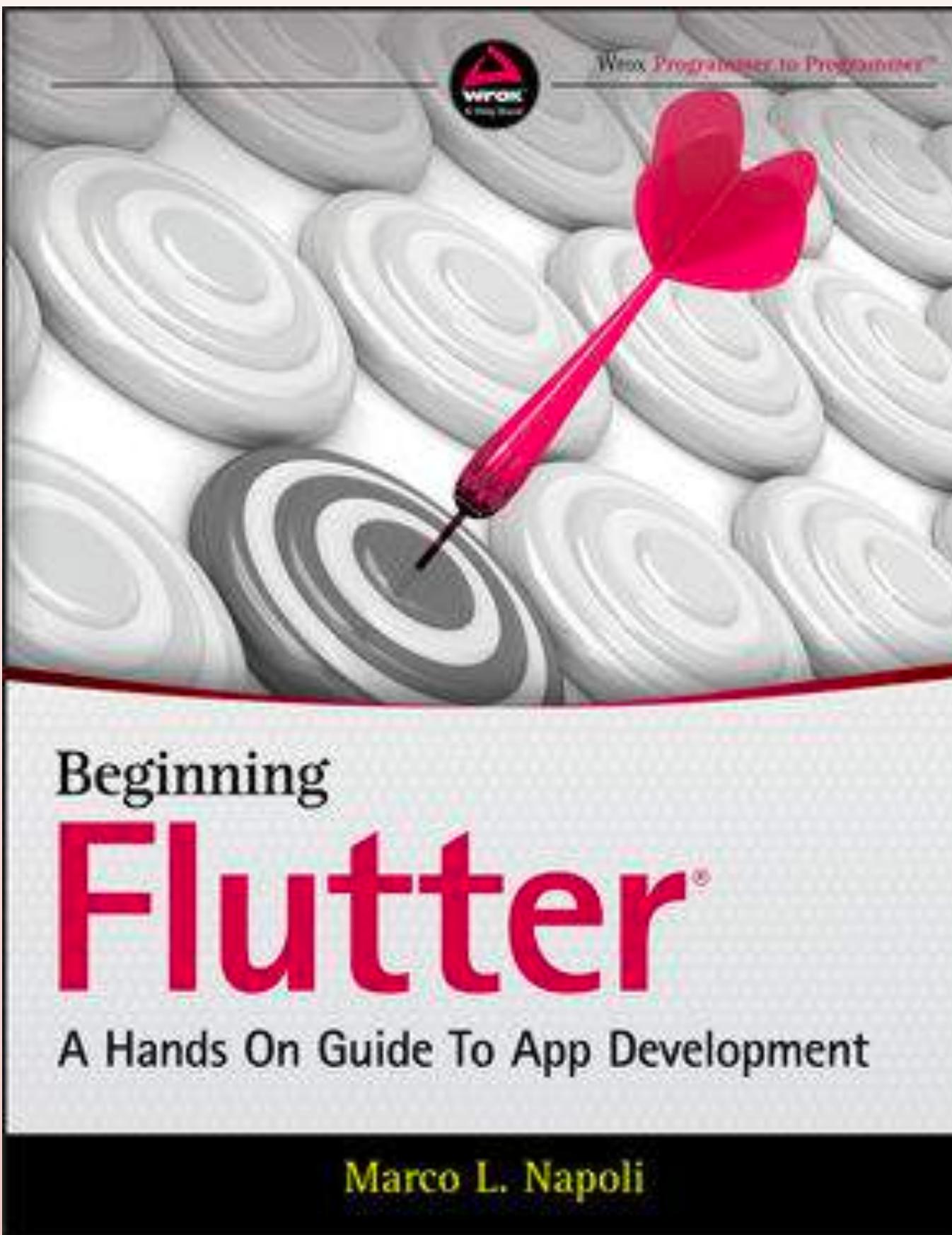
★ Star

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Tools are also
changing constantly

Don't pick
technology by
what you know

Not everything
is a nail

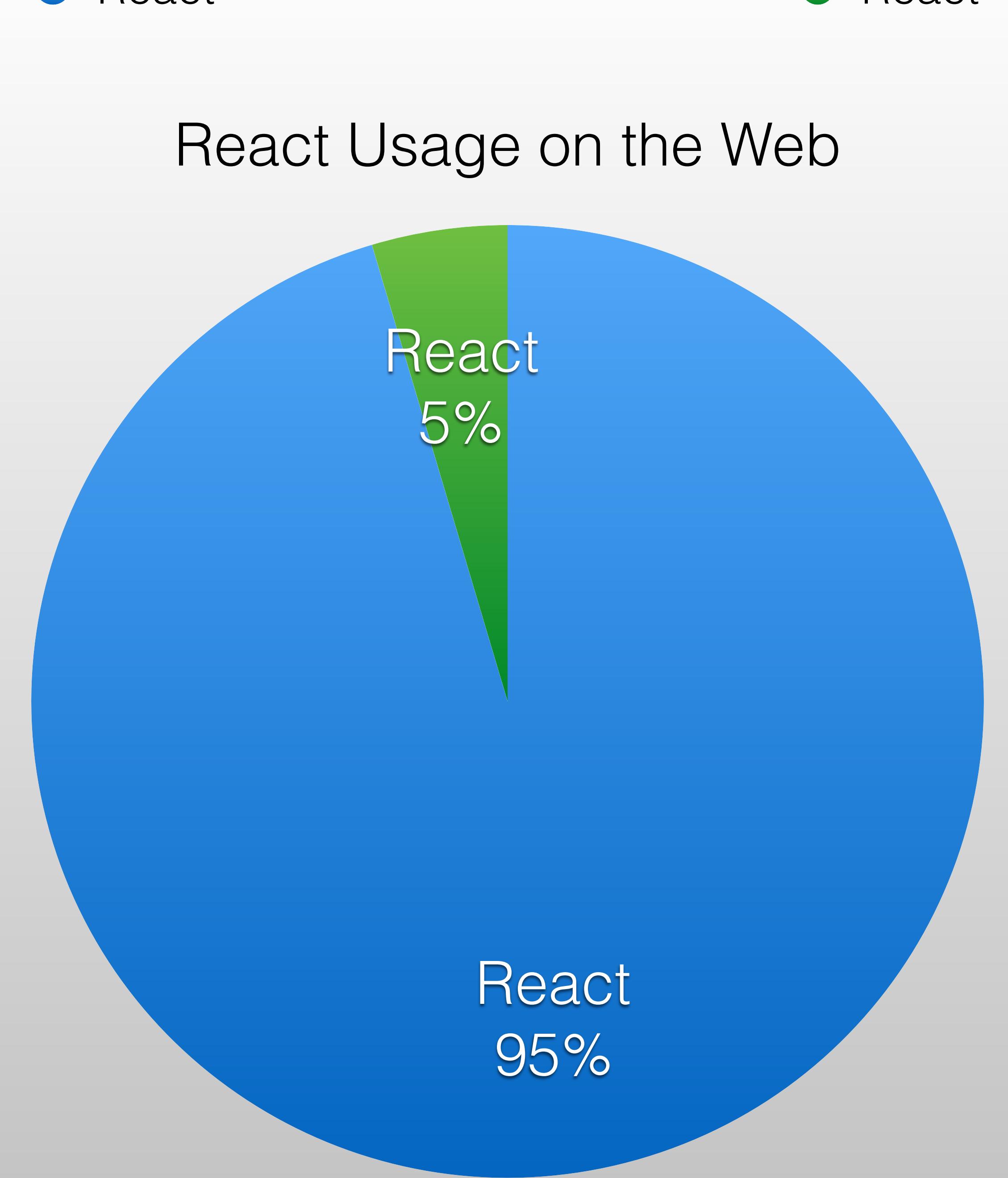
Don't pick
technology by

buzzwords

What is the most
used JS library?



ReactJS



Top JavaScript frameworks on desktop

Web Almanac 2019: JavaScript



Don't pick
technology by

What others are using

YOUR PERSONAL AIRPORT GUIDE

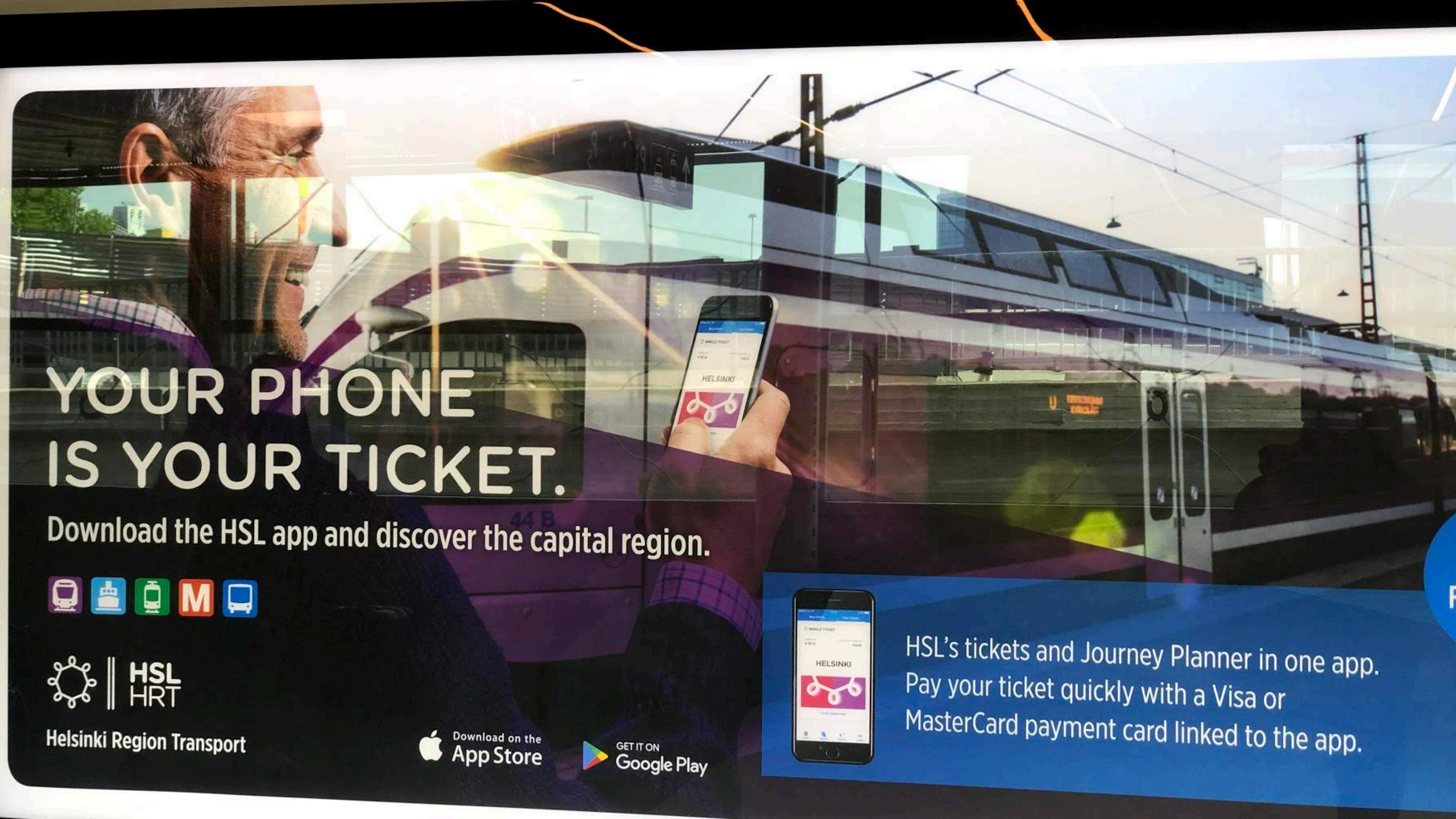
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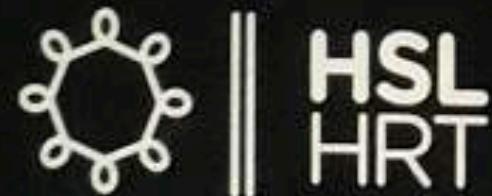
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YOUR PHONE IS YOUR TICKET.

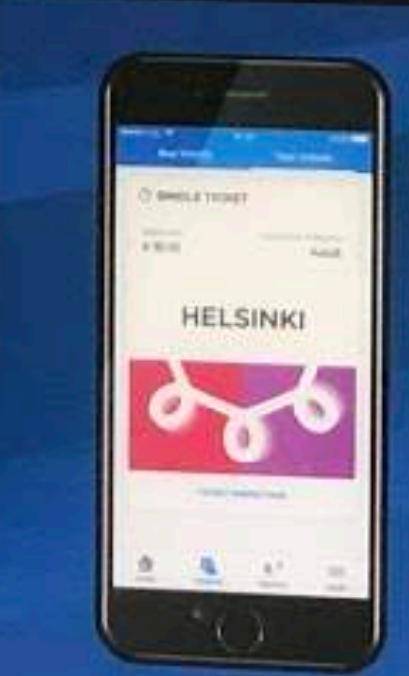
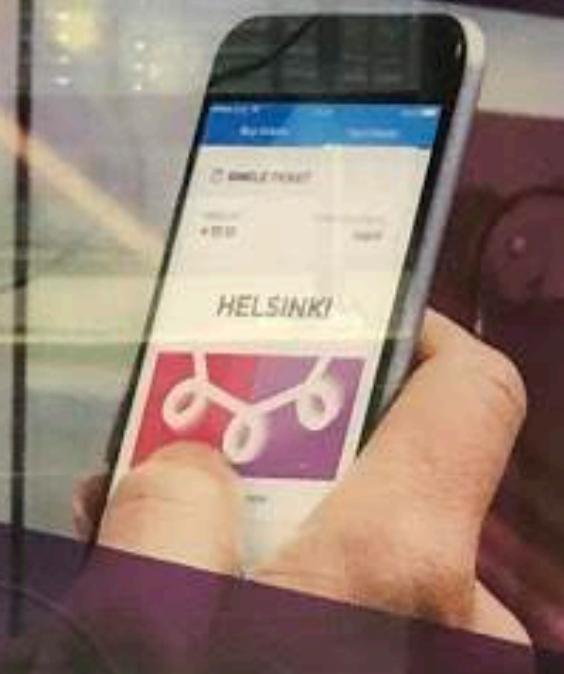
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HSL's tickets and Journey Planner in one app.
Pay your ticket quickly with a Visa or
MasterCard payment card linked to the app.

A woman with long blonde hair, wearing a grey hoodie, is looking down at her smartphone. She is standing in what appears to be a subway or train station platform. In the background, there are train tracks and station infrastructure. The phone screen displays a mobile application interface for New York's Penn Station. The app shows a map of the station with various icons for Banking & Atms, Entrance & Exits, and Food & Beverage. Below the map, there are several location points: Amtrak + NJ Transit waiting area (R... ft), Amtrak Customer Service (8 ft), Amtrak Ticket Machines (QuickTrak) (in Lower Level 2), Amtrak Ticket Machines (QuickTrak) (7 ft), Amtrak Ticket Machines (QuickTrak) (7 ft), and Amtrak Ticketing Desks. A large banner at the top of the app interface reads "Now there is a new way to FindYourWay around New York's Penn Station".

20:08 100 %

Penn Station

Now there is a new way to

FindYourWay

around New York's Penn Station

Banking & Atms Entrance & Exits Food & Beverage

Amtrak + NJ Transit waiting area (R... ft)

Amtrak Customer Service (8 ft)

Amtrak Ticket Machines (QuickTrak) (in Lower Level 2)

Amtrak Ticket Machines (QuickTrak) (7 ft)

Amtrak Ticket Machines (QuickTrak) (7 ft)

Amtrak Ticketing Desks

GET IT ON Google Play

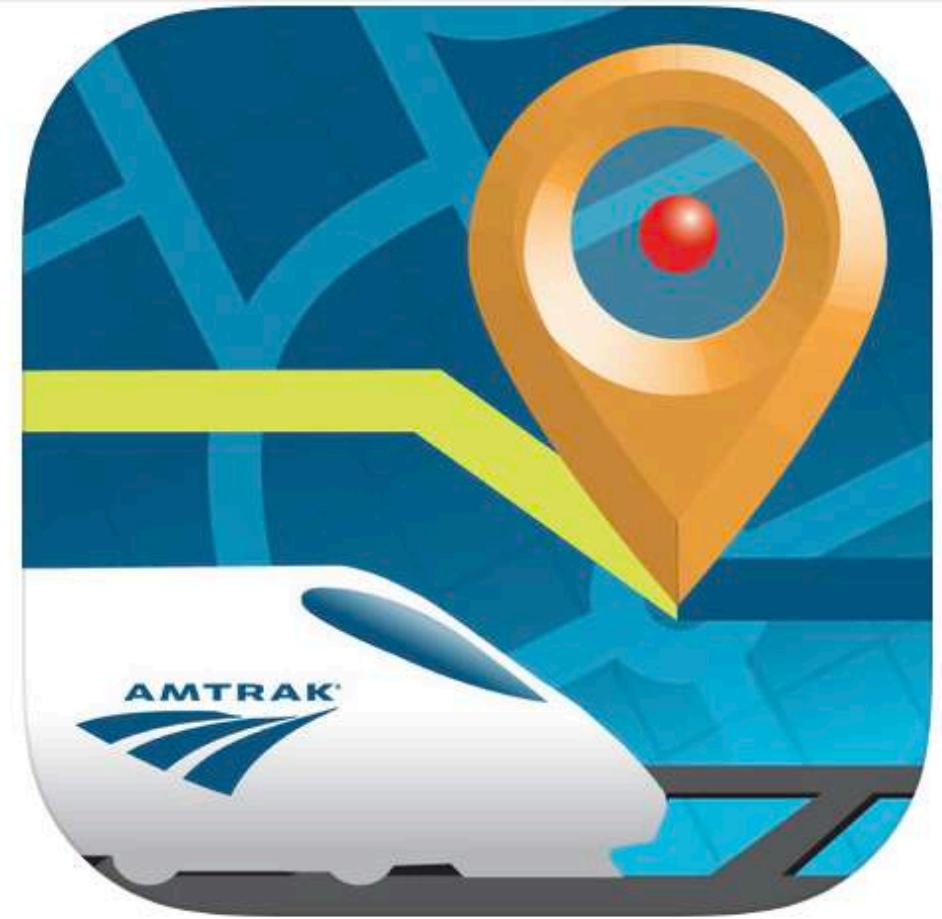
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ATMs

Food

NAVIGATE

New York Penn Station



FindYourWay with Amtrak

4+

Only at New York Penn Station

Amtrak

#180 in Navigation

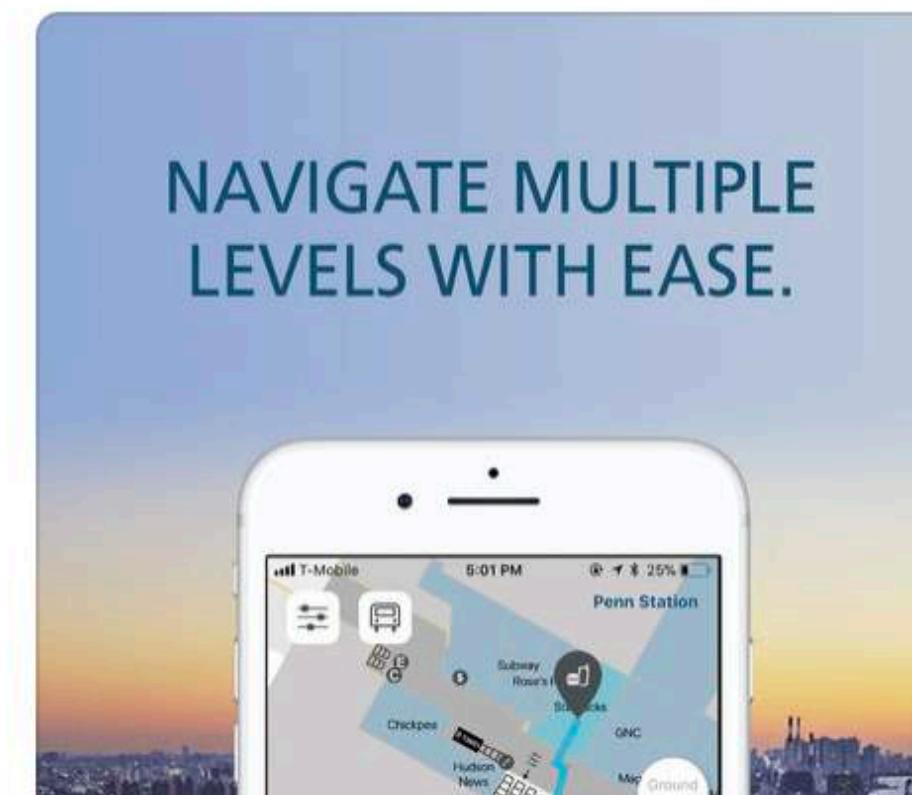
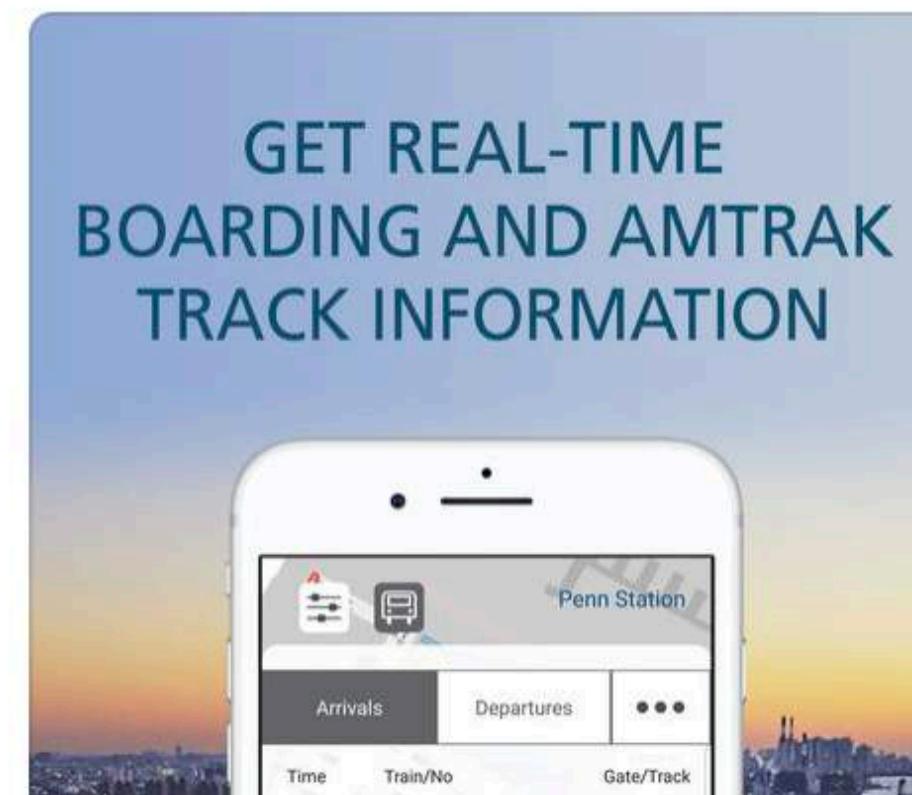
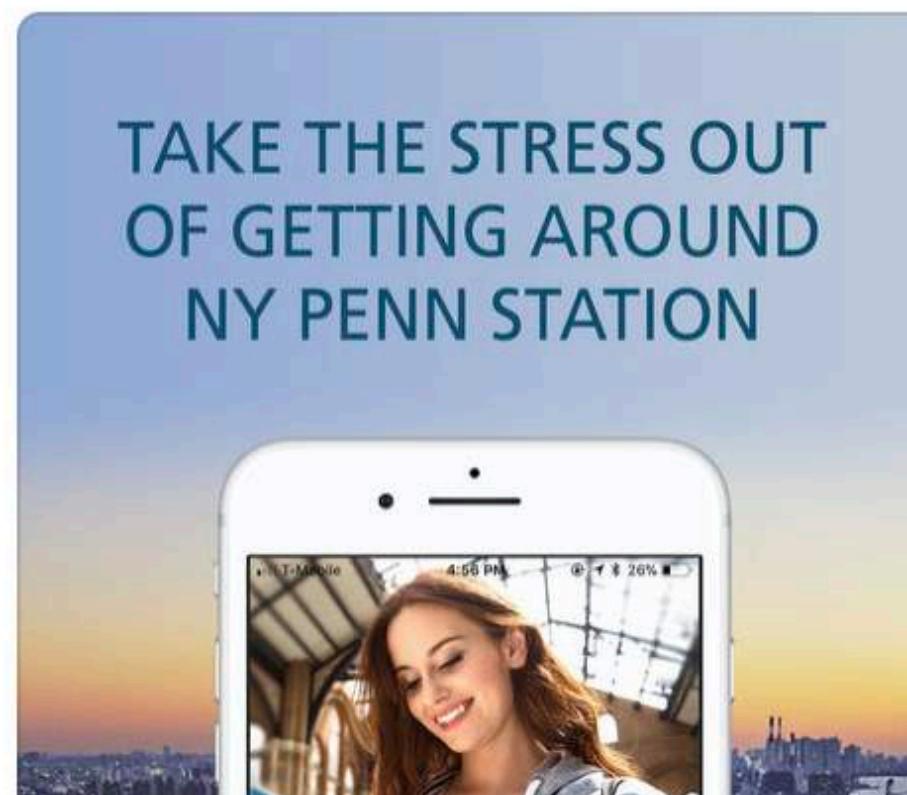
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Size 49.9 MB

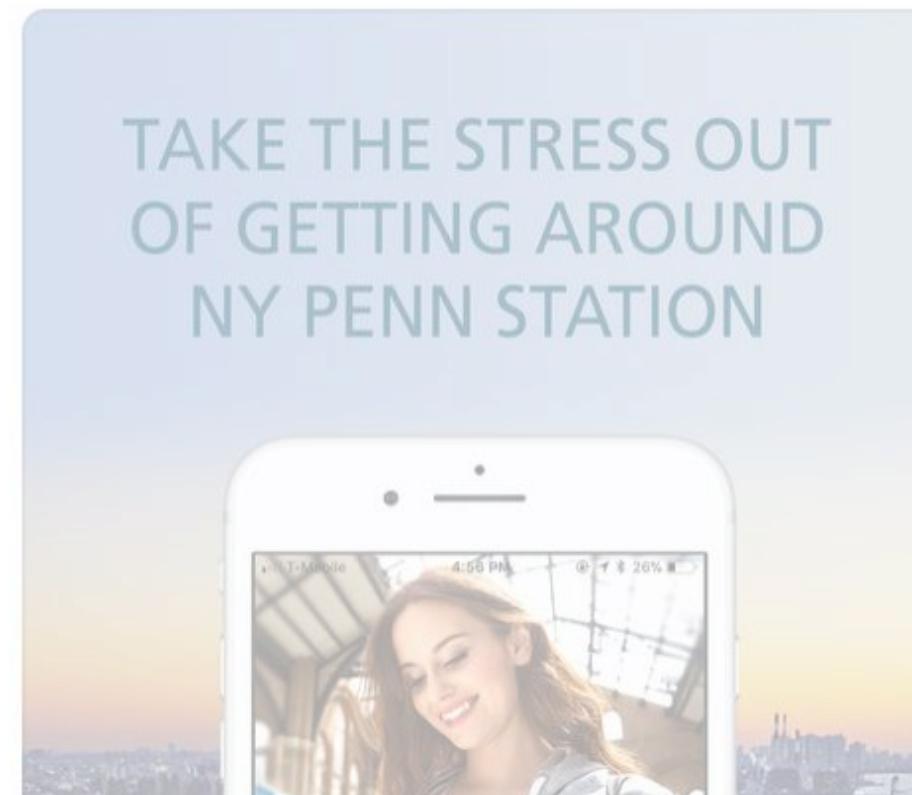
Category Navigation

iPhone Screenshots

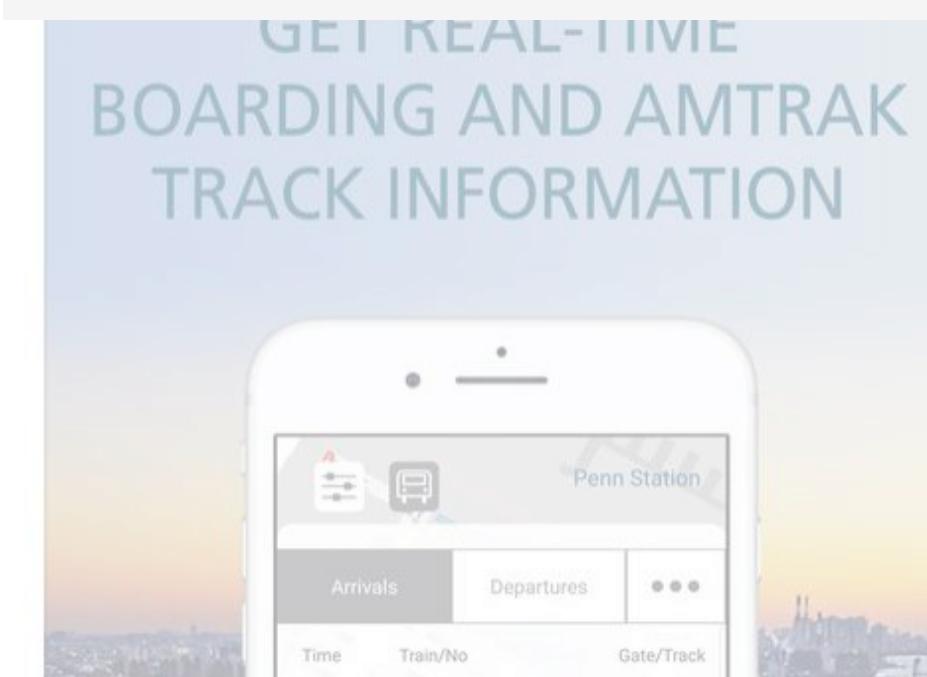




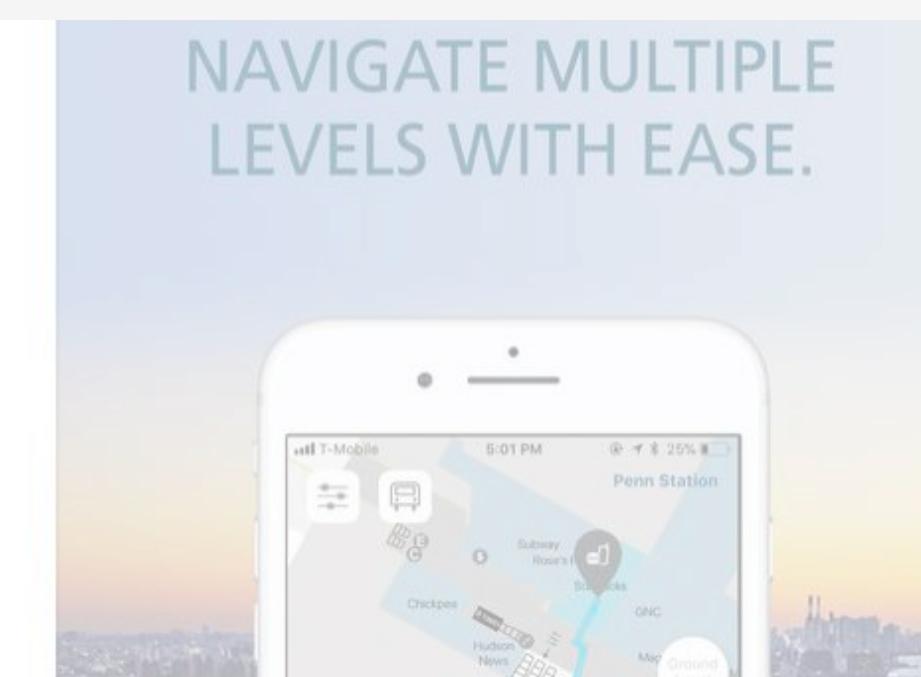
iPhone Screenshots



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OF GETTING AROUND
NY PENN STATION



GET REAL-TIME
BOARDING AND AMTRAK
TRACK INFORMATION



NAVIGATE MULTIPLE
LEVELS WITH EASE.

Find My Way with Amtrak

★★★★★

AmtrackNYCtrip, 04/09/2019

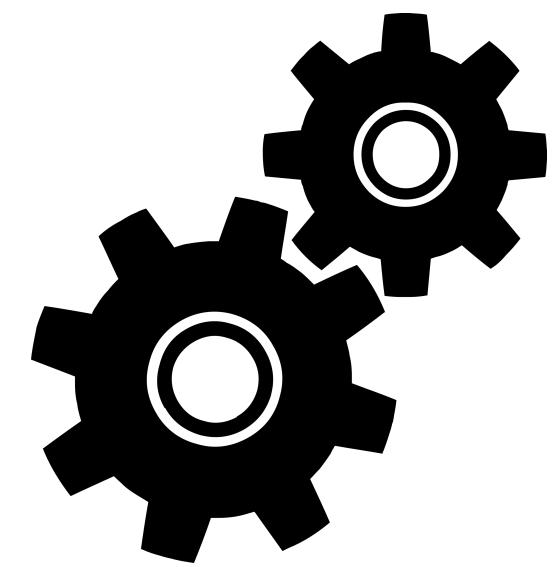
Total crap

Did not perform as advertised. It lead me twice to a wrong area, almost missed my train! There are no actual directions, it is a general map with a line of 'where to go'. It does not tell you 'go to lower level' or 'take a staircase down' or anything. And the station looks very different from the map, which is more like a sketch. The Information booths and Penn Station employee helped me much better.



PWA

Progressive Web Apps



DEPLOY MACHINE LEARNING WITH TENSORFLOW.JS

The voice of web design

net

Issue 307 August 2018 netmagazine.com

*DESIGN PROCESSES

AMP UP YOUR AGILE DESIGN

Stay lean, keep iterating and be nimble

→ WELCOME TO THE MOBILE EVOLUTION ↗

↗ HOW TO UNITE APP AND WEB DESIGN SEAMLESSLY TOGETHER →

P W A

GET AHEAD WITH A HEADLESS CMS

- BUILD UPON OLD ARCHITECTURE
- LEARN A11Y FROM PSYCH 101

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WEB DESIGN SEAMLESSLY TOGETHER ➔

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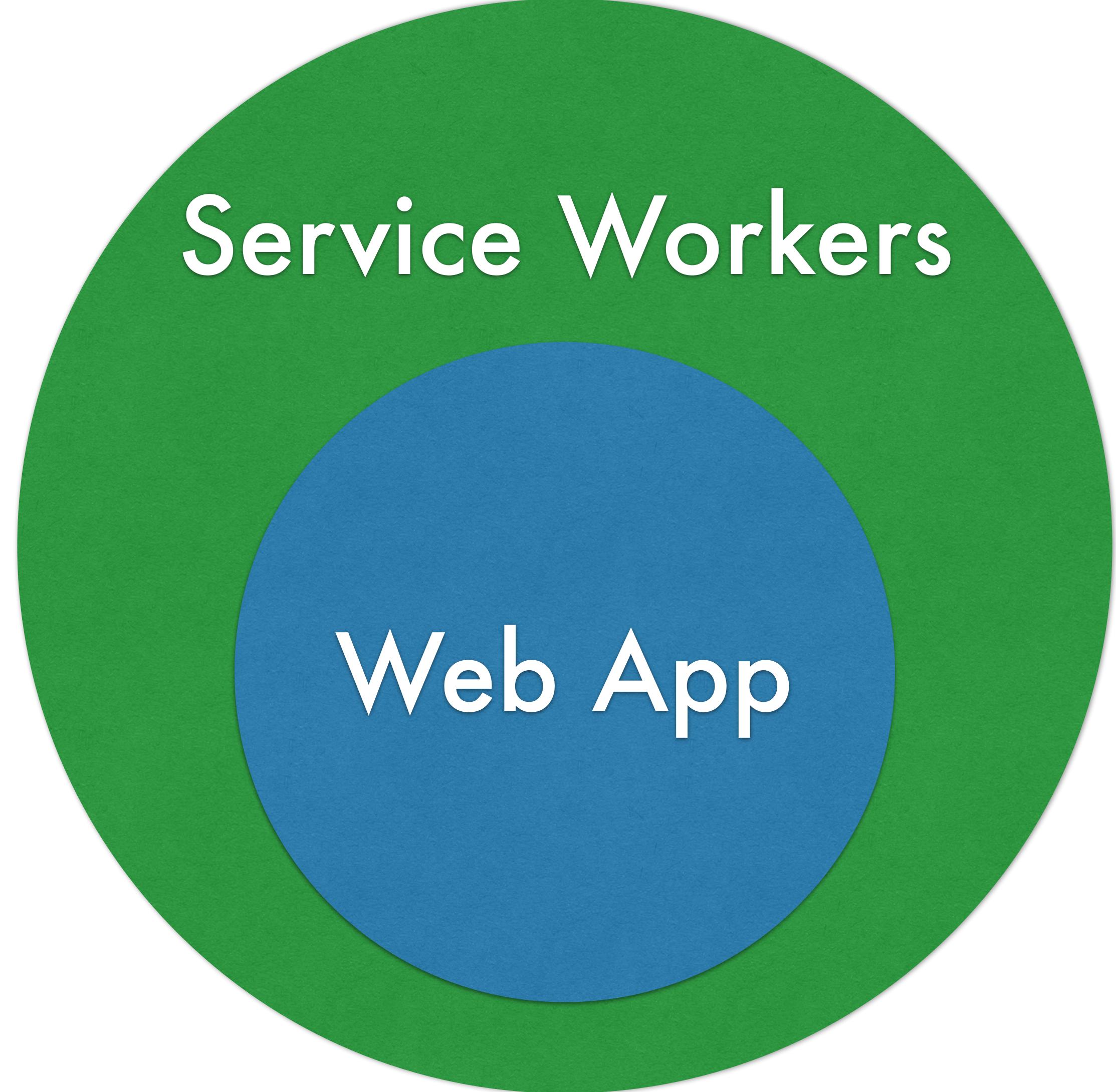
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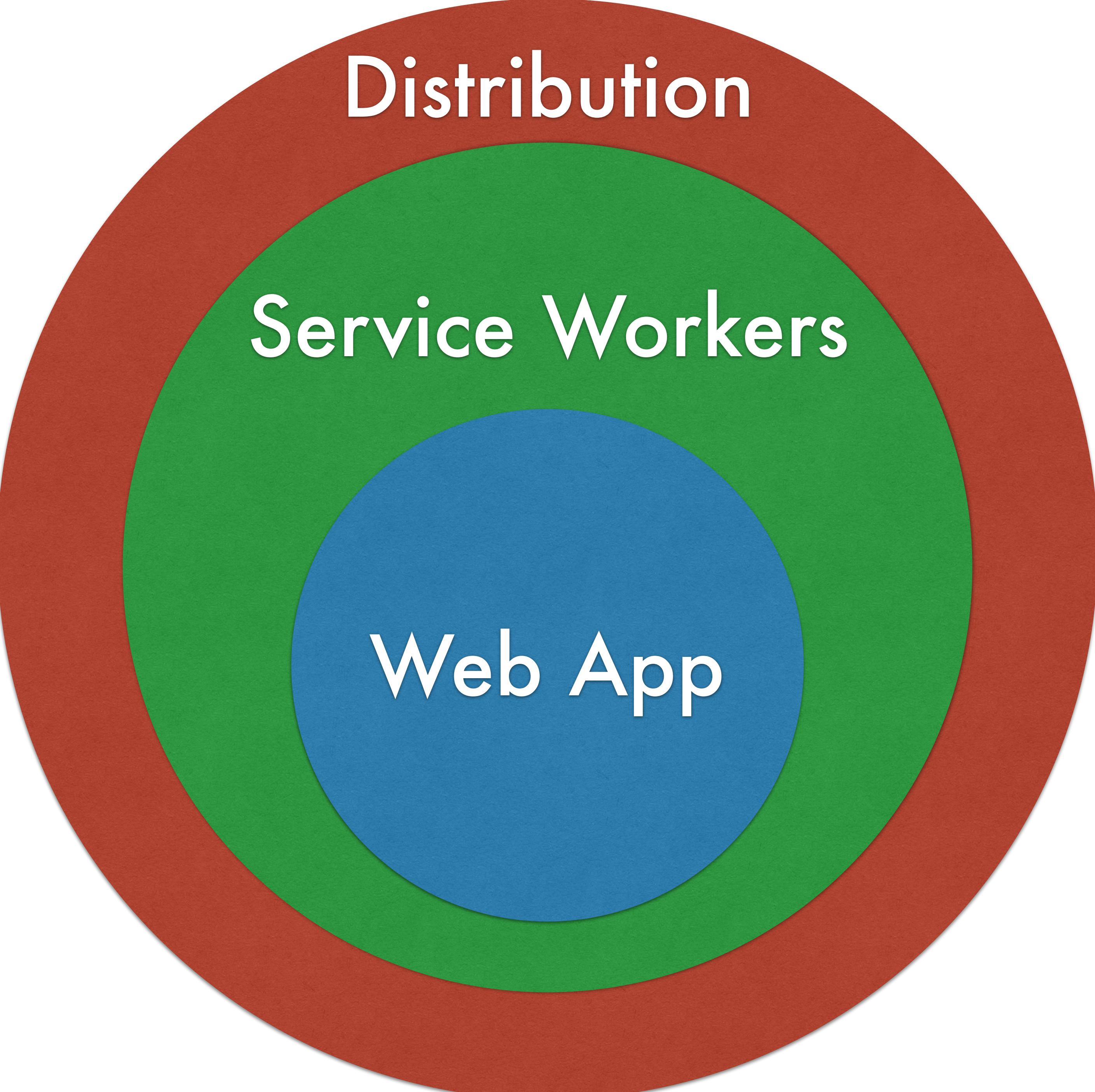


Web App



Service Workers

Web App



Distribution

Service Workers

Web App

Distribution Models



Browser



Enterprise



App store





Maximiliano Firtman @ Lond...

@firt

81% of users can install a PWA from the browsers they use.



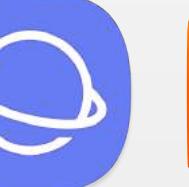
92% of total mobile web users



69% of total desktop web users

3:05 PM - 13 Mar 2019

PWA Support - Mobile

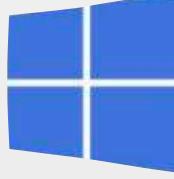
android      



Only from stores

PWA Support - Desktop OS

chromebook

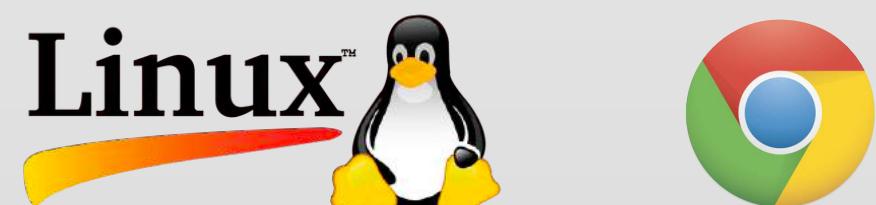

Windows 10




Win 7 / 8.x




macOS


Linux™




PWA is the right
platform for
many apps

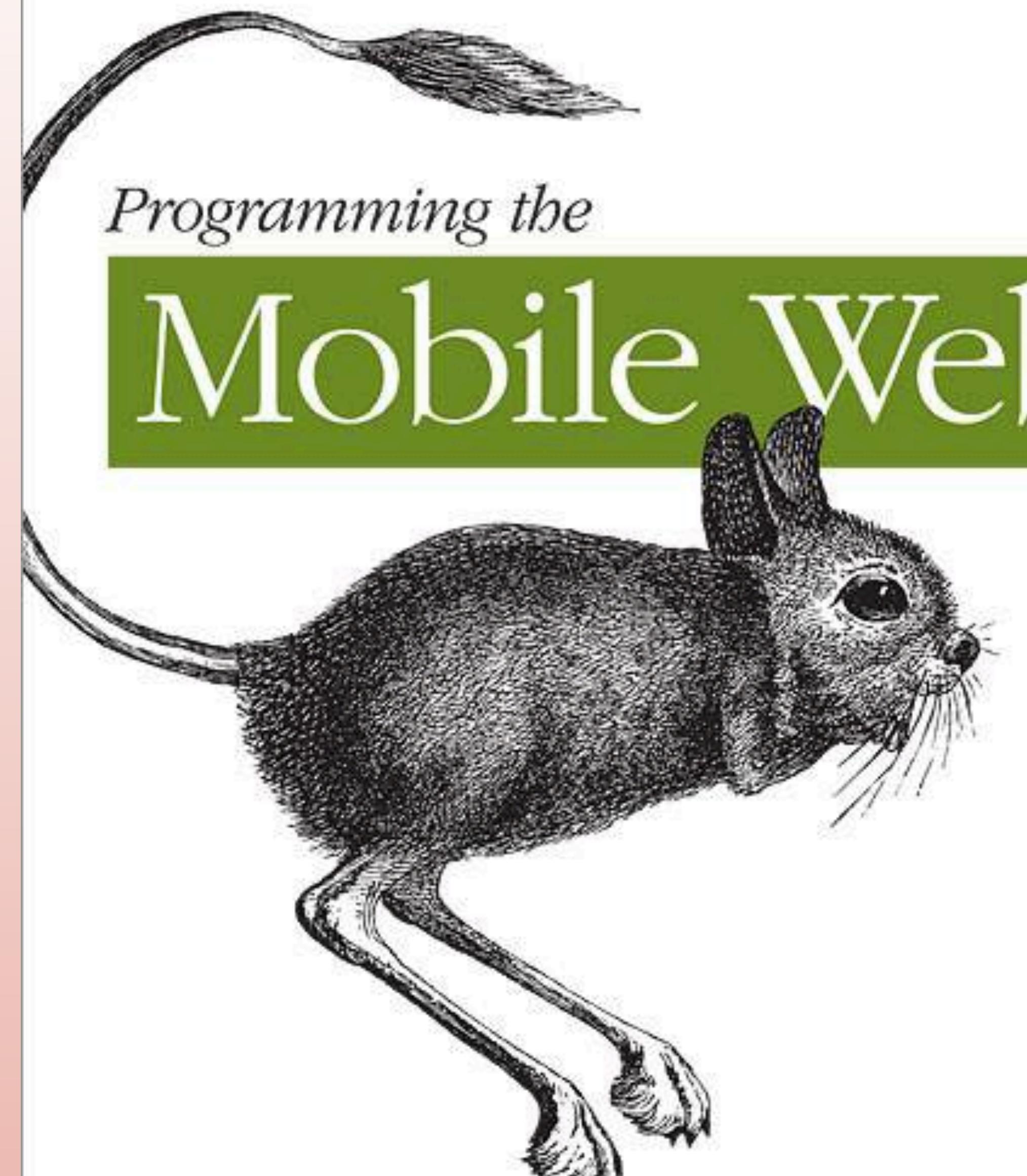
Use right
Tools

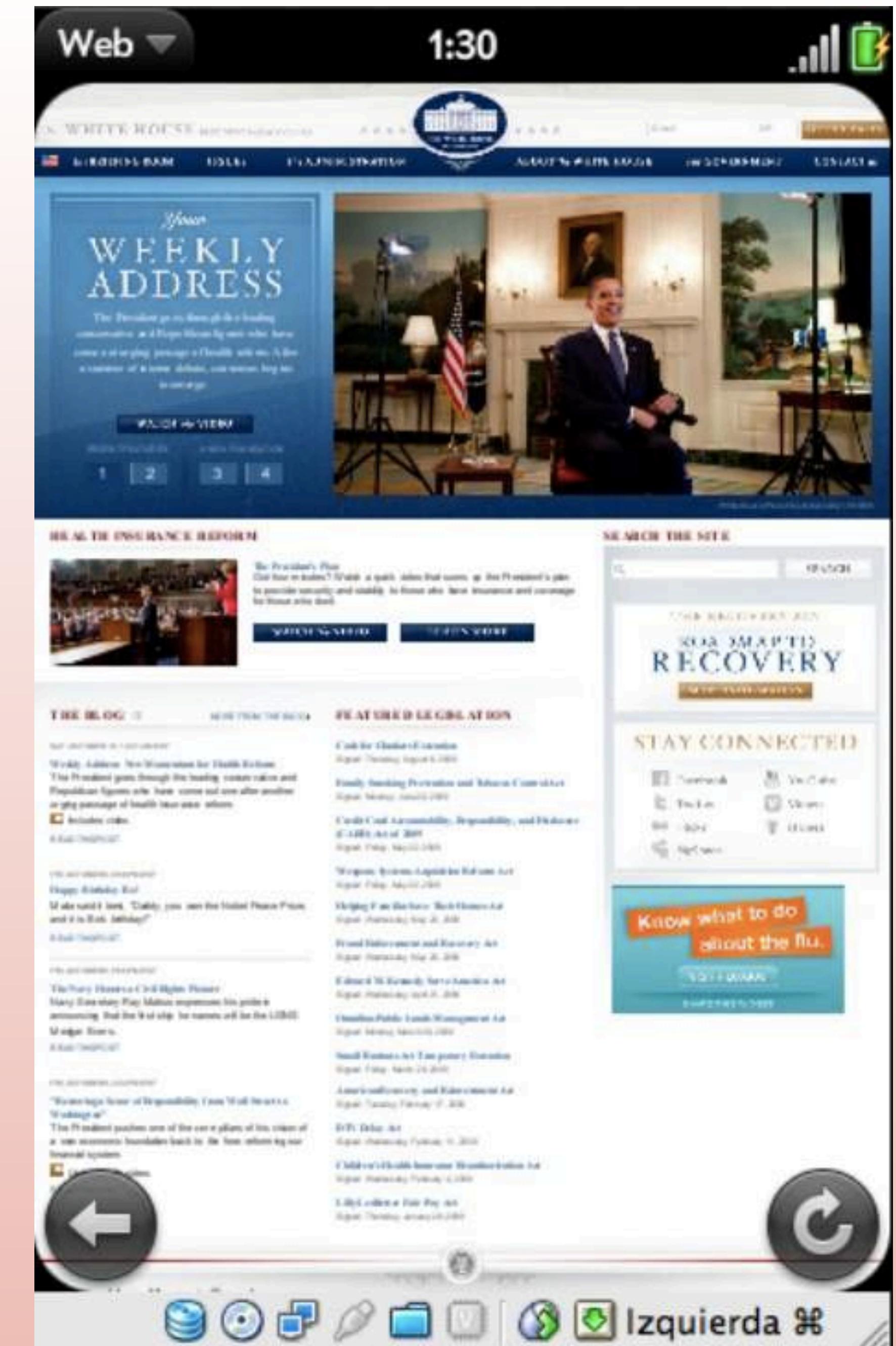


Mobile

*Reaching Users on iPhone, Android,
BlackBerry, Symbian, and more*

Programming the
Mobile Web







356 pixels

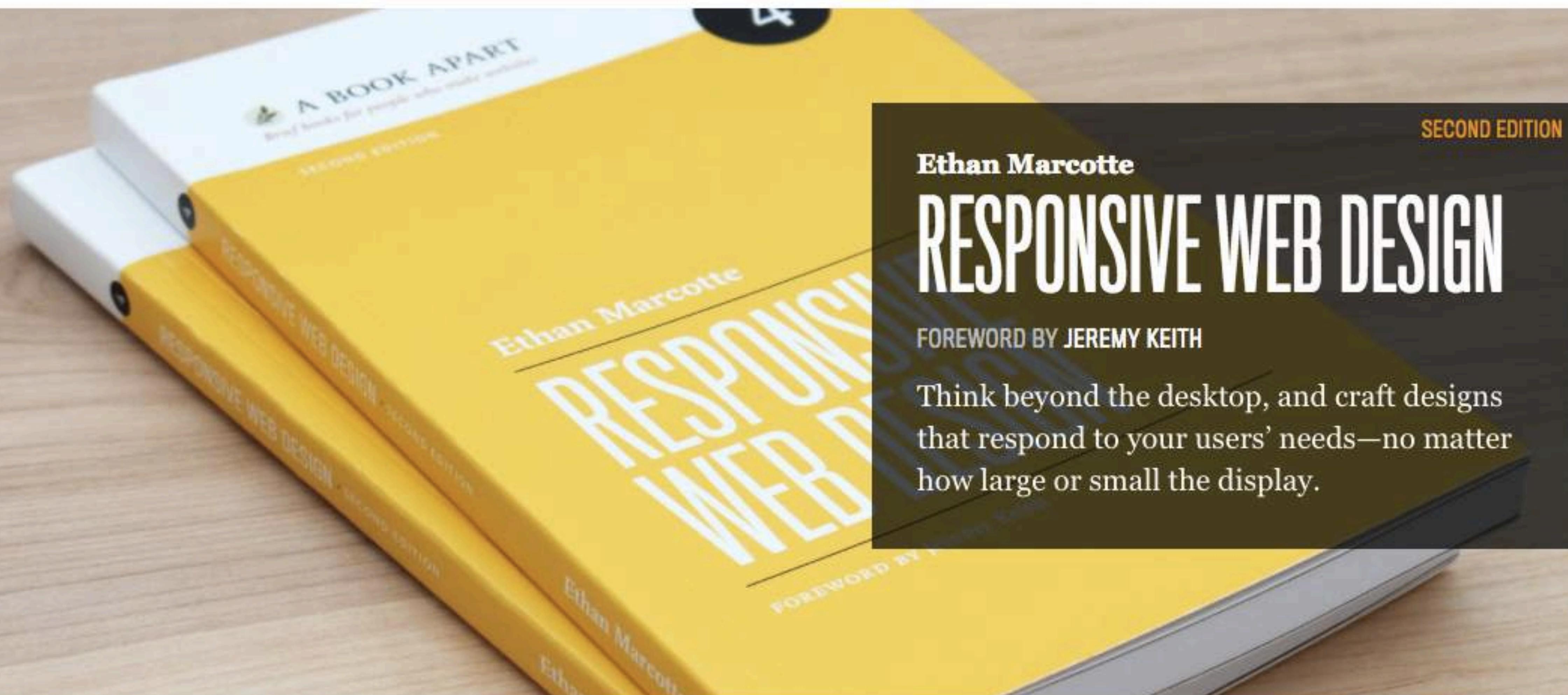
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BlackBerry, Windows Phone, and more*

2nd Edition
Includes HTML5

Programming the
Mobile Web







Ethan Marcotte
RESPONSIVE WEB DESIGN
SECOND EDITION

FOREWORD BY JEREMY KEITH

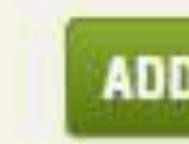
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You May Be Losing Users If Responsive Web Design Is Your Only Mobile Strategy

ABOUT THE AUTHOR

He is a mobile+web developer, consultant, trainer and author of the books [Programming the Mobile Web \(2nd. edition\)](#), [Up and Running: jQuery Mobile](#) and the ...

QUICK SUMMARY You resize the browser and a smile creeps over your face. You're happy: You think you are now mobile-friendly, that you have achieved your goals for the website. Let me be a bit forward before getting into the discussion: **You are losing users and probably money** if responsive web design is your entire goal and your only solution for mobile. The good news is that you can do it right. In this article, we'll cover the relationship between the mobile web and responsive design, starting with how

19 min read

Mobile, Performance, User Experience, Responsive Web Design

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High Performance Mobile Web

BEST PRACTICES FOR OPTIMIZING
MOBILE WEB APPS

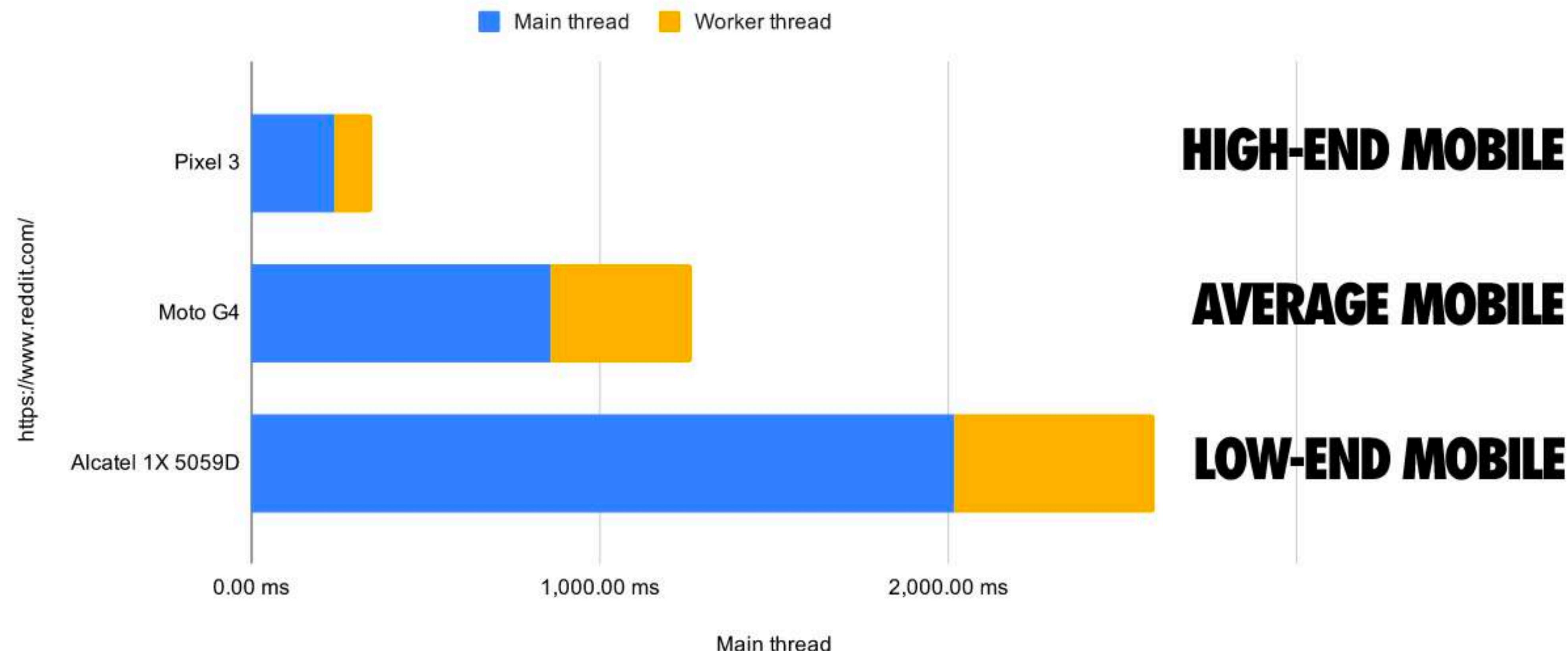


Maximiliano Firtman

COST OF JAVASCRIPT

REDDIT.COM

JavaScript Processing times for Reddit.com

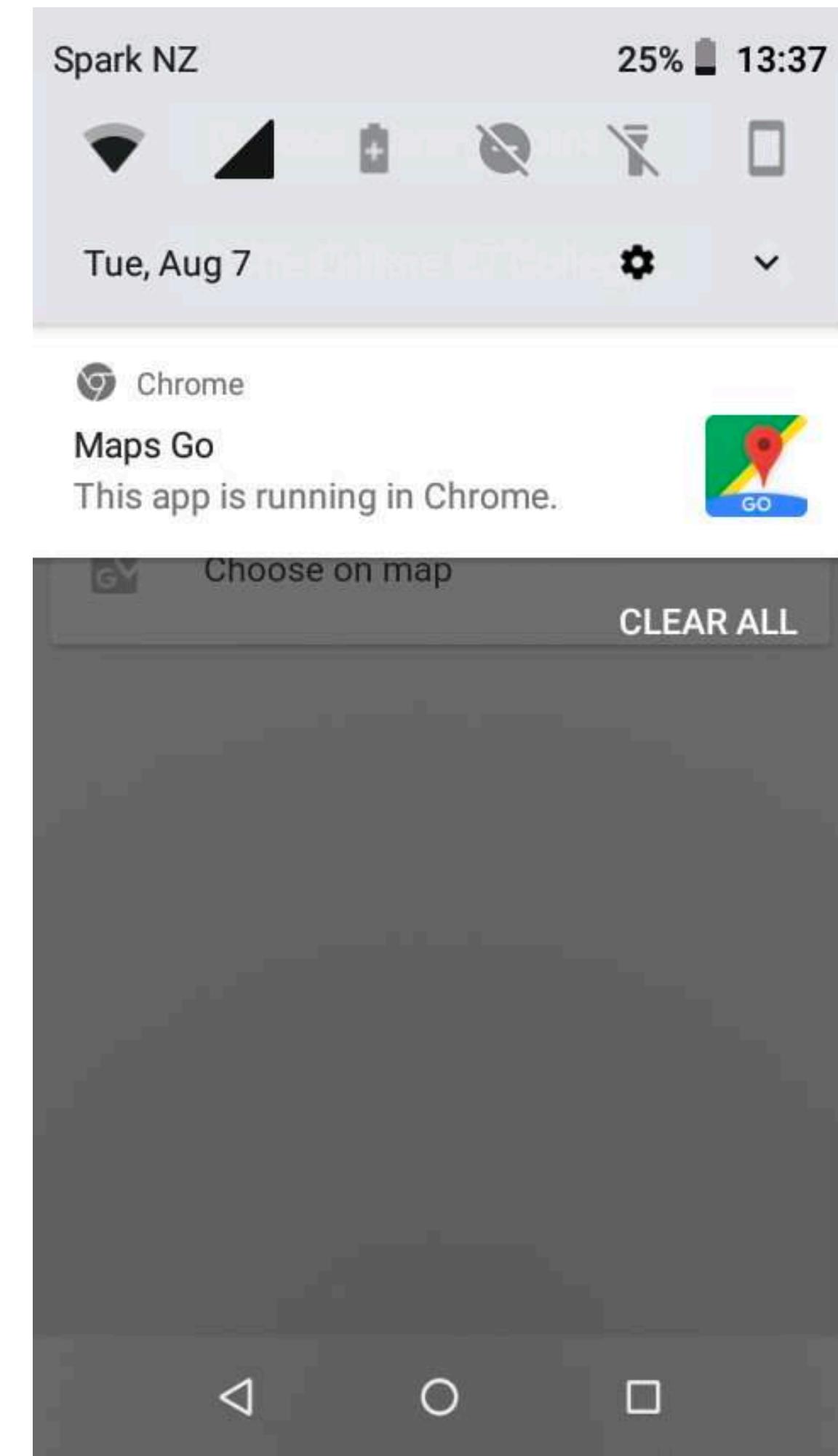
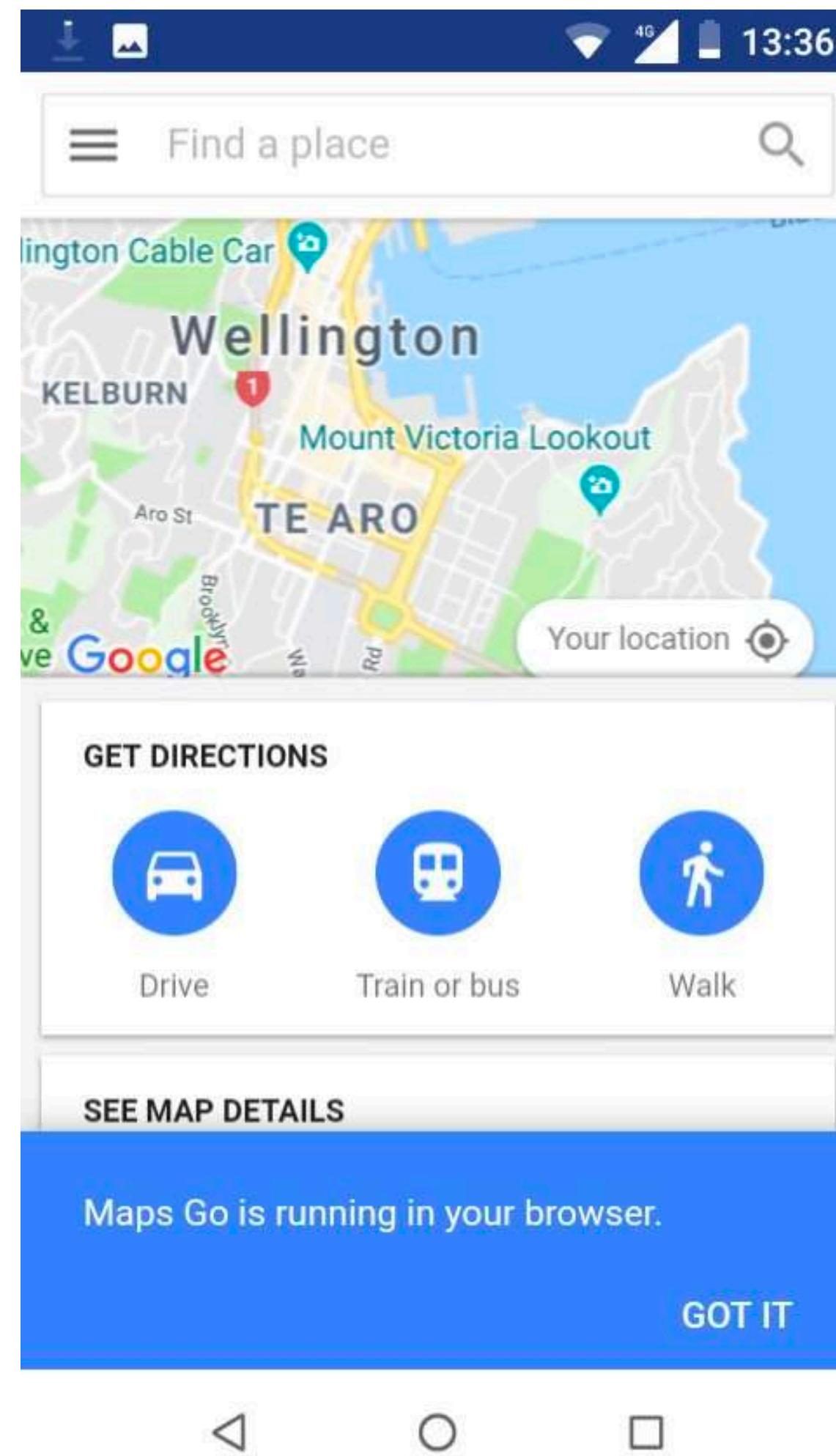
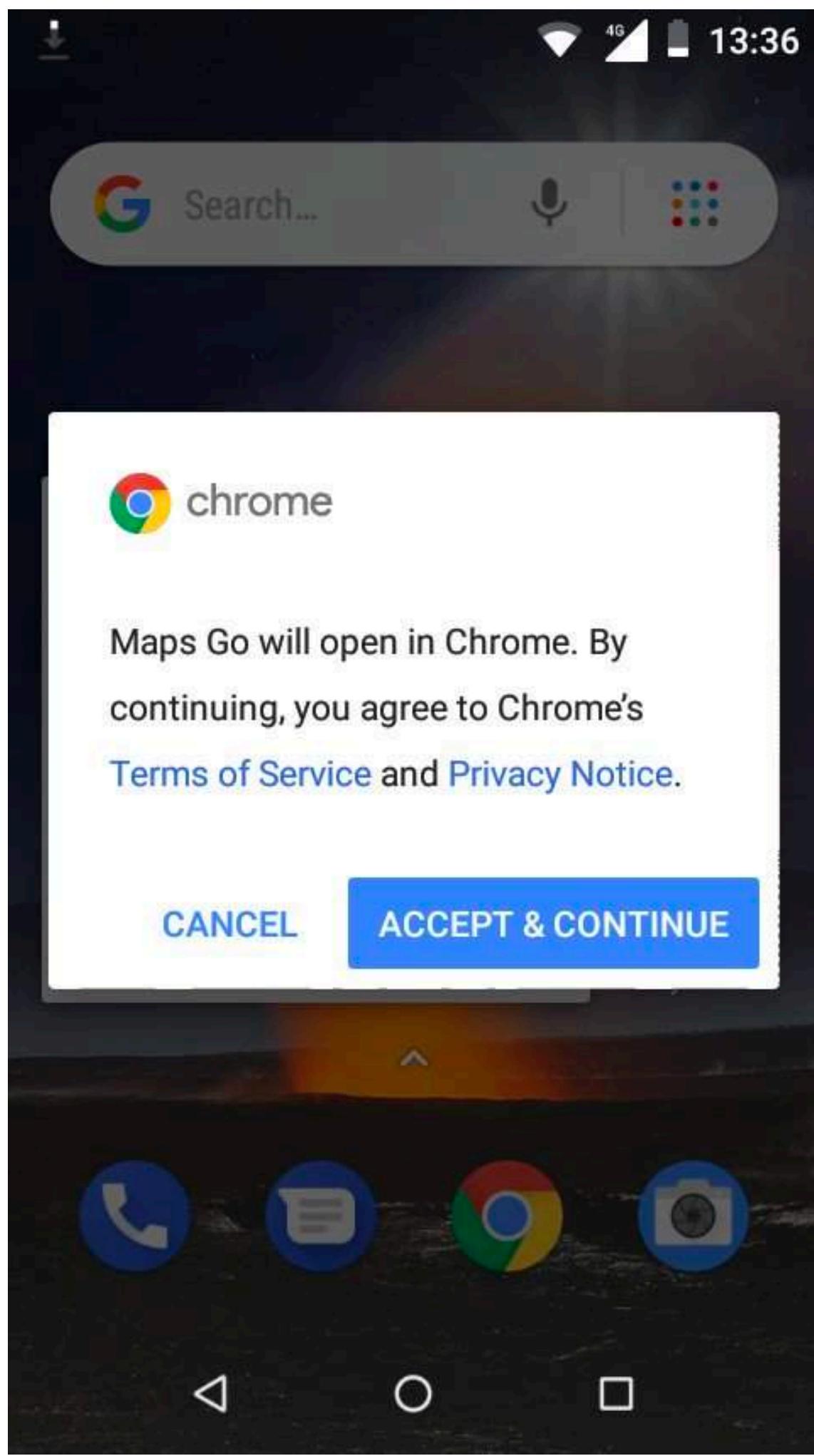


We are not
Average users

Android Go



Lighter, Faster and Better



The new Nokia 2720 Flip and 800 Tough, powered by KaiOS

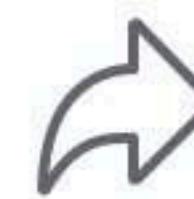


WIZPHONE | WP006

KaiOS

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[Facebook Mobile Browser](#)

Not Secure — html5test.com

HTML5 TEST how well does your browser support html5?

your browser other browsers compare

YOUR BROWSER SCORES **460** OUT OF 555 POINTS

You are using Safari 13.0 on macOS 10.15

Save results Compare to... Share

semantics

Parsing rules **5**

<!DOCTYPE html> triggers standards mode	Yes ✓
HTML5 tokenizer	Yes ✓
HTML5 tree building	Yes ✓
<i>HTML5 defines rules for embedding SVG and MathML inside a regular HTML document. The following tests only check if the browser is following the HTML5 parsing rules for inline SVG and MathML, not if the browser can actually understand and render it.</i>	
Parsing inline SVG	Yes ✓
Parsing inline MathML	Yes ✓

multimedia

Video **1**

- video element
- Subtitles
- Audio track selection
- Video track selection
- Poster images
- Codec detection

Video codecs

- MPEG-4 ASP support Yes ✓

Save results Compare to... Share P Donate

AA Not Secure — html5test.com

HTML5 TEST how well does your browser support html5?

your browser news other browsers device lab compare about the test

YOUR BROWSER SCORES **458** OUT OF 555 POINTS

You are using Safari on an Apple iPad running iOS 13.0 Correct? ✓ ✗

Save results Compare to... Share P Donate

20 years Survival Kit



Never Underestimate
Mobile

Corporations

NOKIA
Connecting People

 **BlackBerry**™

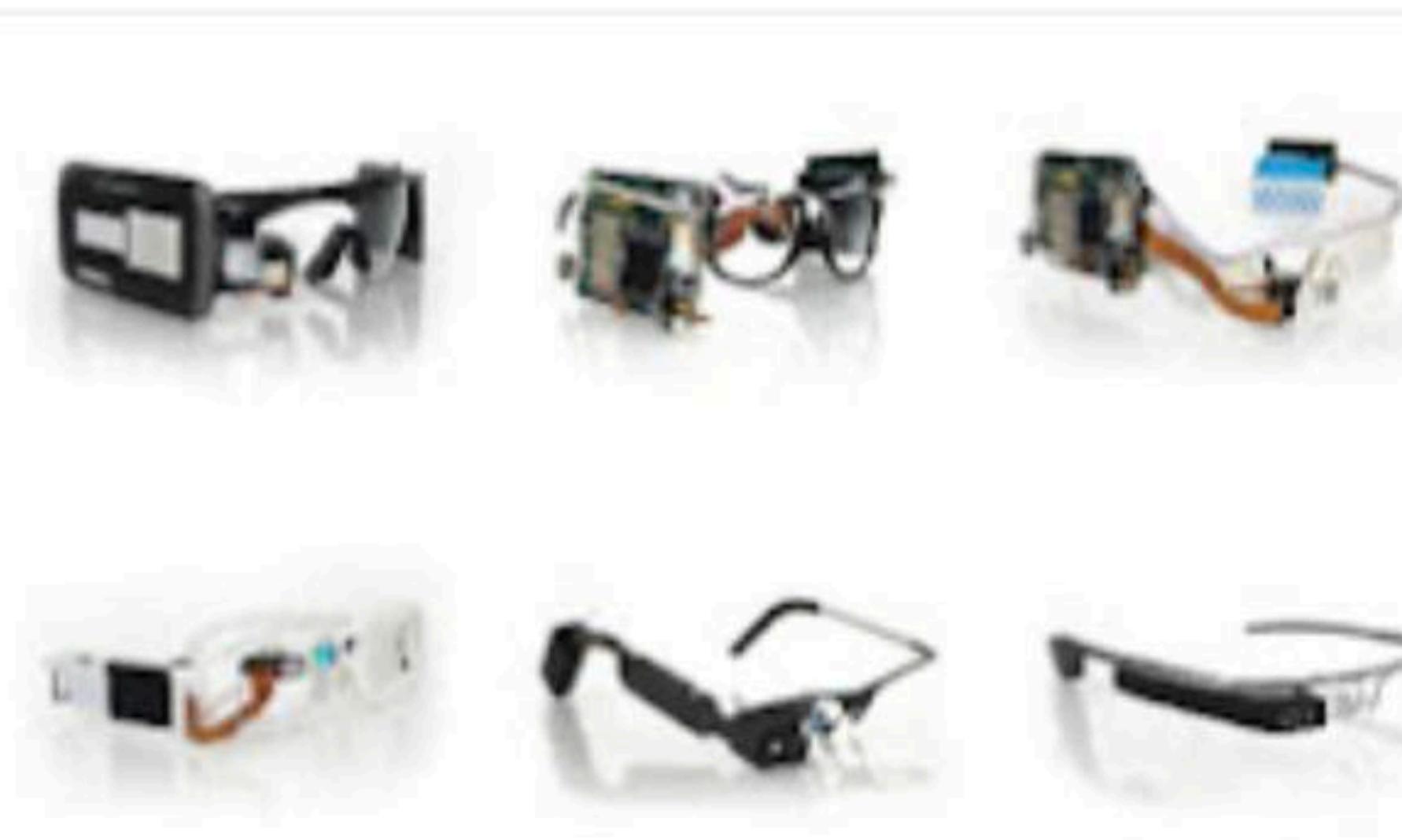
 **Adobe**

Microsoft®

You are a pioneer, a founder and an architect of what's possible.
You are a Glass Explorer. We have an exciting journey ahead of us,
and what happens next starts with you.

Start exploring at google.com/glass

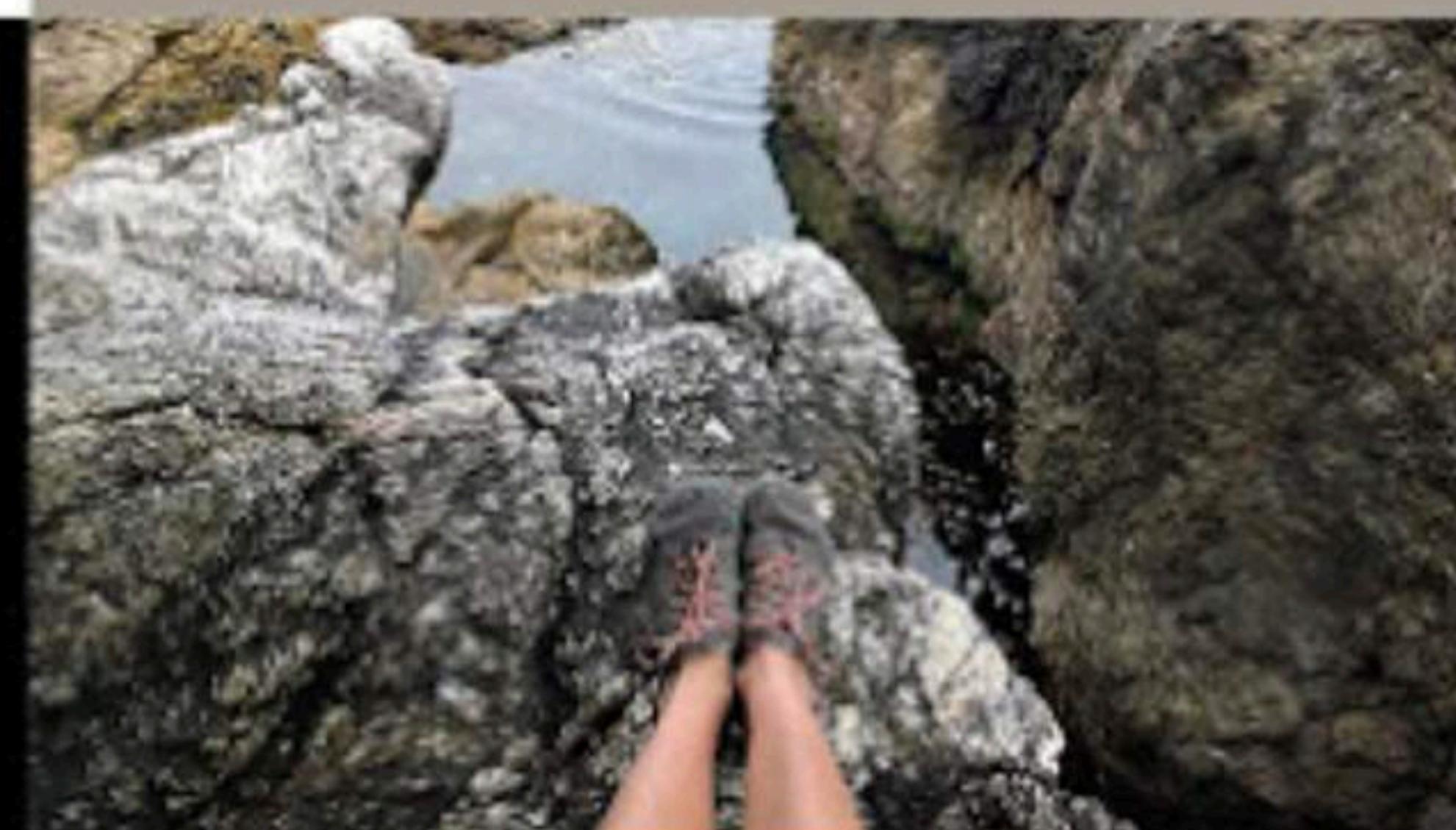
Thanks to all of you for believing in us and making all of this possible. Hang tight—it's going to be an exciting ride.



GLASS

*"Do not follow where the path
may lead. Go, instead, where there
is no path and leave a trail."*

-RALPH WALDO EMERSON









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ios pwa



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About 3,740,000 results (0.59 seconds)

PWAs on iOS 12.2 beta: the good, the bad, and the “not sure yet if good”

<https://medium.com/.../pwas-on-ios-12-2-beta-the-good-the-bad-and-the-not-sure-yet-...> ▾

28 Jan 2019 - Exactly one year after the first beta of iOS 11.3, Apple released last week the first beta of iOS 12.2: the first version since PWA support that ...

Progressive Web Apps on iOS are here – Maximiliano Firtman – Medium

<https://medium.com/@firt/progressive-web-apps-on-ios-are-here-d00430dee3a7> ▾

29 Mar 2018 - This App is a PWA and it appears full screen -offline capable- on an iPad. It also appears in the iPad dock as any other native app from the App ...

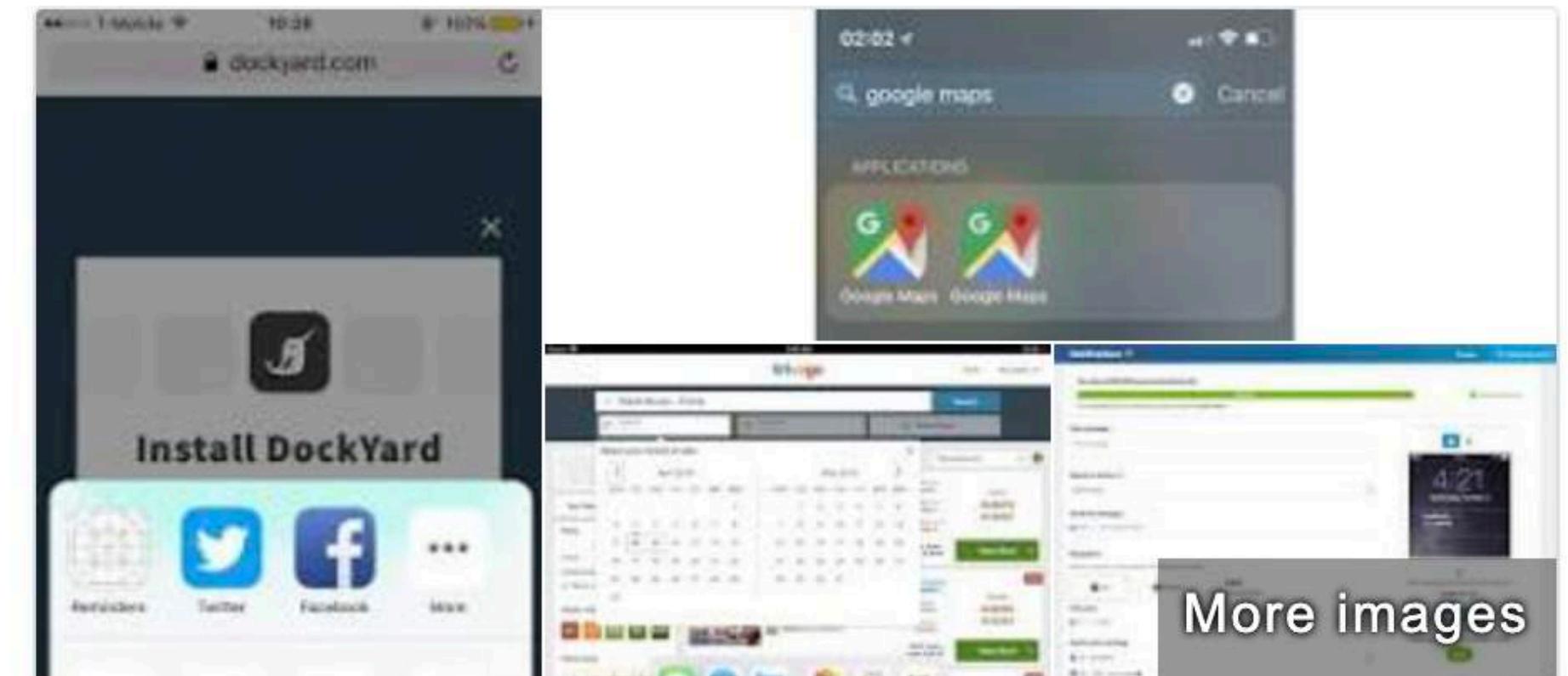
What's new on iOS 12.2 for Progressive Web Apps – Maximiliano ...

<https://medium.com/.../whats-new-on-ios-12-2-for-progressive-web-apps-75c348f8e9...> ▾

26 Mar 2019 - Web Share Level 1 is now supported on all the Web platforms, including Safari, standalone PWA, WebView (such as Facebook Mobile Browser or Chrome on iOS) and Safari View Controller (such as a link opened within the Twitter native app). Only the text and URL attributes are working; the title is ignored.

How to Test PWA on iOS devices - SuperPWA

<https://superpwa.com/doc/test-pwa-ios-devices/> ▾

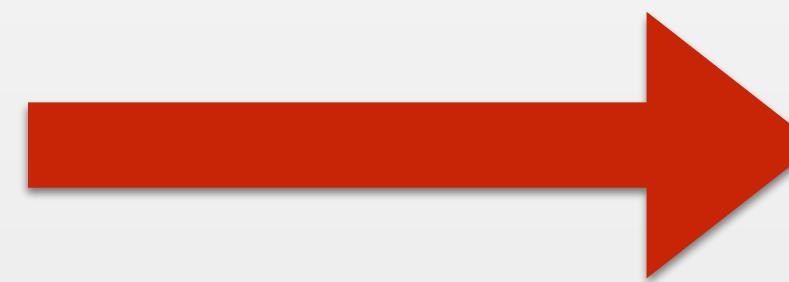


PWA iOS

Web Share Level 1 is now supported on all the Web platforms, including Safari, standalone PWA, WebView (such as Facebook Mobile Browser or Chrome on iOS) and Safari View Controller (such as a link opened within the Twitter native app). Only the text and URL attributes are working; the title is ignored.

What's new on iOS 12.2 for Progressive Web Apps – Maximiliano ...

Web APK



Cloud-based
Generation



APK Mint



Starbucks



Starbucks



Starbucks



Starbucks



Starbucks



Starbucks



Starbucks



Starbucks



app.starb...



Starbucks...



Starbucks...



Starbucks...

Is there a cold war between Android and Chrome because of PWAs?



Maximiliano Firtman

Dec 12, 2018 · 12 min read

—What? How can you say that? Android has the best PWA experience available today, Max!

—Android? or Chrome on Android? And... is it the best possible experience?





pwa play store



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About 1,560,000 results (0.61 seconds)

M <https://medium.com/google-play-store-now-open-for-progressive-we...> ▾

Google Play Store now open for Progressive Web Apps

Jan 31, 2019 - From now, publishing your PWA in the Store -as well as from the browser- will be possible. Of course, it's an opt-in operation. The **Play Store** is ...

You've visited this page many times. Last visit: 10/27/19

* <https://css-tricks.com/how-to-get-a-progressive-web-app-into-the-goo...> ▾

How to Get a Progressive Web App into the Google Play Store ...

Apr 19, 2019 - PWA (Progressive Web Apps) have been with us for some time now. ... and ready to be installed straight from the Google Play app store.

Search

DEV <https://dev.to/jumpalottahigh/how-to-publish-a-pwa-on-the-google-...> ▾

How to publish a PWA on the Google Play store - DEV ...

Jun 30, 2019 - If you are into web development you might have heard the term Progressive Web App (PWA). It has been floating around for quite a while now ...

Don't be just a
fan

Keep always a
Critical eye

20 years Survival Kit



Understand Corporations

Performance

Browsing or
installing apps in

WAP 1.0

Used to take 20 seconds

Now it's better

Isn't it?

The problem

Average time to load a mobile landing page

22 seconds

Research by thinkwithgoogle.com

The problem

If a page takes more than 3 seconds to load

53% leave it

*We have LTE! We don't need to
worry about performance...*

4G and 5G



% of connections*

43%

2018

59%

2025



1.4bn

2025

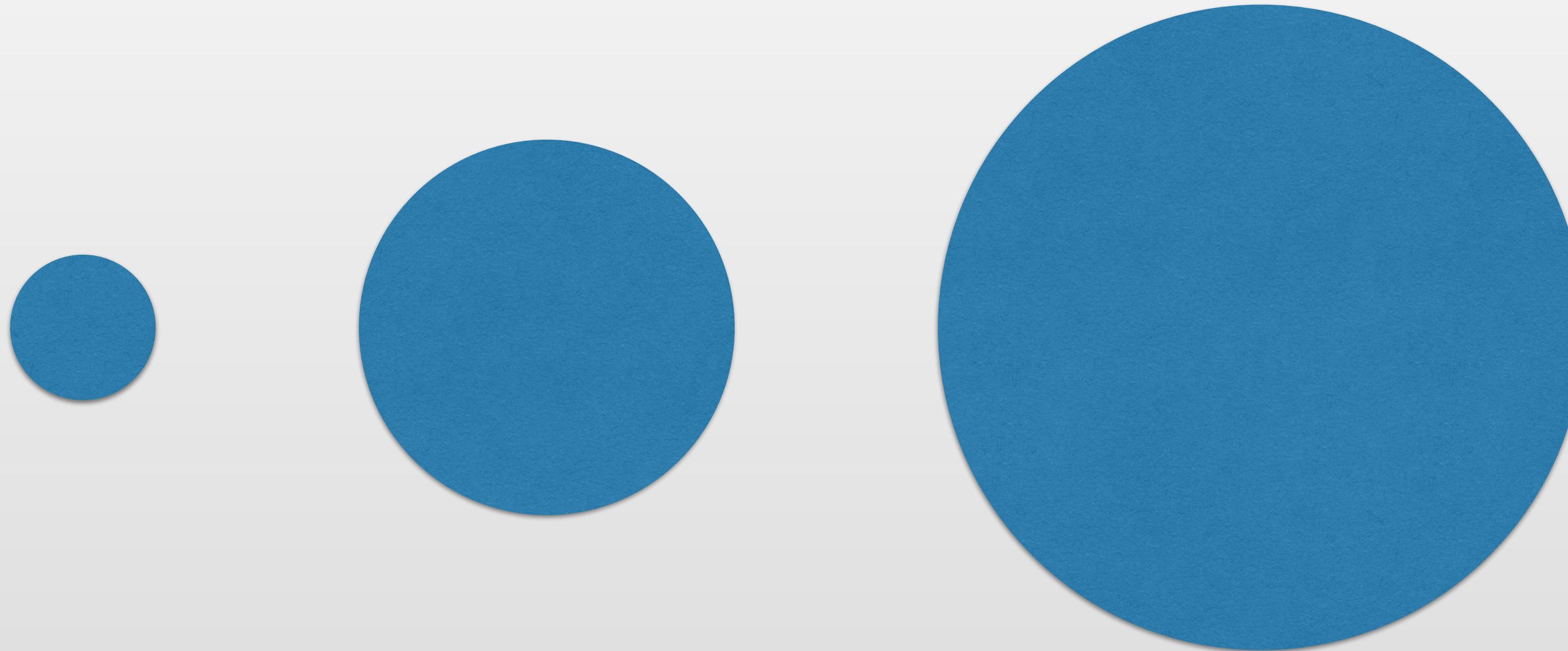
15%

of connections*

*Excluding cellular IoT

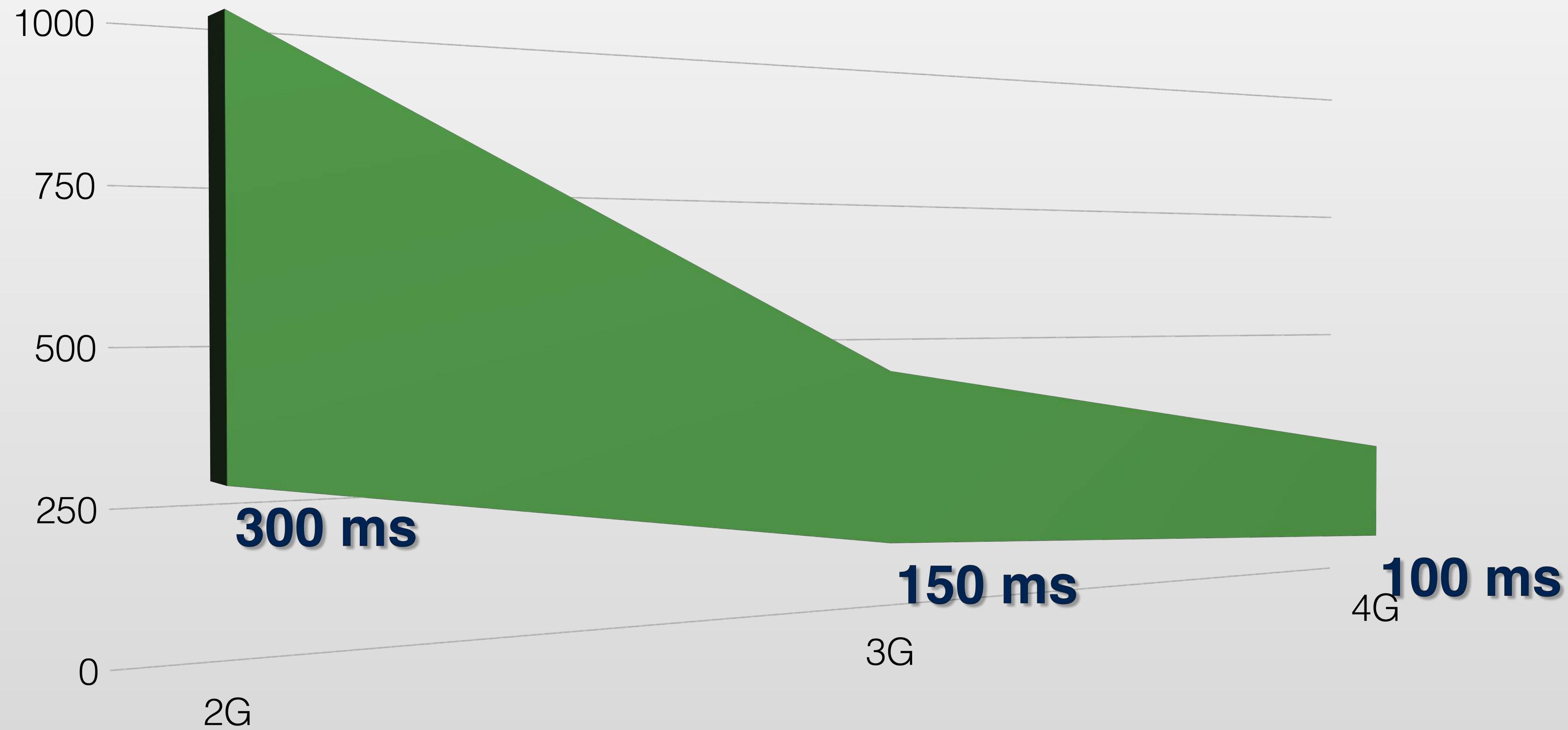
cellular networks

Bandwidth



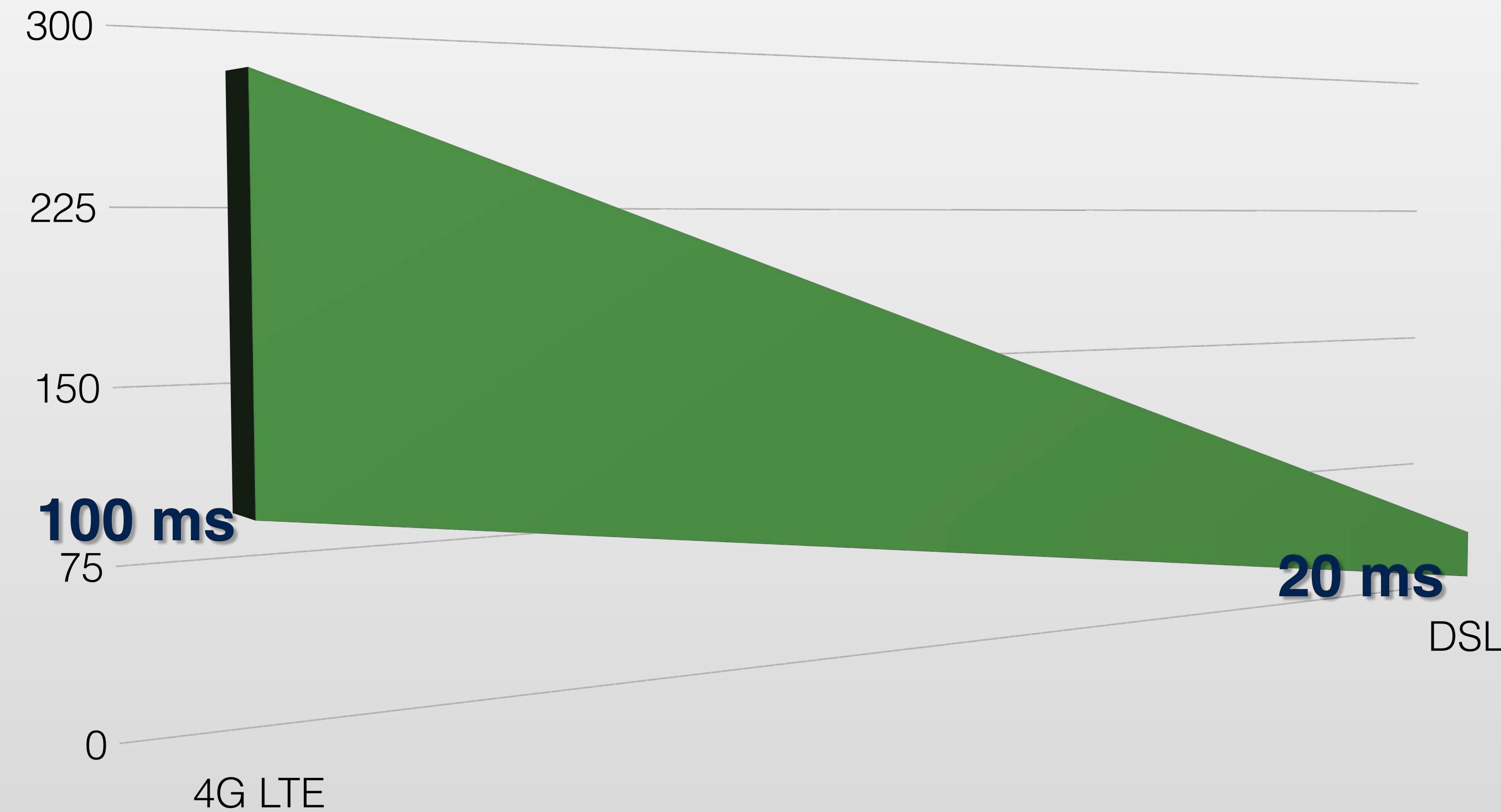
cellular networks

RTT - latency



cellular networks

RTT - latency



You have used all of the 200MB of your T-Mobile daily high-speed data. Your speed is limited to 64 kbps for the remainder of the billing period or until your next renewal.

You have used all of the 200MB
of your T-Mobile daily high-
speed data. You now have
latency limits applied to your
remaining data usage.

Latency Test			
Geography	Region	Location	Average Latency (ms)
America	North Central US	Illinois	462 ms
America	West US 2	West US 2	1984 ms

300-2000ms

Latency Test			
Geography	Region	Location	Average Latency (ms)
America	North Central US	Illinois	1524 ms
America	West US 2	West US 2	184 ms

O'REILLY®

Compliments of
verizon
digital media services

Hacking Web Performance

Moving Beyond the Basics of
Web Performance Optimization



Maximiliano Firtman



Prioritize Performance

Ideas

Guess Game

“An innovative new way to
create applications for
mobile devices”

“you can write amazing apps
that look and behave exactly
like apps on the phone”

“Just put 'em on an internet
server. They're easy to
update.”

What is it?

Progressive Web Apps!!!



The app & web worlds are

Cyclothymic

A good idea is presented

We use it a little bit

Ignore

Disappears

Years later...

It comes back, enhanced and
with a new name

AMP!

AMP!

WML

XHTML MP

20 years ago

18 years ago

NativeScript | React Native

NativeScript | React Native

J2ME

20 years ago

Adobe Air

11 years ago

Appcelerator

9 years ago

Web Assembly!

Web Assembly!

Alchemy Project

11 years ago

Apache Cordova! Electron!

Apache Cordova! Electron!

Microsoft HTA

20 years ago

Symbian WRT

12 years ago

Web Components and Binding!

Web Components and Binding!

Flex

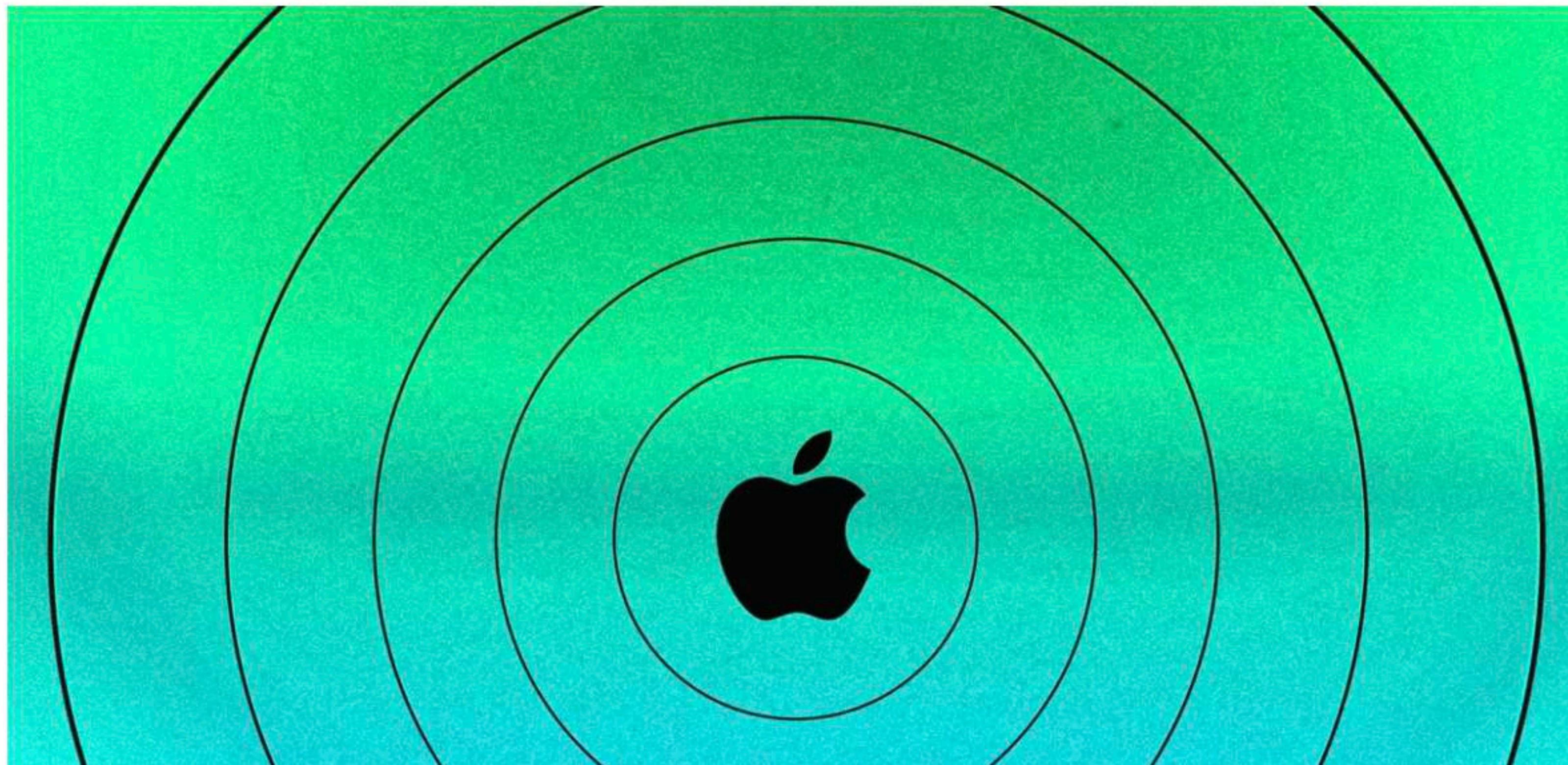
15 years ago

Apple reportedly plans 2022 release for first AR headset, followed by AR glasses in 2023

Apple managers say AR glasses could supplant the iPhone in a decade

By James Vincent | Nov 11, 2019, 9:02am EST

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GOOD DEALS



Sam's Club's one-day sale is over, but more Black Friday deals are coming

We are going back to same ideas

Better implementations

New names

Retain good
Ideas



20 years Survival Kit



Avoid

Frustration

Embrace

Change

Forget

Web vs. Native

Use right

Tools

Never underestimate

Mobile

Understand

Corporations

Prioritize

Performance

Retain good

Ideas

20 years Survival Kit



Remember Your Goal

Goal

Not the framework

Goal

Not the buzzword

Goal

Not the designer

Goal

Not the developer

Goal

Your User

<blink>@firt - firt.mobi</blink>