

Developing Wearable Apps that Earn User Loyalty

Damian Roskill VP, Marketing | droskill@applause.com

TODAY'S PRESENTERS



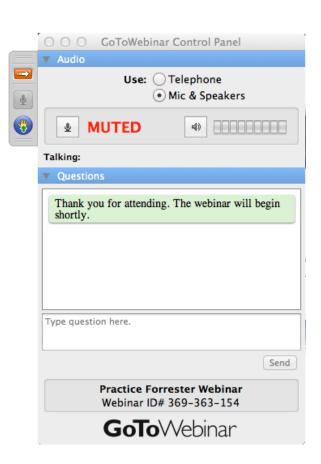


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WEBINAR LOGISTICS



- Today's webinar will be recorded. You will be emailed a link.
- Please enter your questions in the Question box. We will answer as many as possible at the end.
- If you're having technical difficulties, try logging in with a different browser.
- The Twitter hashtag for today's webinar is #applausewearables





- The state of wearable adoption
- Satisfying lofty user expectations
- The 5 biggest challenges of developing high-quality experiences
- Wearable testing best practices
- Q&A / upcoming customer experience webinar





















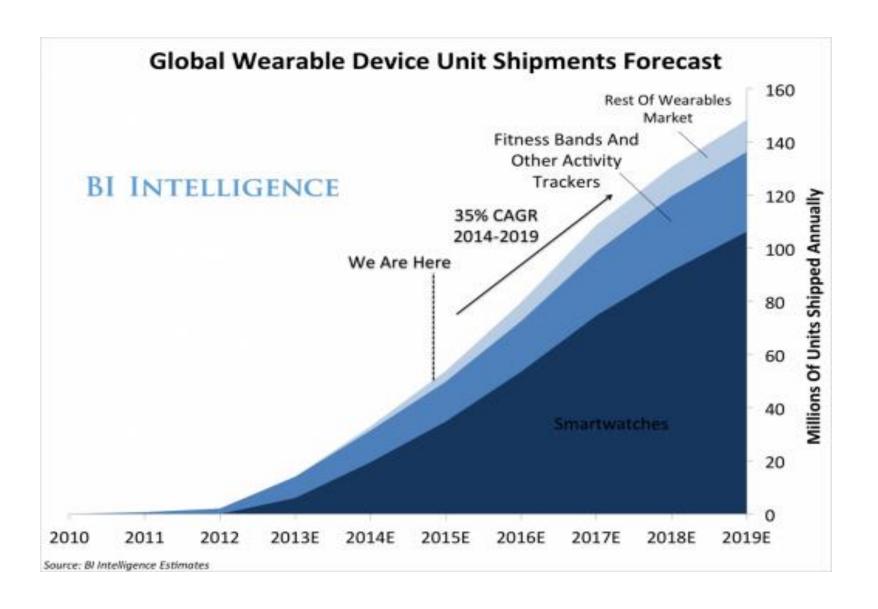












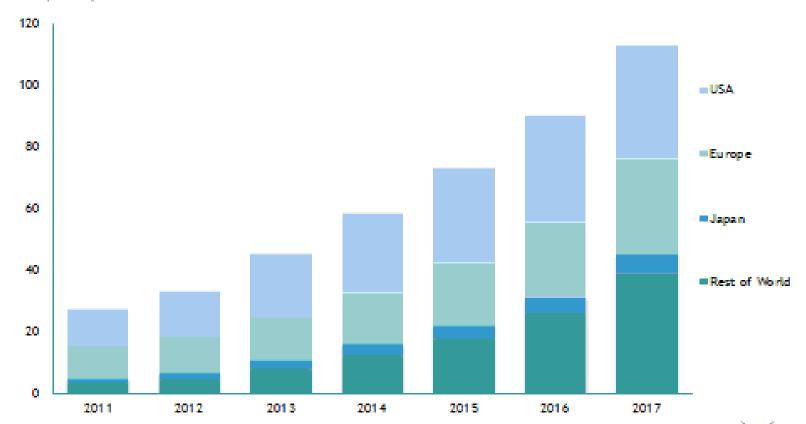
AND IT IS GROWING GLOBALLY



User Adoption of Connected Devices

WEARABLE TECHNOLOGY FORECASTS BY REGION

Comprises Wearable Fitness Devices, Smartwatches and Smartglasses







futu

uturesource

OR IS IT GROWING?

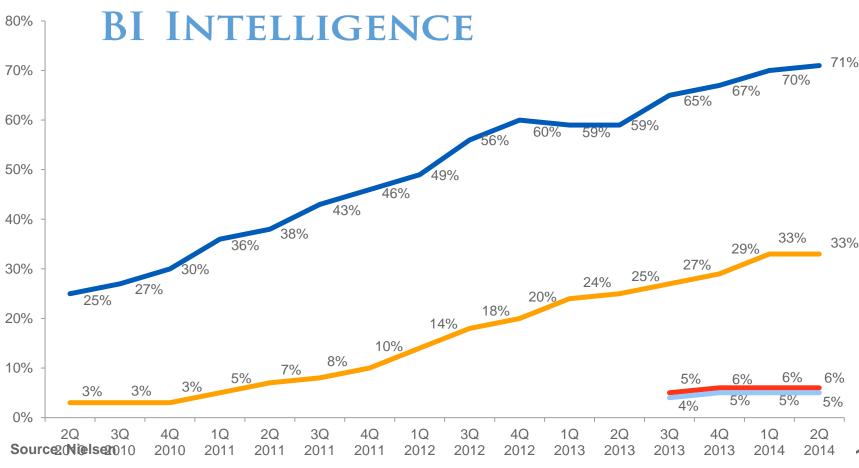






User Adoption of Connected Devices





AND USERS ARE CHURNING



theguardian

Google" Custom Suarch

News US World Sports Comment Culture Business Money Environment Science Travel Tech Media Life & style Data

News Technology Wearable technology

Wearables: one-third of consumers abandoning devices

Hundreds of Galaxy Gear smartwatches are listed on eBay barely six months after launch. Why isn't the wearable tech market taking off?







condition			
Time left:	3d 17h (04 Apr., 2014 22:33:08:861)		
Current bird	£0.99	(2 hos)	
		Place bid	
	Short ES-54 or more		
		· Add to Watch Sat	
		· Add to collection	

New condition

A UK eBay listing for a Samsung Galaxy Gear smartwatch: the seller says they got it free and don't want it. Photograph: Guardian

100% positive feedback

The advert was blunt: a second-hand Samsung Galaxy Gear smartwatch for sale, priced at "£100 ONO". For a device which cost £299 in September, surely that's a bargain?

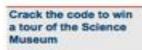


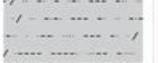


Wearable technology -Smartwatches -Smartphones - Software -Android - Google

Life and style Figness

More analysis





Win an all expenses paid trip to London and a tour of the new Information Age exhibition at the Science Museum, if you can crack the Morse code.

Click here to find out

Today's best video



Amateur footage shows ferocity of blizzard in

Amateur footage shot by British hiker Paul Sherridan shows the deadly blizzard that engulfed Nepal's popular Annapurna trail in the Himalayas



'Sex toy' sculpture raises eyebrows Inflatable sculpture causes stir in Paris for its resemblance to a sex



New dinosaur species remains discovered Scientists discover the remains of a new species of dinosaur in Venezuela



29 comments

The Judge, Northern Soul, Palo Alto and Citizenfour: Guardian film show

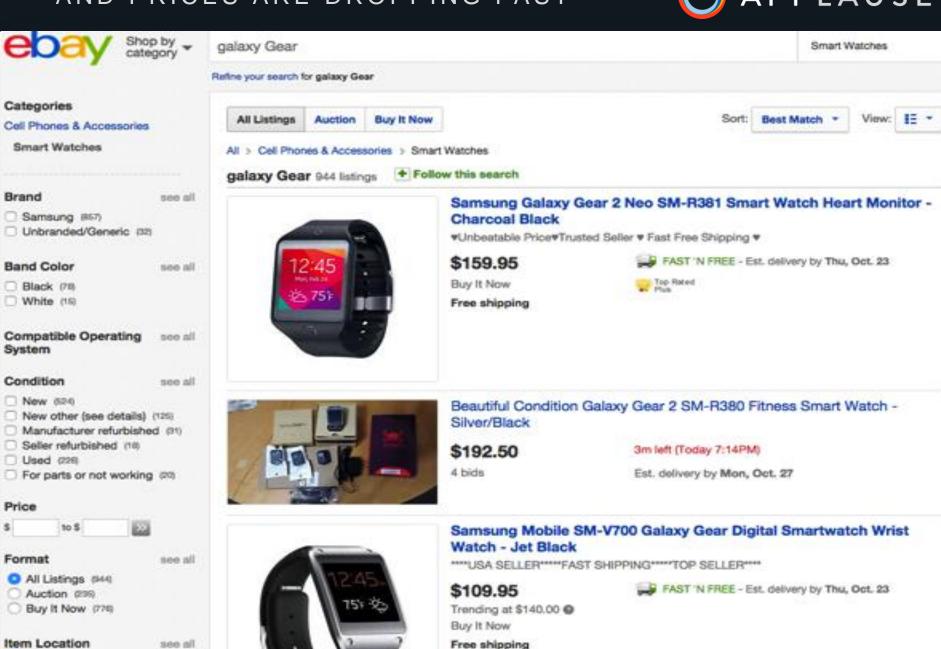
Our film critics review this week's releases

AND PRICES ARE DROPPING FAST

see all

Default



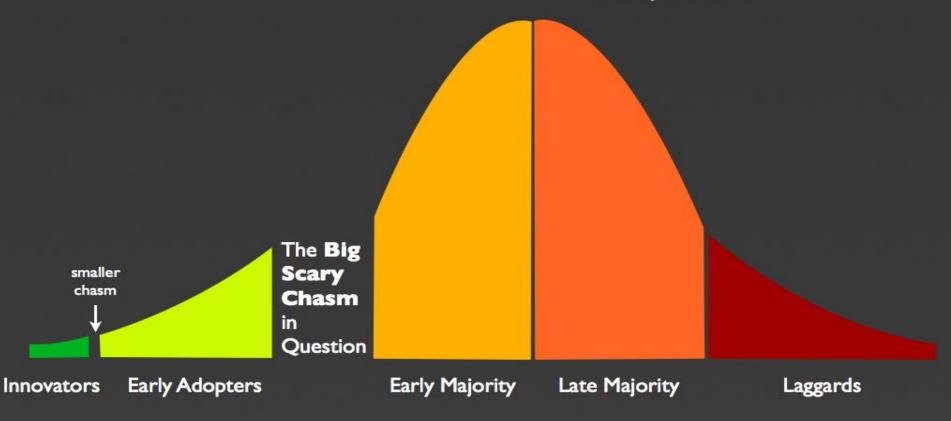


868 sold



Crossing the Chasm

Geoffrey Moore - 1991



NOT LIKELY





THE APPLE FACTOR







3.004

FOLLOWING 497 followers 138K

5.316

Aaron Levie



Lead Magician (and CEO) at Box (@boxHQ); Huge ABBA fan. I don't fully endorse anything I say below. Go

- Palo Alto
- @ box.com
- (Joined March 2007



2 57 Followers you know















Tweets & replies

Photos & videos



Aaron Levie @levie - 19h

Things to know when making conservative predictions about a new Apple product:

- 1. You will be wrong
- 2. It will be referenced forever



13 374



504

001



Aaron Levie @levie - Mar 14

With blogging, we had content creators and consumers. With live video, we'll have "people that have gone outside" and "people that haven't."



23 117



188

000

JUST TAKE THE MILLENIALS



What's up with Millenials' purchases in the next year?

Percentage of Millenials likely to purchase:

PricewaterhouseCoopers' The Wearable Future Smart **Fitness** Smart Smart Glasses Clothing Watch Band





MANY WON'T MAKE IT





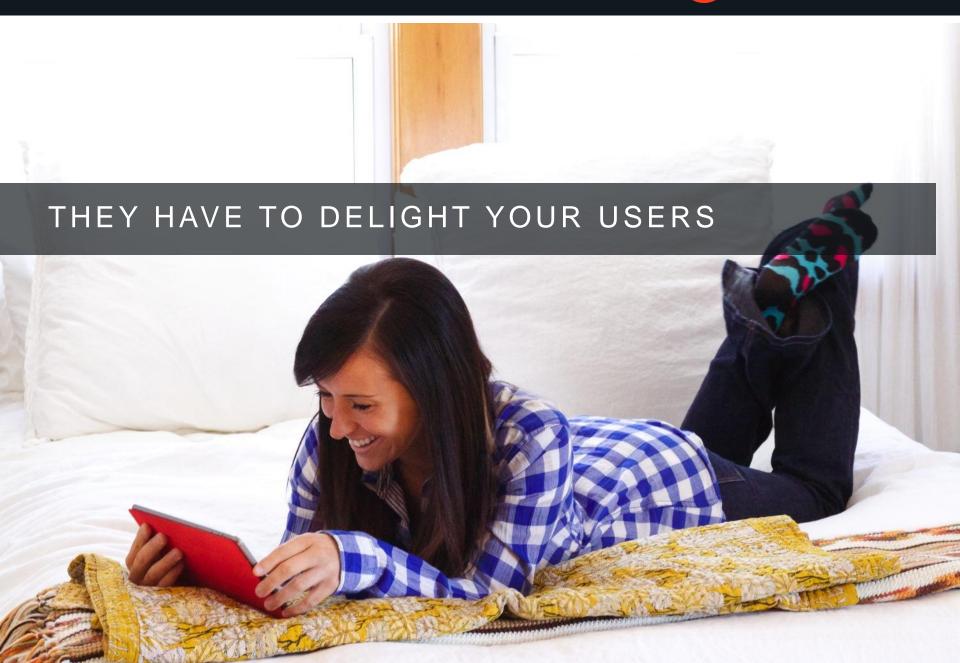
WHY













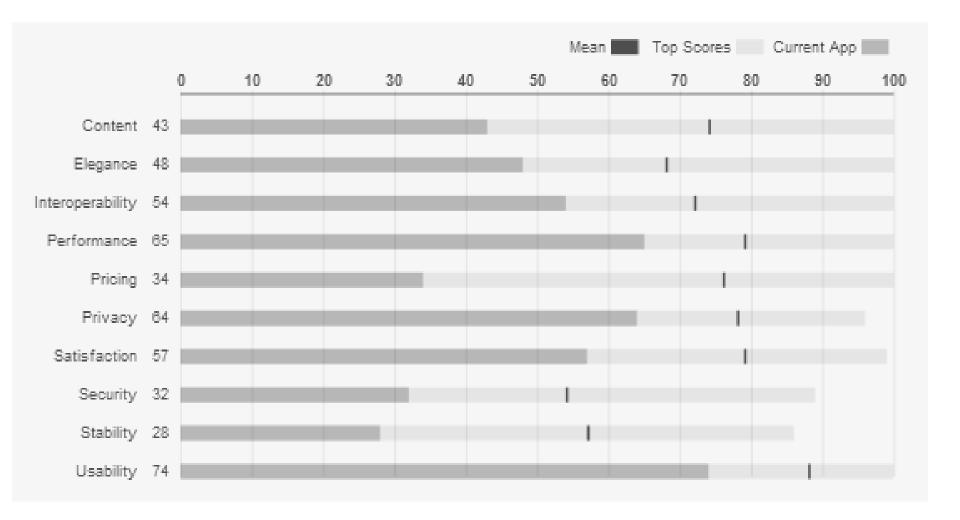
MUST WORK THE FIRST AND EVERY TIME



ACROSS 10 QUALITY ATTRIBUTES







WHICH IS HARD, AS OUR WORLD HAS...



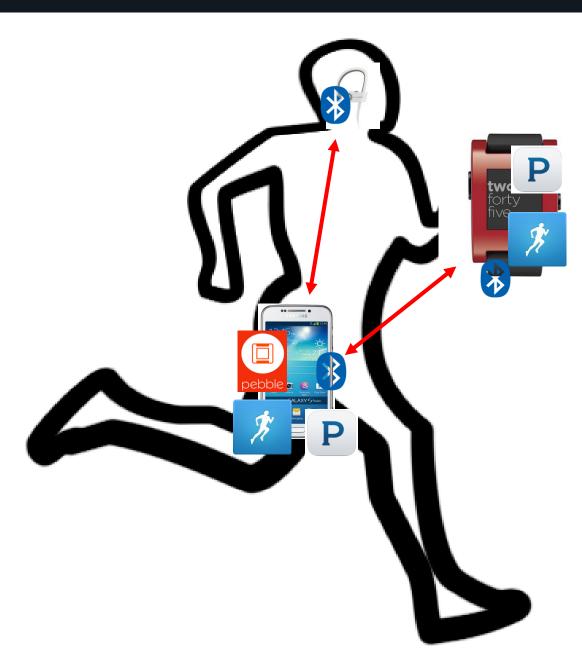


MORE FRAGMENTATION THAN EVER

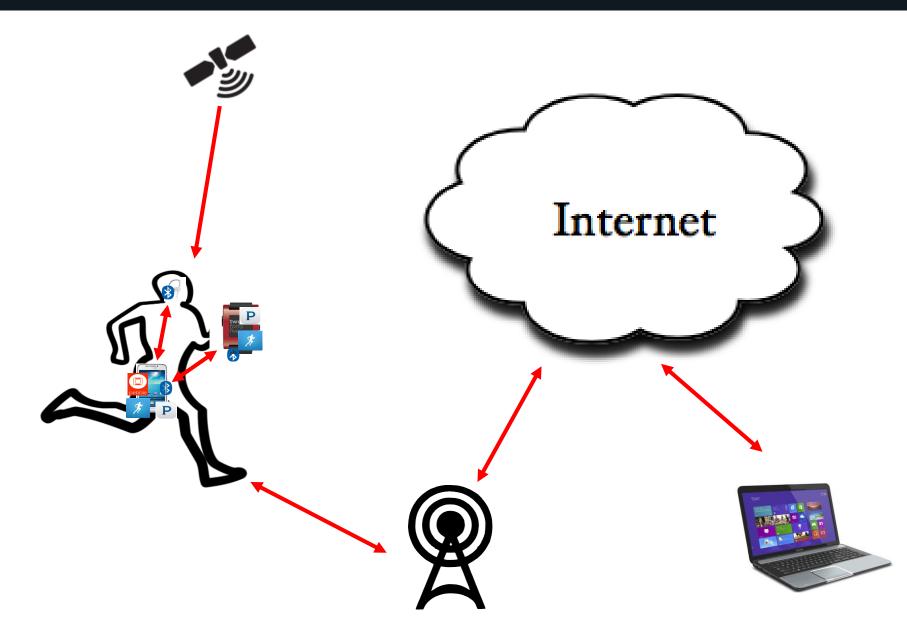












INTEGRATION QUALITY MATTERS





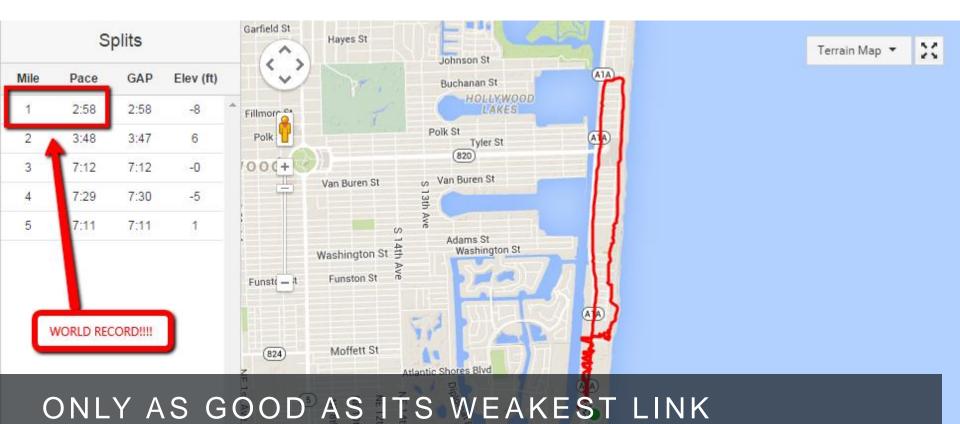
3:21 PM on Thursday, January 15, 2015

- Coogle

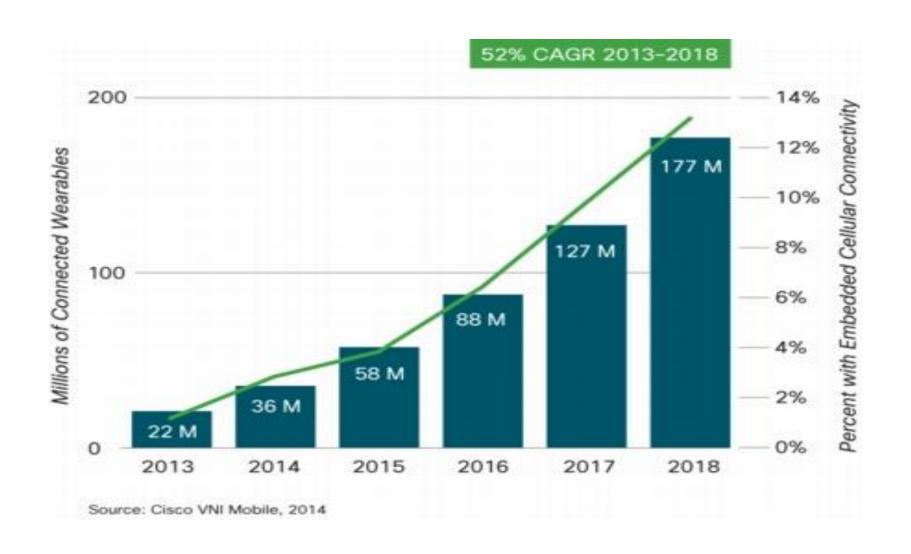
Afternoon Run

Add a description

5.0mi Distance	28:51 Moving Time		
Elevation	0ft	Calories	700
Elapsed Time	28:51		
Device: Strava	Android App	Shoes: —	











MORE COMPETITION THAN EVER





MORE VOCAL USERS THAN EVER



Ok but occasionally infuriating! by The Chant Ninja - Mar 19, 20

I both love and hate this app. It d That said, the problems are nume Cheri Daniels @Historiana · Apr 4

Just gonna say the @weatherchannel app for the iPad is the WORST app I have ever encountered...even after updates! #fail #crash

Expand

◆ Reply ★ Retweet ★ Favorite · · · · More

This app is great Works 100% of the time. It has all the music you could ever want plus

connection is low quality. I wonder who could possibly

2 out of 2 customers found this review helpful.



CinCity @CinCityNobre · Apr 5

So i was loving the @Citibank mobile deposite feature but also there was an

upgrade and now the app crashe



Daniel Bishop 0









Britta Mirasolo March 27, 2014

Ok but occasionally infuriating! ★★★☆☆ by The Chant Ninja - Mar 19, 2014

Not fully functional | p | both love and hate this app. It does a pretty good job,

That said, the problems are numerous. Sometimes it tries to stream audio-only rather than video and audio if your connection is low quality. I wonder who could possibly want this! Furthermore, sometimes the whole app will ... More ▼

family to pick up and c

2 out of 2 customers found this review helpful.

Was this review helpful?

local stations. A+



Yer No | Report a Concern

Useless ★☆☆☆☆

by jmercmon - Jan 27, 2014

If I could give is app zero stars I would. It's pretty much use less. It hangs up all the time and thr to get flight info. I. Comparison to the competition u can do nothing on this app. Others allow ch rescheduling flights etc. this app allows none of this. Also what little that does work requires you thing for minutes while it try's to get data.

Was this review helpful?

ROBERT PHILLIP'S December 2, 2013

Easy to use and detailed Nice app that

Chris Harris @_ChrisHarris · Mar 24

Love the design of the new Camera Plus icon. Notice I flat iOS7 look but with depth and shadow, appsto.re/gl

Pi View details

◆ Reply ★ Retweet ★ Fa

Amber Terronez April 7, 2014

Samsung user No matter if I'm using Wi-Fi or my 4G it constantly just stops not sure if it's buffering or what no point in listening to this app if I can't even listen to a full song without it stopping fix bug asap

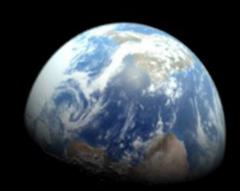
WHAT CAN WE DO





"Any sufficiently advanced technology is indistinguishable from magic."

~Arthur C. Clarke





WE NEED TO CREATE MAGIC



WORKED WITH OVER 40 WEARABLE COMPANIES
HUNDREDS OF PROJECTS COMPLETED

IN-THE-WILD TESTING IN 40+ COUNTRIES

THOUSANDS OF BUGS FIXED



MEET THE CHALLENGES





CHALLENGE #1: USABILITY



- Your app shouldn't be everything to everyone at every time
 - Know your user
 - Know the environment of your user
- It's about transposing not transporting
 - What are the elements that keep your app unique
 - What's relevant
- Test where your users are
 - A lab won't tell you what walking around is like
 - Listening early and often



CHALLENGE #2: INTEROPERABILITY



- Where do you draw the line?
 - Who do you integrate with?
 - What happens when you say no?
- Integrations means more testing
 - It's a moving target
 - Users don't care who broke their experience, you're to blame
- Users don't listen
 - Think beyond your minimum requirements
 - Think outside of your standard environments









CHALLENGE #3: BATTERY LIFE



- Who wants to charge their clothes?
 - Do you respect users' battery life?
 - Do you play well with others?
- Balance notifications with relevance
 - Not just about the connection
 - Turning on the screen
- Testing how well you play with others
 - Your impact on battery life may be minimal, but what happens when you are going for the same resource
 - What is real life battery usage



CHALLENGE #4: DISCONNECTING



- What happens in the absence of a connection?
 - Unintentional disconnects
 - Users that just want to tune out
- Are you friendly failing
 - Test for errors
 - Test for experience?

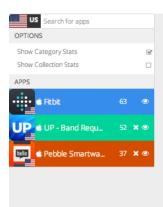


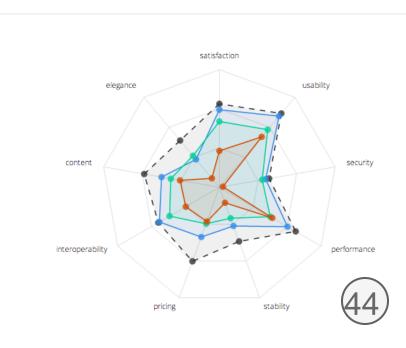


CHALLENGE #5: USERS TALK



- You have to be in tune to what your users are saying
 - Monitoring app stores
 - Listening to customer support channels
- It's okay to be reactive but better to be proactive
 - Beta testing
 - In-the-wild testing
 - Usability testing
 - Crash monitoring
 - App store feedback





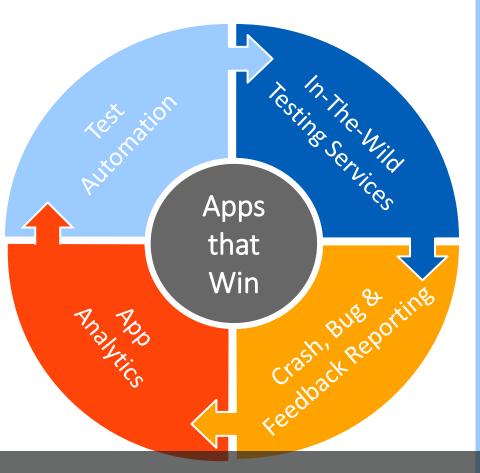
BEAT THE CHALLENGES





TAKE A 360 DEGREE APPROACH





- Testing beyond the traditional QA lab
- Test where and how your users work, live & play
- Discover crashes & user feedback in real-time
- Listen to what your target users are saying in:
 - the app stores
 - social media
 - ecommerce sites

YOU NEED A PORTFOLIO APPROACHage and speed



Your Test Labs Are Here



Your Users Are Here



Wearables need real-world testing, where users live, work & play

HOW TO USE IN-THE-WILD TESTING



Get lazy and get greedy

- Use devices at varying battery charges
- Use all your greedy apps and services at once
- Use in varying weather conditions
- Let your battery die



Test your wearables under real world conditions

- Take them to common and extreme locations
- Give them to real people (incented and not incented)
- Use them as intended (on the move, in subways, without signal)
- Live with them (Longitudinal study)
- Embed analytics and easy feedback mechanisms into your devices and apps

HOW TO USE IN-THE-WILD TESTING



Get lost

- Go into the deep dark woods or similar urban feature
- Go fast between mobile towers
- Switch between wi-fi, varying network strengths and zero signal

Get dirty

- Don't just use factory settings
- Put a bunch of apps on there
- Use multiple apps and services at once
- Hit different networks
- Bounce between data sources
- Take a phone call or seven
- Use competitor apps/devices in parallel



IMPLEMENT AUTOMATION



Keep it simple

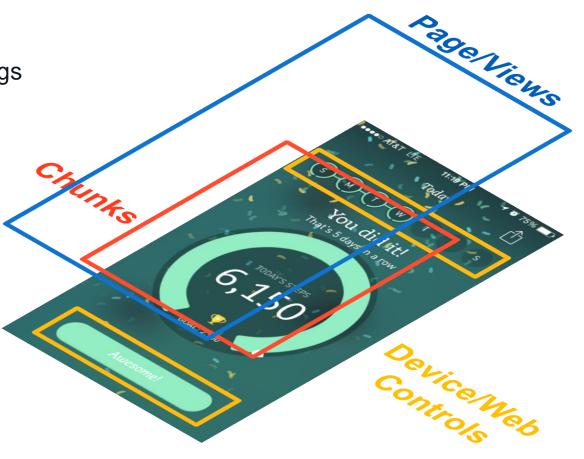
- Small tests
- Focus on arms and legs
- Maintenance is key
- Tie to CI

Separate the layers

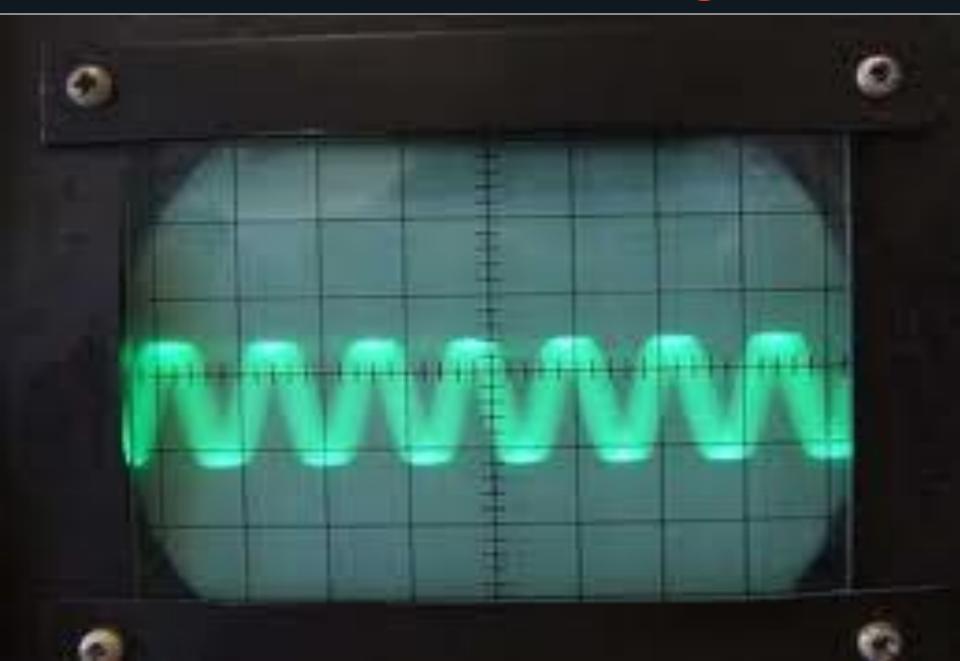
- Hardware test
- Unit test
- API test
- UI test
- Full stack test

Use real devices

- Simulators/Emulators for dev
- Real devices for build validation and new platform validation







INSTRUMENT FOR IMPLICIT DATA

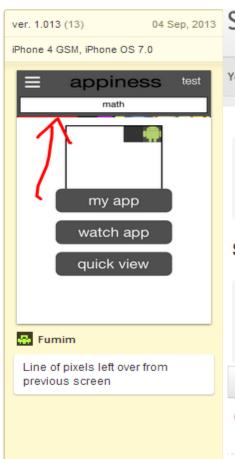


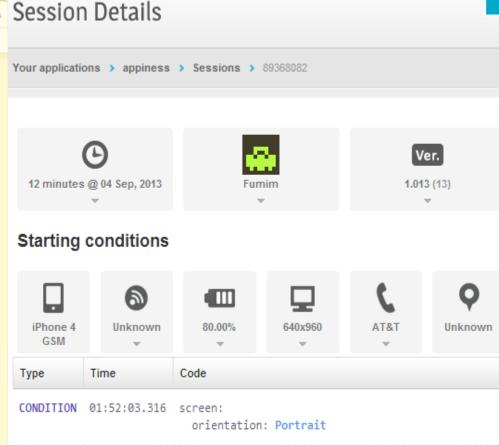


IMPLEMENT DIRECT FEEDBACK





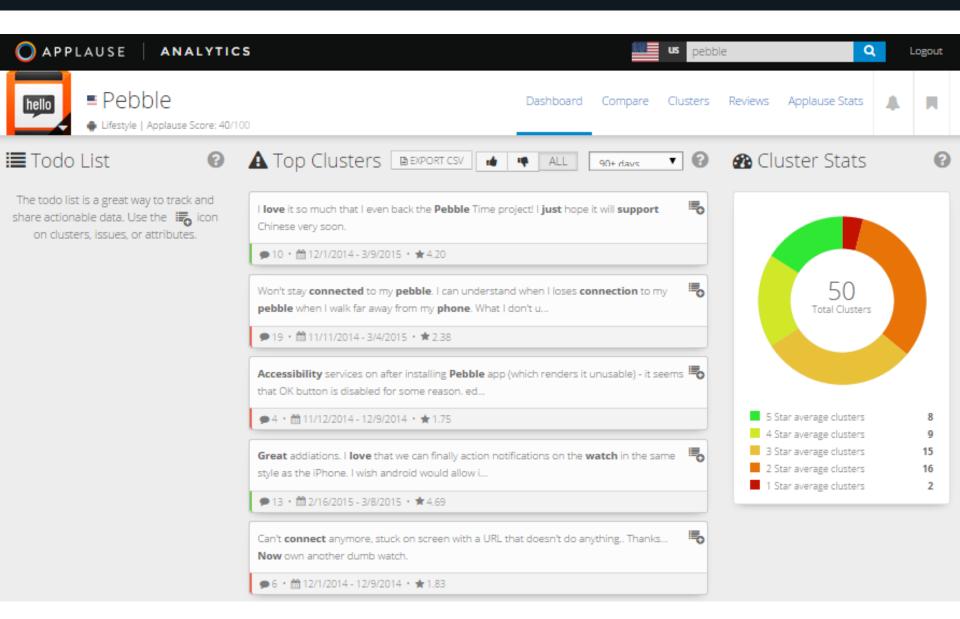




BUG 02:01:15.183 Right swipe doesn't work from detail article view. When shifted after tapping on "menu" icon, left swipe doesn't work (but tapping on menu icon again works)

CLUSTER REVIEWS





USE COMPETITIVE DATA





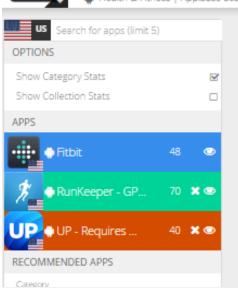
■ Fitbit

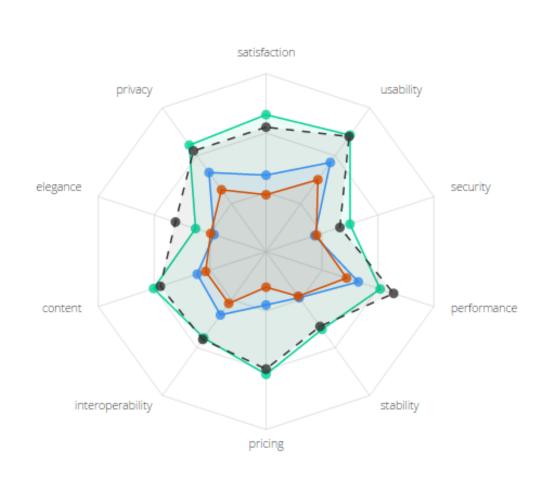
Health & Fitness | Applause Score: 48/100

Dashboard Compare Clusters Reviews Applause Stats





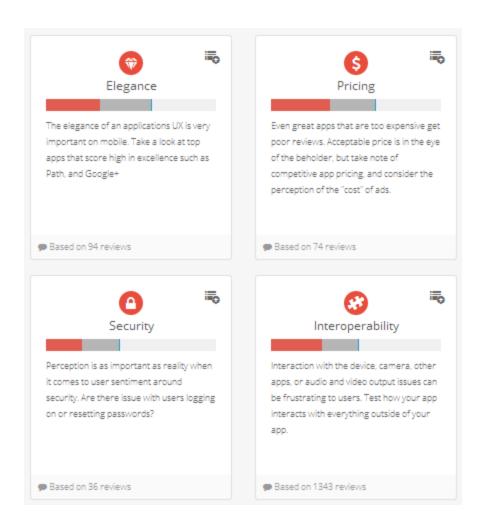




HOW USERS CAN HELP YOU



- End opinion-based debates
- Continual improvement
- Measure what matters
- Compare to competitors
- Measure before & after launch



RECAP







- Wearables are growing, but the chasm will catch all but the most appealing
- Appealing is measured against 10 attributes of quality
- 5 Challenges Sucking Products Into The Chasm
 - Usability
 - Compatibility
 - Battery life
 - Disconnecting
 - Users talk



RECAP PART 2 - THE RECKONING



But you're in control

- Test In-The-Wild
 - Get real
 - Get dirty
 - Get greedy
 - Get lost
- Implement appropriate amounts of test automation
 - Test early and often
- Monitor feedback
 - Implicit and explicit feedback
 - Direct user feedback in context
 - Find the signal and listen to it

AND REMEMBER











































































































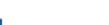
























































































































GET STARTED WITH APPLAUSE TODAY



To get started with Applause today:

- Visit http://www.applause.com/wearables
 - Download our new wearables testing whitepaper
- Email us at sales@applause.com
- Connect with an app quality advisor: 844.300.2777



CONTACT US

Q&A / UPCOMING CX WEBINAR



- Creating Loyal Customers
 Through Winning Digital
 Experiences featuring Applause
 and guest Forrester Research
 - Wed 4/22 @ 1pm EST

Register:

www.applause.com/webinars



Thank you!

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