Google

Re-thinking the Mobile Journey

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Why we're here



What is happening?

- Mobile is our main focus
- Mobile web suffers from slow, cluttered sites
- User experience is not good
- Mobile Apps create silos and reduce diversity
- Many ways to access mobile content

Targeted queries



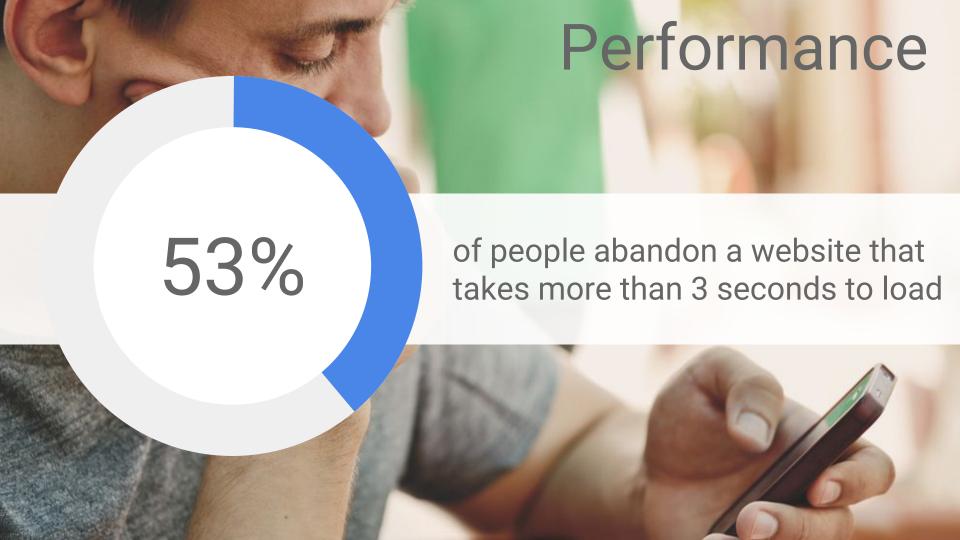
Serendipitous discovery



Habitual use

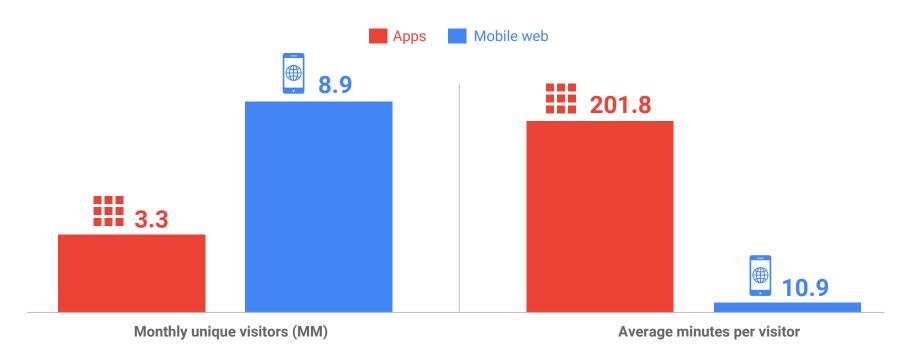






The web offers great discovery, but engagement is low

Top 1,000 mobile apps vs. top 1,000 mobile web properties



Publishers are faced with new challenges

With a common objective: an open ecosystem of knowledge

- 1 Evolving ecosystems of closed distribution models
- 2 Poor consumer perceptions of mobile web experiences
- 3 Monetization at the content level is hard
- 4 Technology updates are outpacing development cycles
- 5 Ad Blockers are a challenge to the industry

So we need something...







Easy to implement



Mobile Friendly



Embrace the open web



Gives strong Incentives

Accelerated Mobile Pages (AMP)

Simplify your web page

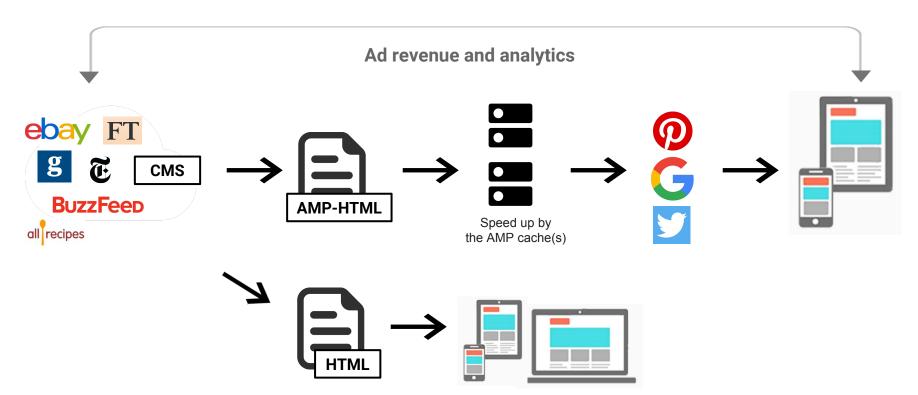


Web pages, today



Accelerated Mobile Pages

How does this all work together?





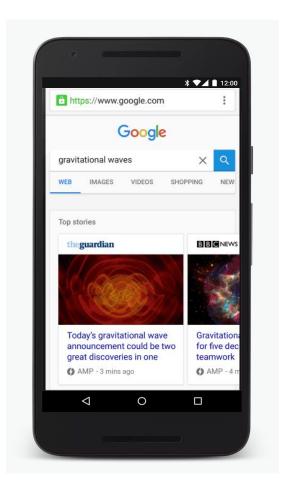
700k

domains publishing AMPs

<1 second</p>
median load time

4x faster

10x less data



Faster ads and landing pages

Fast Ads with A4A







00:00

Fast Ad Landing Pages with AMP ALP



Load Time 00:83

AMP's ecosystem also helps distribute your AMPs

















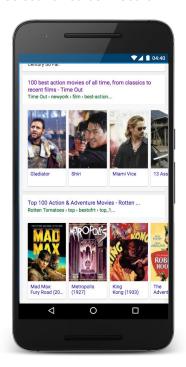


Dive-In: Google canvasses that support AMP

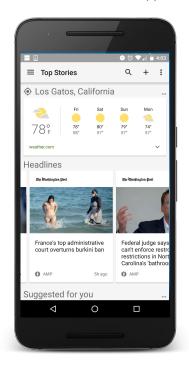
Top story carousel in Search



Select rich cards in Search



News and Weather App



Soon: Blue links In Search



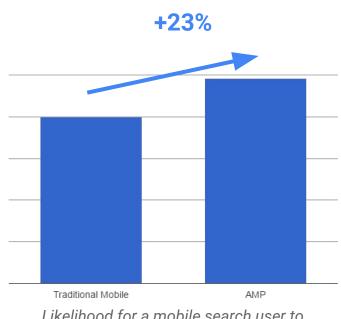
Case Study: AMP helps WaPo increase retention

Better User Experience with AMP

- Over 1,000 AMP articles every day
- Load times average 400 milliseconds, an 88% improvement over traditional mobile

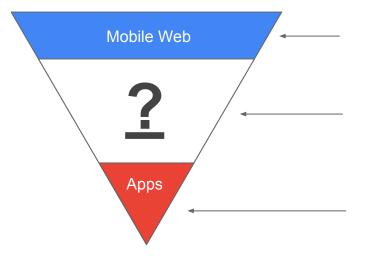
Higher Reader Loyalty and Retention

 For users who read stories published with AMP, more are returning within 7 days, an increase of 23% over their traditional msite



Likelihood for a mobile search user to return within 7 days

The AMP ecosystem can deliver a lot of value. What else can we do to improve our site?



Lots of users

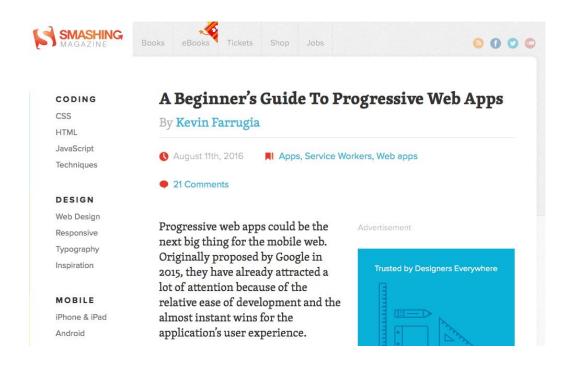
Possible to increase engagement?

High engagement, but a small piece of overall user traffic

Progressive Web Apps (PWA)

Demo

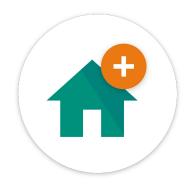
What is a Progressive Web App?



"... takes advantage of the latest technologies to combine the best of web and mobile apps. Think of it as a website built using web technologies but that acts and feels like an app."

Smashing Magazine

So, what was the web missing?



Add to Homescreen



Reliable Performance



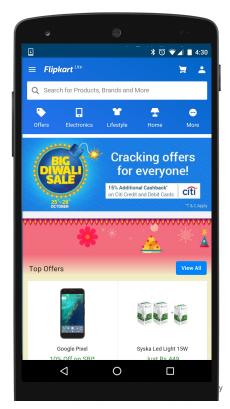
Push Notifications

Engage users with home screen icon, fullscreen mode

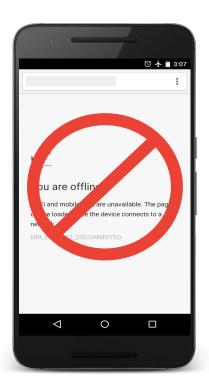






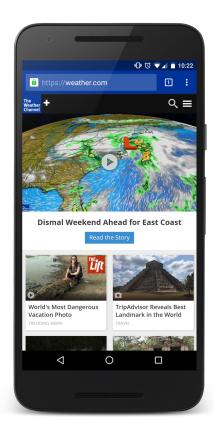


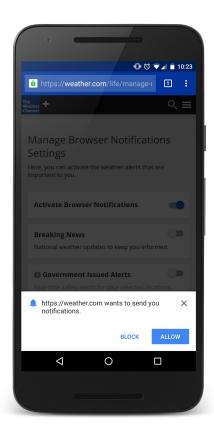
Be reliable even on flaky networks or offline

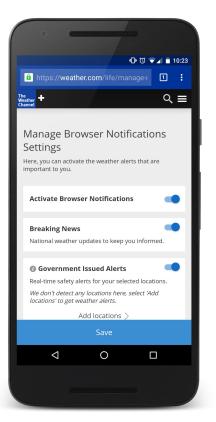




Send web push, just like app notifications







AliExpress

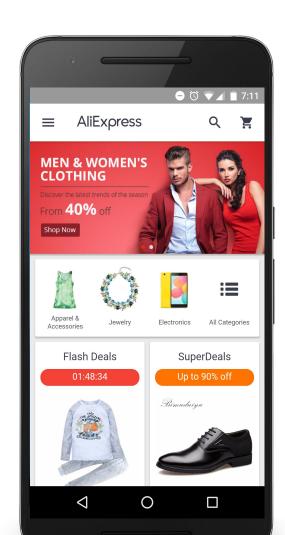
Global online marketplace owned by Alibaba Group

+104%

for new users

+74%

higher engagement ('time spent')



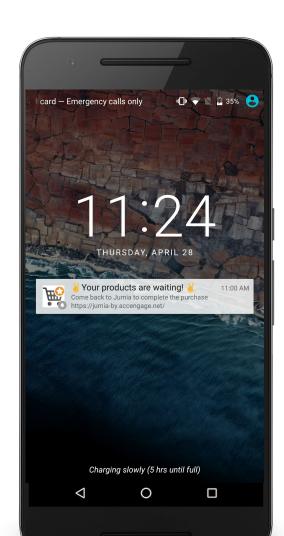


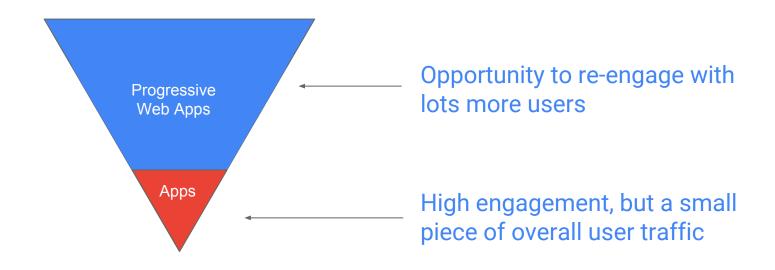
38%

Open rate for push notifications

9x

higher conversions for previously abandoned carts





Optimize website conversions



Simple sign in with Credential Manager API



One tap checkout with Payment Request API

Signing in is a big pain point for users

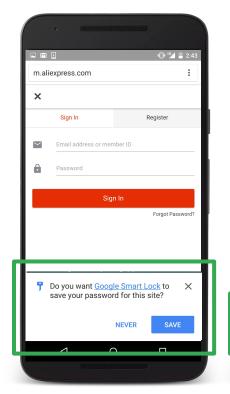
54%

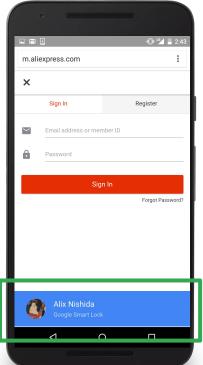
Users will quit before doing yet-another-signup

92%

Users will give up if they don't remember a username or password

Credential Manager API: Sign in more easily





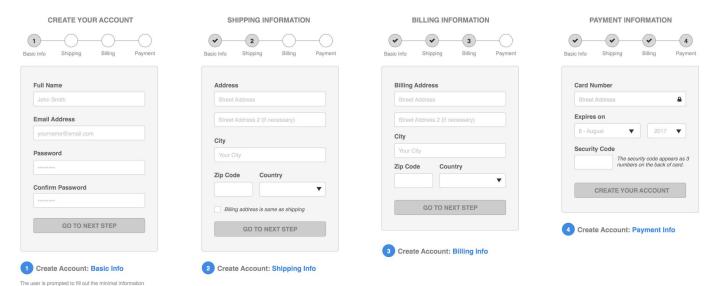
Use **Credential Management API** to have users save info for easy access later.

First-time users: Prompt to save log in credentials to Smart Lock

Returning users: Automatically get signed in without having to type in a password!

Too many fields lead up to 97% of checkout abandonment

Checkout Process





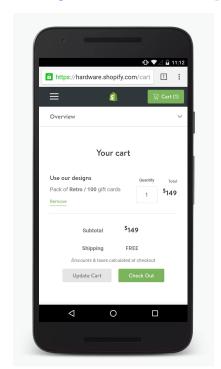
needed to start the account creation process

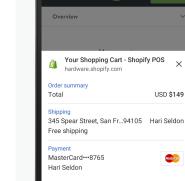
Payment Request API: Get through checkout faster

https://hardware.shopify.com/cart

EDIT

0





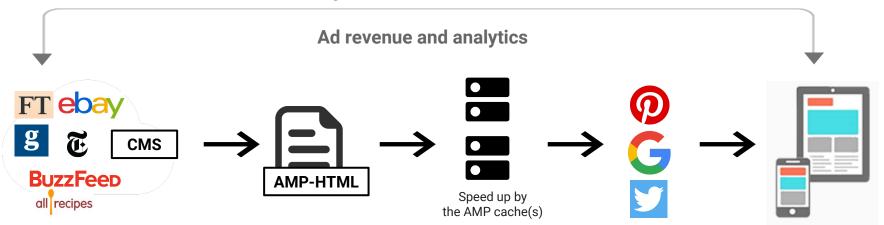
◁

Leverage auto-fill to pre-populate user information.

- Click to "buy now"
- See a single page with everything filled out
- Tap to enable checkout in one step with either credit card info or Android Pay (where available)

AMP and PWA

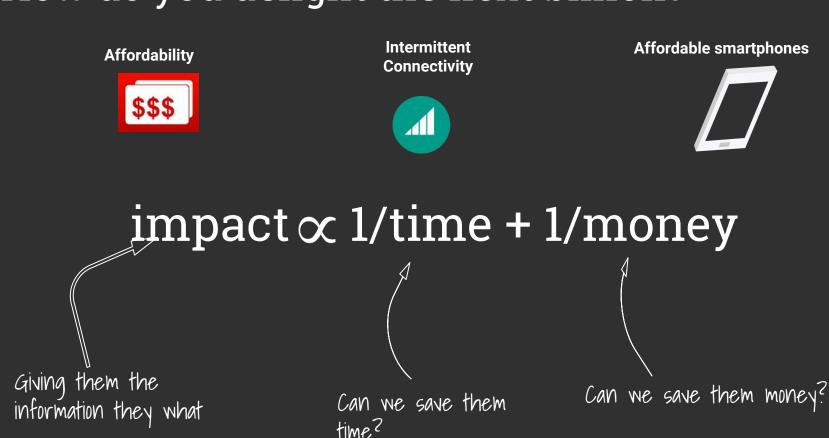
AMP is a robust ecosystem



PWAs are next generation web apps



How do you delight the next billion?



Thank You!