

### Angular Mobile (PWA)



#### HELLO WORLD!

My name is Christina (:

Christina Kayastha
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Vistaprint, Boston, MA
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I'm all about:

- Icecream
- Community Events
- Bleeding Edge Technology





### BUILD FOR MOBILE Progressive Web App



2

MANAGE STATE Redux



3

USER INTERFACE

Material



4

AUTH & DATABASE Firebase



5

ANGULAR APP SPEED RUN!!

Everything



# BUILD FOR MOBILE Angular Mobile (PWA)

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# Angular Mobile (PWA) WHAT is it? HOW can I use it? WHY should I care?



# Why should I care about MOBILE?

### 1992 2000 2007



First 'SmartPhone'



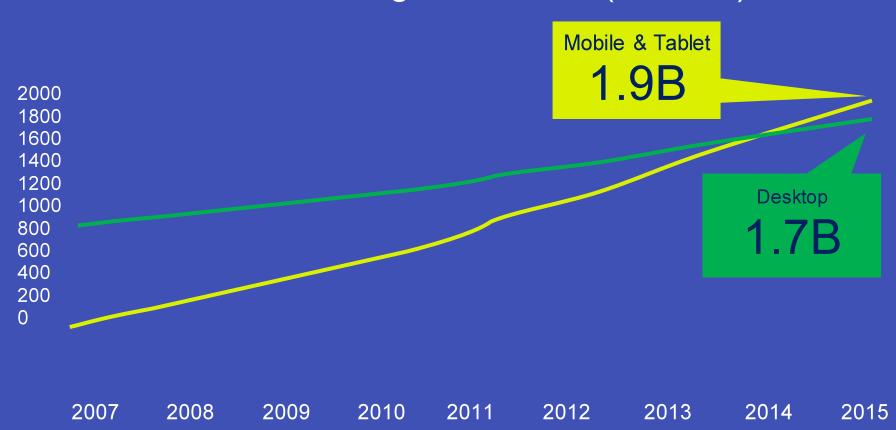
Smartphone becomes commercial



First
Touchscreen
'SmartPhone'

#### Number of global Mobile users surpasses Desktop

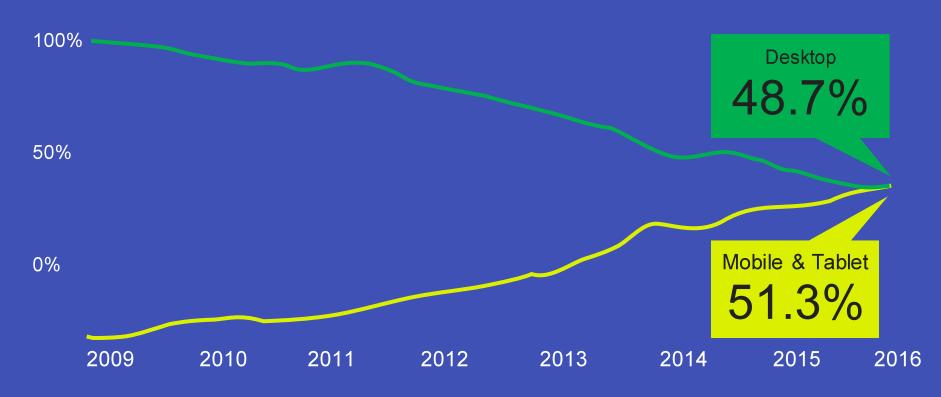




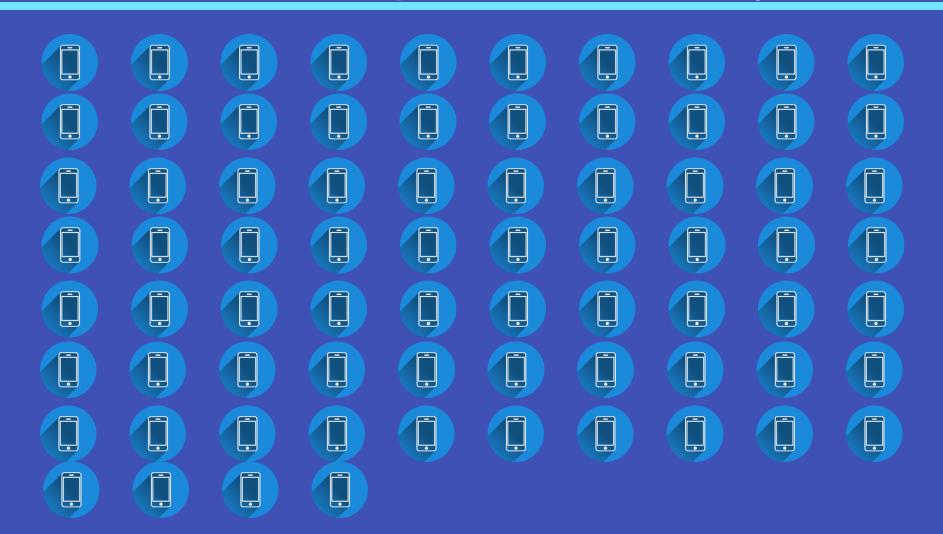
http://www.smartinsights.com/mobile-marketing/mobile-marketing-analytics/mobile-marketing-statistics/

#### Internet usage on Mobile surpasses Desktop

#### Internet Usage world wide



We check our phones 74 times a day!





5.4B

#### MOBILE PHONE

5.3B

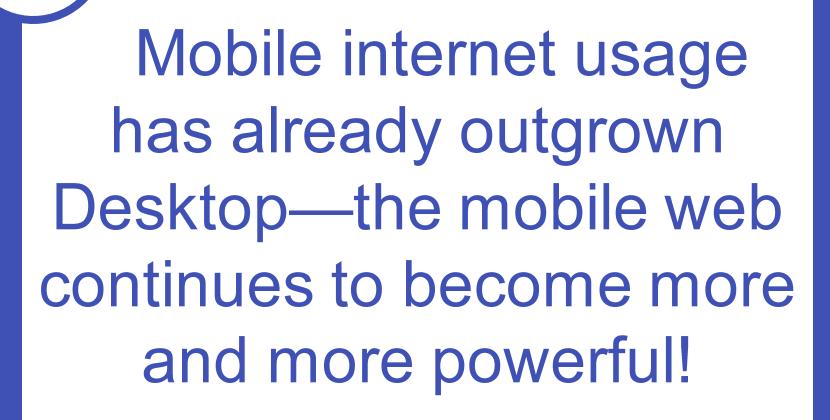
ELECTRICITY

3.5B

**WATER** 



# IDO care about MOBILE!



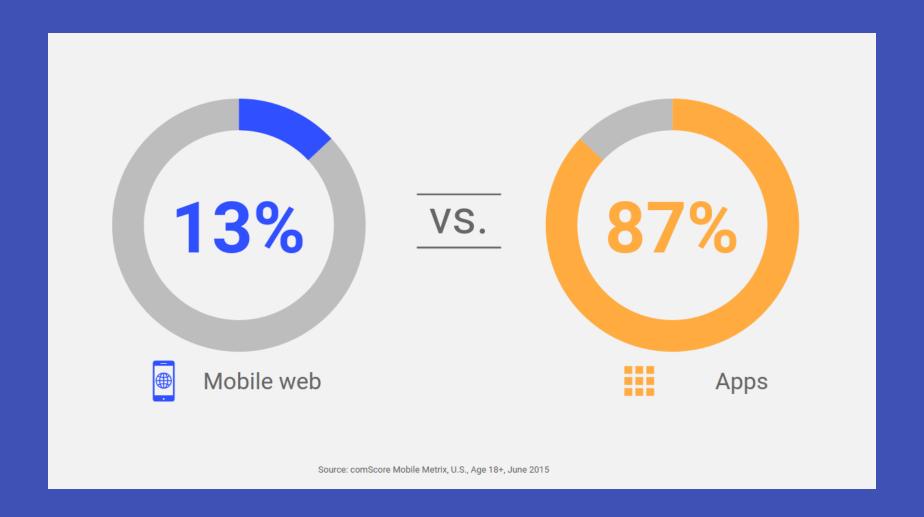


### What does PROGRESSIVE WEB APP mean anyway?

### Progressive?

Happening or developing gradually or in stages; proceeding step by step.

(of a group, person, or idea) favoring or implementing social reform or new, liberal ideas.



# Of user's time spent in top 3 apps

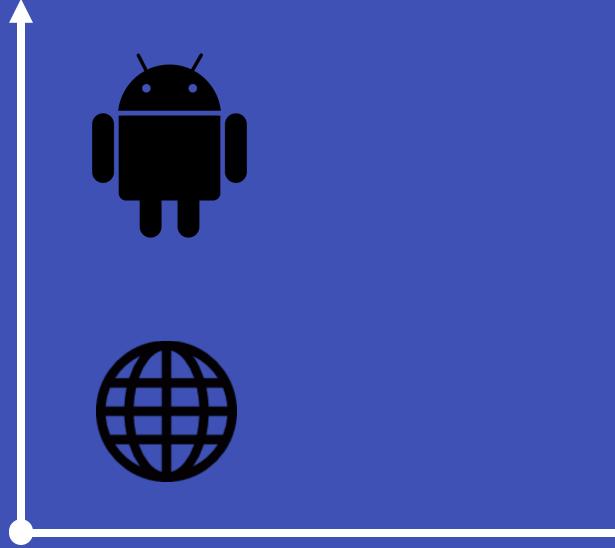
# 80%

# Of user's time spent in top 3 apps



### New Applications Installed per Month

### New Applications Installed per Month



### Reach

# Progressive Web Apps Are a whole new way of caring about your User Experience

### User experiences need to be:

Reliable

**Fast** 

**Engaging** 

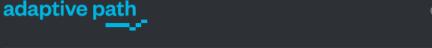
### User experiences need to be:

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#### Ajax: A New Approach to Web Applications

February 18, 2005 | By Jesse James Garrett

If anything about current interaction design can be called "glamorous," it's creating Web applications. After all, when was the last time you heard someone rave about the interaction design of a product that wasn't on the Web? (Okay, besides the iPod.) All the cool, innovative new projects are online.

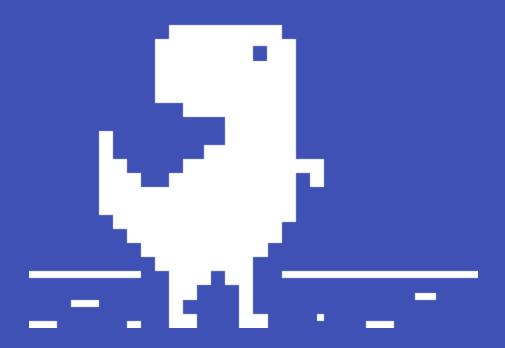
Despite this, Web interaction designers can't help but feel a little envious of our colleagues who create desktop software. Desktop applications have a richness and responsiveness that has seemed out of reach on the Web. The same simplicity that enabled the Web's rapid proliferation also creates a gap between the experiences we can provide and the experiences users can get from a desktop application.

That gap is closing. Take a look at Google Suggest. Watch the way the suggested terms update as you type, almost instantly. Now look at Google Maps. Zoom in. Use your cursor to grab the map and scroll around a bit. Again, everything happens almost instantly, with no waiting for pages to reload.



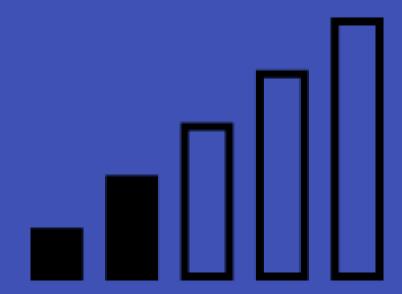








#### Lie-fi



# Reliability means never showing the Downasaur





### User experiences need to be:

Reliable

Fast

**Engaging** 

# 70/0

Users abandon sites that take more than 3 seconds to load

# 53%

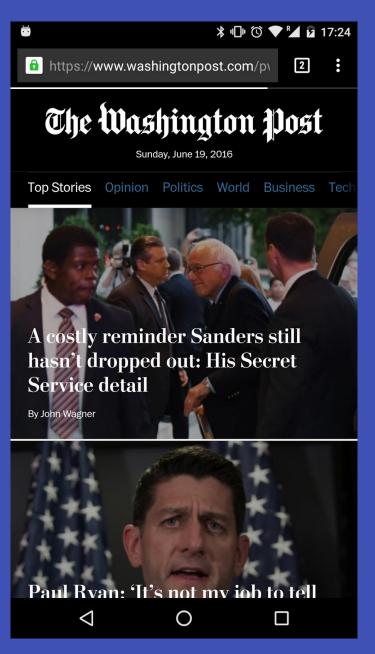
Users abandon sites that take more than 3 seconds to load

### User experiences need to be:

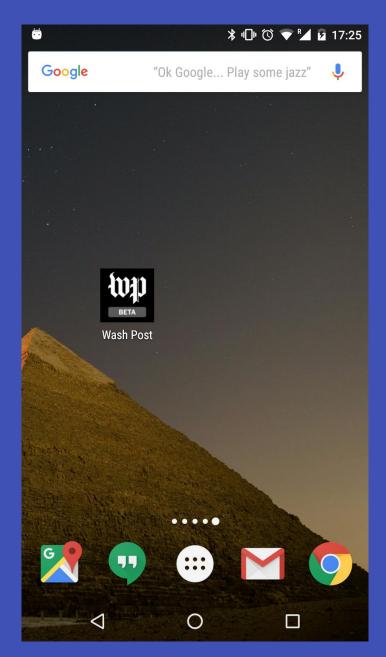
Reliable

**Fast** 

**Engaging** 

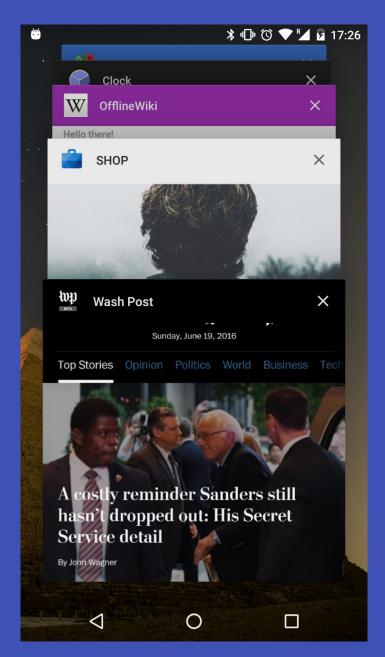












#### The Washington Post

80ms

article page load time in the Progressive Web App

Poynter article



#### User experiences need to be:

Reliable

**Fast** 

**Engaging** 

# Progressive Web Apps Are a whole new way of caring about your User Experience



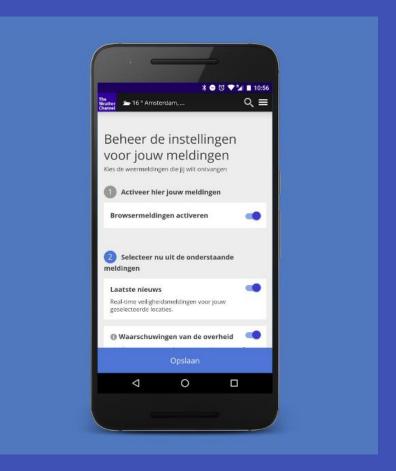
Both data points are compared to native app











A Progressive Web App uses modern browser capabilities for native applike experiences that are Reliable, Fast and Engaging



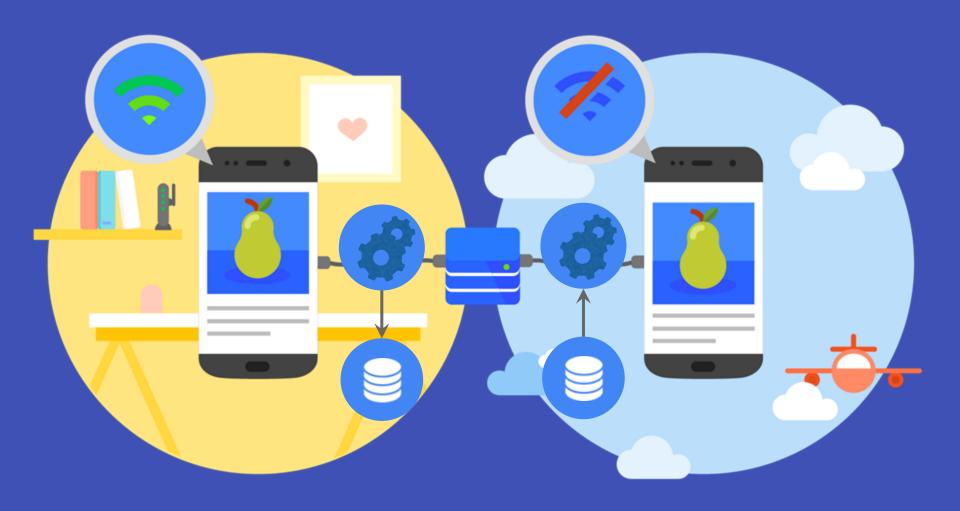
# HOW do I build a Progressive Web App?



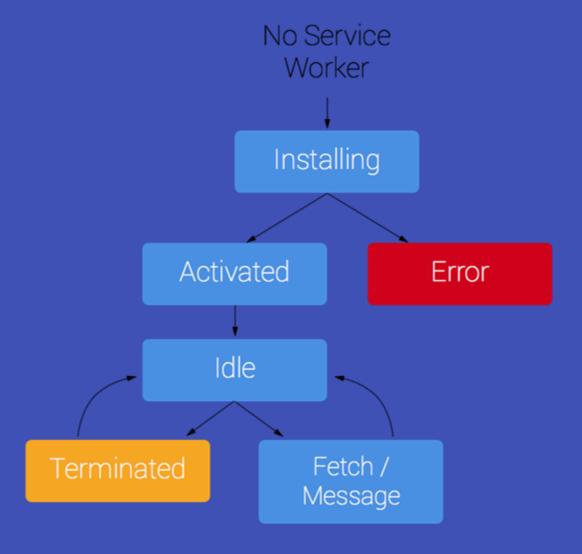
Reliable

**Fast** 

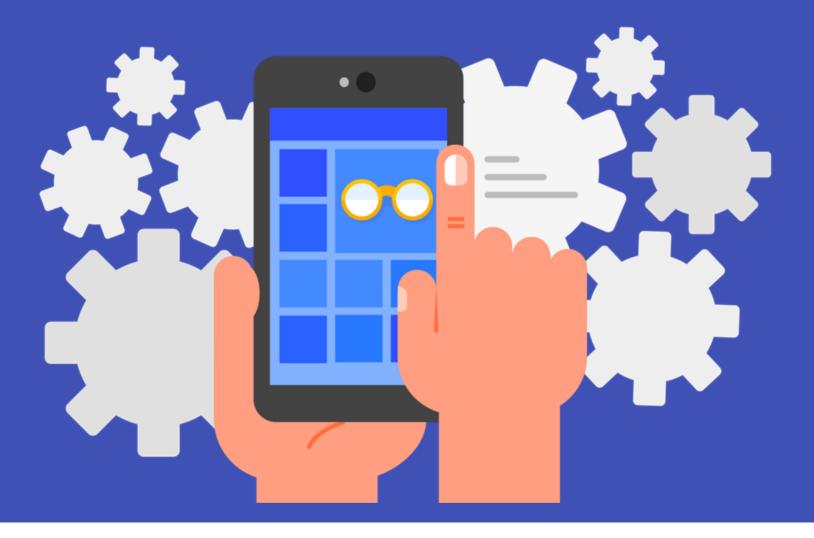
**Engaging** 



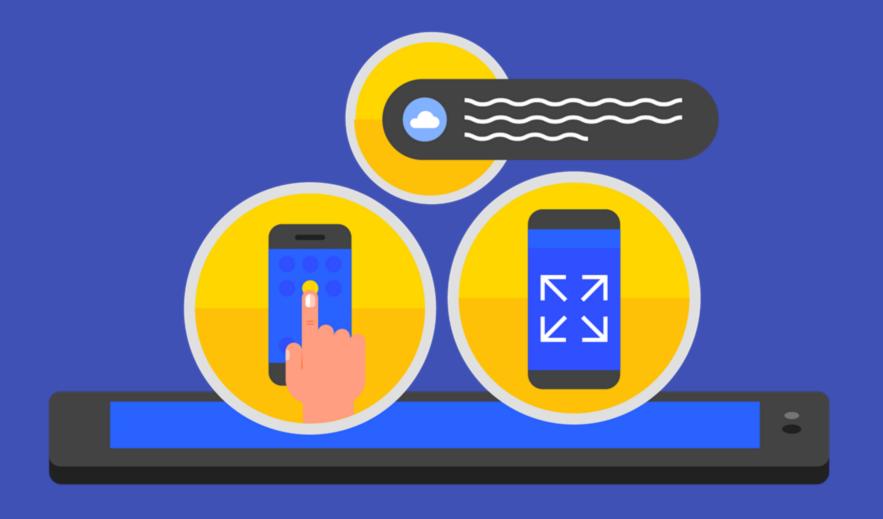
#### Reliable with Service Worker



#### Reliable with Service Worker



Fast with App Shell Cache



Engaging with Homescreen & Push



#### To build a PWA:

- 1) Service Worker: Go Offline
- 2) Manifest: Engage Users



# WHAT is Angular Mobile?

Angular Mobile is a collection of plugins and libraries for the App Shell, Service Worker, and App Manifest...



## Angular Mobile is not ready for use...



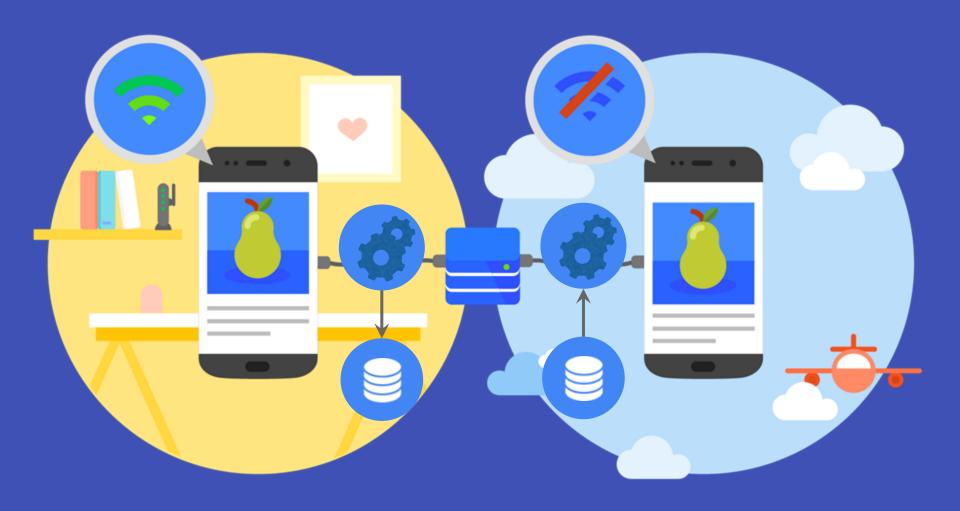
## There's PWA support built into the Angular CLI!



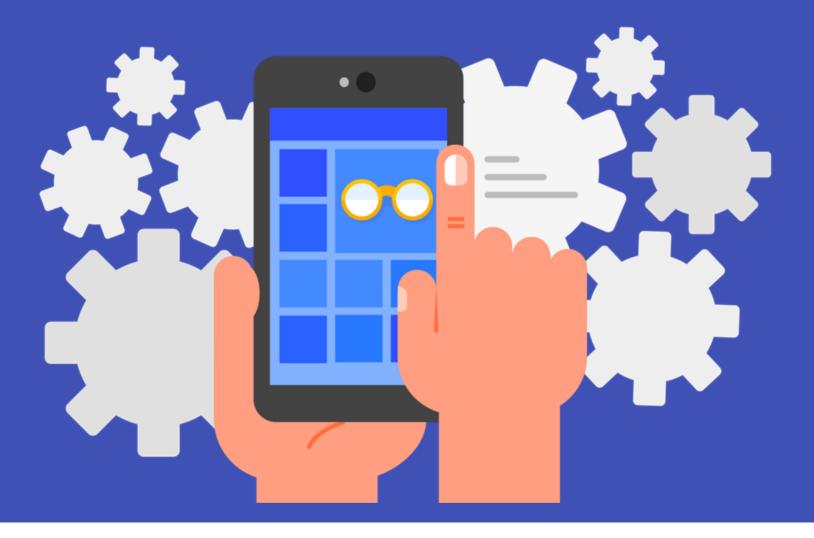
# Angular Mobile has been rebranded and deeply integrated into the CLI as Angular PWA!!



# HOW do I build an Angular Progressive Web App?

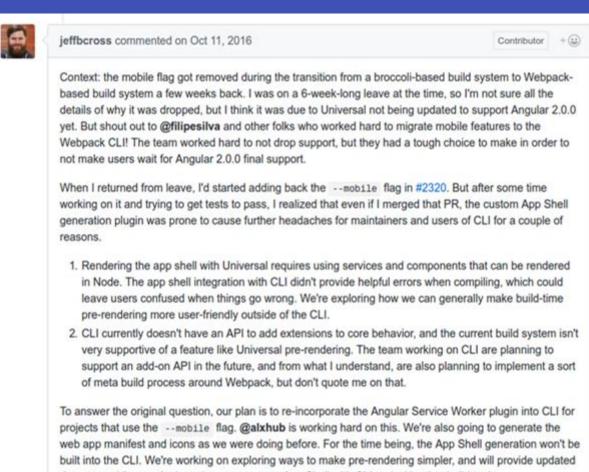


#### Reliable with Service Worker



Fast with App Shell Cache

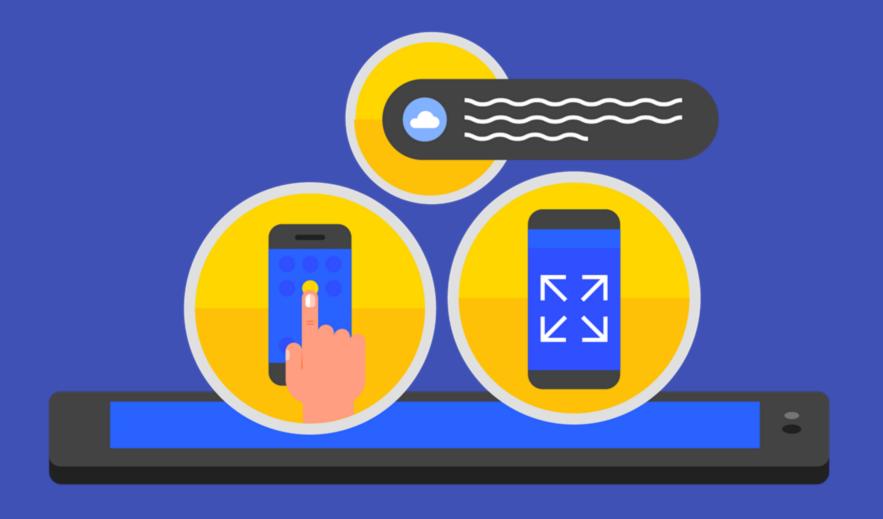




docs on mobile.angular.io on how to generate App Shell with CLI and with other build tools.



#### Fast with AppShell Cache



Engaging with Homescreen & Push



### To build an Angular PWA:

- 1) Service Worker: Go Offline
- 2) Manifest: Engage Users



## WHY should I use Angular PWA?



### Angular PWA is awesome because:

- Build reliable, offline-ready apps
- Load up content fast
- Engage your users
- ...



# Angular PWA WHAT is it? HOW can I use it? WHY should I care?



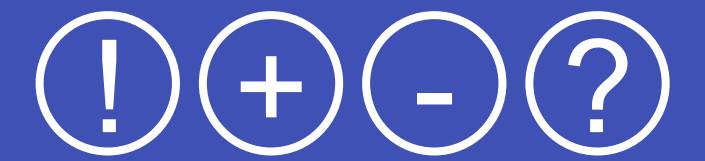
# Are Progressive Web Apps READY for Prod?



### Angular PWA is ready for Prod!

- https://mobile.angular.io/
- https://jakearchibald.github.io/isserviceworkerready/

#### THANK YOU!





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