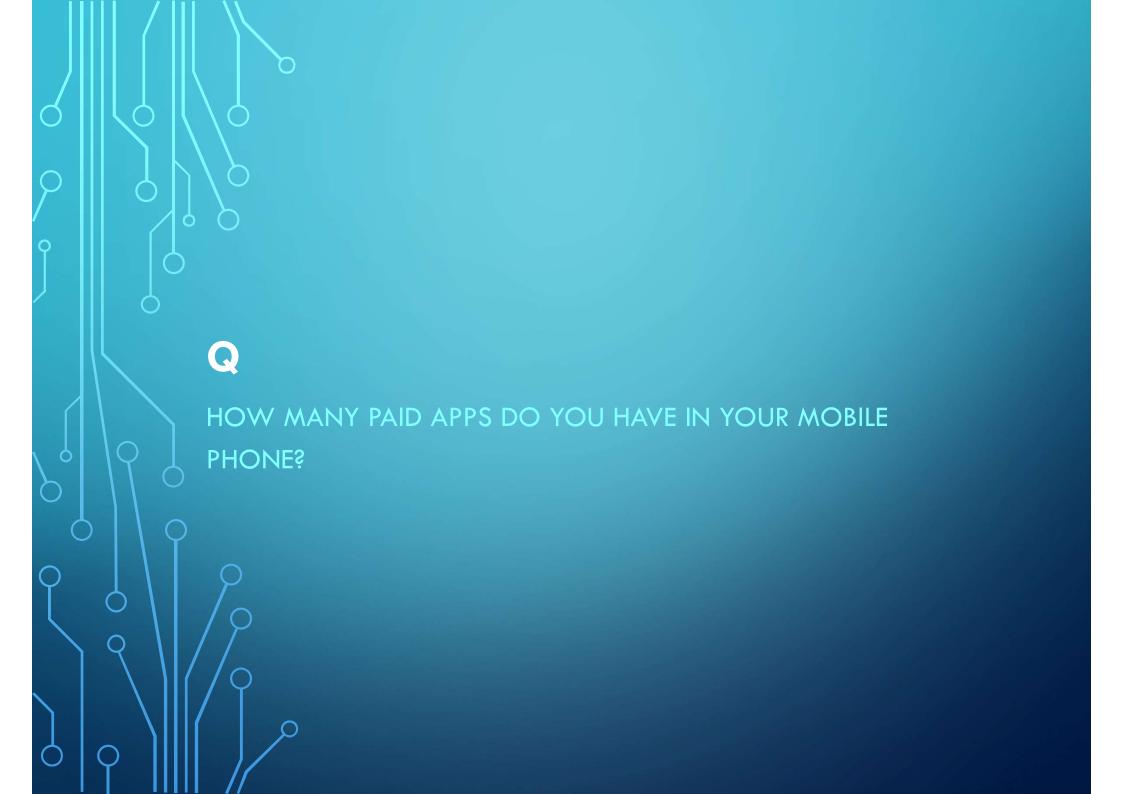
MOBILE APPS WHERE IS TECHNOLOGY HEADING?

BY ABU SHAFI



THE NUMBER OF SMARTPHONE USERS WORLDWIDE?

- In 2015 over **1.91 billion smartphone users**
- It will increase another 12.6% to near **2.16 billion** in 2016

HOW MANY APPS ARE AVAILABLE ON APP STORES AND GOOGLE PLAY?



million available apps

apps.

HOW MANY APPS DO YOU HAVE IN YOUR PHONE?



Top 10 Apps in 2015

RANK APP	AVG UNIQUE USERS
1 FACEBOOK	126,702,000
2 YOUTUBE 97,627,000	
3 FACEBOOK MESSENGER 96,444,000	
4 GOOGLE SEARCH 95,041,000	
5 GOOGLE PLAY 89,708,000	
6 GOOGLE MAPS 87,782,000	
7 GMAIL - EMAIL FROM GOOGLE 75,105,000	
8 INSTAGRAM 55,413,000	
9 APPLE MUSIC 54,550,000	
10 MAPS (APPLE) 46,406,000	

80%

OF TIME SPENT IS IN USERS' TOP 3 APPS

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

APPS INVESTMENT AND REVENUE

And it's expensive, especially compared to the web

IT spends more than 2x of its tech budget on apps than websites

Building Apps 10%

Vs.

Building and Maintaining Websites

8%

And spends more than \$13.5B annually on contractors to keep up with building and maintaining apps.

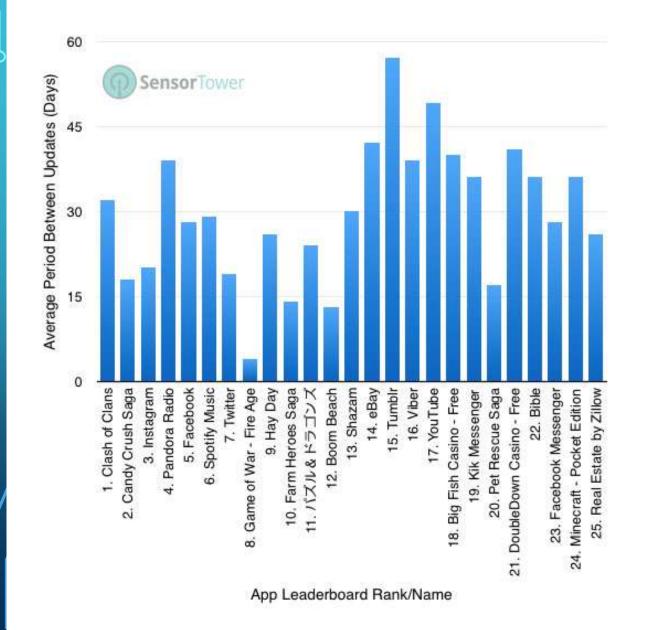
Maintaining Apps

COST OF DEVELOPMENT

- Cost of development \$50,000-\$120,000
- Maintenance cost \$2000-\$7000/yr
- Cost of updates \$5000-10,000 each update

medium-sized app using the <u>lean approach</u>, which delivers a Minimum Viable Product (MVP)

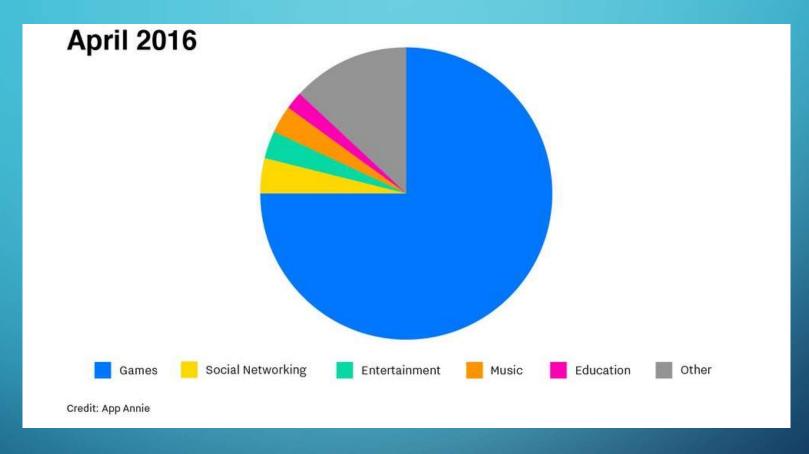
Average Number Of Days Between Version Updates For Top 25 iOS Apps



What we do part of the update

- Bug fixes
- Device compatibility

Application revenue



The Verge's Casey Newton wrote "the middle class for apps is shrinking. There are the whales, the game makers; there are the well-known social networking, cloud service, and entertainment apps; and then there's everybody else, left to figure out whether a one-time download fee, in-app purchases, or a subscription model could possibly work for them. (It often doesn't.) "

WHAT'S NEW

- Apple and Google both introduce subscription model which will allow developer charge for yearly subscription and major upgrade.
- Apple introduce new development platform Swift



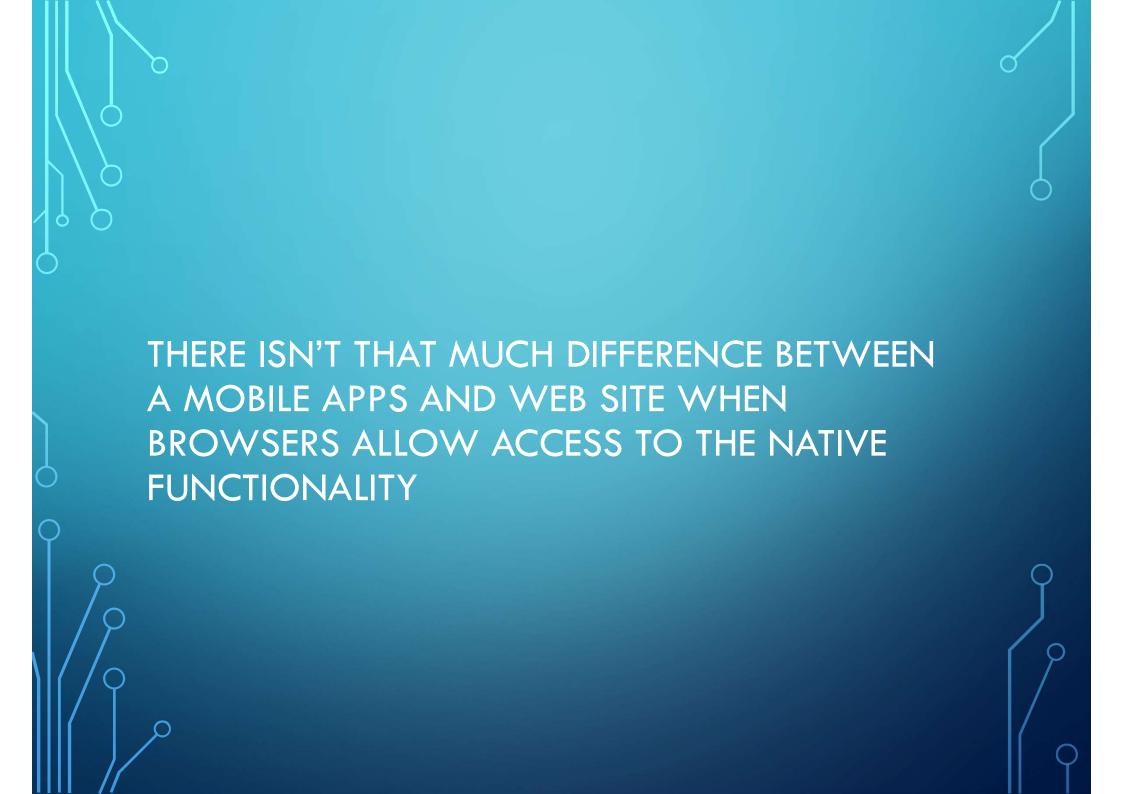
WHY OUR FAVOURITE BROWSERS DOESN'T ACT LIKE APPS WRAPPER AND WEB PAGES AS MOBILE APPS

What makes apps different?



- · Offline & Experience
- · Device "Real Estate"
- Device Storage
- · Notifications
- · Deep links
- iBeacons
- Sensors
 - · Camera
 - · Geolocation
 - · Touch ID
 - · Gyro
 - Compass
- All other APIs and Sensors that Apple, Google & Microsoft are building into their devices and OSs







INTRODUCING PWA

Progressive Web Applications take advantage of new technologies to bring the best of mobile sites and native applications to users. They're reliable, fast, and engaging.



Instant Loading

Service workers allow your apps to load nearly instantly and reliably, no matter what kind of network connection your user is on.



Add to Home Screen

Web app install banners give you the ability to let your users quickly and seamlessly add your web app to their home screen, making it easy to launch and return to your app.



Push Notifications

Web push notifications makes it easy to reengage with users by showing relevant, timely, and contextual notifications, even when the browser is closed.



Fast

Smooth animations, scrolling, and navigations keep the experience silky smooth.



Secure

HTTPS secures the connection between you and your users, ensuring your users information is protected and isn't tampered with.



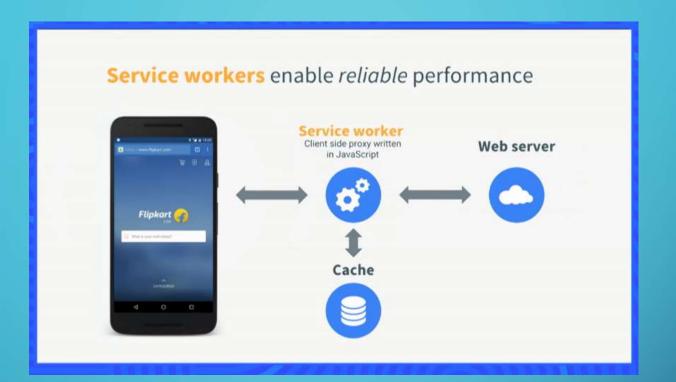
Responsive

Modern users live on phones, tablets and laptops; your apps and websites should do the same. Learn how to structure and code your content to look great on screens of any size.









AliExpress

2x more

page views

74% increase

in time spent

82% more

conversions on iOS



"One of the reasons we built a **Progressive**Web App was to be able to invest in the

web experience across all browsers. Not

only did we see huge benefits on browsers

that support the latest features, but we

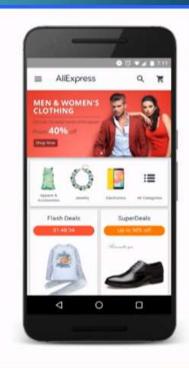
also got to see a bump across the board.

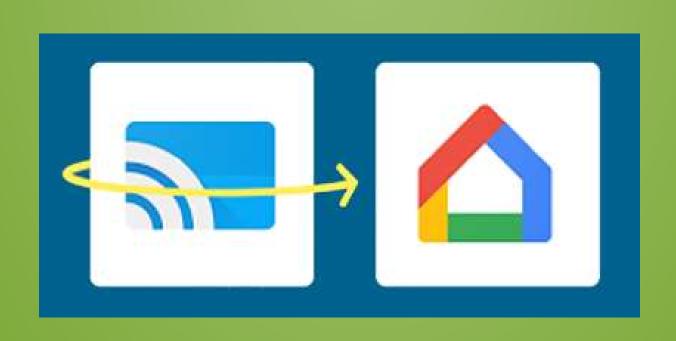
That is the sign of a great investment, and

one that will keep paying for itself as

browsers evolve."

Lijun Chen, Director of AliExpress Mobile Team.





Chromecast platform now only support PWA development only

Android Instant Apps

Native Android apps, without the installation

An evolution in app sharing and discovery, Android Instant Apps enables Android apps to run instantly, without requiring installation. Instant Apps lets you experience what you love about apps—fast and beautiful user interfaces, high performance, and great capabilities—with just a tap.

Request early access to the Instant Apps documentation today.

I'M INTERESTED IN ANDROID INSTANT APPS







MOBILE APPLICATION EVOLUTION



We don't need more apps we want apps to do more

WHAT WE NEED?

- Simple way to access native functionality
- Users just have to download once
- Less resource for simple apps
- Less time to development and go to market
- Offer super native experience without big expenses
- This does not remove the need for native experience but helps small and medium business for experiences

KEY POINT

- 80% of enterprise applications fail to engage users
- Can your app be one of the top 30 apps that people use every day
- Is it sustainable to create apps where return of investment is little to nothing
- Apple and Google both have to come to there senses
 - Browsers need to gear up to use mobile differently
 - Allow easy access to the hardware
 - Better UI framework (HTML 5/CSS3 not powerful enough)
 - Access to the processing
 - Move some of the elements to cloud/web