

Progressive Web Apps

Orri Arnarsson

Veit ekki
alveg hvað á
að standa hér



Hvað gerist ef eitthvað klikkar?

- Hvað ef síminn missir samband?
- Hvað ef gagnamagnið er búið?
- Hvað ef vefsíðan liggur niðri?



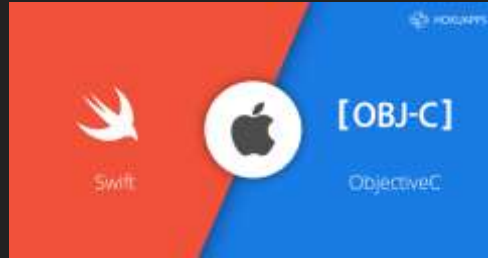
Sjitt!



Af hverju ekki
bara app?



Native apps eru flókin!



Hvað með cross-platform lausnir?

- Hægt að endurnýta mikið af kóða
- Þarf ekki að læra ný tungumál m.v. vefinn
- Algjör snilld?

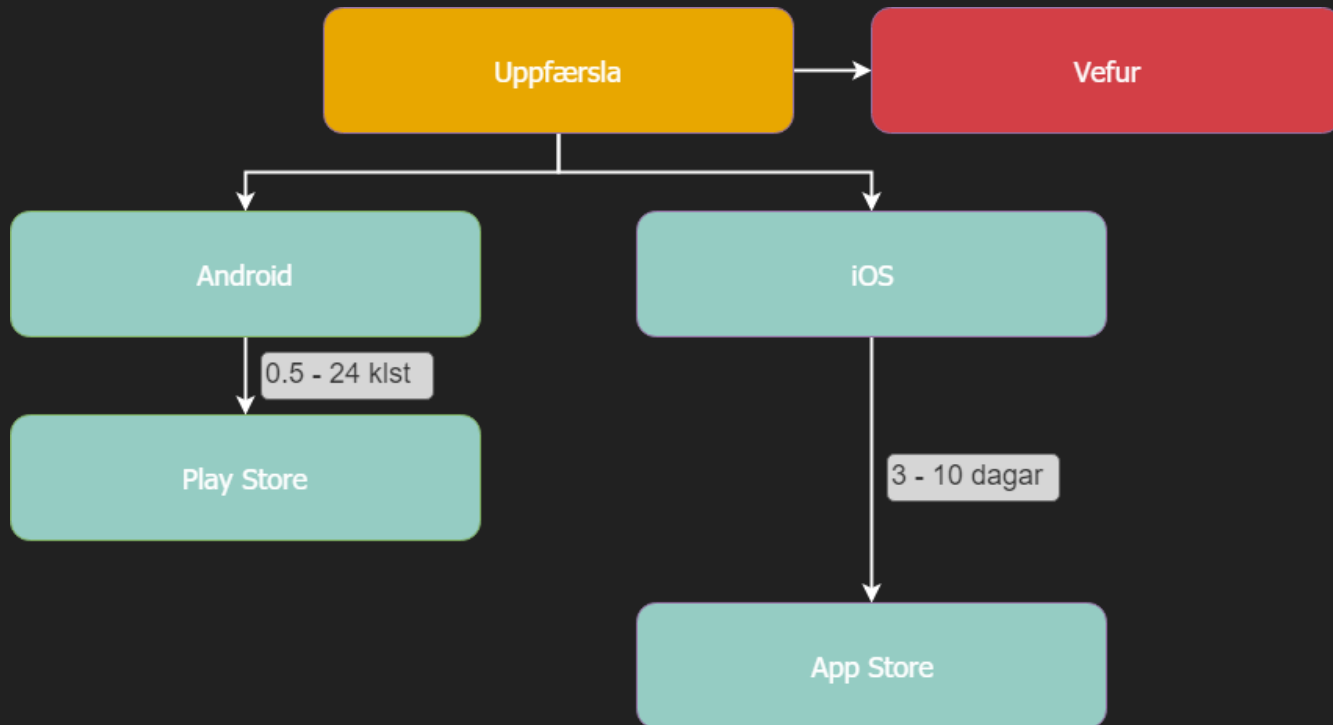


CORDOVA™

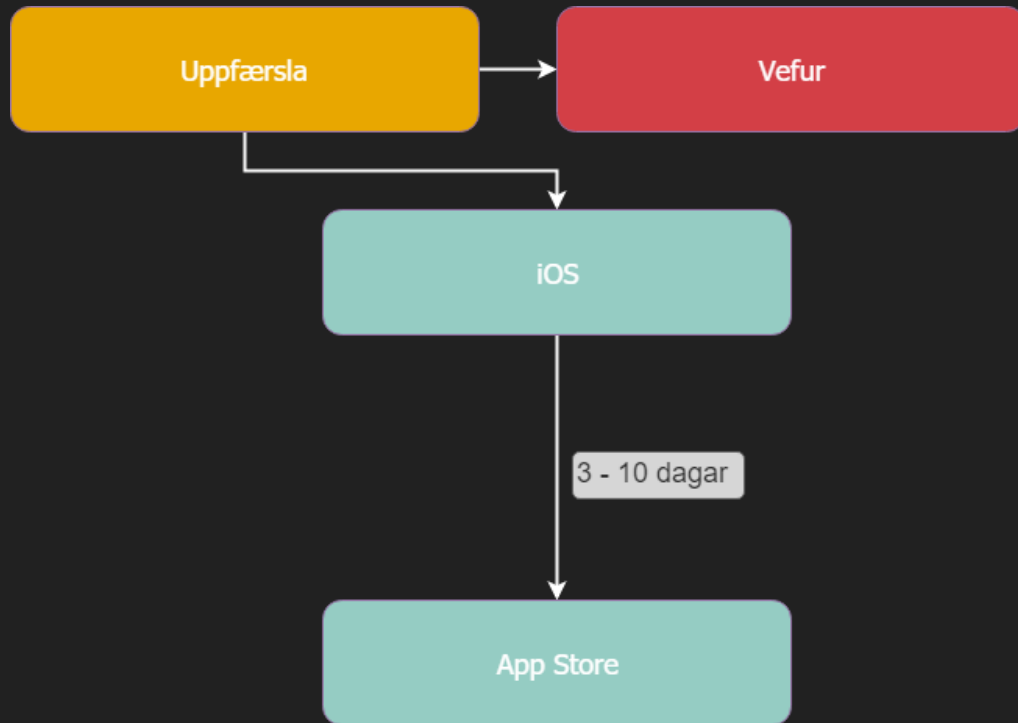
Native apps



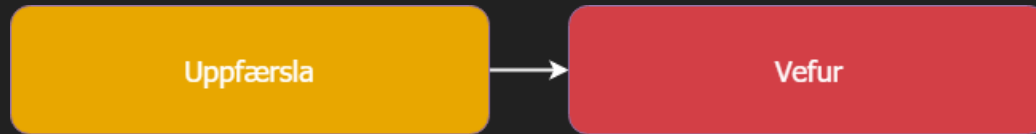
Vefsíða + iOS + Android



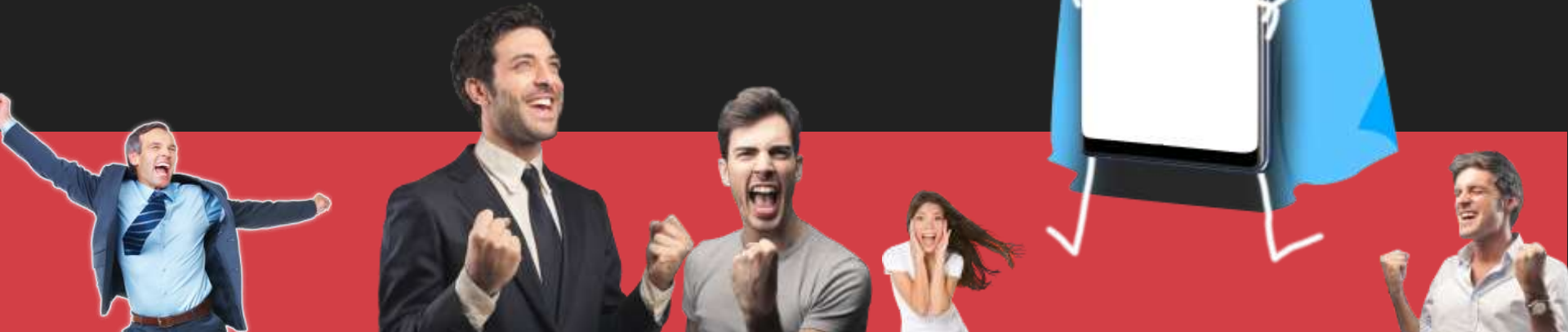
Vefsíða + iOS



Vefsíða



Progressive web app til bjargar!



Native apps

Möguleikar

Aðgengi

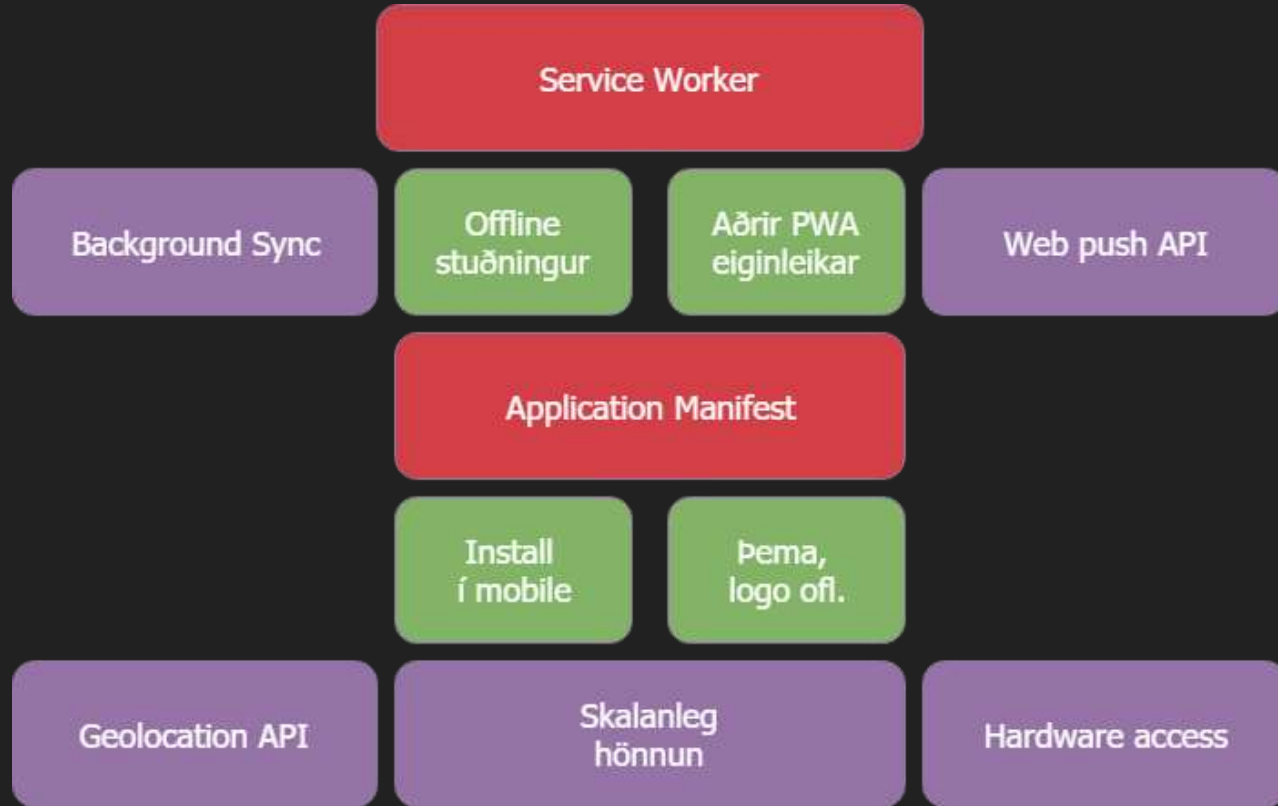
Hardware access, iOS
aðgengi

Aðeins í App Store.
Finnst ekki á Google.

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Native apps	Hardware access, iOS aðgengi	Aðeins í App Store. Finnst ekki á Google.
"Venjulegar" vefsíður	Ekkert hardware access.	Engar hömlur



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PWA	Hardware access, þokkalegt iOS aðgengi.	Engar hömlur.





Camera & Microphone

-  AUDIO & VIDEO CAPTURE ✓
-  ADVANCED CAMERA CONTROLS ✓
-  RECORDING MEDIA ✓
-  REAL-TIME COMMUNICATION ✓

Surroundings

-  BLUETOOTH ✓
-  USB ✓
-  NFC ✗
-  AMBIENT LIGHT ✗

Device Features

-  NETWORK TYPE & SPEED ✓
-  ONLINE STATE ✓
-  VIBRATION ✓
-  BATTERY STATUS ✓
-  DEVICE MEMORY ✓

Native Behaviors

-  LOCAL NOTIFICATIONS ✓
-  PUSH MESSAGES ✓
-  HOME SCREEN INSTALLATION ✓
-  FOREGROUND DETECTION ✓
-  PERMISSIONS ✓

Operating System

-  OFFLINE STORAGE ✓
-  FILE ACCESS ✓
-  CONTACTS ✗
-  SMS ✗
-  STORAGE QUOTAS ✓
-  TASK SCHEDULING ✗

Input

-  TOUCH GESTURES ✓
-  SPEECH RECOGNITION ✓
-  CLIPBOARD (COPY & PASTE) ✓
-  POINTING DEVICE ADAPTATION ✓

Seamless Experience

-  OFFLINE MODE ✓
-  BACKGROUND SYNC ✓
-  INTER-APP COMMUNICATION ✗
-  PAYMENTS ✓
-  CREDENTIALS ✓

Location & Position

-  GEOLOCATION ✓
-  GEOFENCING ✗
-  DEVICE POSITION ✓
-  DEVICE MOTION ✓
-  PROXIMITY SENSORS ✗

Screen & Output

-  VIRTUAL & AUGMENTED REALITY ✗
-  FULLSCREEN ✓
-  SCREEN ORIENTATION & LOCK ✓
-  WAKE LOCK ✗
-  PRESENTATION FEATURES ✓

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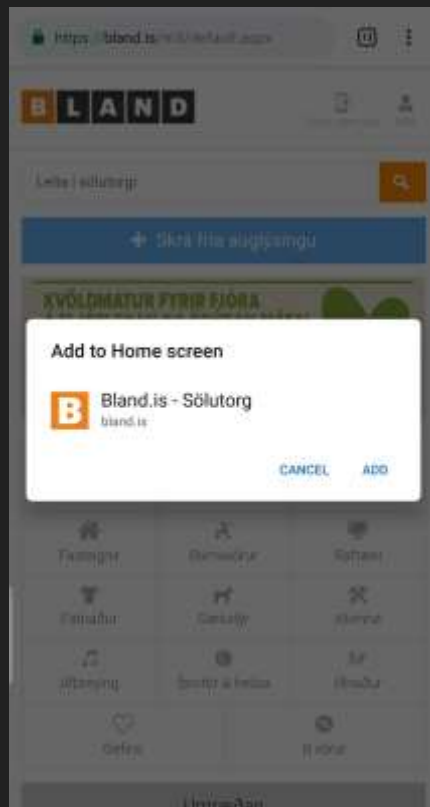
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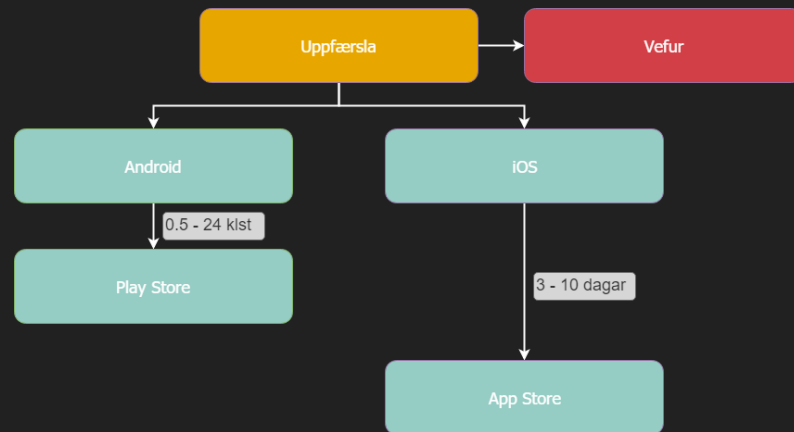
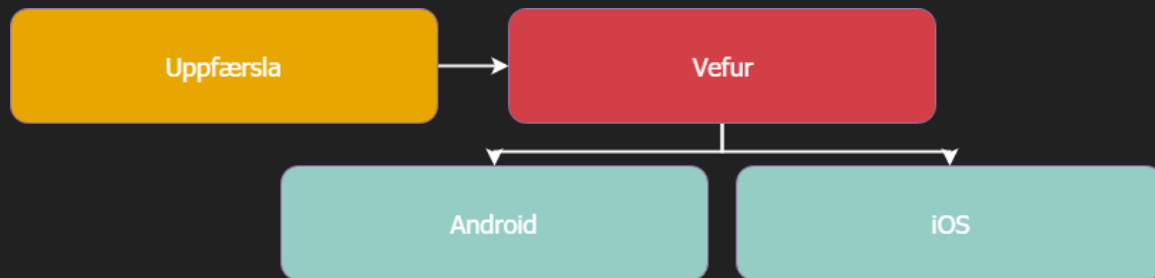
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Home screen installation



PWA = Vefsíða



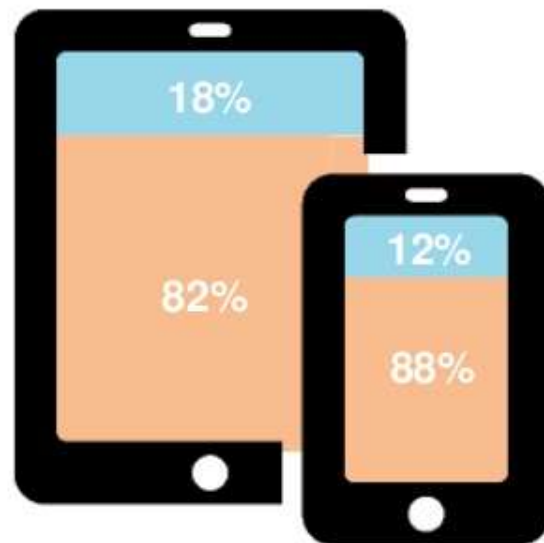
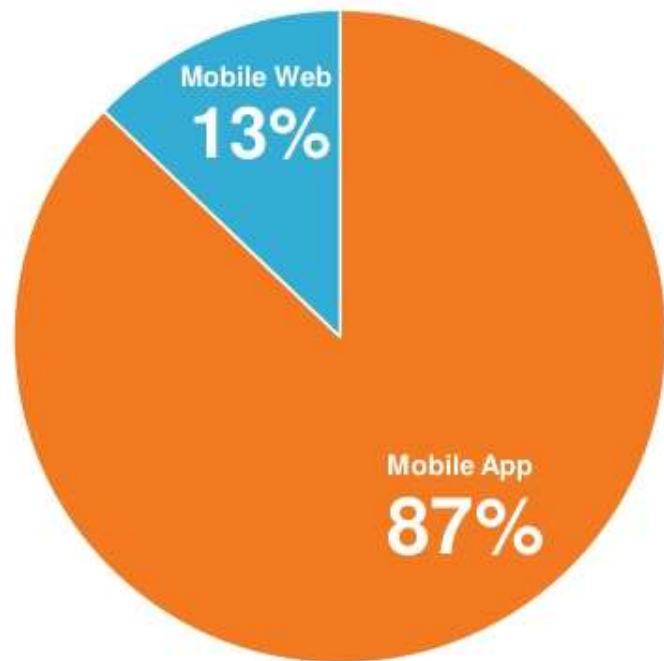
Gallar



Mobile app dominates time spent vs. mobile web, with a slightly higher split for smartphones than tablets

Share of Time Spent on Mobile: App vs. Web

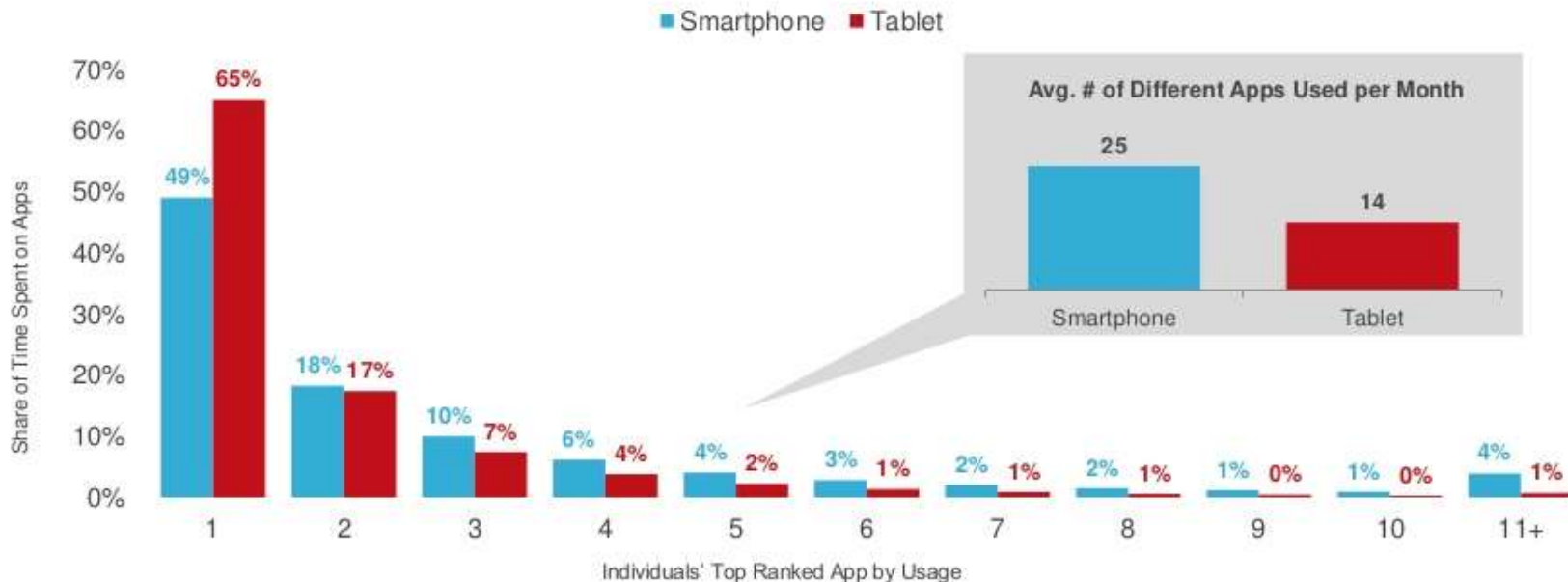
Source: comScore Mobile Metrix, U.S., Age 18+, June 2017



Smartphone users spend half their time on their #1 most used app, while tablet users spend almost 2/3^{rds} of their time on it

Share of Individual Users' Time Spent on Apps by Rank

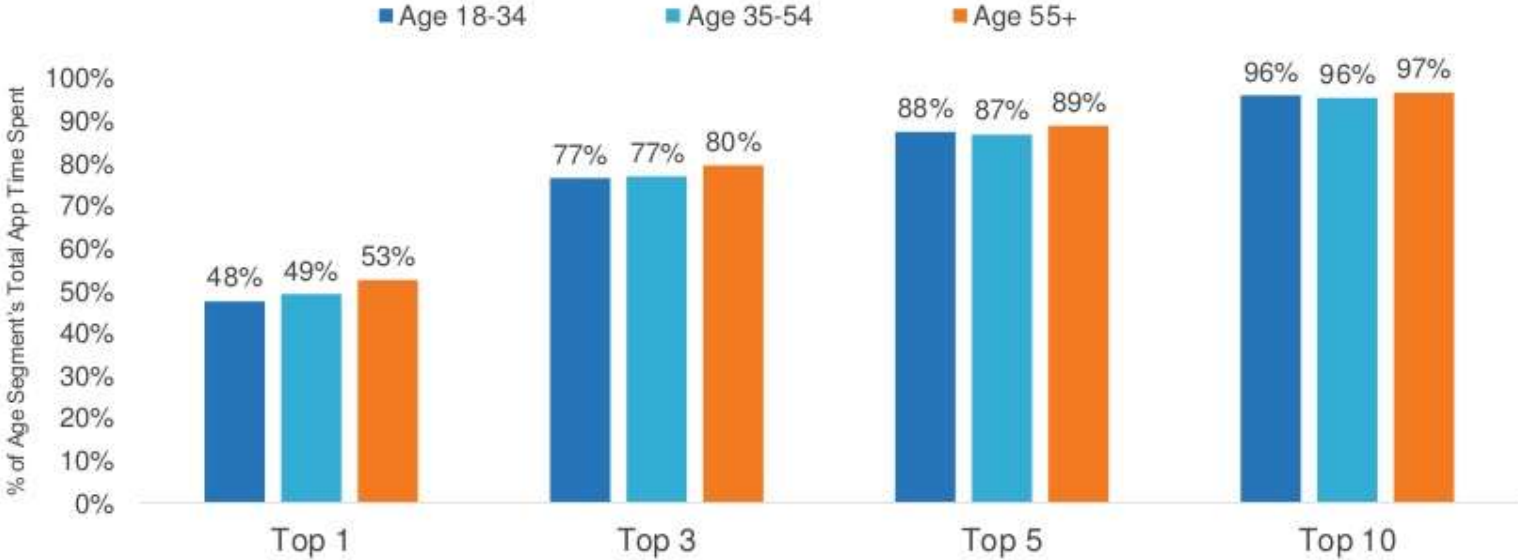
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Across age segments, smartphone users' #1 app accounts for half of all time spent on apps, and the top 10 account for almost the entirety

Concentration of App Time Spent by Smartphone App Rank

Source: comScore Mobile Metrix (Custom), U.S., Age 18+, June 2017



Twitter lite



75% aukning í tístum

20% minna “bounce rate”

65% fleiri “pages per session”

“Twitter Lite er núna hraðvirkasta, ódýrasta og áreiðanlegasta leiðin til þess að nota Twitter. Vefappið er á pari við native öppin sem við bjóðum upp á en notar 3% af gagnaplássi appana sem við smíðuðum fyrir Android.”

Nicolas Gallagher,

sem leiðir forritunarteymi Twitter Lite

Takeaway

PWA er minna vesen heldur en native app

Ekki framework specific

PWA er ekki silver bullet

Apple er með vesen



Takk fyrir mig

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