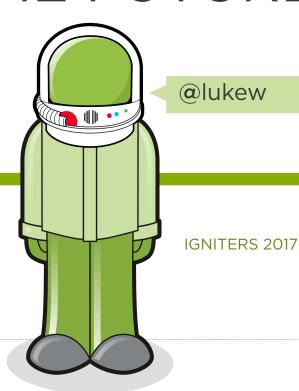
# MOBILE IN THE FUTURE



LUKE WROBLEWSKI



## 10 YEARS AGO...

JUNE 29 2007





"What we wanna do is make a leapfrog product that is way smarter than any mobile device has ever been..."



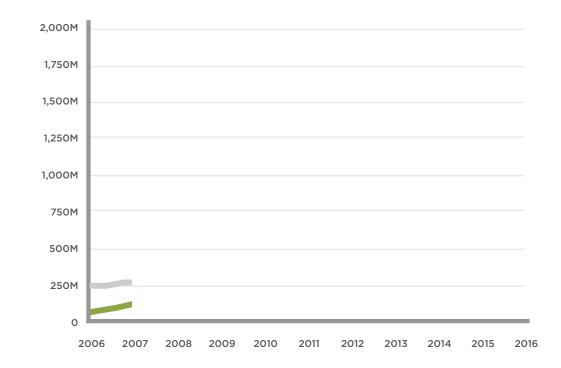
### Worldwide Device Shipments

2006

239M

**PCS** 

68M
SMARTPHONES





#### **BLACKBERRY PEARL 8100**



#### MOTOROLA Q



#### PALM TREO 680





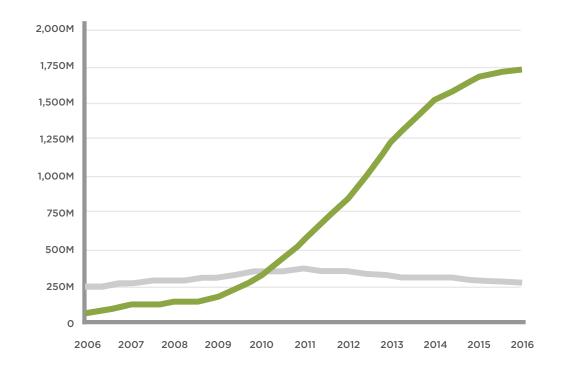
#### Worldwide Device Shipments

2006

239M

**PCS** 

68M
SMARTPHONES



2016

269M

**PCS** 

1,729M

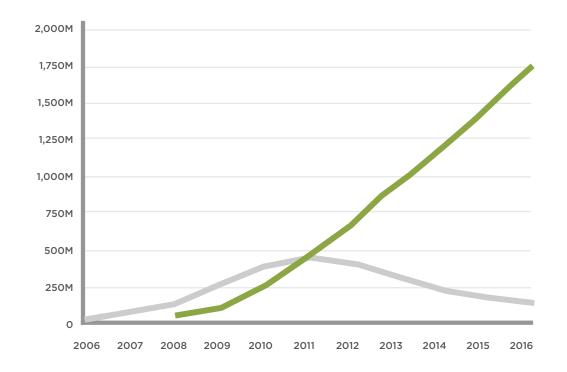
SMARTPHONES & TABLETS



## facebook. Monthly Active Users

2006

12M
DESKTOP MAU

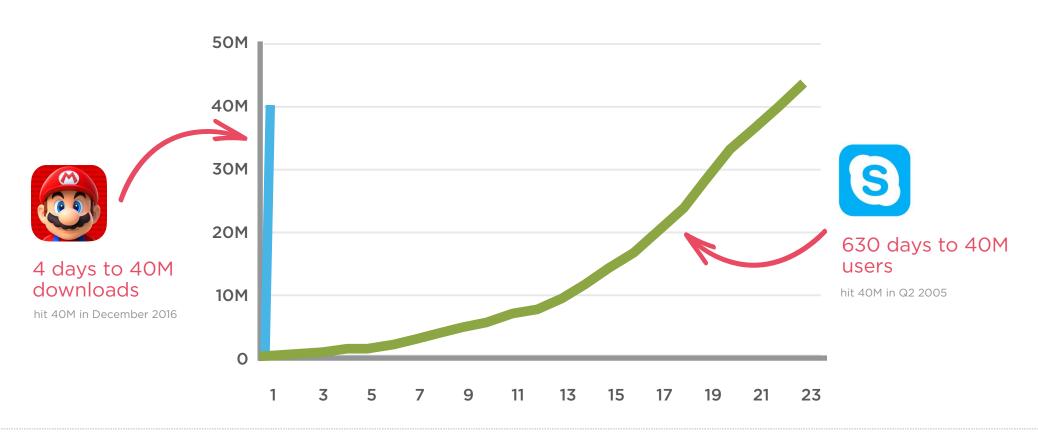


2016

120M DESKTOP MAU

1,740M

### App Growth in 2005 vs. 2016





#### Time to Reach 10M Users

1 DAY



SUPER MARIO RUN

2 DAYS



POKEMON GO

**3 DAYS** 



ANGRY BIRDS SPACE

16 DAYS



GOOGLE+

**780 DAYS** 



**TWITTER** 

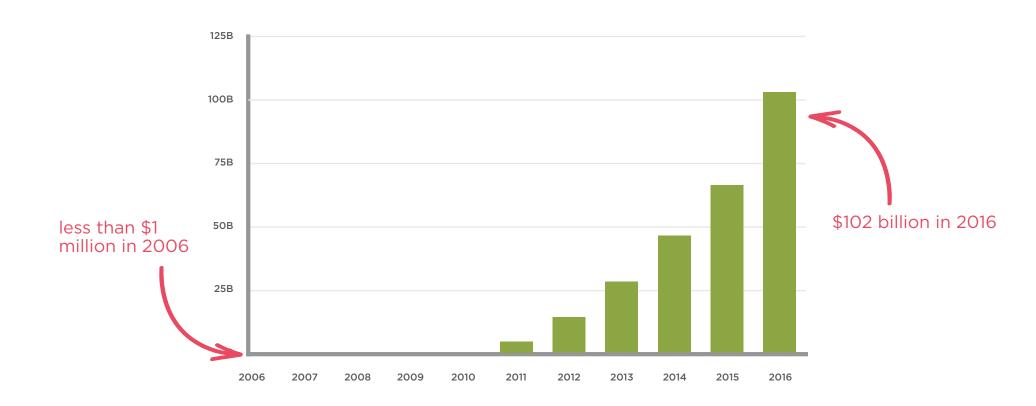
**852 DAYS** 



FACEBOOK

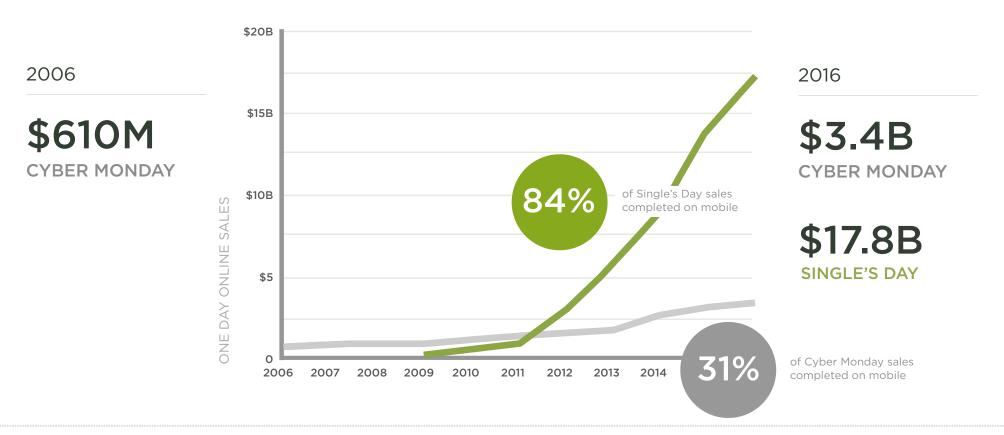


## **PayPal** Annual Mobile Payments Volume



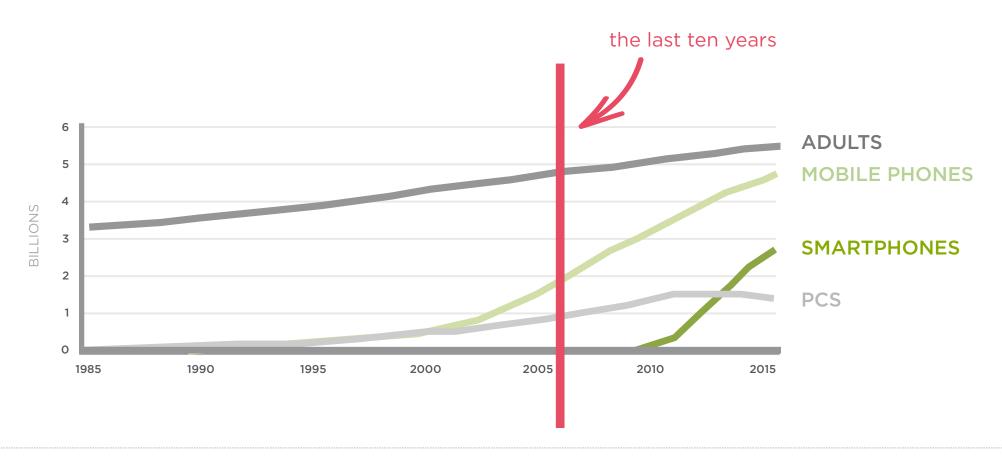


#### Cyber-Monday (US) vs. Single's Day (China)

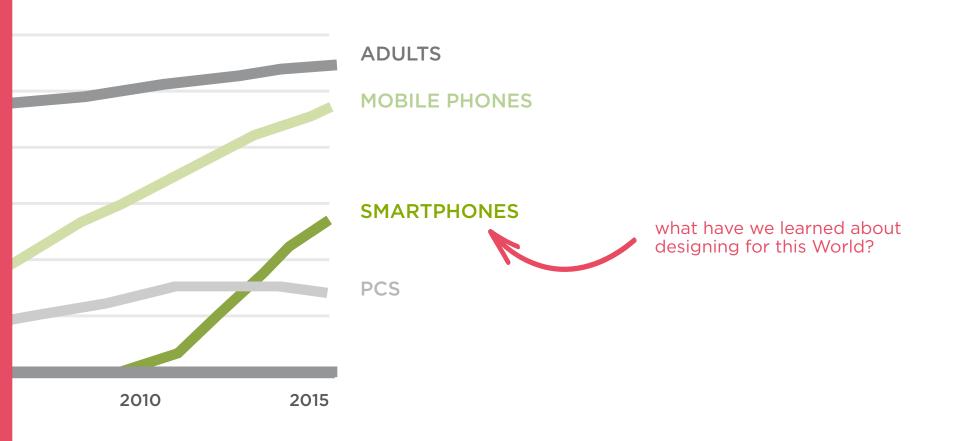




### Global Population











IOS 2













**IOS 8** 







view it take square photo take pano photo take live photo take portrait photo take video take slo-mo video take time-lapse video switch front/rear camera switch telephoto/non camera loop, bounce & long exposure options for live photos turn filters on/off turn timer on/off turn live photos on/off turn HDR on/off turn flash on/off

take photo

IOS 9 IOS 10 IOS 11













view it take square photo take pano photo take live photo take portrait photo take video take slo-mo video take time-lapse video switch front/rear camera switch telephoto/non camera loop, bounce & long exposure options for live photos turn filters on/off turn timer on/off turn live photos on/off turn HDR on/off turn flash on/off

take photo

IOS 8 IOS 9 IOS 10 IOS 11





#### Classic Case of Feature Creep? Or...

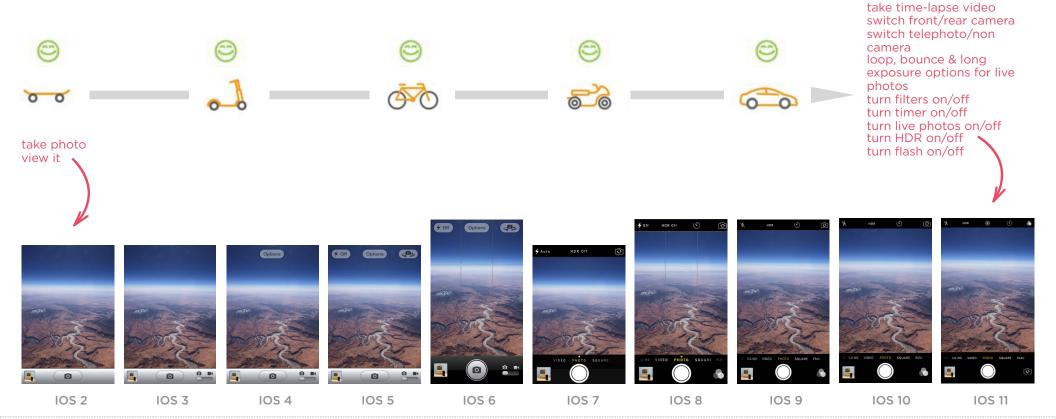
take photo view it take square photo take pano photo take live photo take portrait photo take video take slo-mo video take time-lapse video switch front/rear camera switch telephoto/non camera loop, bounce & long exposure options for live photos turn filters on/off turn timer on/off turn live photos on/off turn HDR on/off turn flash on/off







#### Building a Minimum Viable Product at Scale?



take photo view it

take video take slo-mo video

take square photo take pano photo take live photo take portrait photo

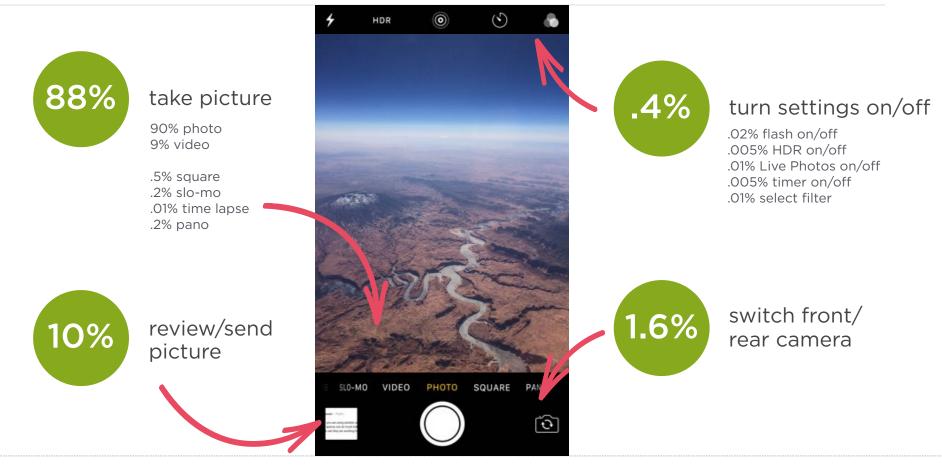
## Classic Case of Feature Creep?



Minimum Viable Product Process?

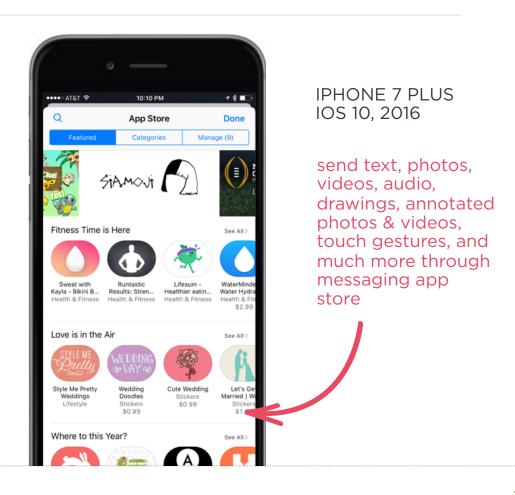


#### Probable Use of Each Action



#### Ten Years of iOS Messaging Design

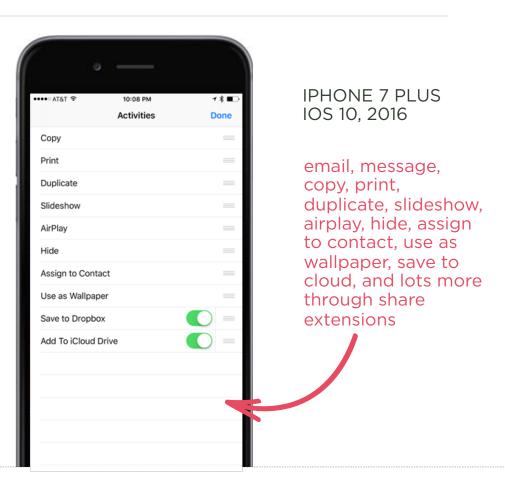






#### Ten Years of iOS Sharing Design





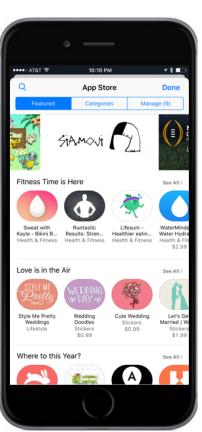


#### Ten Years Later on iOS...











### Ten Years of iOS Calculator Design





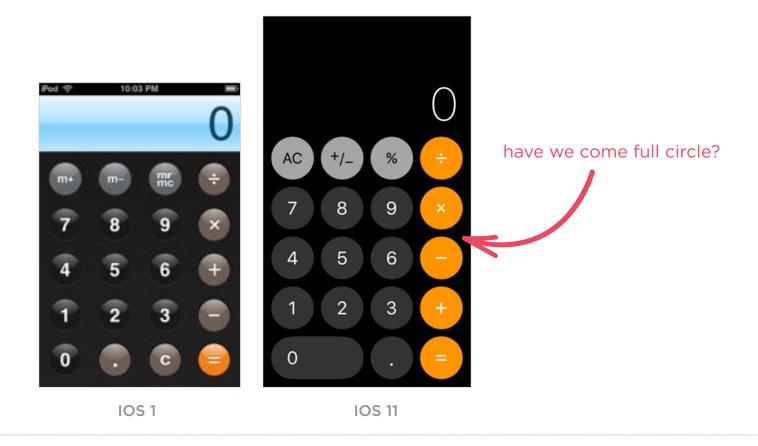




IOS 1 IOS 3 IOS 7 IOS 11

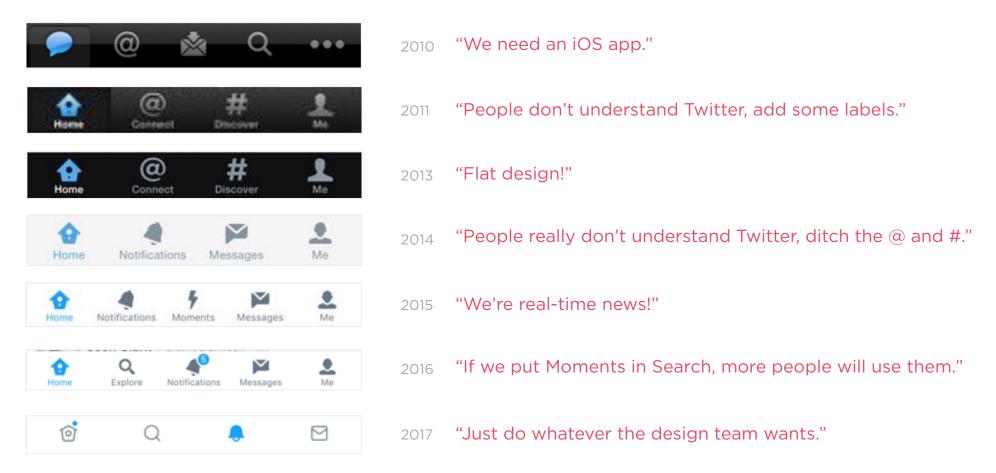


## Ten Years of iOS Calculator Design



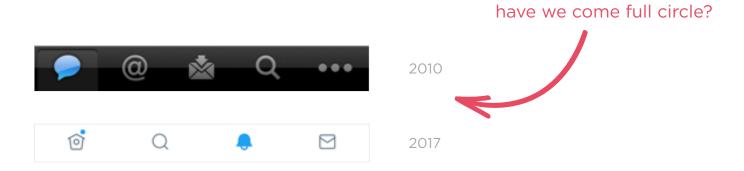


#### Twitter iOS App



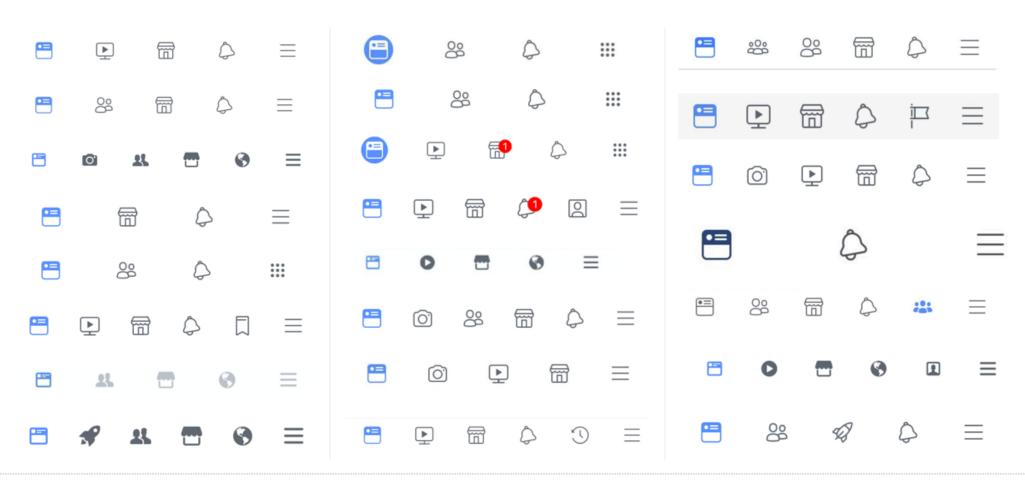


#### Twitter iOS App

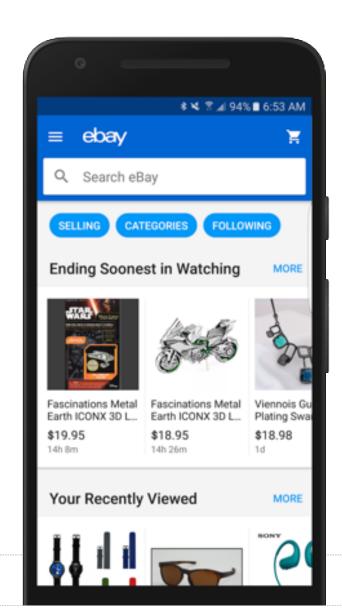




#### Facebook Mobile App





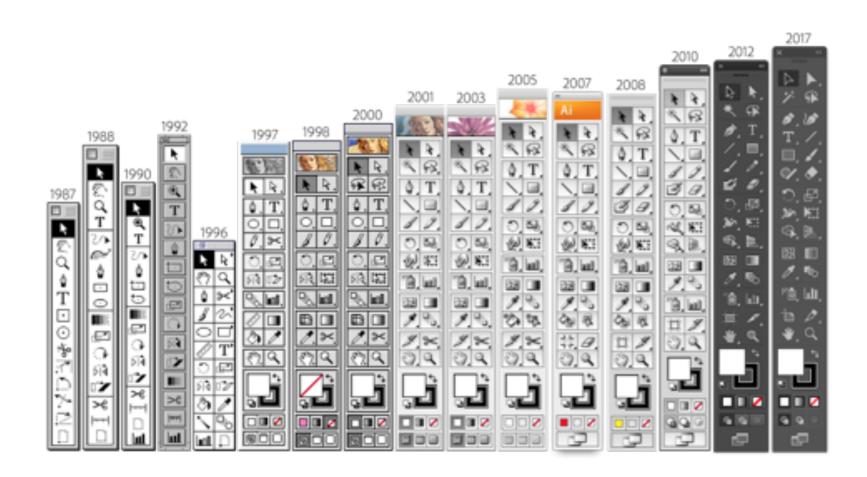




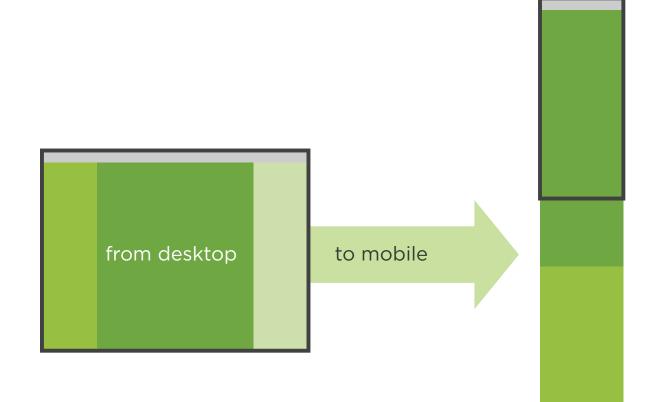
#### Ten Years of eBay Android App Design









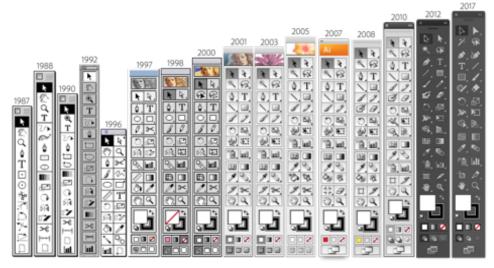




#### **DESKTOP DESIGN**



#### MOBILE DESIGN

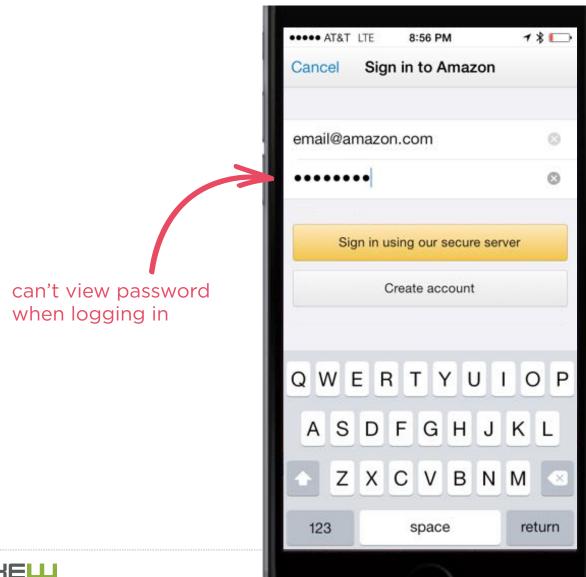




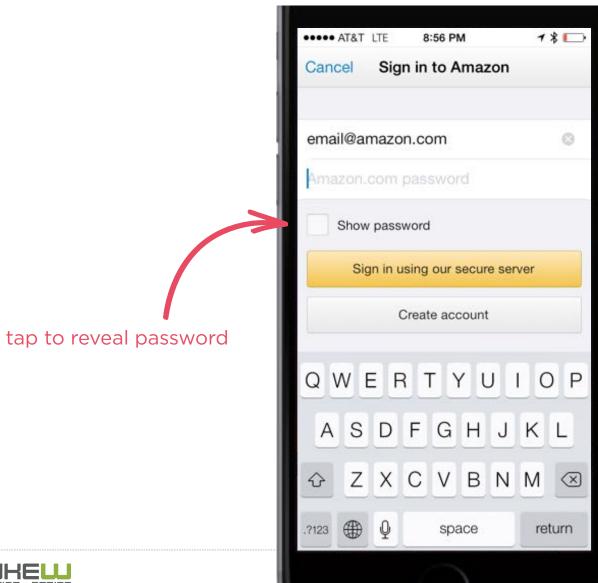














Can't view password

Tap to reveal password

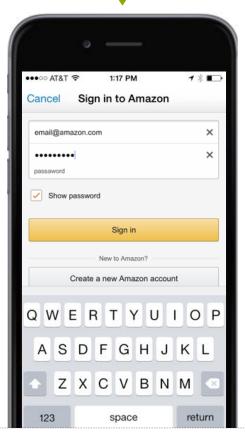
Password revealed by default, tap to hide

Reveal password below as you type

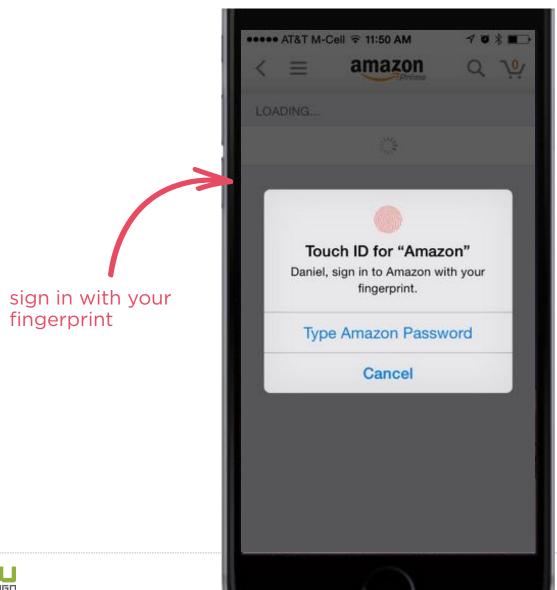












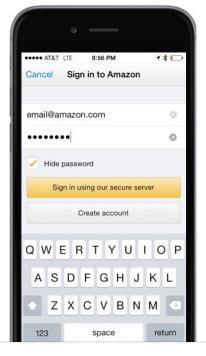


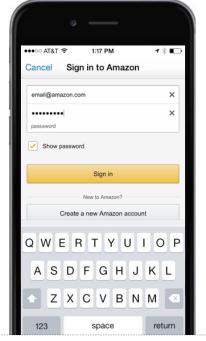
# what are we iterating toward?

### **ITERATION**



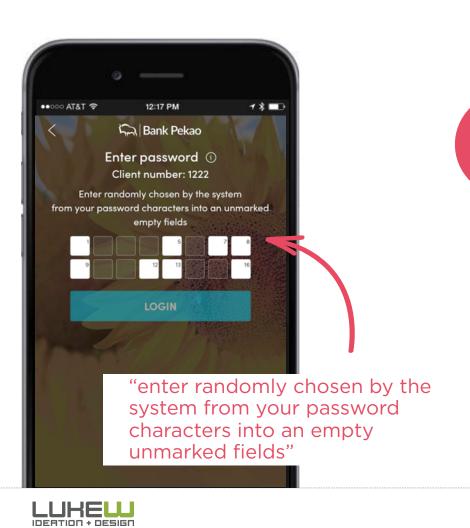


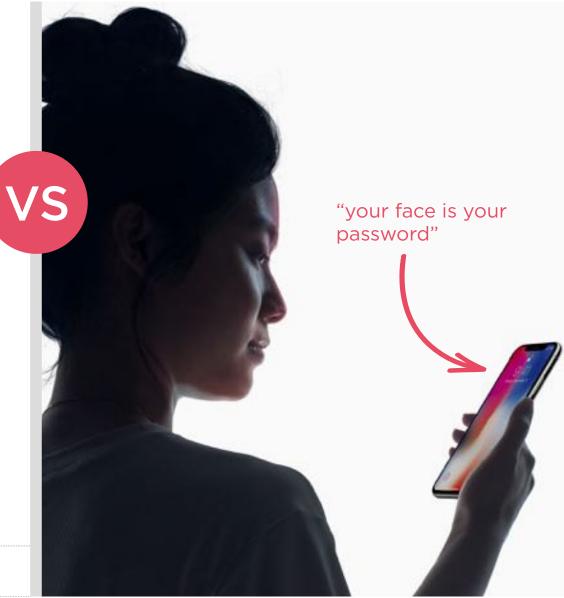












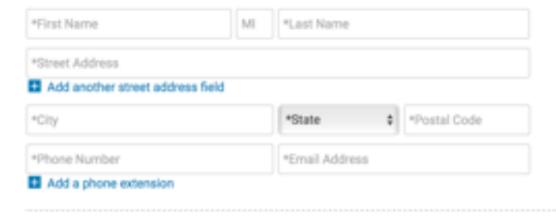


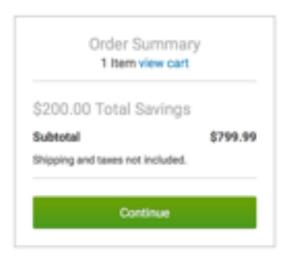
## Checkout

Shipping Payment Verify & Submit Order Order Submitted

### Shipping

A signature is required for delivery. We do not ship to PO Boxes.



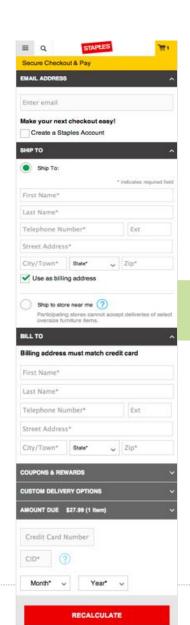


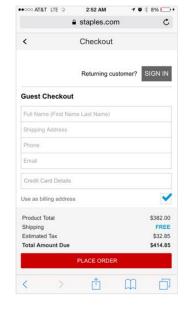






- \*Billing Address what is that?
- Same as Shipping information
- Use a different address and contact

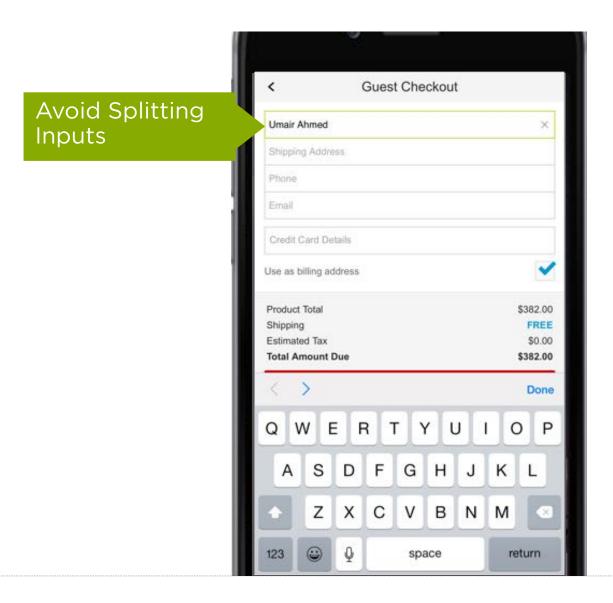




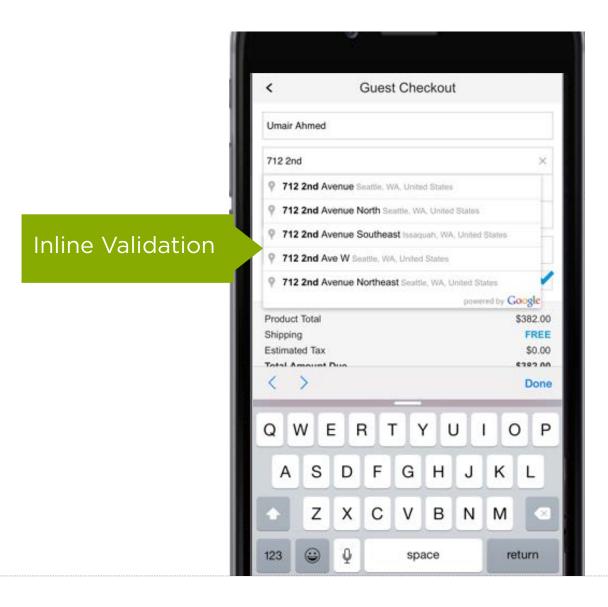
### **5 INPUTS**



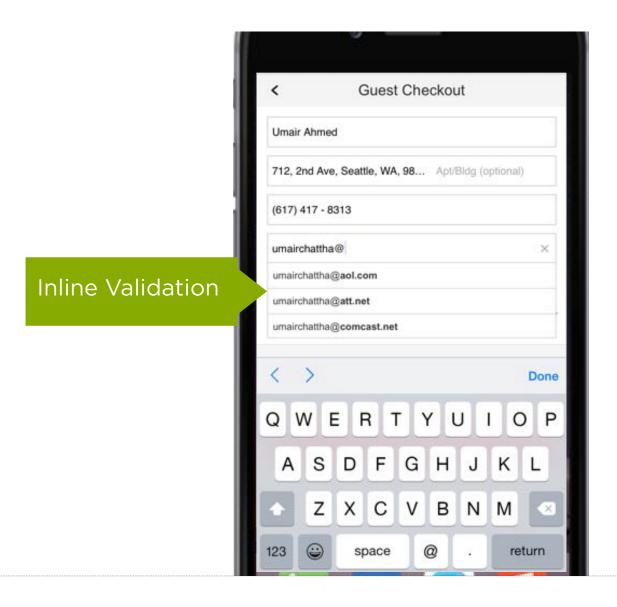
22 INPUTS



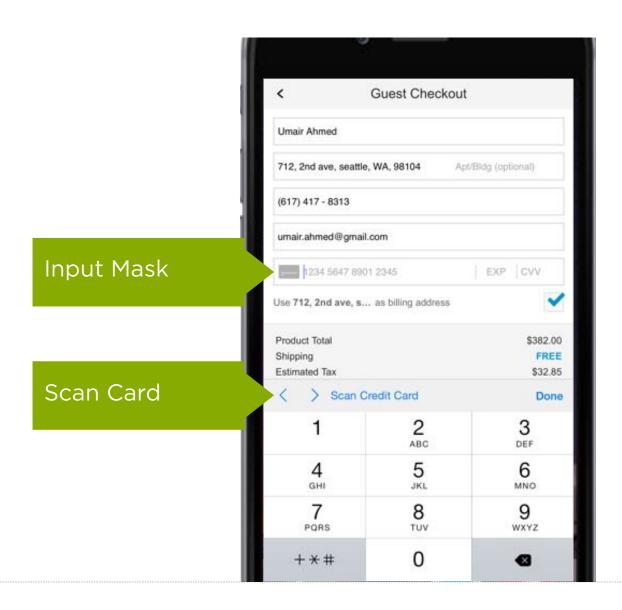




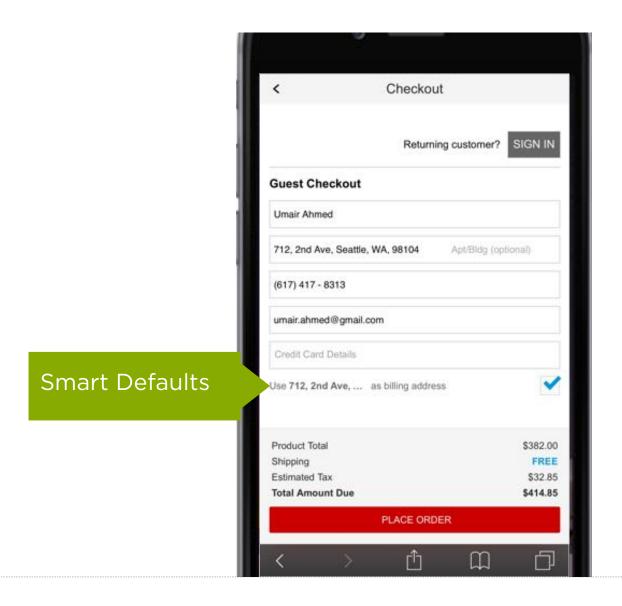








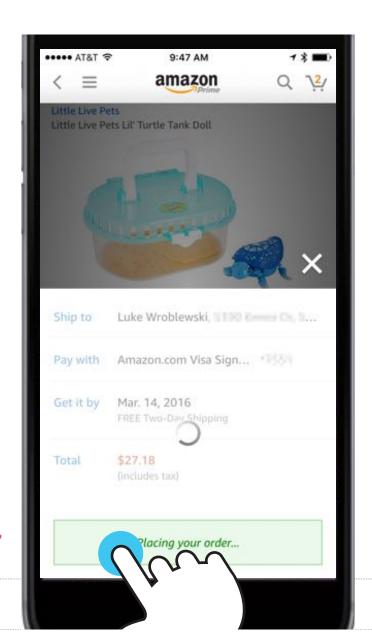


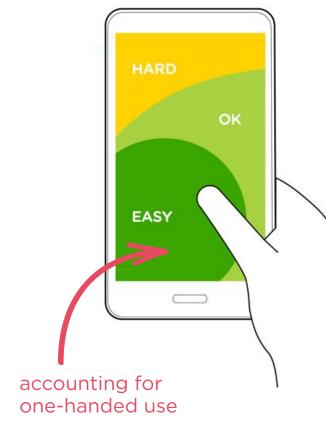




#### Reduced inputs Address Lookup Inline Validation **Input Masks Smart Defaults Guest Checkout** < **Guest Checkout Guest Checkout** < **Guest Checkout** Checkout Umair Ahmed Umair Ahmed Umair Ahmed Umair Ahmed Shipping Address 712 2nd 712, 2nd ave, seattle, WA, 98104 Apt/Bldg (optional 712, 2nd Ave, Seattle, W Checkout 2nd Avenue Seattle, WA, United States (617) 417 - 8313 Email (617) 417 - 831 umair.ahmed@gmail.com Credit Card Details umairchattha Apt/Bldg (optional 1234 5647 8901 2345 Use as billing address Use 712, 2nd ave, s... as billing address powered by Google Product Total \$382.00 Shipping umairchattha@co Product Total FREE Estimated Tax \$0.00 Shipping **Total Amount Due** e202 nn Estimated Tax people starting reduction in reduction in guest Don checkout checkout time checkout clicks QWER YUI OF \$382.00 DFGHJKL 4 5 6 FREE (F) D F GHJKL A S D GH K Estimated Tax \$32.85 GHI MNO **Total Amount Due** \$414.85 8 9 X C V B N M X C X C ٧ B N M V B N M PLACE ORDER PORS TUV WXYZ 0 space space return space @ return + \* # @









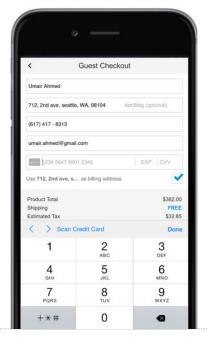
swipe to purchase

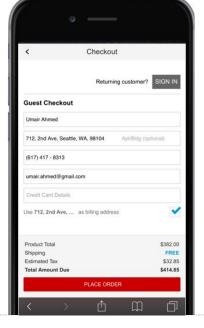
## what are we iterating toward?

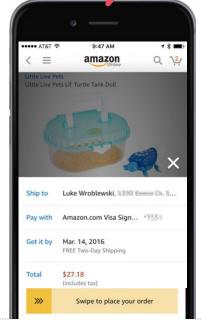
### **ITERATION**











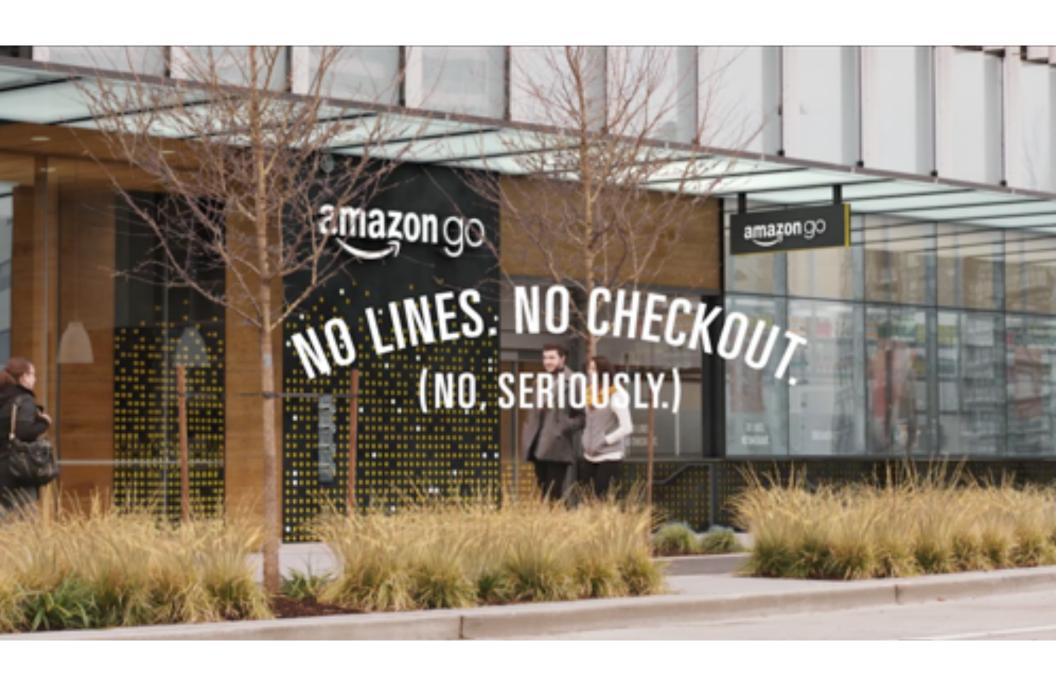


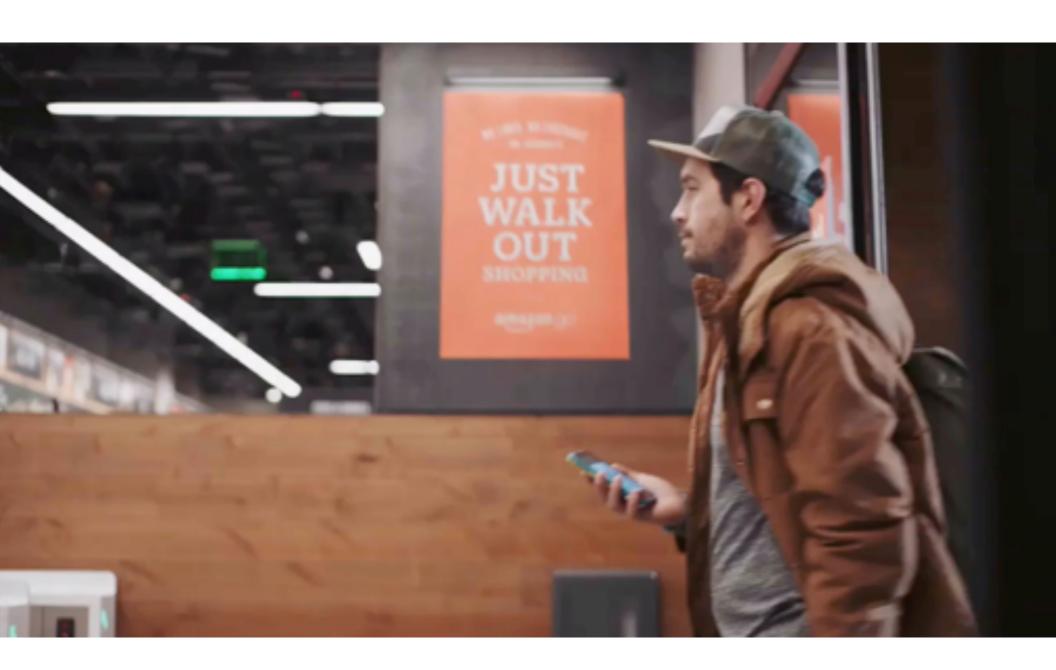
## Amazon Dash Button



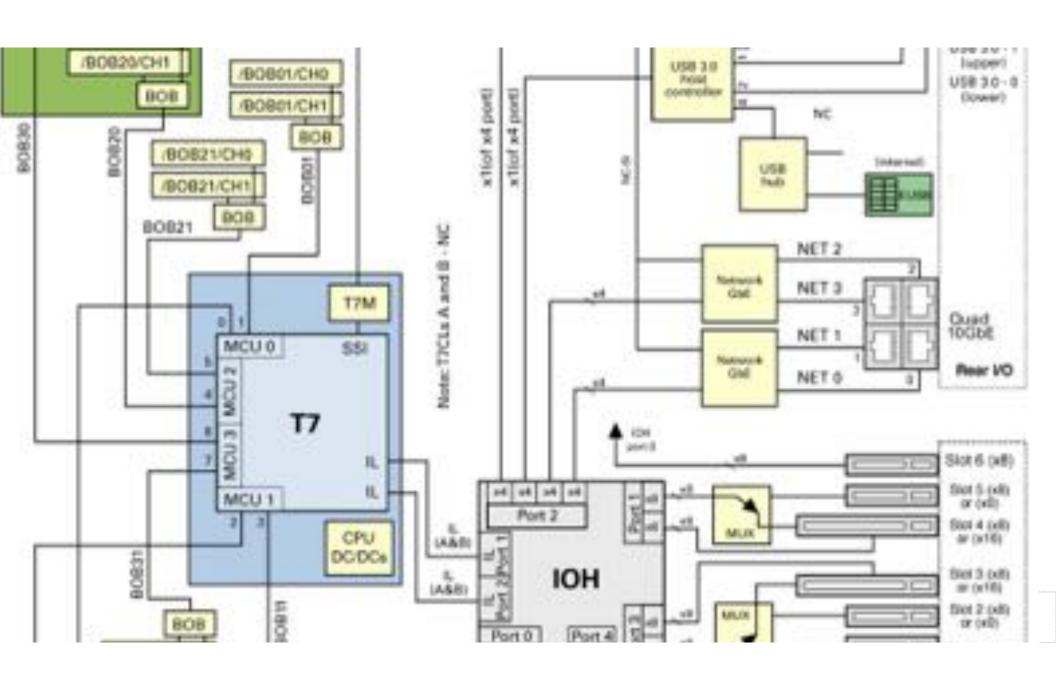




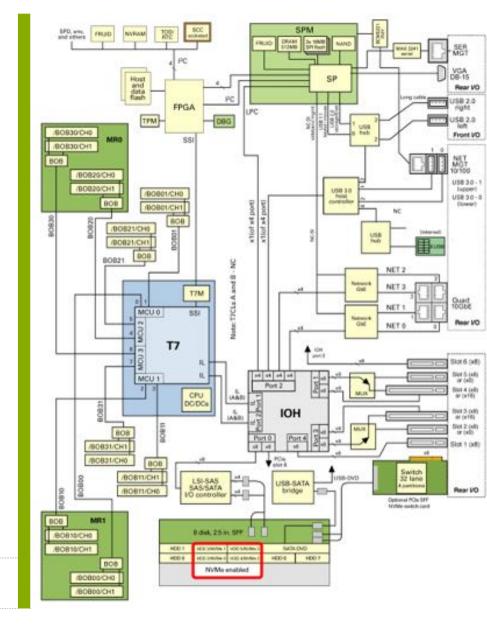




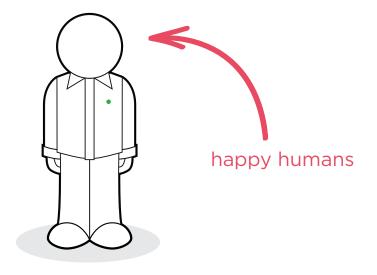




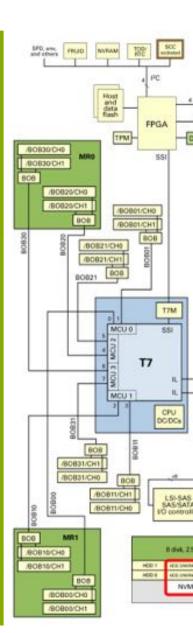










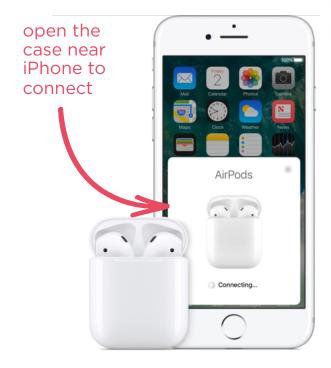




## Amazon Dash Button





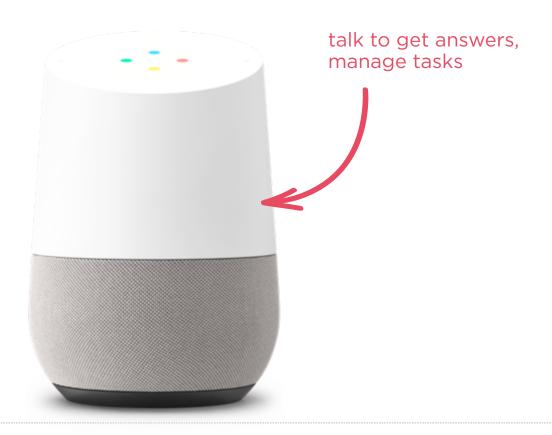






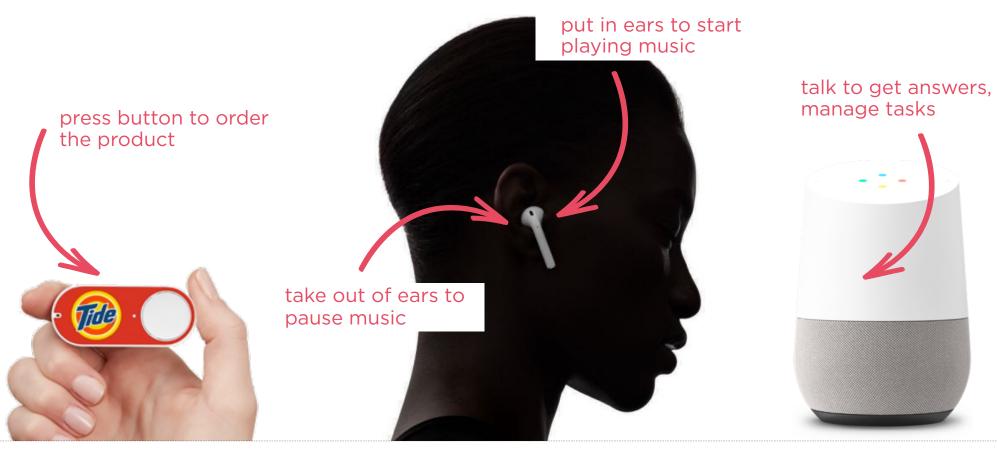


## Google Home





AMAZON DASH APPLE AIRPODS GOOGLE HOME







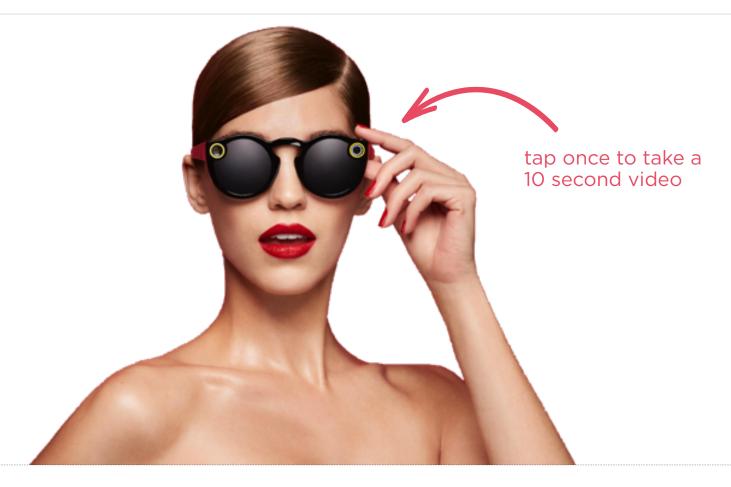








## Snapchat Spectacles





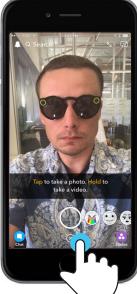
take out phone, open app

tap Memories tap Specs

tap (multiple times) to find video

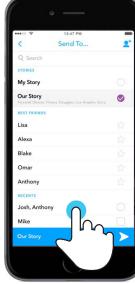
swipe or long press to share select where to send ...













Aol.

MON MAR 20

READ MORE :

### ENTERTAINMENT NEWS

being president'

ENTERTAINMENT ON AGE

- What parenthood forced Maks to realize about himself
- loe Cube isn't afraid of hard work
- Idina Menzel suffers unbelievable wardrobe oops
- Jennifer Lopez and Alex Rodriguez show PDA
- Big news for 'Big Bang Theory'
- Kendall Jenner shakes booty in lingerie

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#### FINANCE NEWS

FINANCE ON AGL

- Netflix to replace ratings with a whole new system
- Cheerios' attempt to save bees backfired massively
- This billionaire made more money than Trump in 2016.

### SEARCH

### March Madness



- A look at the biggest March Madness upsets...
- Sweet 16 power rankings: Kansas on top

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Luke Pasqualino, Rupert Grint & Alex De Rakoff talk about the British slang used in 'Snatch'

#### MONDAY, MARCH 20TH

Choose your sign:

Y

00/25-04/19

07/03/48/02

TAURUS

04/20-05/20

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II (85/21-08/20

9

99

SCORPIO

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CANCER

LEO VIRGO

100 08/23-08/22 C)

. ....

08/23-16/22 10/23-11/21

SAGITTABUS CAPRICORN



<u>J</u>

222

AQUABUS

1-02/18 02/1

SEE ALL

POWERED BY TAROT.COM





 $\bowtie$ 

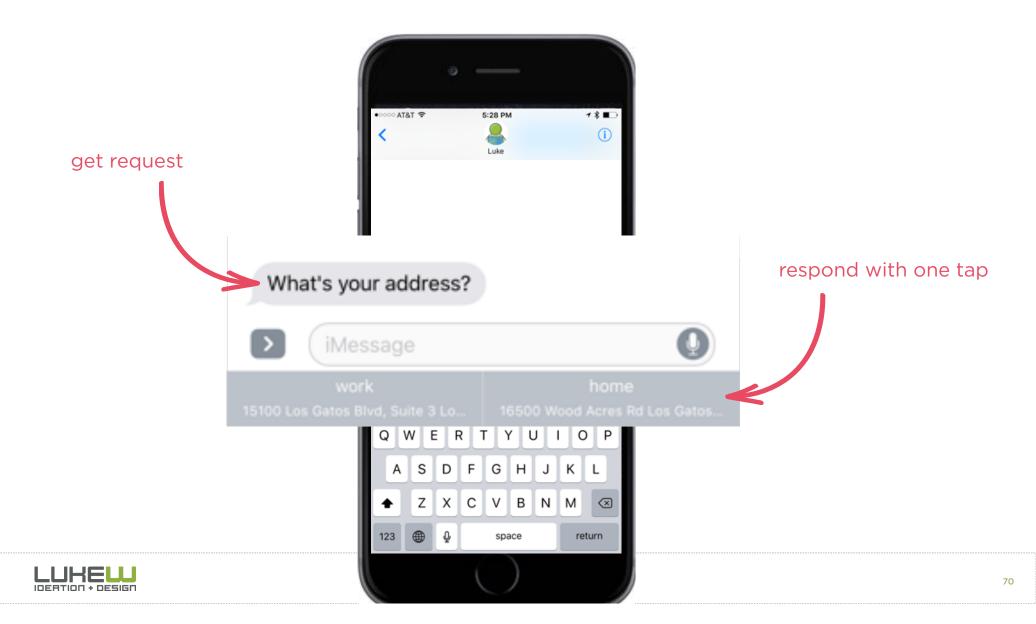


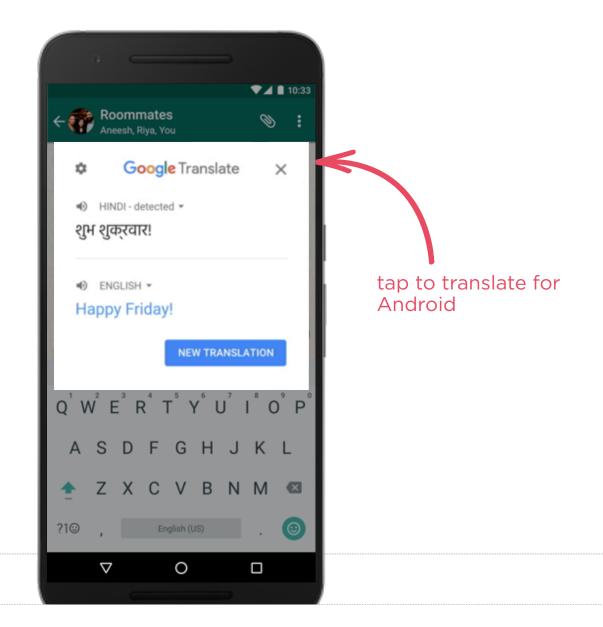




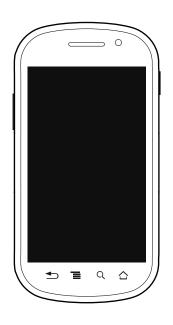










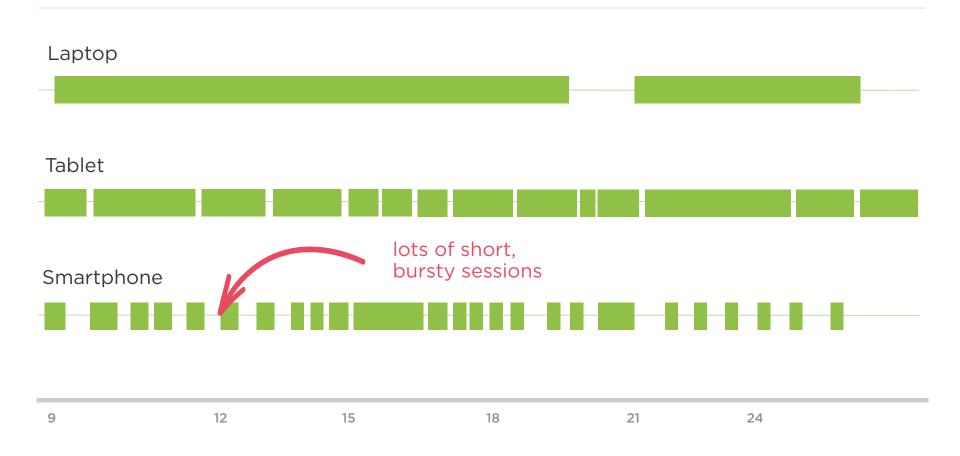


"Not every interaction on mobile can/should be that simple, right?"





## Mobile 3G Traffic Patterns





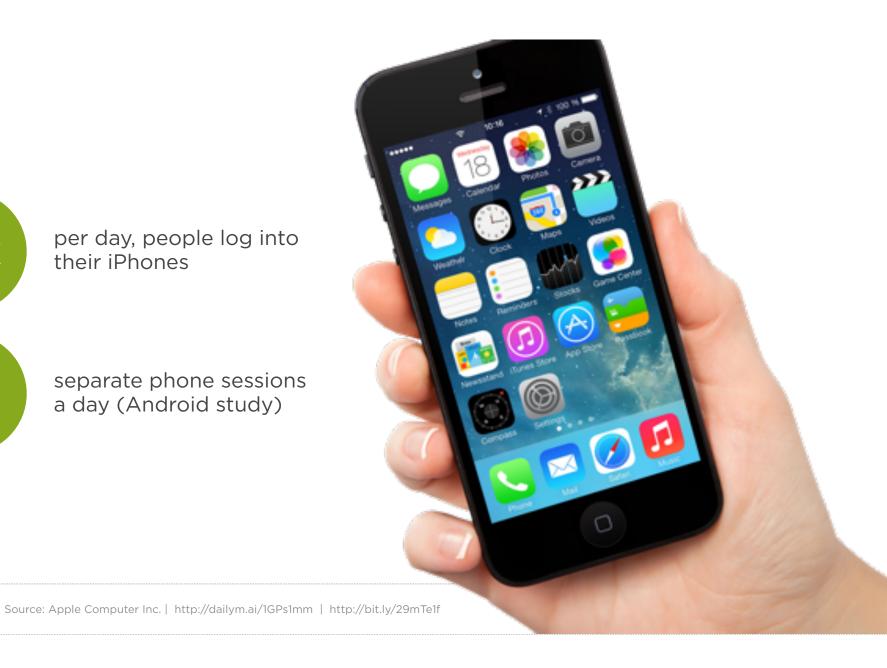
Source: http://bit.ly/qL5NdX



per day, people log into their iPhones



separate phone sessions a day (Android study)



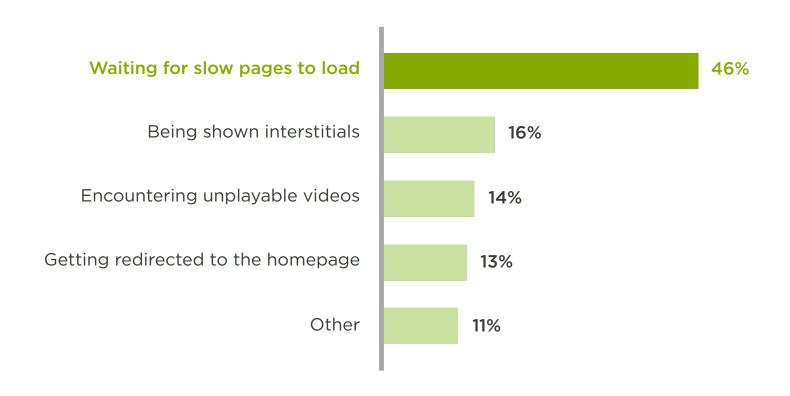




more than half of sessions are 30secs or less



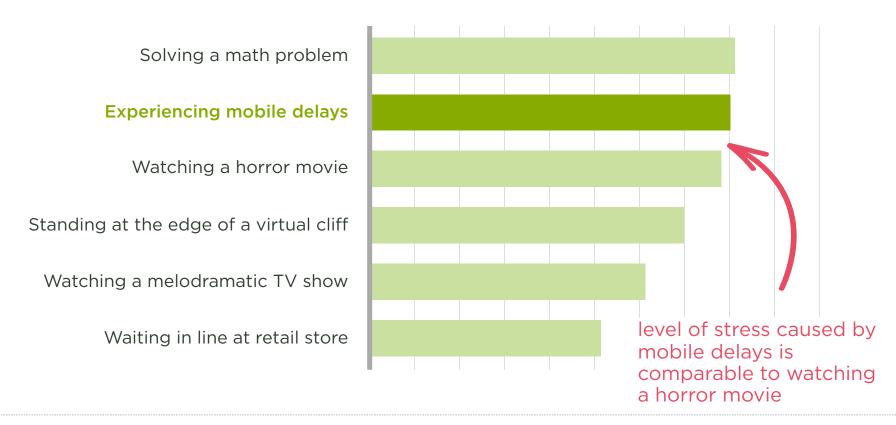
## What do you dislike most when browsing Web on mobile?





Source: http://bit.ly/2nOqrts

## Cognitive Load with Stressful Situations







average interaction times





Source: Mobile Life Research Centre, University of Stockholm

#### BEFORE





#### **AFTER**





#### FIRST TIME

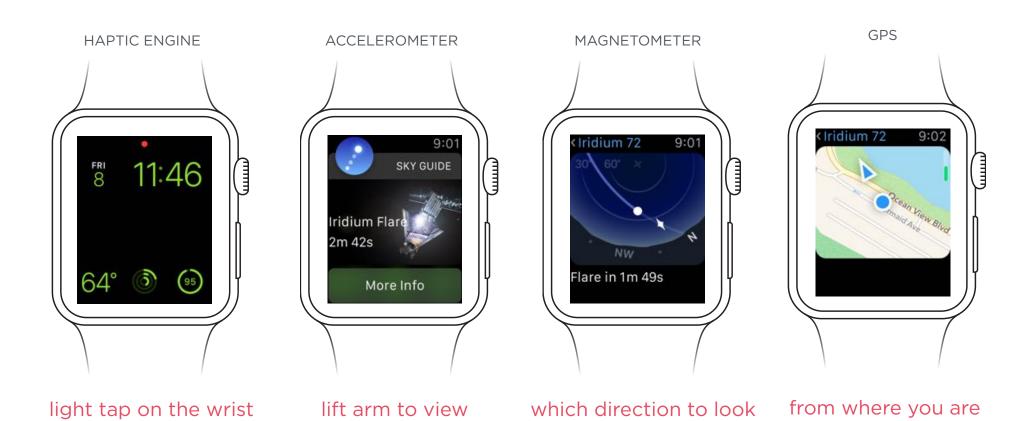




#### SECOND TIME





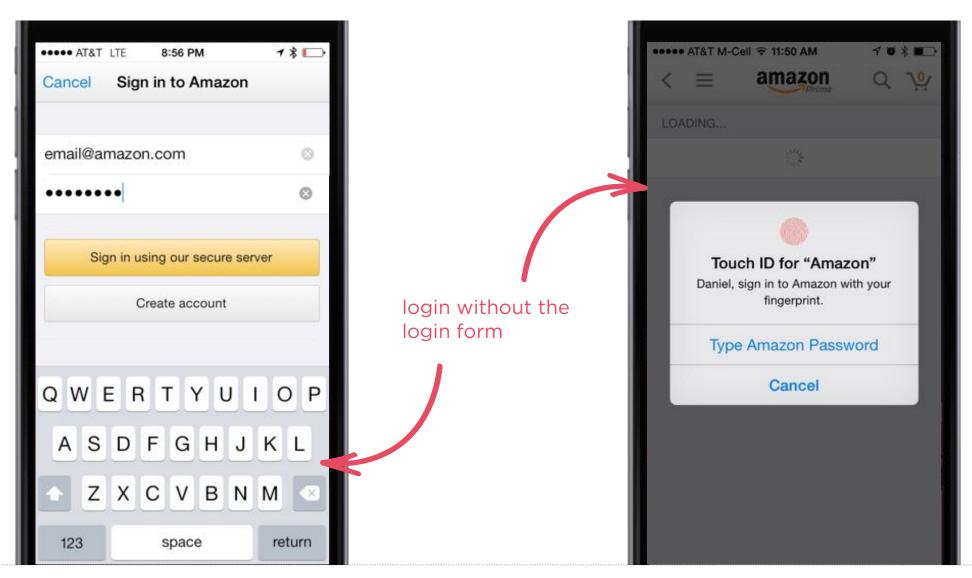




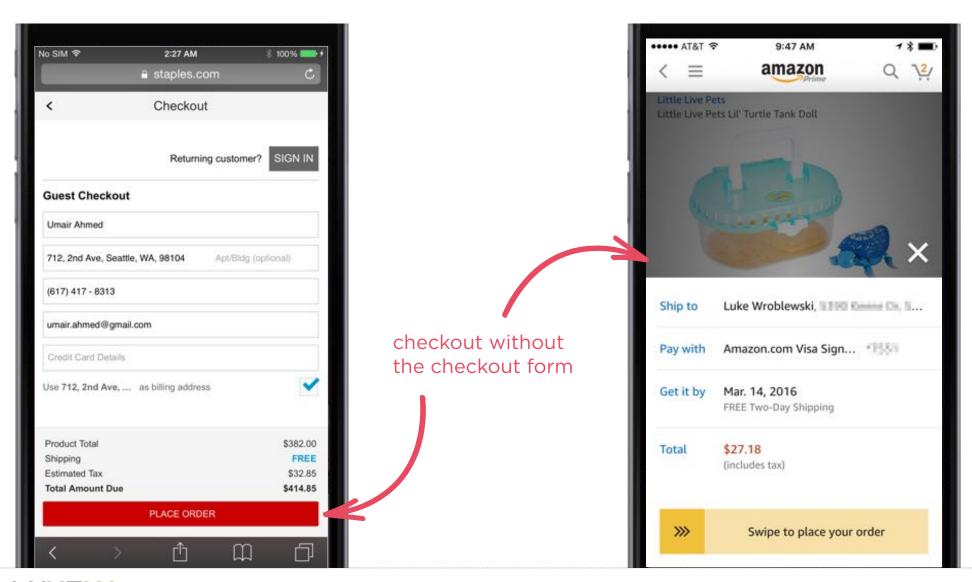


- Take the work on yourself
- Learn from past behavior
- Make use of sensors/hardware

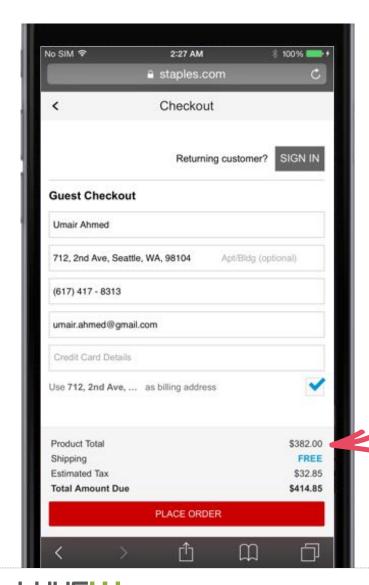


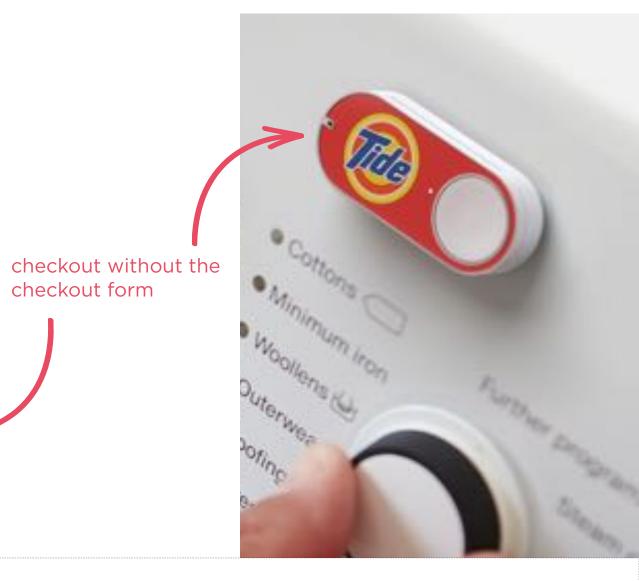




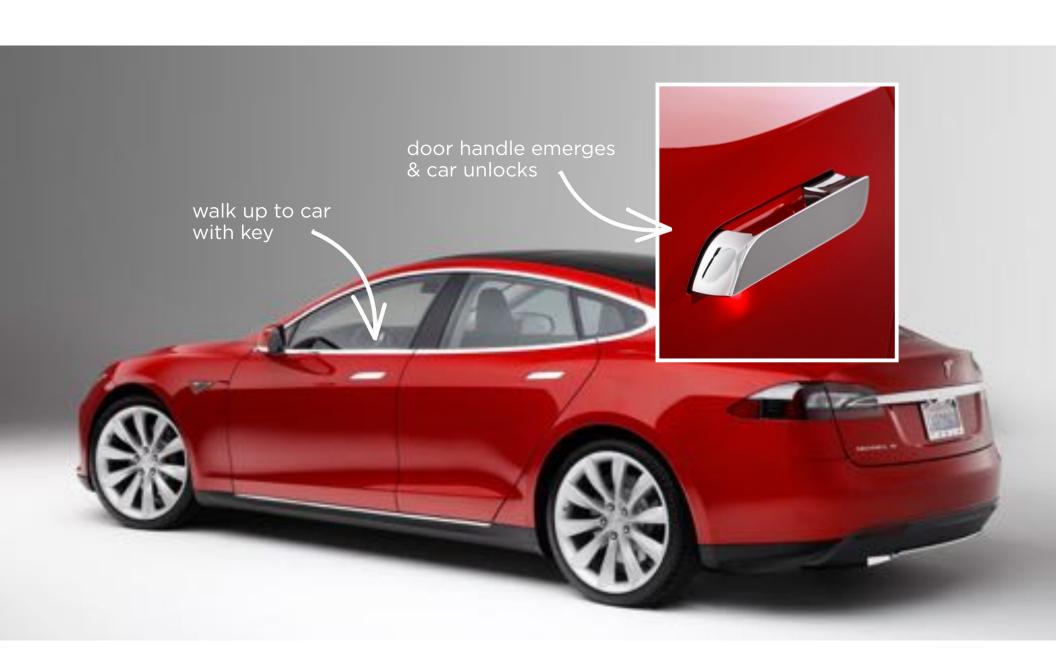


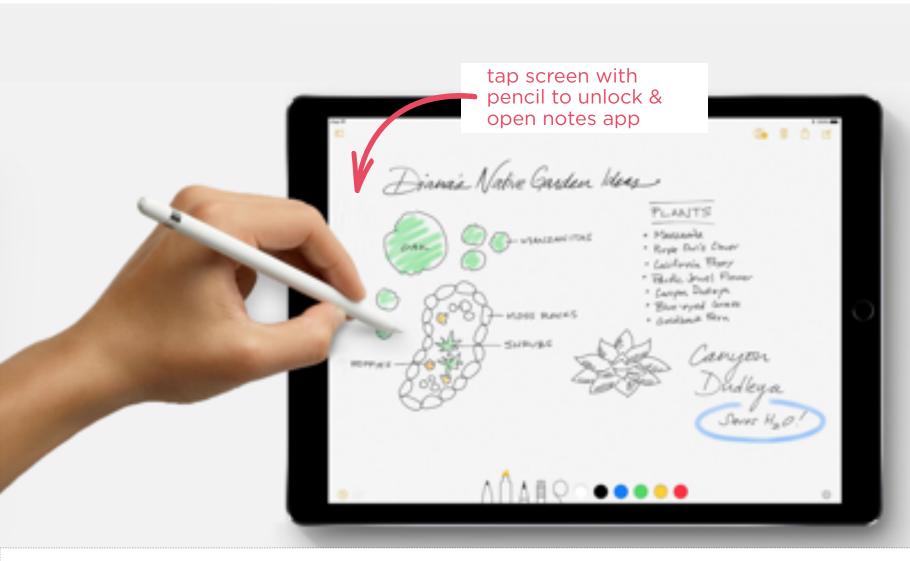




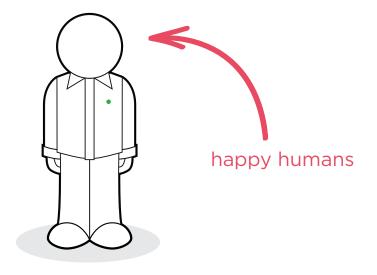




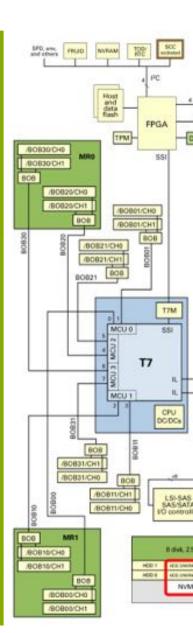




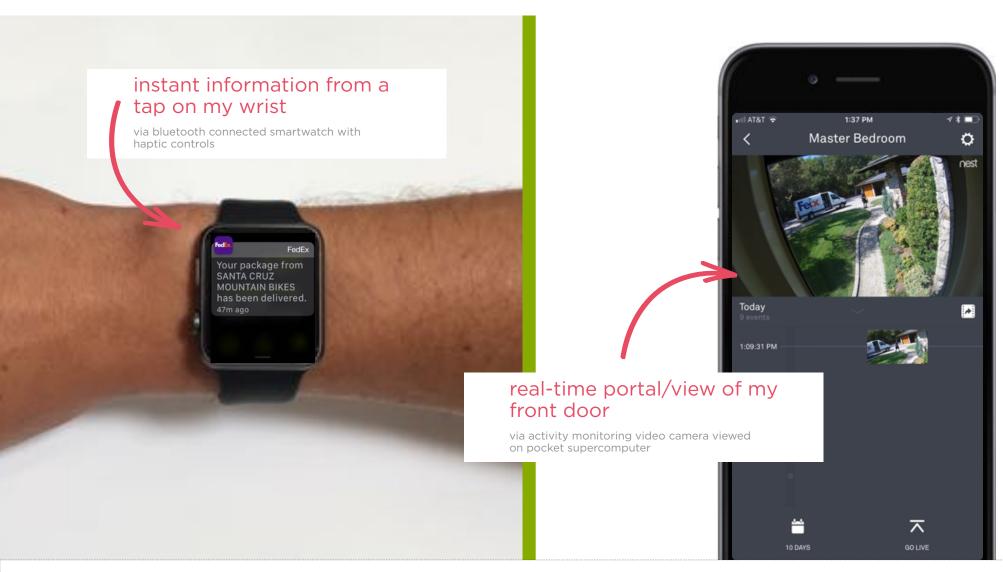








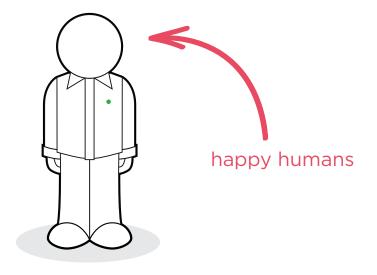




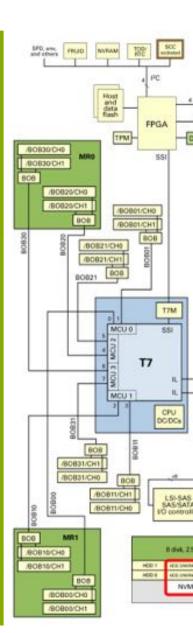




"i don't understand what is new here. [...] i'm struggling to see what is the innovation in a motion-activated webcam, in 2017. Please correct me if this is a sarcastic post, otherwise..."









There isn't enough time in the world for people to sacrifice infinite amounts of opportunity and cognition. It follows that much of this activity should be done for us by other people. A class of aware, well-informed, trained and educated people...



be done for us by other people. A class of aware, well-informed, trained and educated people...

People who will make it their professional business, no, even their calling, their practice, their very mode of being -to create a human-object relationship that is as advanced as we can manage while still being acceptable. Who would that be then? **Designers.** 

Who else is there?

**Bruce Sterling, 2005** 



#### MOBILE DESIGN NOW...

## 1. Immense Opportunity

MOBILE DEVICES, AUDIENCE, GROWTH, REVENUE AT GLOBAL SCALE

## 2. Optimize for Today

FOR CRITICAL INTERACTIONS

MANY IMPROVEMENTS POSSIBLE NOW

### 3. Aim for the Future

SET VISION, ITERATE TOWARD IT NUIS AS A GUIDING STAR





# THANKS



