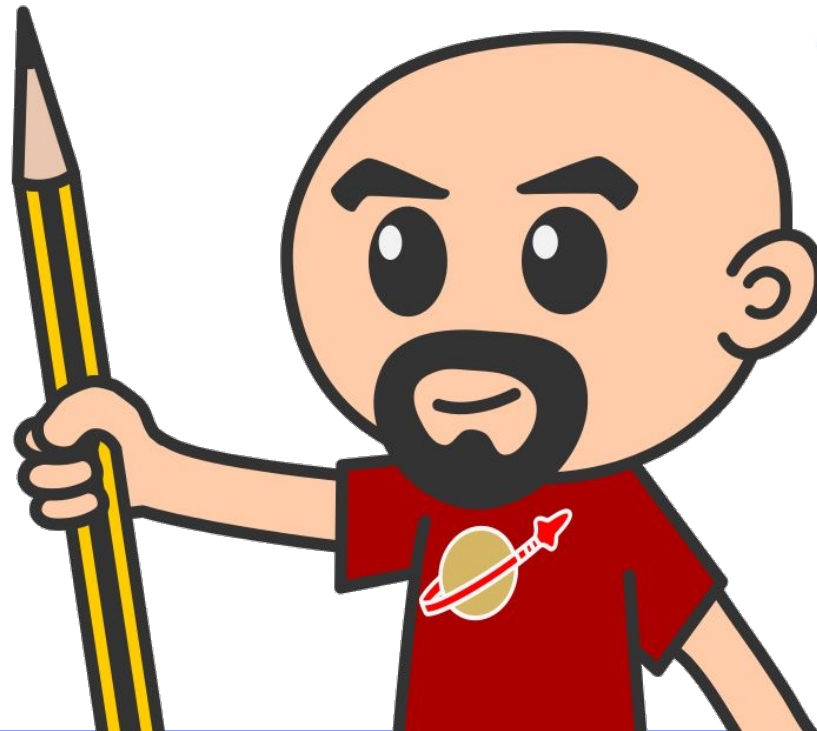




Progressive Web Apps with Polymer

Horacio Gonzalez
@LostInBrittany

Horacio Gonzalez



@LostInBrittany

Cityzen Data

<http://cityzendata.com>

Spaniard lost in Brittany,
developer, dreamer and
all-around geek



Audrey Neveu



@Audrey_Neveu

Streamdata.io
[Streamdata.io](https://streamdata.io)

Developpeur (backend)
Evangeliste - Co Leader Devox4Kids





Apps vs Web mobile

Yet again...



How did the Web beat native applications on the desktop?



 <http://anyone.gets.this.experience.automatically.com/>

Distribution Is The Hardest
Problem In Software

The Mobile Internet came when it brought the Web



You had the whole desktop internet in your hands

Everywhere !



Applications?



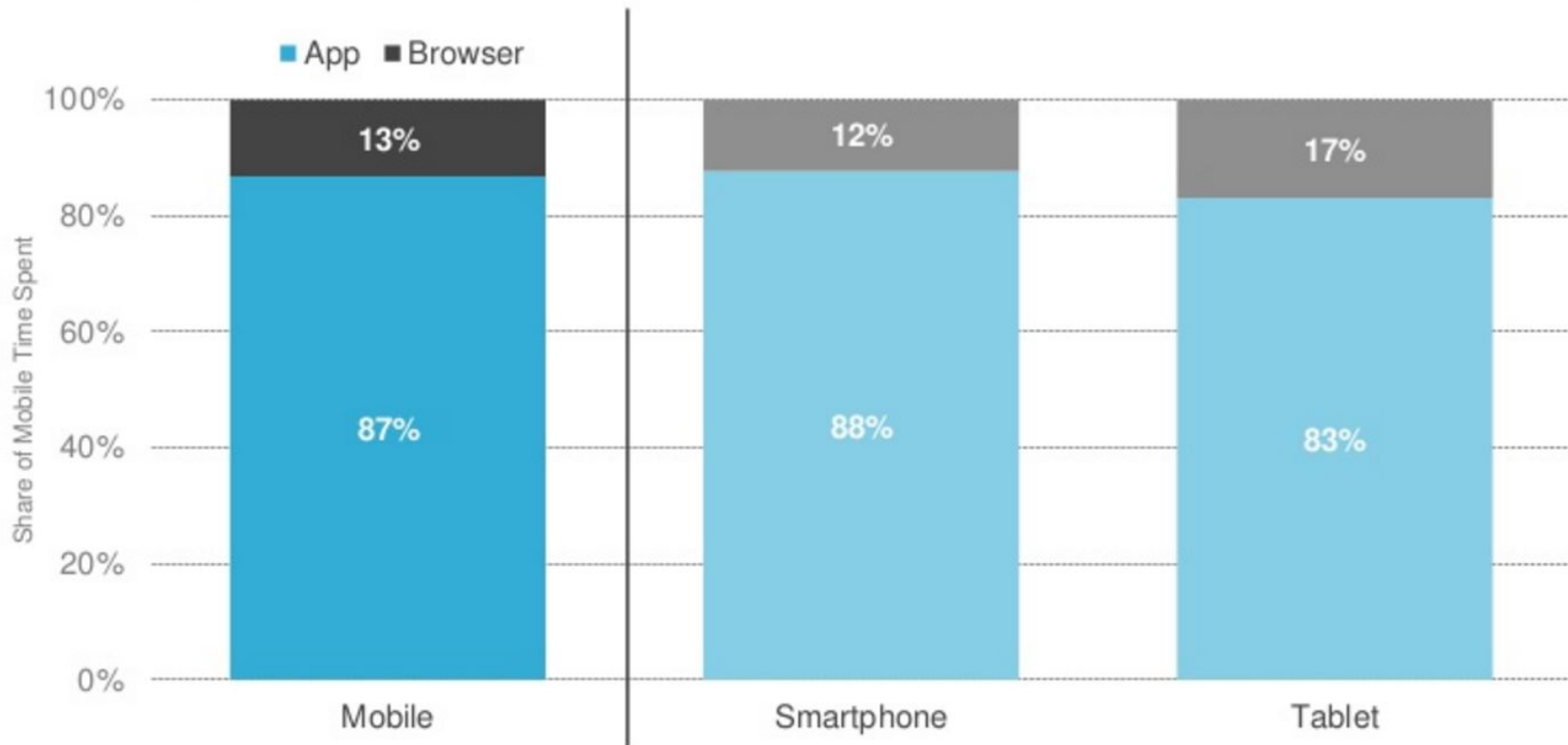
I FELT PRETTY CLEVER UNTIL I
REALIZED I'D INVENTED WEBPAGES.

Applications vs Web



Share of Time Spent on Mobile: App vs. Browser

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



Users spend way more time on apps than on browser

So apps are winning aren't it?



Average Monthly Audience: Top 1000 Mobile Apps vs. Top 1000 Mobile Web Properties

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



Mobile audience growth driven by mobile web
which is actually bigger and growing faster than apps



Apps drive engagement

Top 1000 mobile apps vs top 1000 mobile web properties

■ Web mobile ■ Apps



Monthly unique visitors
(millions)



Average minutes by visitor

Source: comScore Mobile Metrix 2015, U.S., Age 18

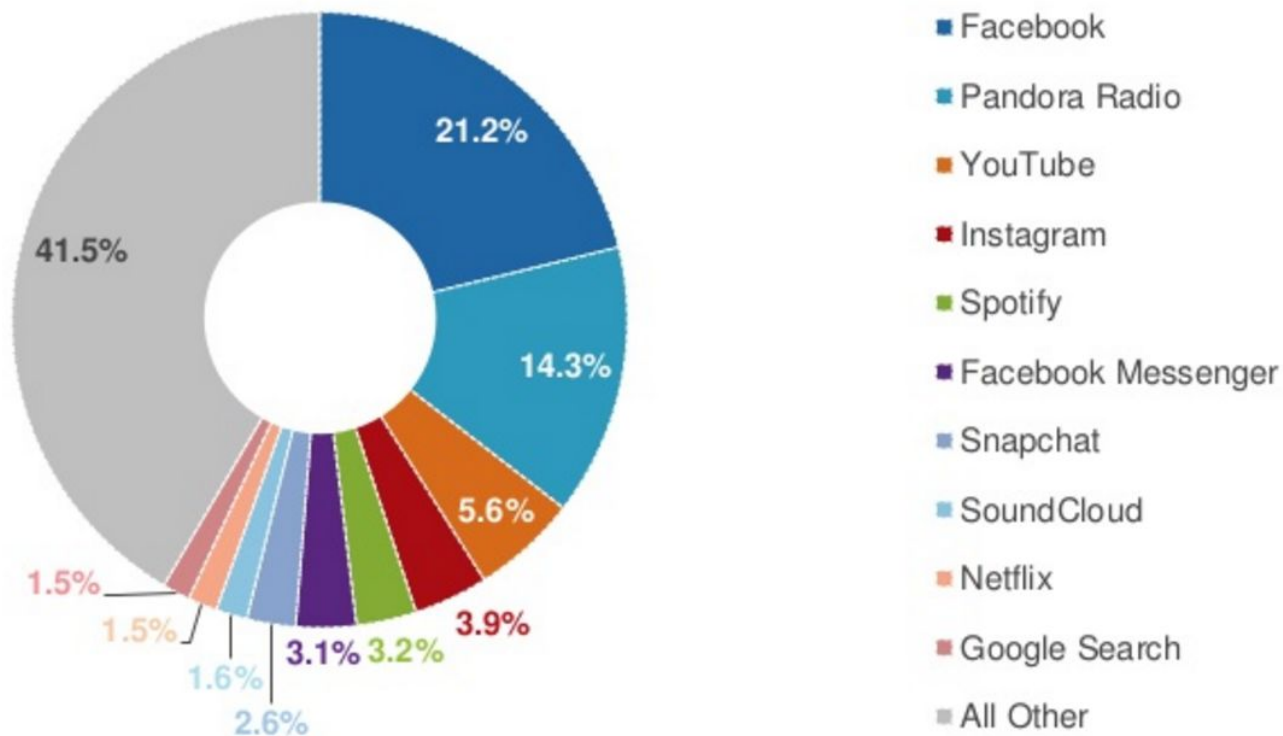
But web drives visitors...

Are you winning the app lottery?



Millennials' Top Apps by Share of Total Mobile App Time Spent

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



If you're not in the top 10, you don't exist...

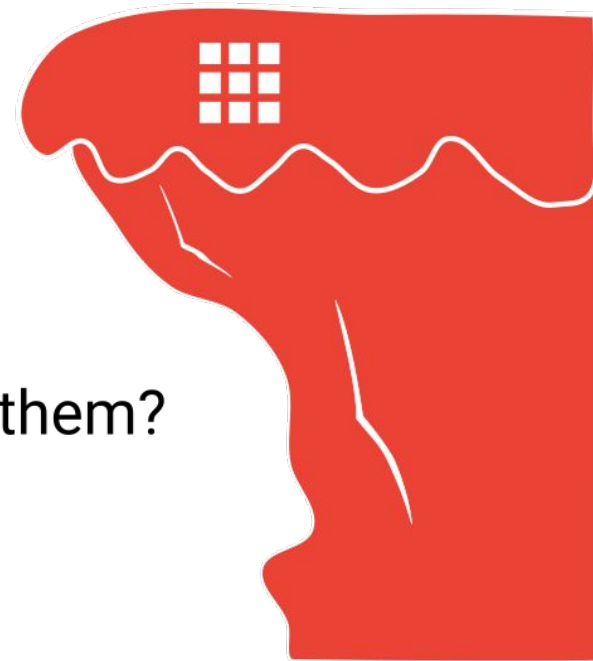
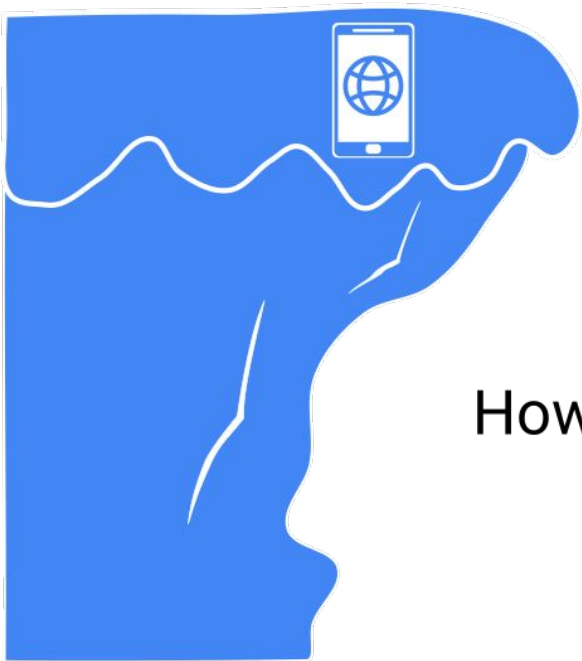


The best of two worlds?

Web audience and app engagement...

 Web mobile

 Apps



How to build a bridge between them?

What if the Web evolved?



Image: © Nintendo

Just as it did with Ajax!



Progressive Web Apps

The missing link

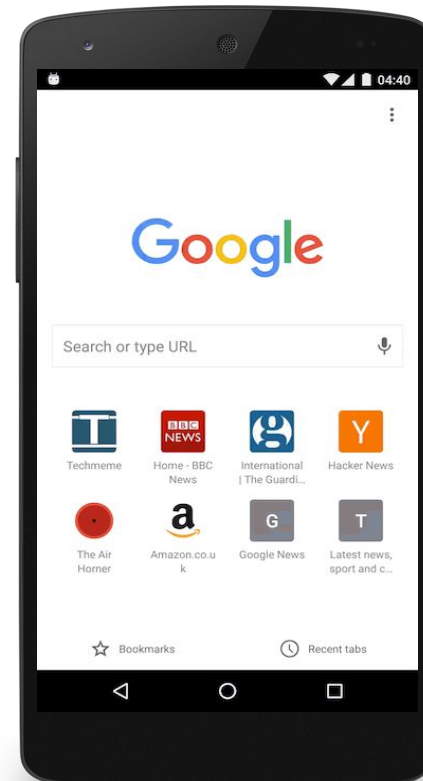
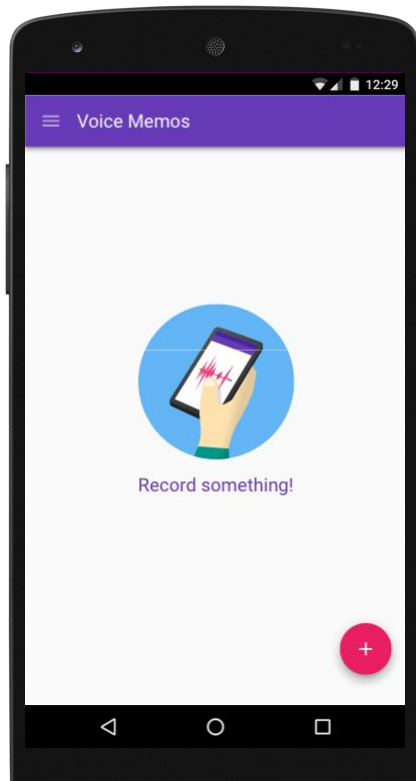


What's Missing?



1. Homescreen Access
2. Push Notifications
3. Offline
4. Access to terminal capabilities

PWA



Mix of new and not so new technologies
to make webapp evolve



Some core technologies

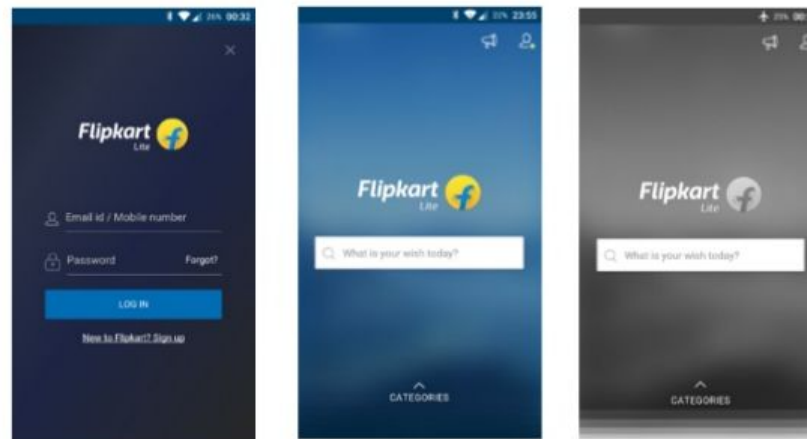
- Service workers
- App Shell
- Installability and App Manifest
- Notifications and Push APIs





Progressiveness

What does it mean?



Progressive means everybody



Progressive enhancement as a core tenant

No matter the browser choice,
our web app works for all



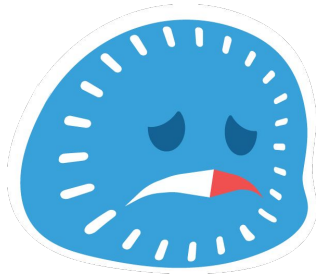
But not everything for everybody



Core features for all,
enhanced features for some



But iOS doesn't support PWA...



Safari's... hmm... delay in adding modern features... isn't a problem if you're considering Progressive Web Apps



What We Do

Our Approach

Our Work

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iOS doesn't support Progressive Web Apps, so what?

Written by [Jason Grigsby](#) on October 25, 2016

One common argument for why organizations aren't investing in Progressive Web Apps is that iOS doesn't support them. Hogwash.

Here's why organizations should invest in Progressive Web Apps regardless.

<https://cloudfour.com/thinks/ios-doesnt-support-progressive-web-apps-so-what/>



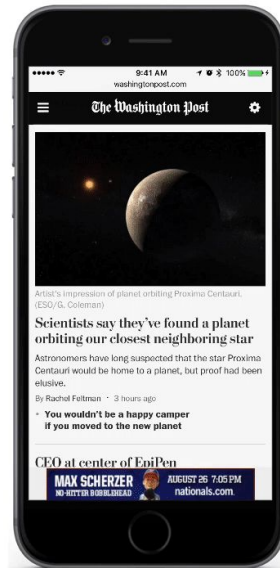
But iOS doesn't support PWA...

- Progressive Web Apps still work on iOS
- Progressive Web Apps perform better on iOS

**Instant
Mobile Web**

0.0

SECONDS



**Current
Mobile Web**

0.0

SECONDS



The Washington Post



I want to know more

Give me more information



Rendez-vous mardi 15



← → ↻ | Sécurisé | <https://www.meetup.com/FinistJUG/events/238143574/> ☆

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Et si on codait un bot ? & Une app social pour Devoxx

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La Cantine Numérique de Brest
Ateliers des Capucins
25 Rue de Pontaniou
Brest ([edit map](#))



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Tools

20 going

Horacio Gonzalez
Organizer,
Event Host
Spaniard lost in Brittany, coder, dreamer and all-around geek. Working taming time series and... [more](#)

[Edit your intro](#)

PWA showcase



<https://developers.google.com/web/showcase/>



California may have a huge groundwater reserve that nobody knew about

By Chris Mooney • Energy and Environment June 27

The Washington Post

AMP helps the Washington Post increase returning users from mobile search by 23%!

"We are committed to improving speed across the board. If our site takes a long time to load, it doesn't matter how great our journalism is, some people will leave the page before they see what's there"

David Merrell, Senior Product Manager, The Washington Post

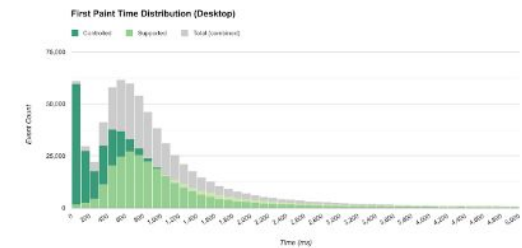
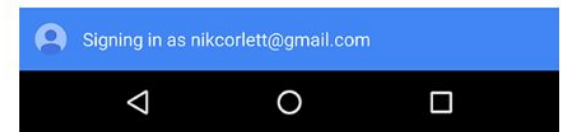
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AliExpress

"Smarter shopping, better living!" is the motto of AliExpress, a website where shoppers can buy everything from baby clothes to refrigerators directly from China. Part of the Alibaba Group, the global online retail marketplace is now a popular e-commerce site in America, Russia, and Brazil.

[READ MORE](#)



Measuring the Real-world Performance Impact of Service Workers

One of the most significant benefits of service workers (from a performance perspective, at least) is their ability to proactively control the caching of assets. A web application that can cache all of its necessary resources should load substantially faster for returning visitors. But what do these gains actually look like to real users? And how do you even measure this?

[READ MORE](#)



Conclusion

That's all folks!



