

Combine the web with hardware, apps and native platforms

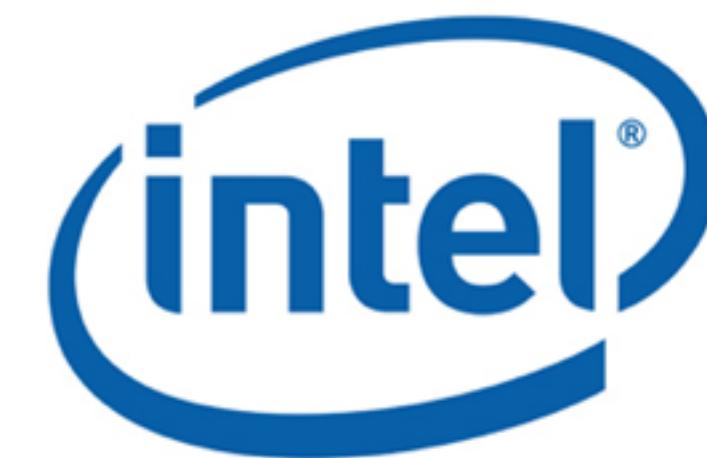
maximiliano @firtman



trainer



YAHOO!



Linked in



PEARSON

DÉVELOPPER POUR LE WEB MOBILE

Référence

Mobil Web Programlama



移动网络程序设计

Maximiliano Firtman
王锐译

MAXIMILIANO
FIRTMAN

PUSULA

O'REILLY

O'REILLY

ЧИТАЙ

Беб-программирование для мобильных устройств



实践 jQuery Mobile

Maximiliano Firtman
王锐译

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jQuery Mobile 建置與執行

Firtman O'REILLY



jQuery Mobile 即学即用

Maximiliano Firtman
王锐译

人民邮电出版社



jQuery Mobile: Up and Running

Firtman O'REILLY



jQuery Mobile. Aplicaciones HTML5 para móviles

Firtman



Programmare per il Web Mobile

Firtman O'REILLY HOPS



Programming the Mobile Web

Firtman O'REILLY

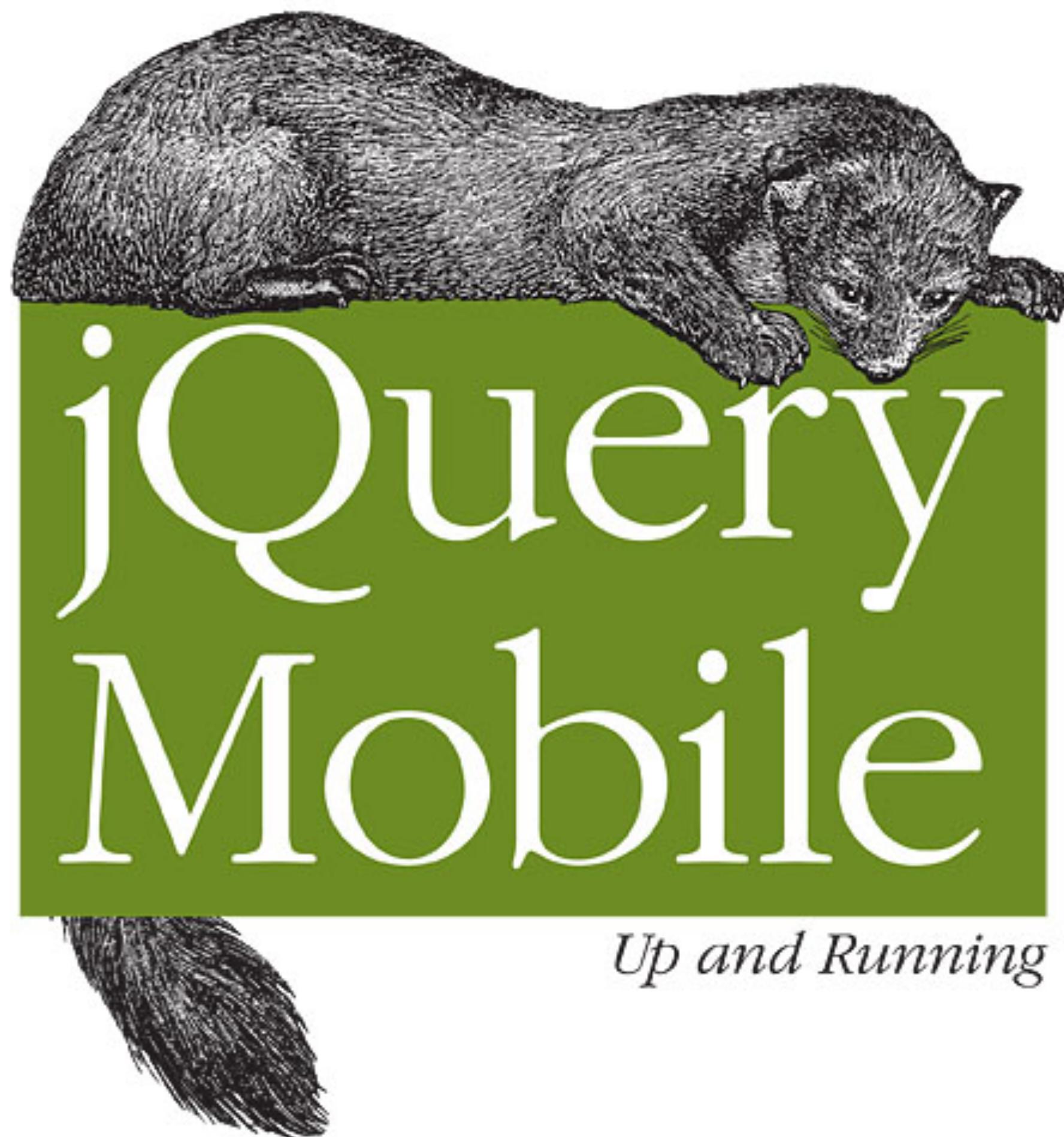


Programming the
Mobile Web

Firtman O'REILLY

SECOND EDITION

Using HTML5 to Design Web Apps for Tablets and Smartphones



jQuery Mobile

Up and Running

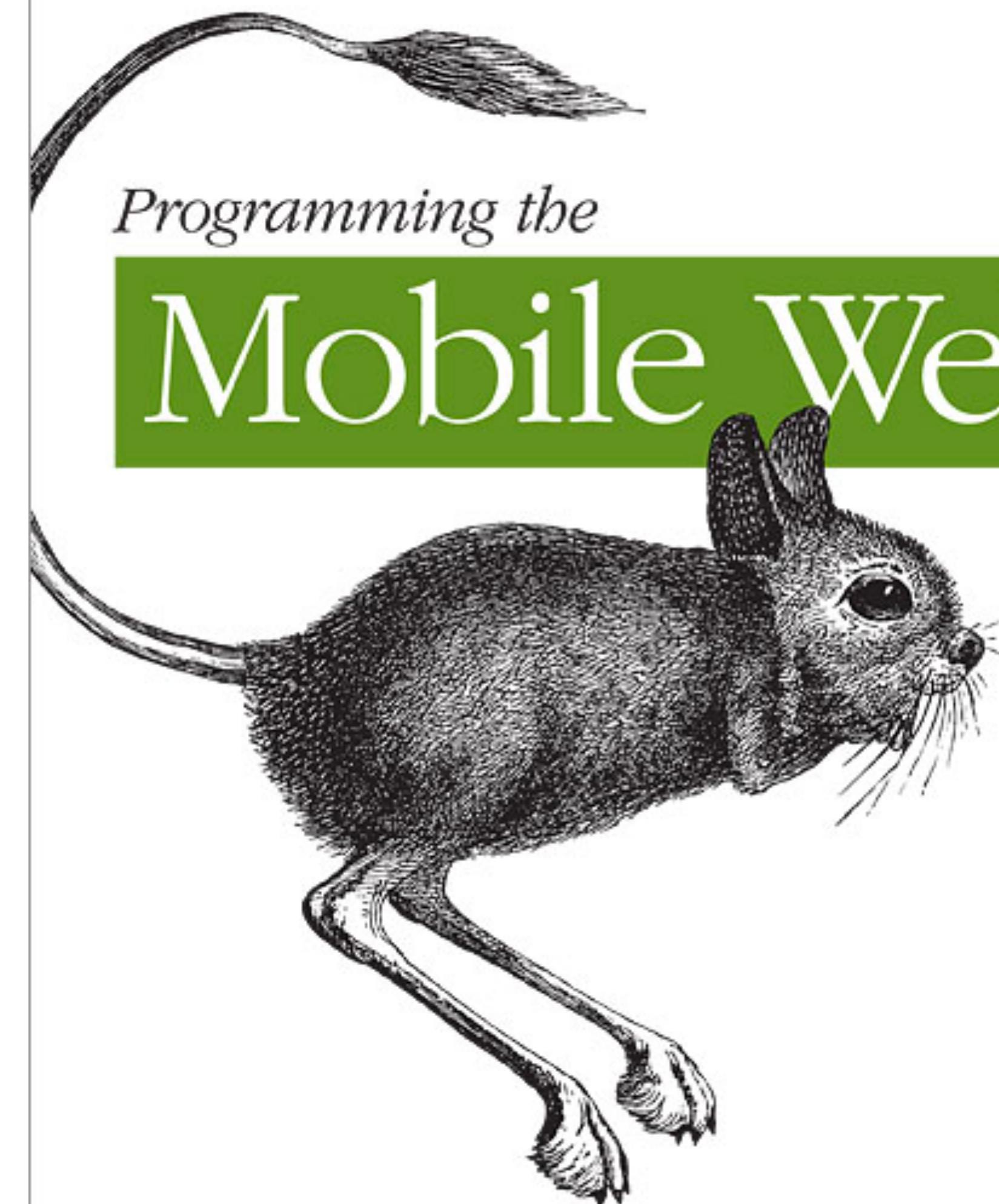
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Maximiliano Firtman

*Reaching Users on iPhone, Android,
BlackBerry, Windows Phone, and more*

2nd Edition
Includes HTML5

Programming the Mobile Web



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NEW!



Mobile HTML5

Maximiliano Firtman

VIDEO

O'REILLY®

SOON!

High Performance Mobile Web

BEST PRACTICES FOR OPTIMIZING
MOBILE WEB APPS



Maximiliano Firtman

MOBILE HTML

Trying to understand HTML5 compatibility on mobile and tablet browsers



beta, of course



Do not program conditionals per platform or version. Always use feature detection.

This list is in progress. New tests, new features, more specificity of each feature and more mobile browsers soon!

If you want to help on the test, [contact me](#).

by [fir](#) | [Updates on Twitter](#) | [Blog](#)

Feature	Safari on iOS	Android Browser		BlackBerry Browser		Internet Explorer	Opera		Firefox	webOS Browser	Symbian Browser
Version tested	iPhone, iPad	Phones (1.0-2.3)	Tablets (3.0+)	Phones	Tablet	Windows Phone	Mobile	Mini	Android		Nokia phones
Minimum version tested	3.2	1.5	3.0	5.0	1.0	9	11	5	6	1.4	^3
Application Cache W3C API Offline package installation.	✓	✓ 2.1+	✓	✓ 6.0+	✓		✓		✓	✓	
Web storage W3C API Persistent and session storage.	✓	✓ 2.0+	✓	✓ 6.0+	✓	✓	✓		✓	✓	
Web SQL storage W3C API (no active) Persistent SQLite storage.	✓	✓ 2.0+	✓	✓ 6.0+	✓		✓			✓	
Geolocation W3C API Geolocation & tracking using GPS, cells or Wi-Fi.	✓	✓ 2.0+	✓	✓ 6.0+	✓	✓	✓		✓	✓	
Multimedia W3C API Video & Audio Players	✓	✓ 2.3+	✓	✓ 7.0+	✓	✓	✓		✓	✓	
Server-Sent Events W3C API EventSource pattern to maintain the connection to the server open	✓ 4.1+						✓		✓		
Web Sockets W3C API New bidirectional protocol over HTTP	✓ 4.2+			✓ 6.1+	✓		✓		✓		

Slides, links and tests

firtman.github.io/moddevcon

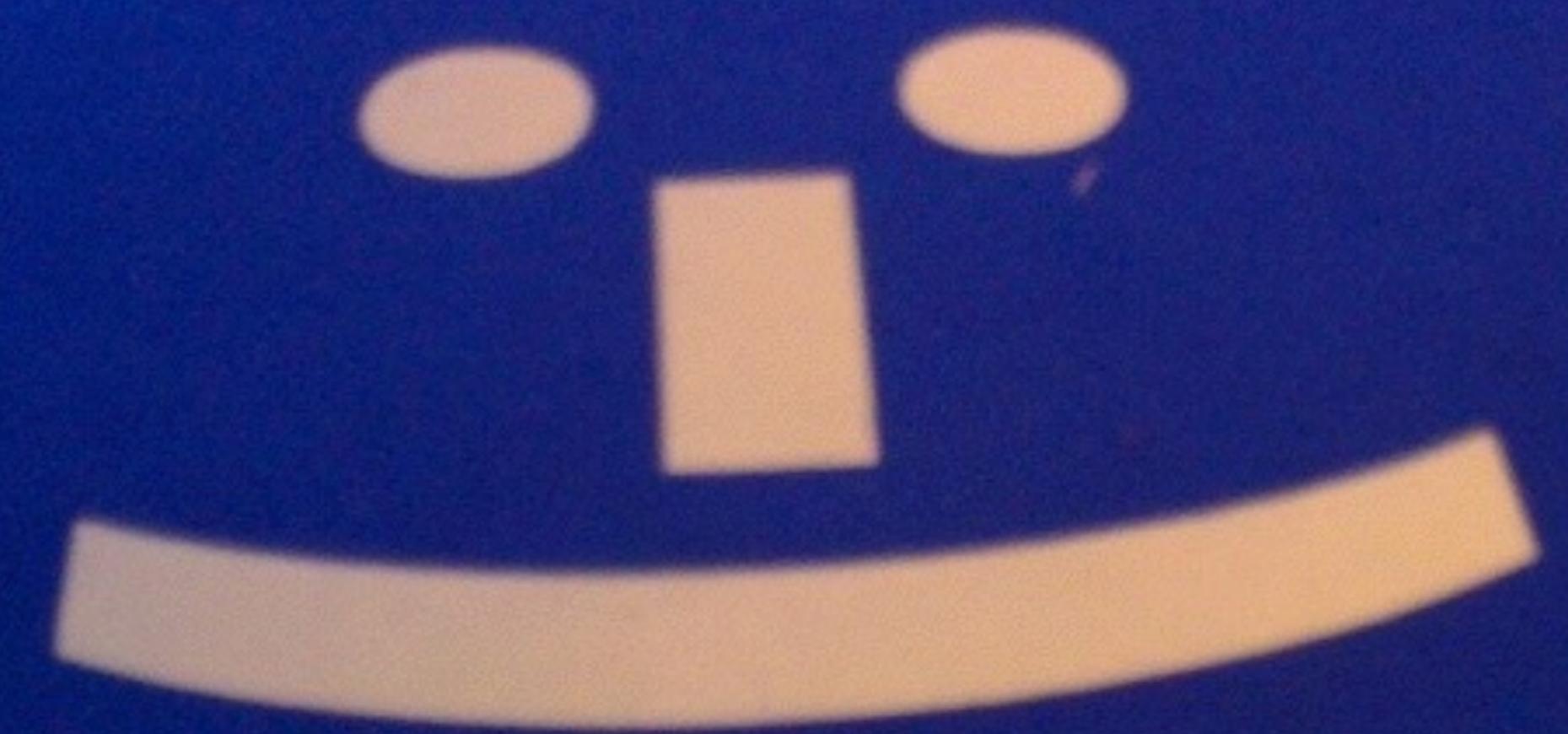
questions

yes, please

Anytime...

We will cover...

- 1- Mobile Web today
- 2- Hardware APIs
- 3- Native integration
- 4- Webapps
- 5- Future

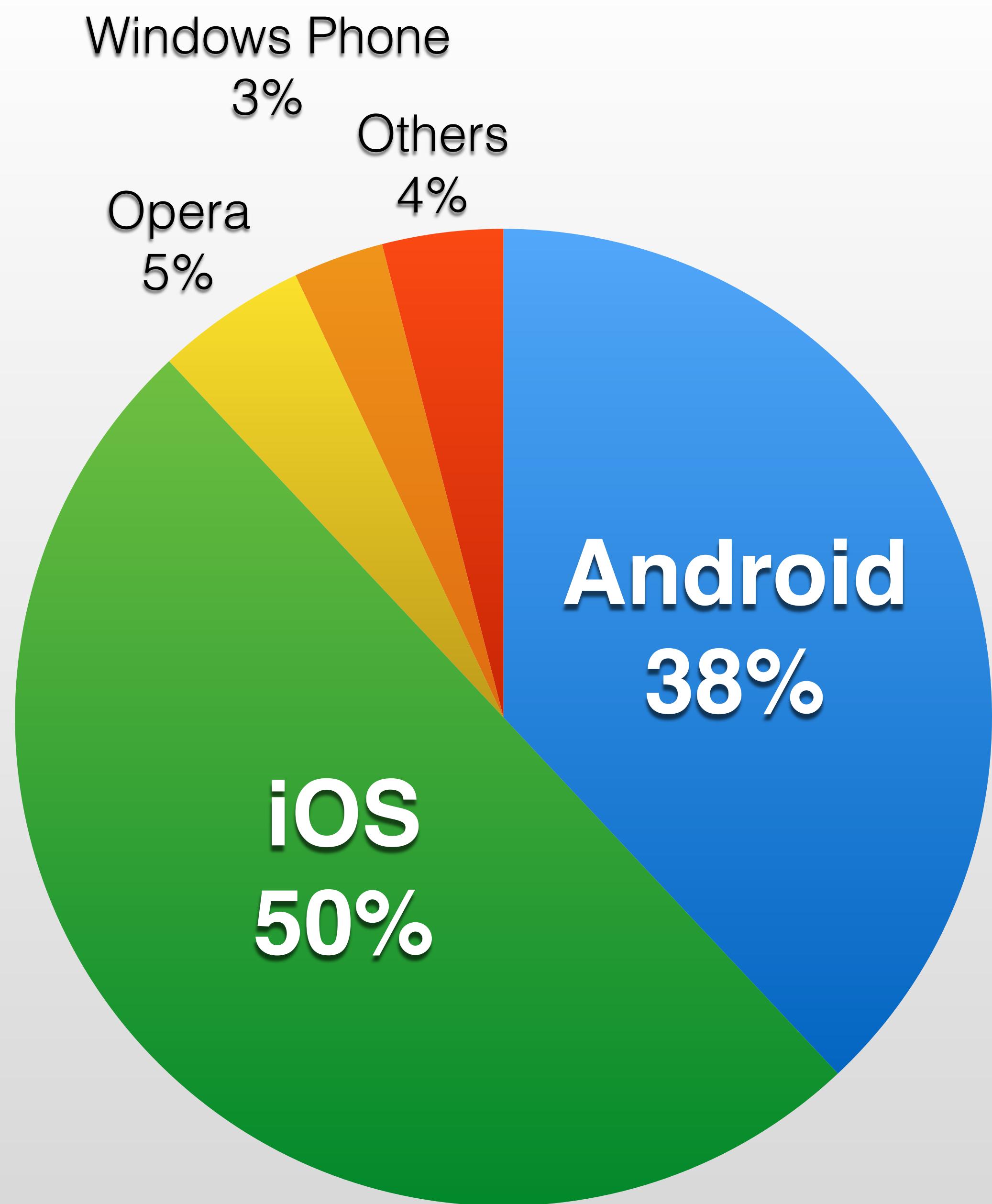


1- mobile web today*

*today: december 2014

web platforms

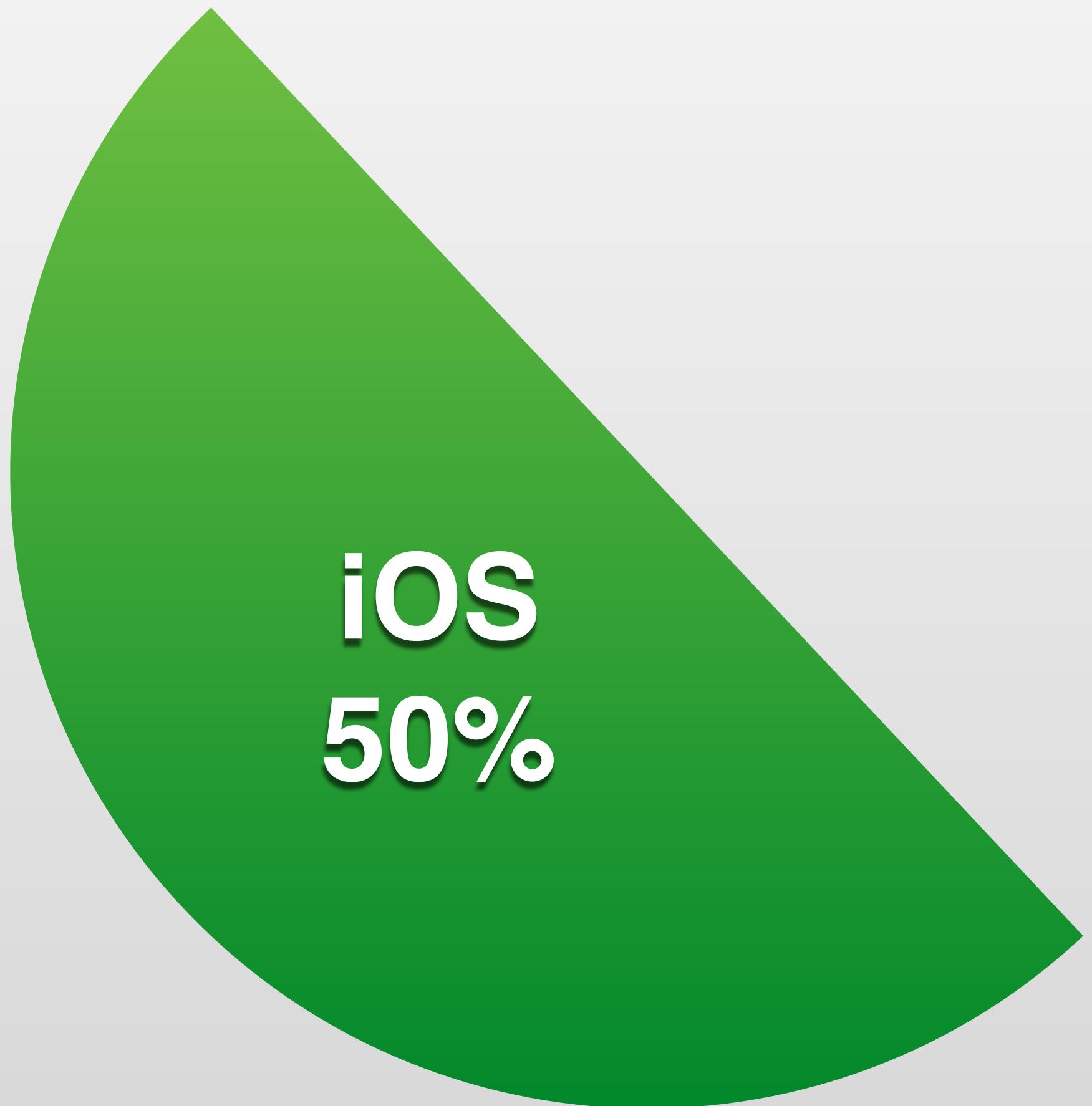
web platforms



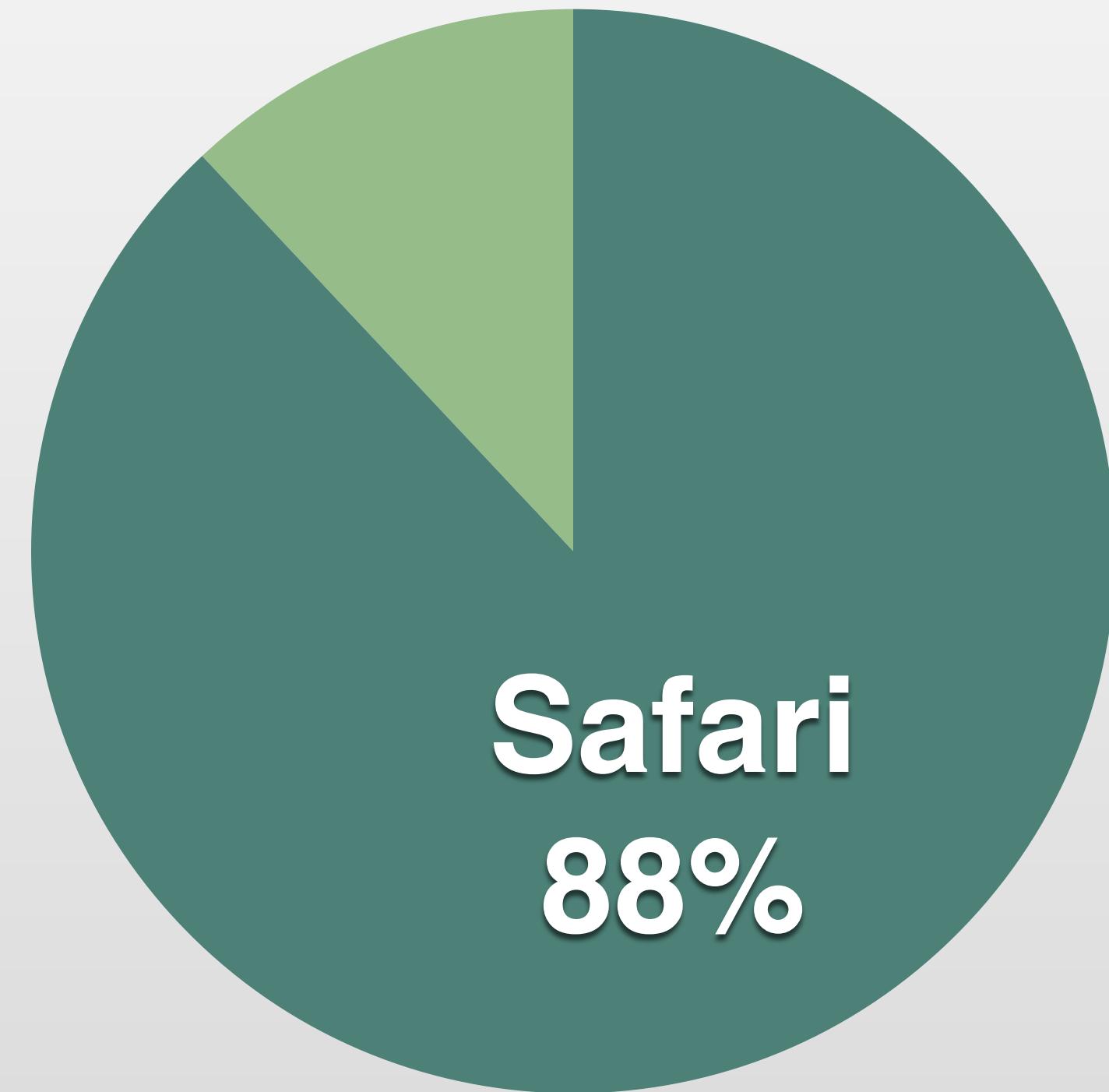
web platforms



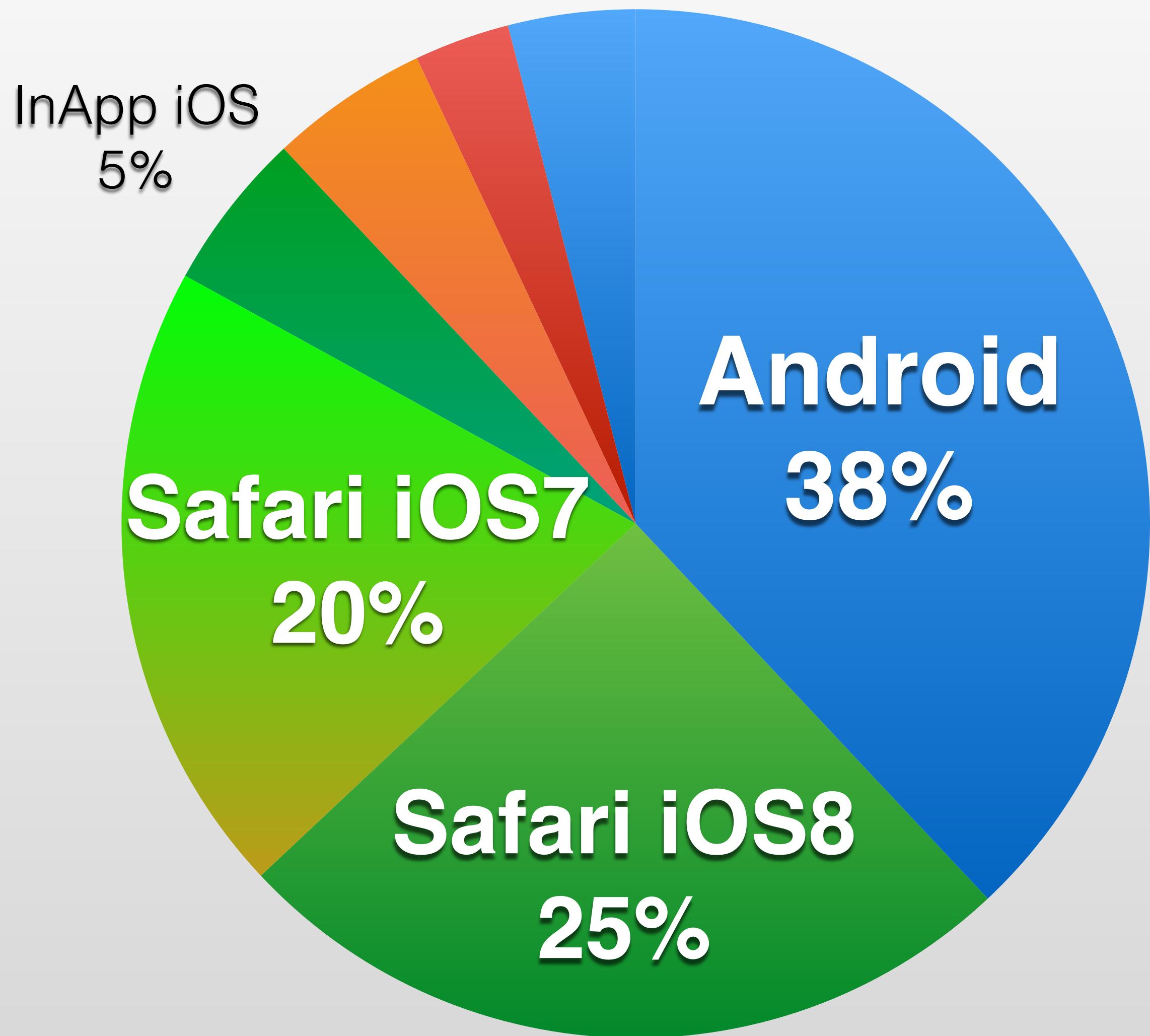
web platforms



Apps (Web View)
12%



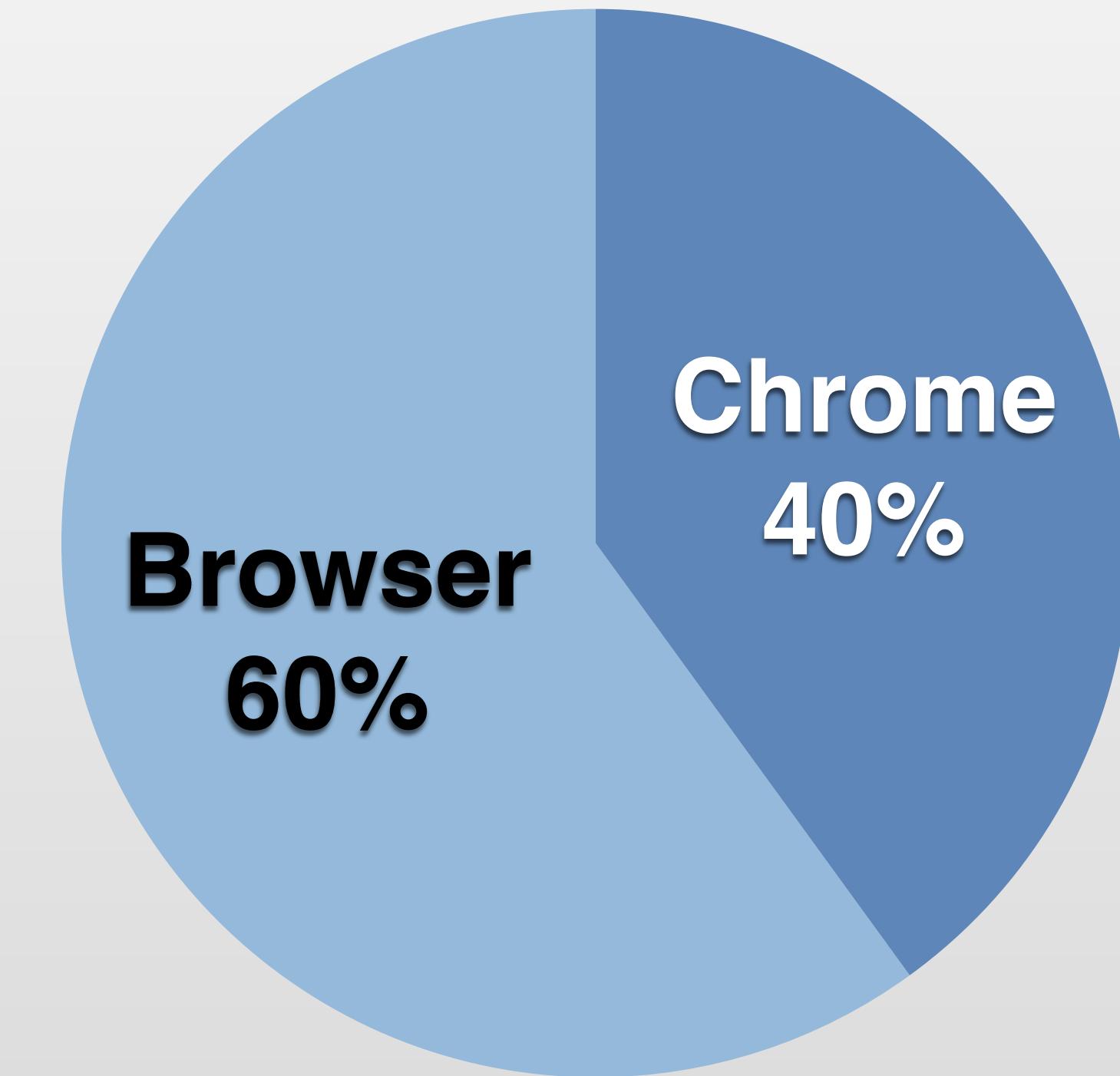
web platforms

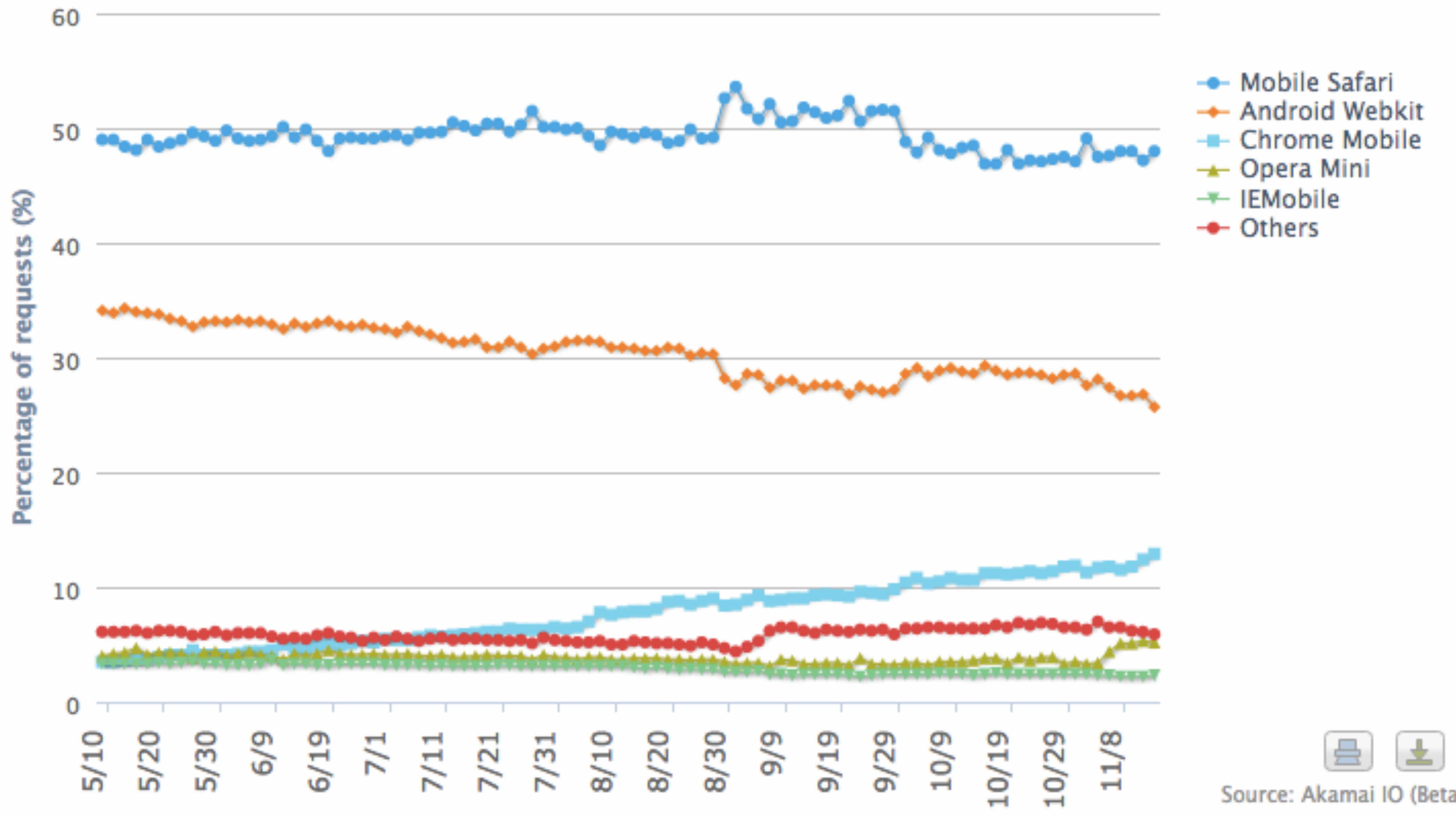


web platforms



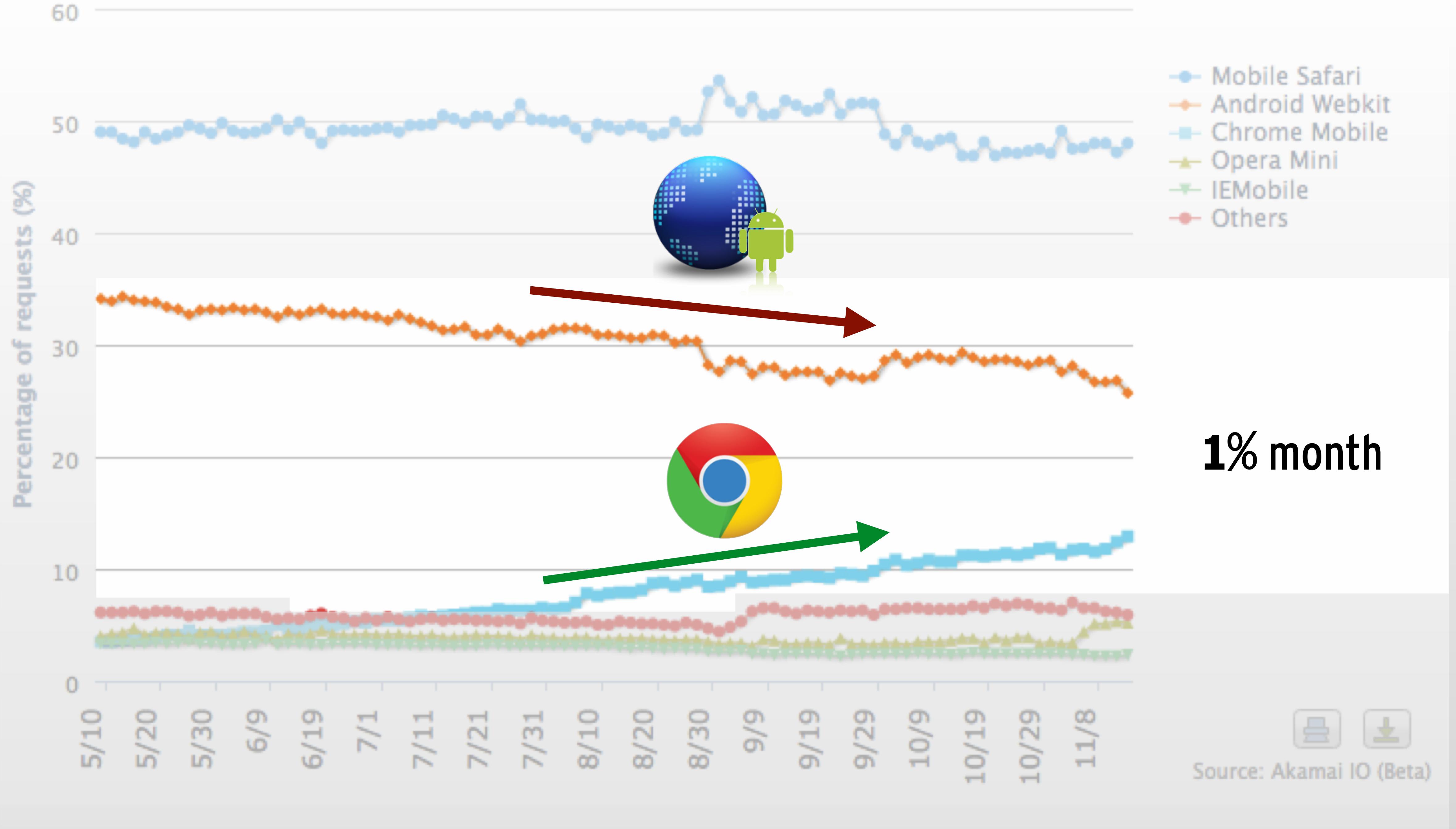
web platforms





Source: Akamai IO (Beta)





your browser

other browsers

compare

news

device lab

browsers

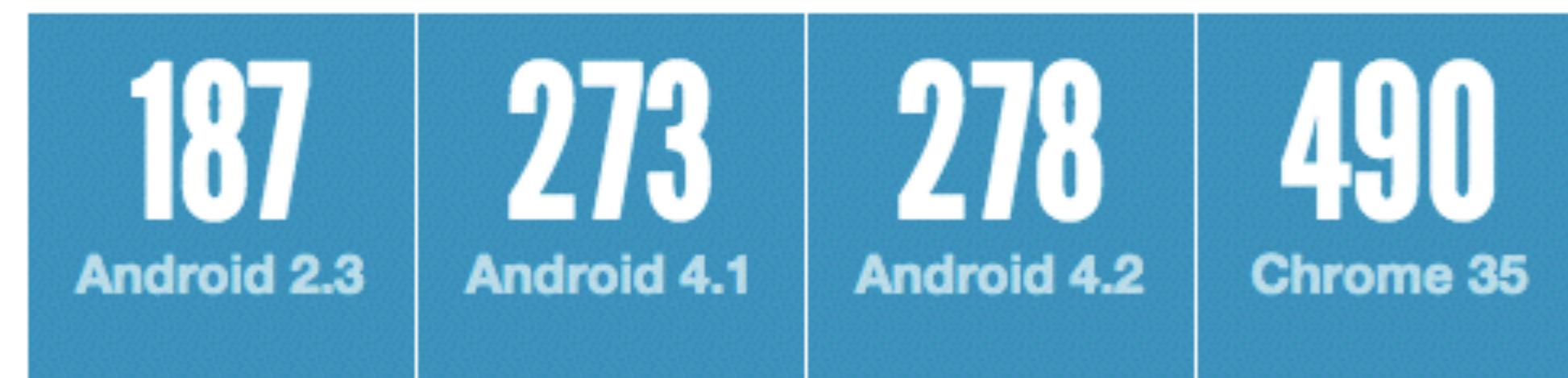
features



Search...

BROWSERS

Select up to five browsers and compare their test results
in detail



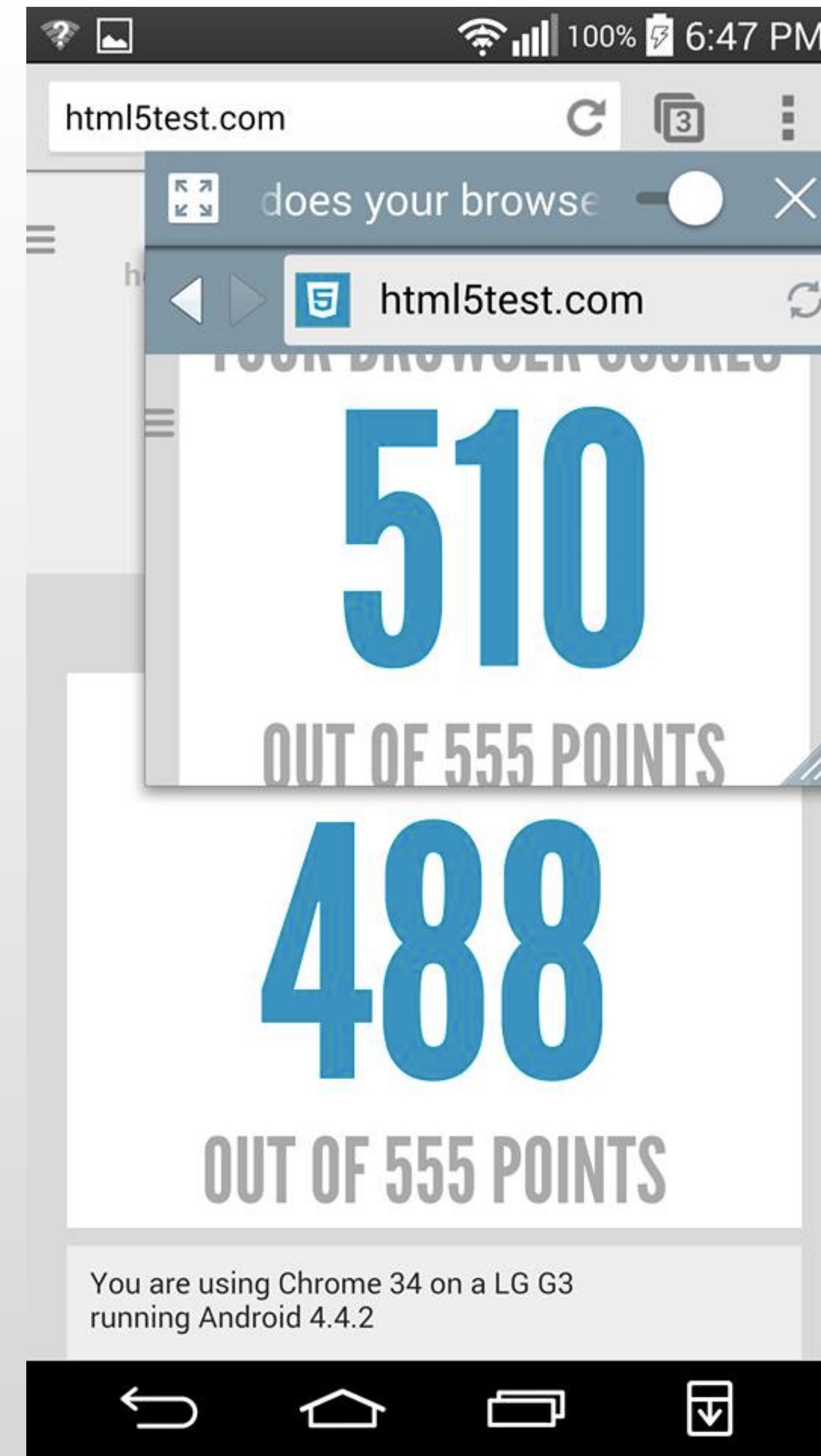
web platforms



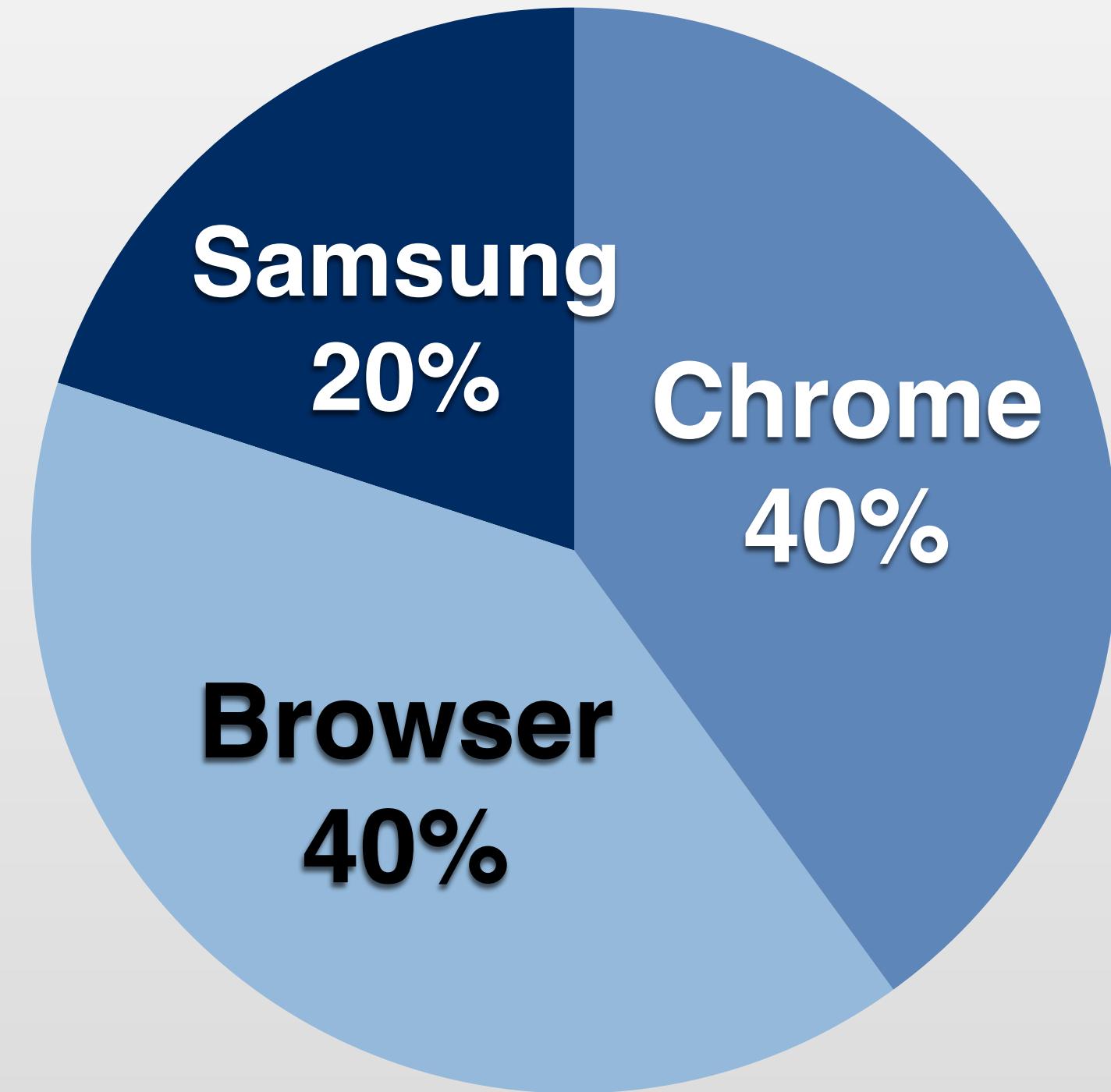
web platforms



LG G3



web platforms





Yesterday at 8:00 AM

We hope you're ready for Round 2. Velocity
Barcelona 2014 Day 2 begins at 9:30am GMT.
Watch the incredible keynote lineup live at <http://velocityconf.com/live>.

**Video - Velocity Europe 2014**

Video

velocityconf.com

2 likes



Like



Comment



Share



Tue at 12:00 AM

With over 261 hours of video on a diverse array of topics, the #OSCON video compilation is like having the experts you need by your side - all year round.

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22° 07:43

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Video - Velocity Europe 2014
Video
velocityconf.com

2 likes

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Video: Velocity Europe 2014 - 0'...

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Velocity BUILDING A FASTER, STRONGER WEB
17-19 NOVEMBER, 2014
BARCELONA, SPAIN

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Join us here on Monday and Tuesday, when keynotes will be streamed live. [View the full live stream schedule.](#)

Note: All tutorials, sessions and keynotes from Velocity Europe 2014 will be recorded and available in the O'Reilly Store approximately 3 weeks after the conference ends. If you would like to be notified when the Complete Velocity Video Compilation becomes available for purchase, [fill out this simple form.](#)

[PLAYLIST](#) | 1 / 21 Steven Shorrock: "Life After Human Error" - Vel...

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Live Stream Schedule (All times CET - Schedule subject to change)

+ [Monday, 17 November](#)
- [Tuesday, 18 November](#)

Keynotes

9:30 - 9:40 [Tuesday Opening Welcome](#) John Allspaw @allspaw (Etsy), Courtney Nash @courtneynash (O'Reilly), Steve Souders @souders (Fastly)
9:40 - 10:00 [Upgrading the Web: Polyfills, Components and the Future of Web Development at Scale](#) Andrew Betts @triblondon (FT Labs)
10:00 - 10:10 [Web Performance: Monitoring the Beast](#) Mehdi Daoudi @mdaoudi (Catchpoint Systems Inc.)
10:10 - 10:30 [Cultures of Continuous Learning](#) Vanessa Hurst @DBNess (CodeMontage)
10:30 - 10:35 [Troubleshooting Using HTTP Headers](#) Steve Miller-Jones @llnw (Limelight Networks)
10:35 - 10:40 [Monitoring without Alerts - and Why it Makes Way More Sense than You Might Think](#) Alois Reitbauer @aloisreitbauer (ruxit.com)

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Video - Velocity Europe 2014
Video
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Velocity

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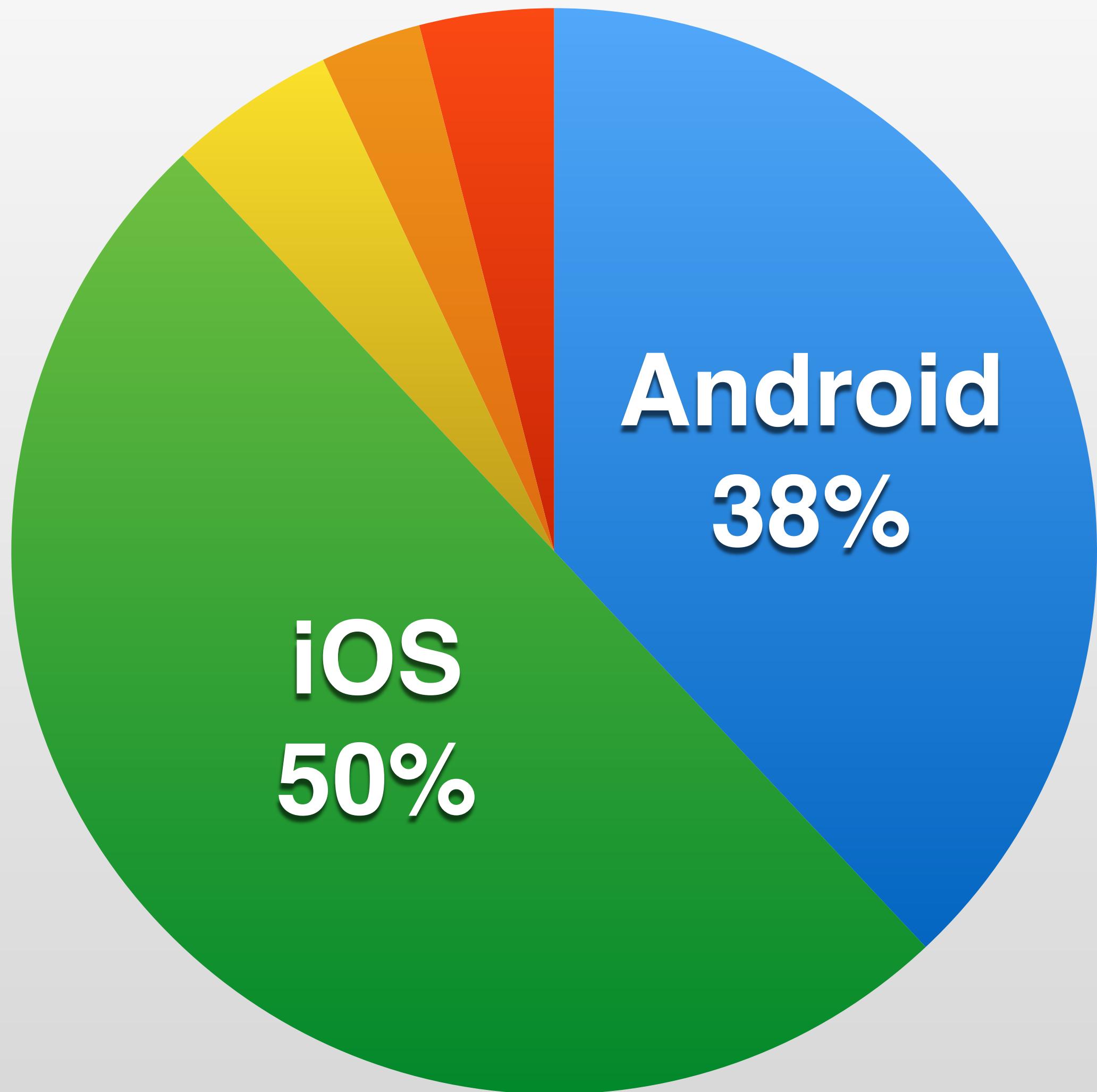
Send in Messenger

Copy Link

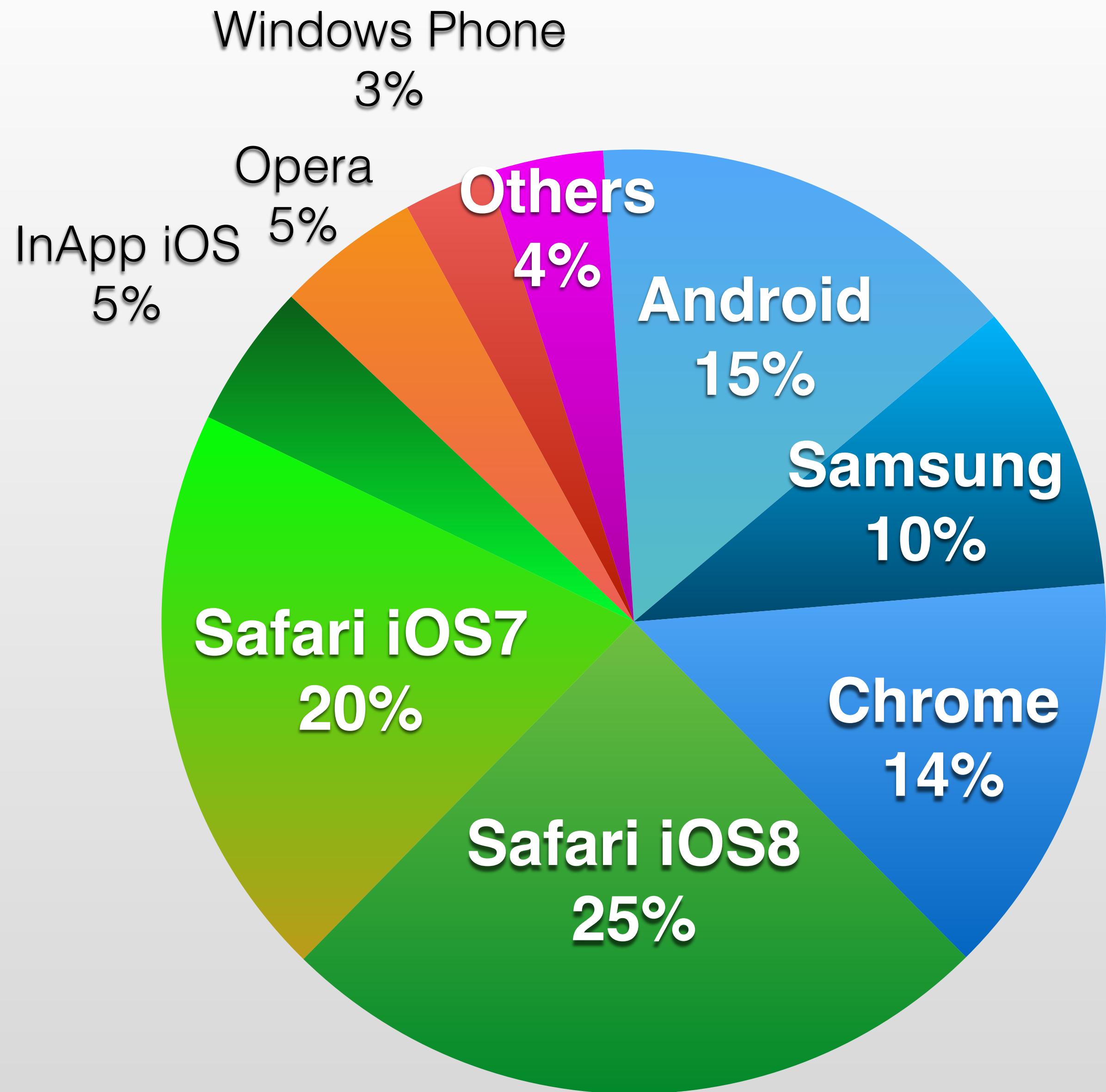
Open in Chrome Beta

Save Link

web platforms



web platforms



Others?

- Firefox
- UC Browser
- Nokia Browser
- BlackBerry Browser

1- mobile web today

- Understand the real ecosystem
- Android browsers
- Don't think you are an average user
- May change future

2- hardware access

Code time!

3- native integration

- with our own app
- with other apps
- with the OS

If you have your own app

- app banner
- communication

The Pinterest logo is displayed prominently at the top center of the screen.

Pinterest will work faster,
look better and do more
stuff if you use our app



600,000+ 5 star reviews!

Continue in Pinterest App

Continue in browser





<https://touch.www.linkedin.com>

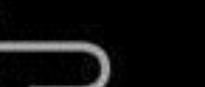
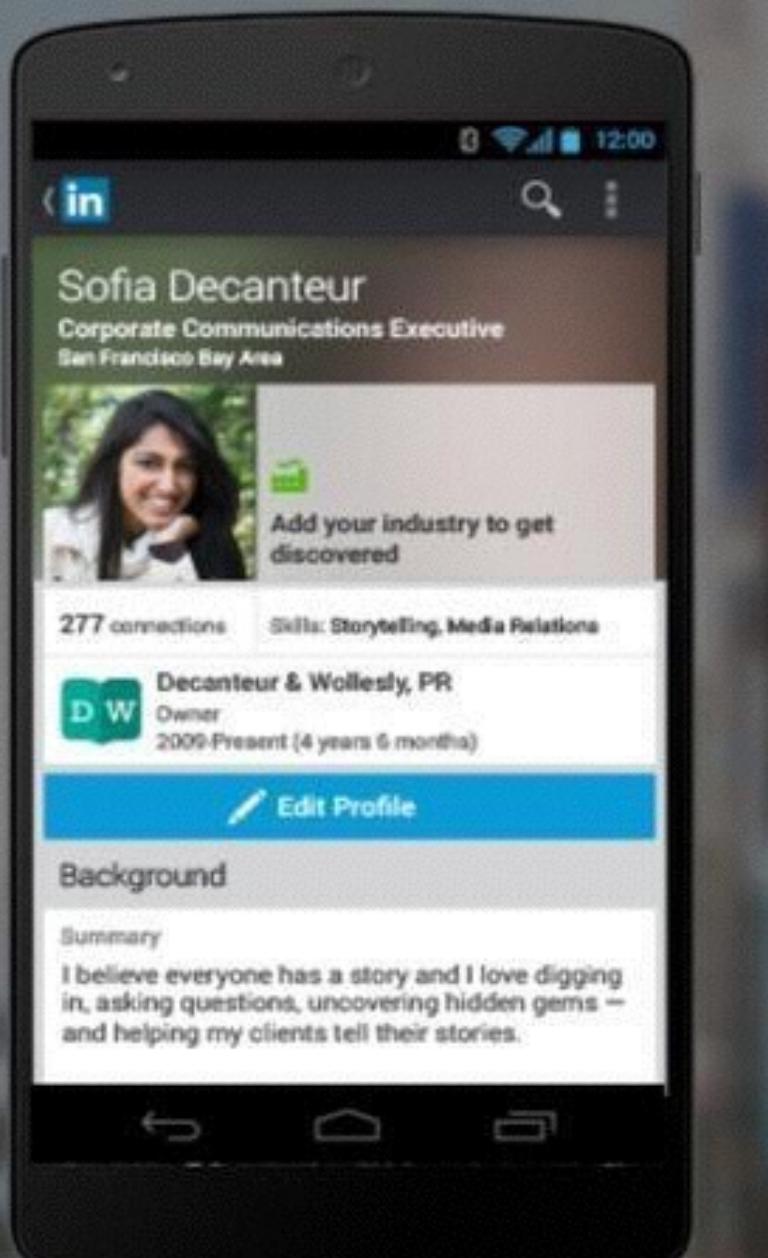
1



Sharing your story got simpler.
Easily edit your profile on the app.

Get the App

Continue to the mobile site



I Don't Want Your Fucking App

"Any modal message—full-screen or alert—that interrupts user flow to ask them to download your app suffers from #doorslam #ux antipattern." [Thus Spake @Aral](#)

This tumblr curated by [Terence Eden](#)

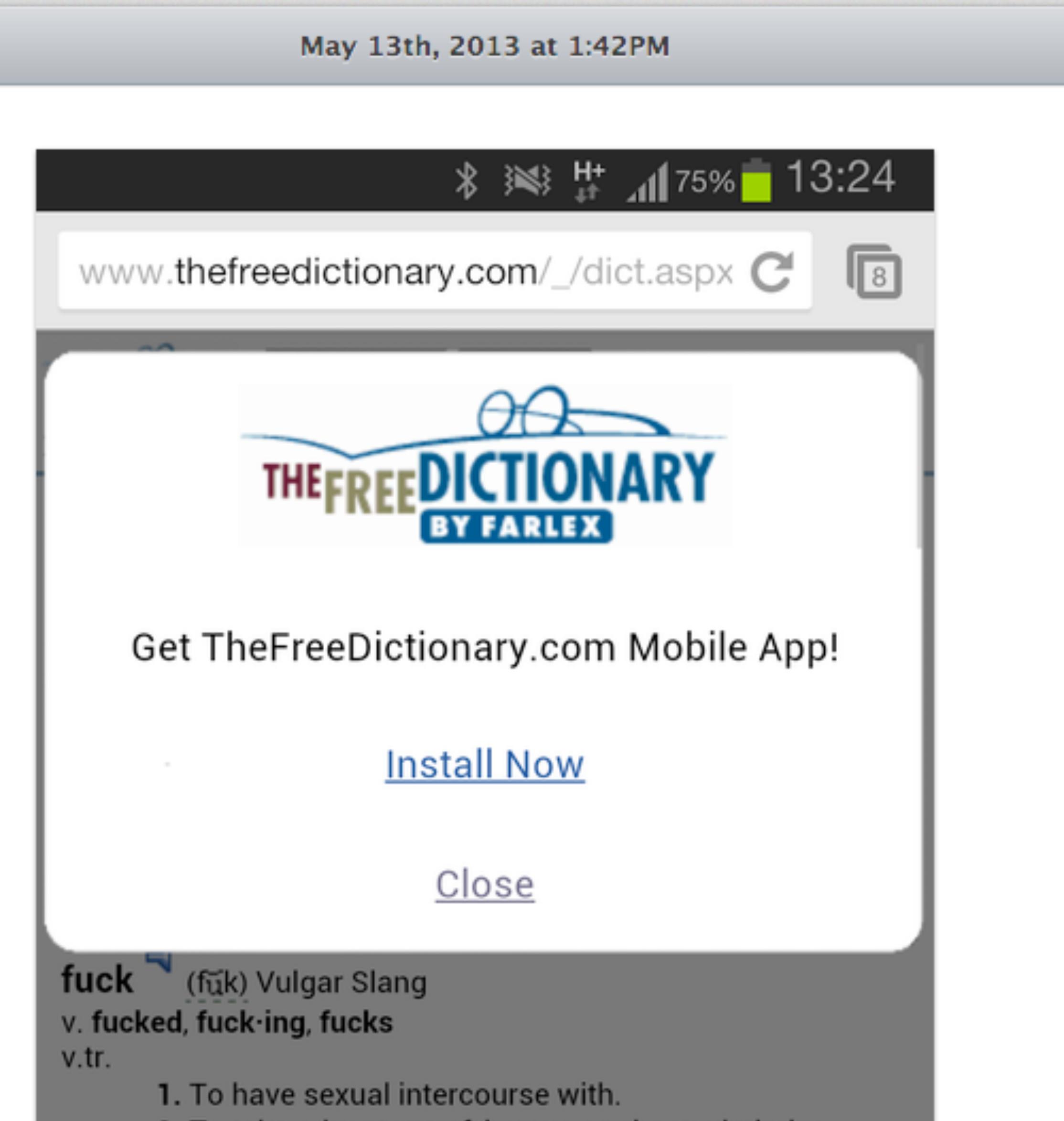
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May 13th, 2013 at 1:42PM



Solution, part I

DON'T DO THAT

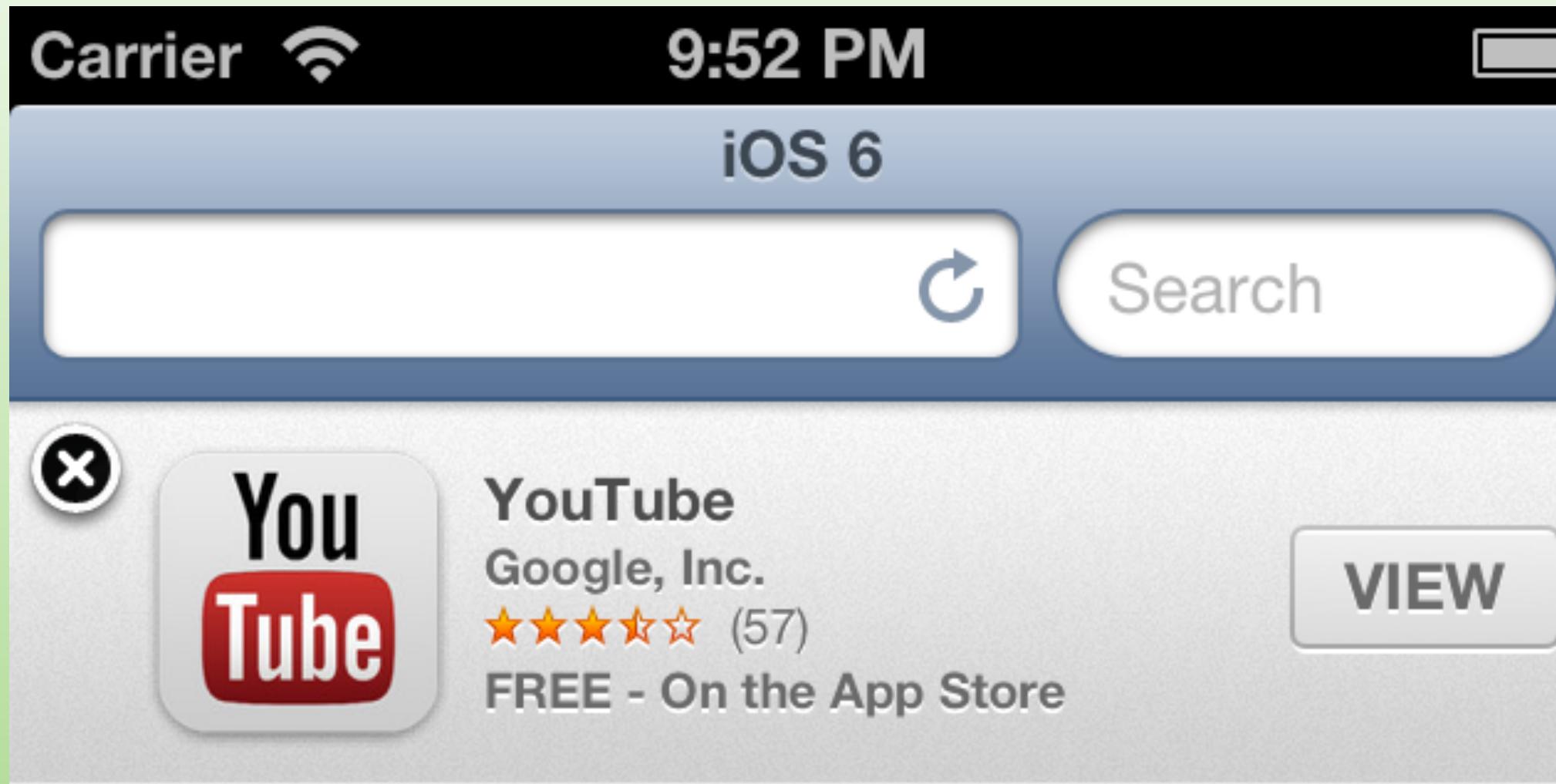
Solution, part II

native integration

```
<meta name="apple-itunes-app"  
      content="app-id=999">
```

iOS

native integration



native integration

```
<meta name="apple-itunes-app"  
      content="app-id=999">
```

```
<meta name="app-argument"  
      content="">
```

*If you want to communicate
to other app*

- uri schemes
- intents

Platform access

- hacks e-commerce
- page visibility
- airplay
- web notifications

E-commerce mobile

three . Look, this is getting confusing, just select some stuff below so we can get all touchy-feely-friendly with people on your behest.

Pay hikingfan@gmail.com

Pay with Google Wallet  Google Wallet

 Visa-1234

Ruslan Abdikeev
123 Spring Street, Mountai... Shipping

Cancel Continue

arms around them without actually

Basket

1 Simple hug X

Checkout

Safari since iOS 8

Verizon 12:07 PM 35% netflix.com

AMEX DISCOVER VISA MASTERCARD

Card Number 

Zip Code

Expiration Date

< > Scan Credit Card Done

1	2 ABC	3 DEF
4 GHI	5 JKL	6 MNO
7 PQRS	8 TUV	9 WXYZ
0		



Code time!

4- web apps

Code time!

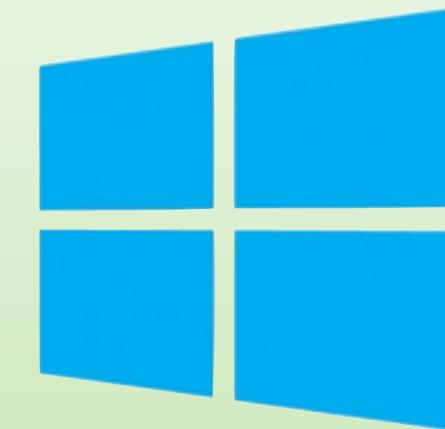
Web apps

- iOS
- Chrome on Android
- Firefox Open Webapps
- IE Live Tile

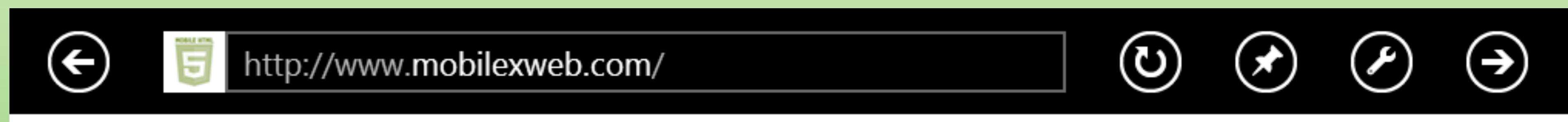
Code time!

native integration

```
<meta name="msApplication-ID"  
      content="App">  
  
<meta name="msApplication-PackageFamilyName"  
      content="myPackage">
```



native integration



native integration



native integration



native integration

```
<meta name="msApplication-ID"  
      content="App">  
  
<meta name="msApplication-PackageFamilyName"  
      content="myPackage">  
  
  
<meta name="msApplication-Arguments"  
      content="">
```



no api

no android

native integration

```
<meta name="msApplication-ID"  
      content="App">  
  
<meta name="msApplication-PackageFamilyName"  
      content="myPackage">  
  
  
<meta name="msApplication-Arguments"  
      content="">
```

native integration



live tile

EDITION: INTERNATIONAL | U.S. | MÉXICO | ARABIC
TV: CNN | CNN en Español
Set edition preference

CNN

SEARCH

Powered by Google

Home | Video | World | U.S. | Africa | Asia | Europe | Latin America | Middle East | Business | World Sport | Entertainment | Tech | Travel | iReport

Amanpour. WEEKNIGHTS 15:00 ET / 17:00 ET

Editor's choice

Stars & their fast cars

New front in war on cancer

Endeavour heads to L.A.

Tiny homes hit the big city

The Berzins built a tiny home in Virginia's Blue Ridge Mountains to free themselves of the financial burden of owning a larger home. Next stop for diminutive dwellings? New York City. [FULL STORY](#)

TOP U.S. STORIES

- Secret revealed: Ohio woman unknowingly married father
- Unlikely teachers find purpose in the classroom
- Amateur rancher brings Southwest wastelands back to life
- The college students you don't know
- Q&A: Remembering 'the empress of fashion'
- Balancing fear, hope after a school shooting
- Google map pic shows teen with gun WWJ
- Feds accuse North Carolina sheriff of racial profiling

CNN The power of CNN on your Windows Phone

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This Just In

Justice didn't OK flag salute ban

Attorneys release Open letter

U.S. News - Headlines, Stories and more

U.S. News - Headlines, Stories and more

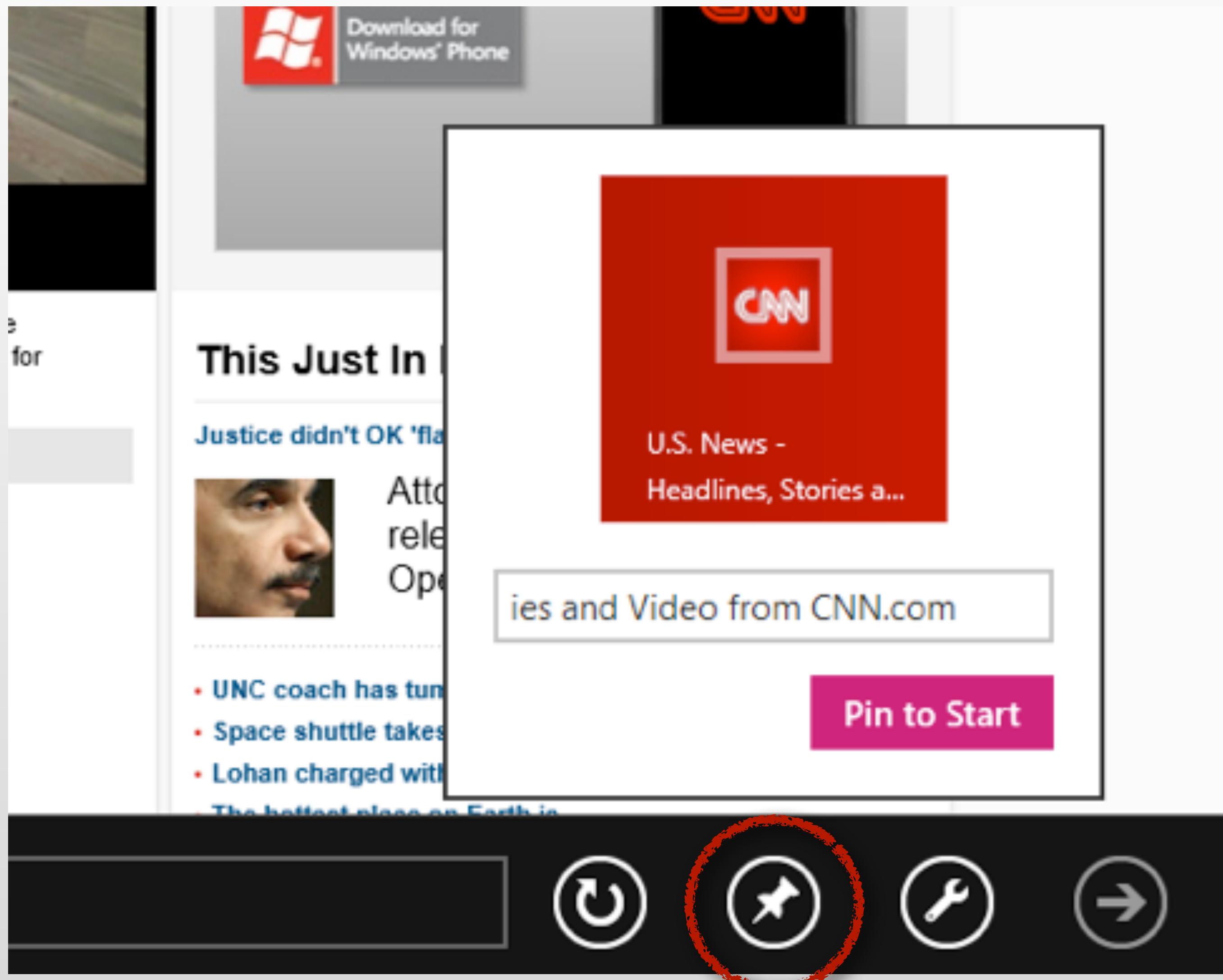
ies and Video from CNN.com

Pin to Start

← CNN →

<http://edition.cnn.com/US/>

live tile



live tile

```
<meta name="msapplication-TileImage"  
      content="tile.png">
```

```
<meta name="msapplication-TileColor"  
      content="#ef0303">
```

enhance your app

*You've said **live** tile!!!*

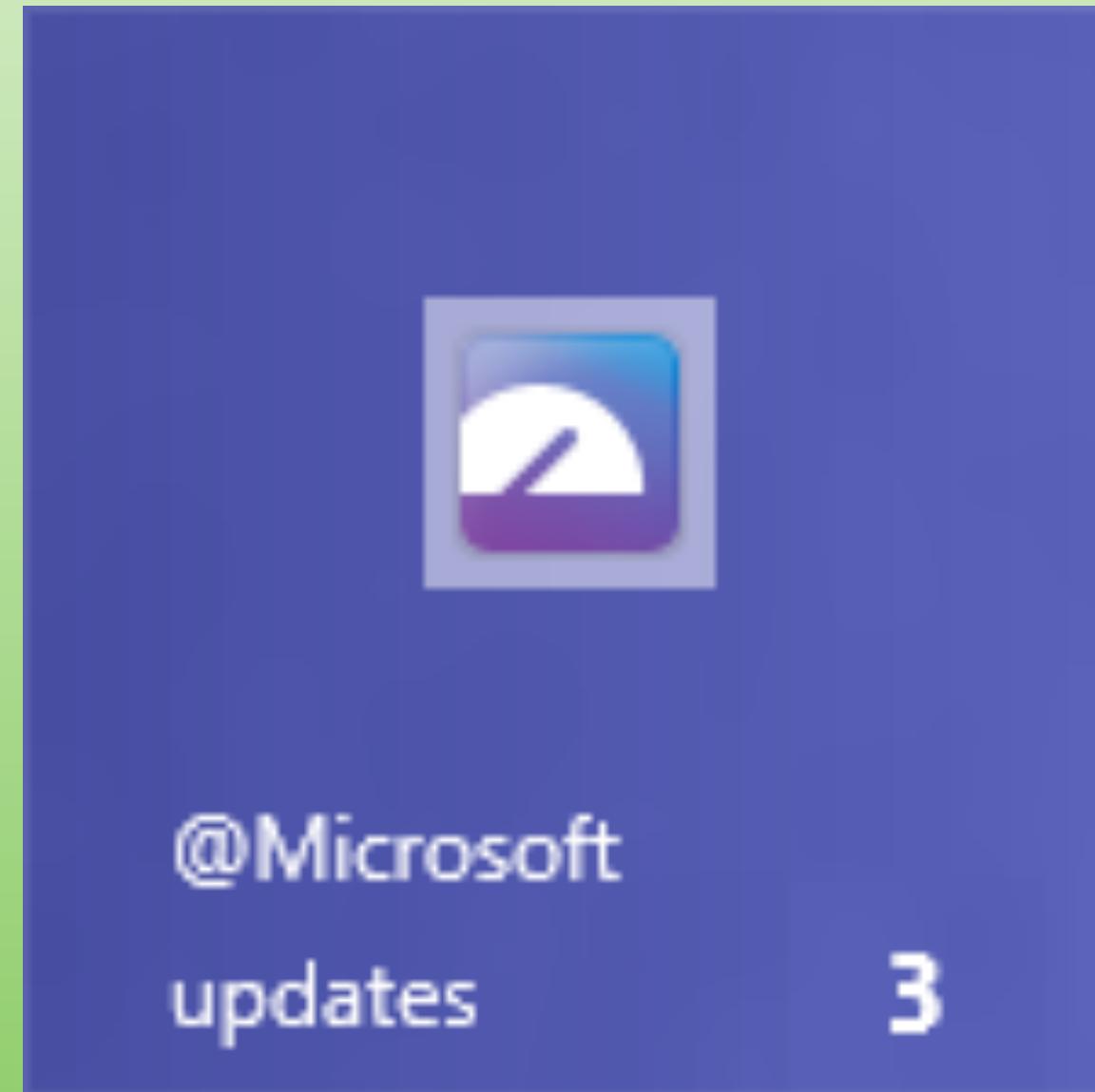
live tile

```
<meta name="msapplication-badge"  
      content="frequency=60;polling-uri=XXX">
```

live tile

```
<meta name="msapplication-badge"  
content="frequency=60;polling-uri=XXX">
```

```
<?xml version="1.0" ?>  
<badge value="3" />
```



live tile

```
<meta name="msapplication-badge"  
content="frequency=60;polling-uri=XXX">
```

```
<?xml version="1.0" ?>  
<badge value="newMessage" />
```



enhance your app

It's even better on

IE11



live tile

```
<meta name="msapplication-notification"  
      content="frequency=30;polling-uri=">
```



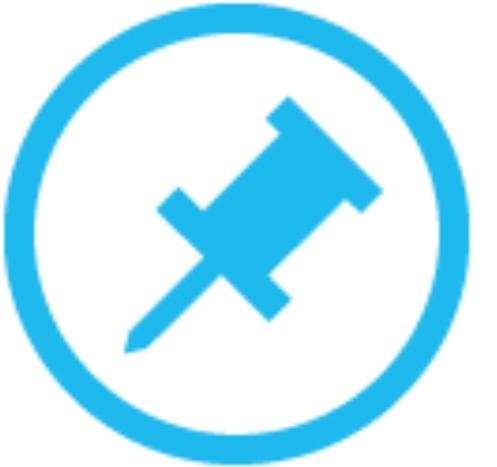
live tile

```
document.addEventListener('mssitepinned',  
    startPeriodicUpdateBatch, false);
```



live tile

```
document.addEventListener('mssitepinned',  
    startPeriodicUpdateBatch, false);
```



Got a minute? Build a site tile.

Your site sits next to apps on the Windows 8.1 Start Screen. Now with notifications. [Start now →](#)

① Build your own site tile ?

② Add Notifications ?

With Windows 8.1, pinned site tiles can notify a user outside Internet Explorer 11 and pull them right back in! If you have a web feed, you can automatically build notifications into your tile. Who said RSS was dead? If you don't have one, skip this step. You can choose to implement custom tile notifications later.

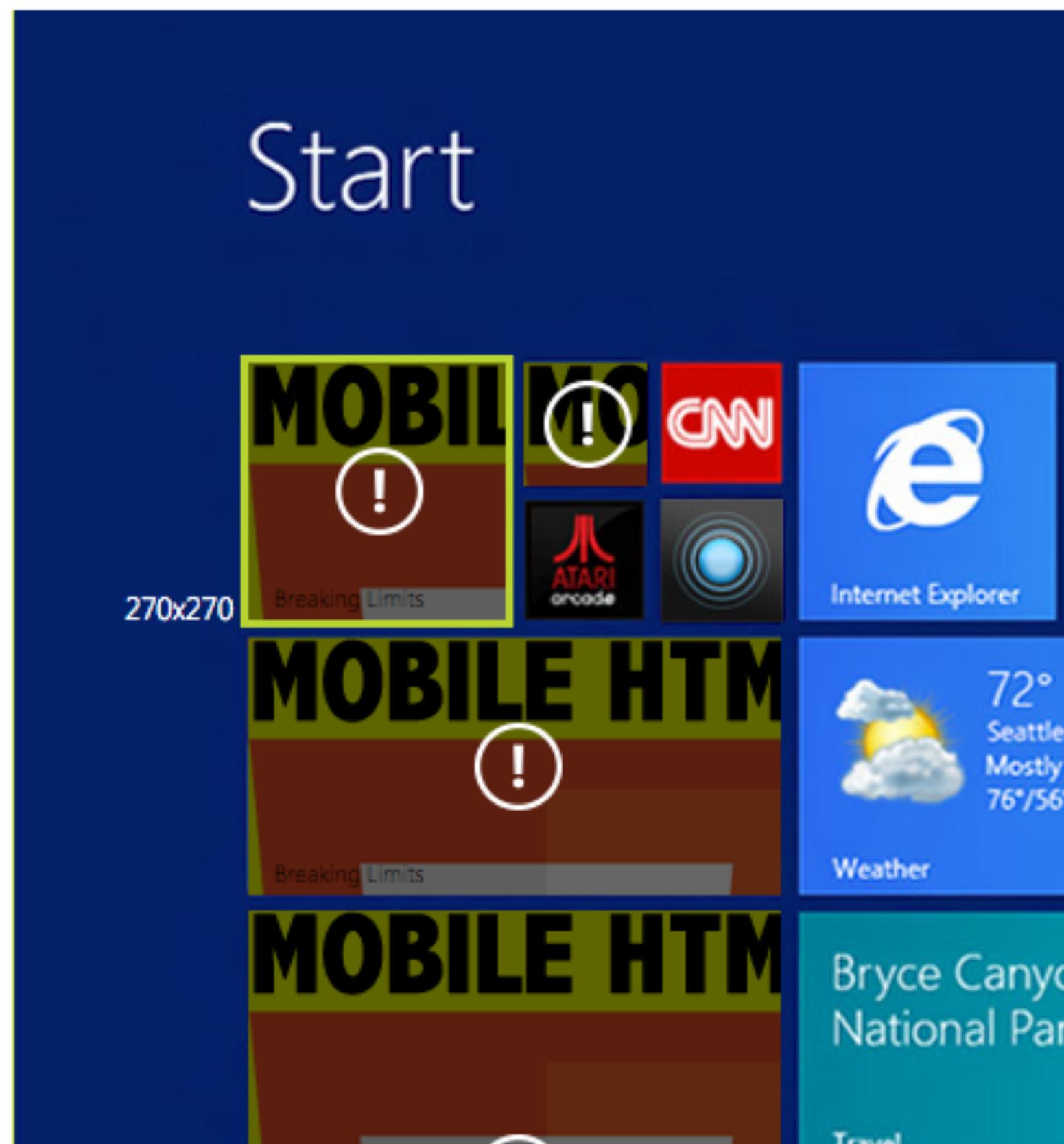
Put the URL to your RSS feed here Get feed →

Live updates will be created automatically from your RSS feed

Next Step →

③ Get the Code! ?

Live Preview



The image shows a Windows 8.1 Start screen with a dark blue background. There are several pinned tiles on the screen:

- A tile for "MOBILE HTM" with a red and brown design, featuring a white exclamation mark icon.
- A tile for "CNN" with the CNN logo.
- A tile for "Internet Explorer" with the classic IE logo.
- A tile for "Weather" showing a sun and clouds icon, with the text "72° Seattle Mostly 76°/56°".
- A tile for "Bryce Canyon National Park" with a teal background.
- A tile for "ATARI arcade" with the Atari logo.
- A tile for "Breaking Limits" with a grey background.
- A tile for "MOBILE HTM" with a green and brown design, featuring a white exclamation mark icon.
- A tile for "Travel" with a teal background.

The "MOBILE HTM" tiles are the ones that have been specifically pinned by the user using this service.

5- future

Service Workers

Push Messages

Navigation Transitions

New interaction types

Wearable integration

Integration with voice
assistants

The Physical Web

UriBeacon

firtman@gmail.com
@firt

5pm ModevLounge
Book signing

firt.mobi/mh5



firt.mobi/pmw

