

IN 1952 AT...

## **CORNING**



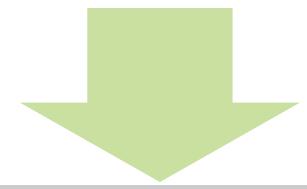






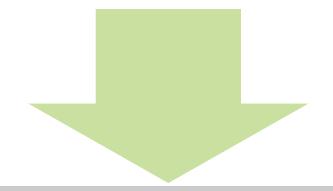
# GLASS

7,000 LB/SQ. INCH

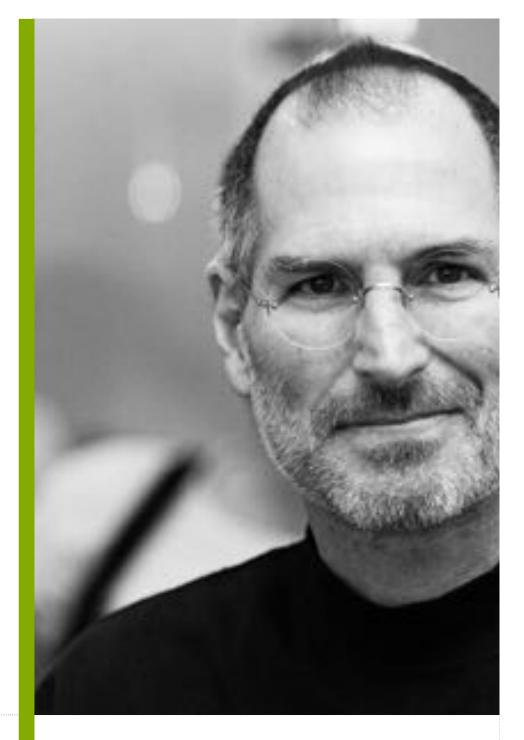


## 0317

100,000 LB/SQ. INCH



"Make millions of square feet of ultrathin, ultrastrong glass that doesn't yet exist."





## 7 FOOTBALL FIELDS







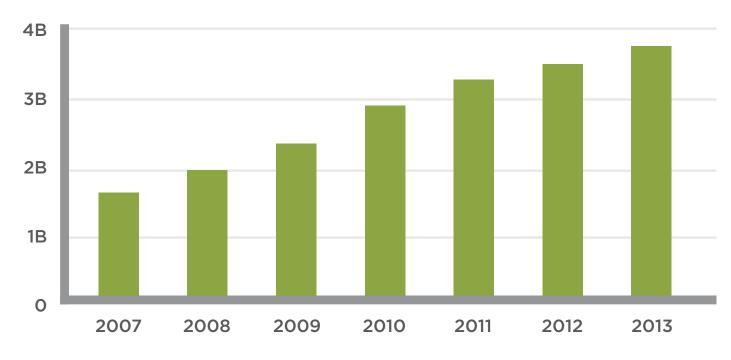
2013

1.5B CONSUMER DEVICES

2X OVER NEXT FEW YEARS

### CORNING Gorilla®Glass

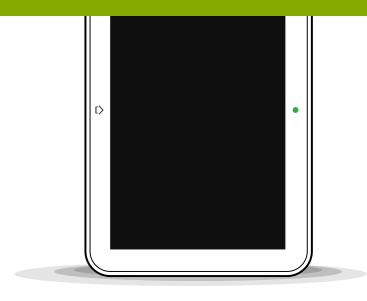
### GLOBAL LCD SCREEN SALES (SQ. FEET)

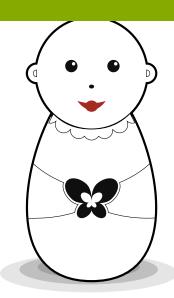




"Half a square foot of LCD screen sold for every human on earth."

### IN JUST ONE YEAR





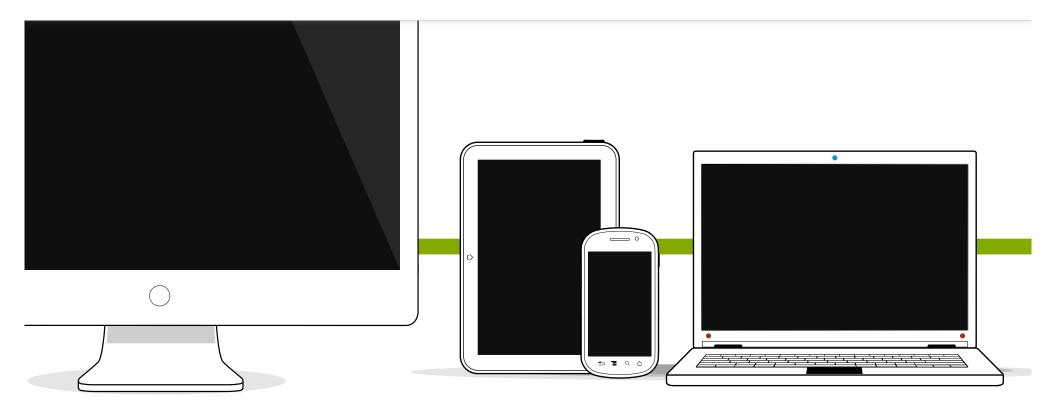
"We care about [the display] because we know that's the window to the software."

& the Internet!

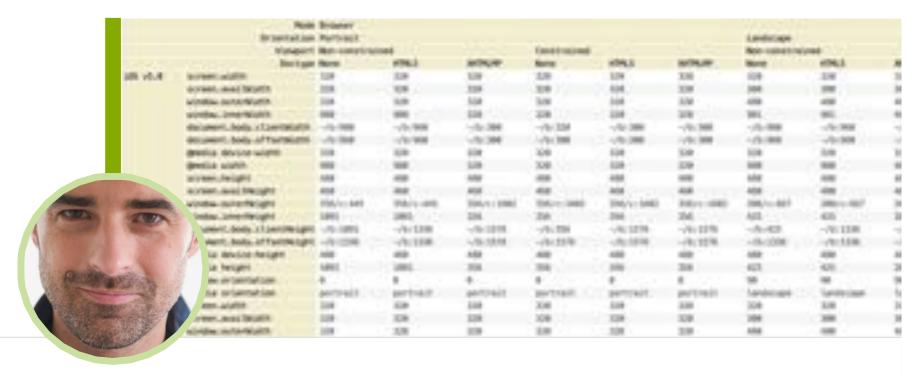


#### IN A WORLD OF GLASS...

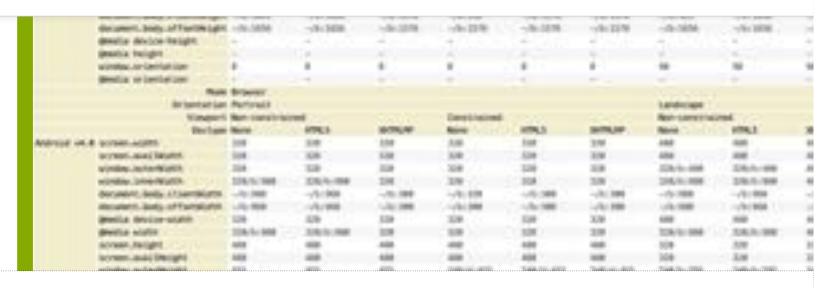
### Online time is screen time.





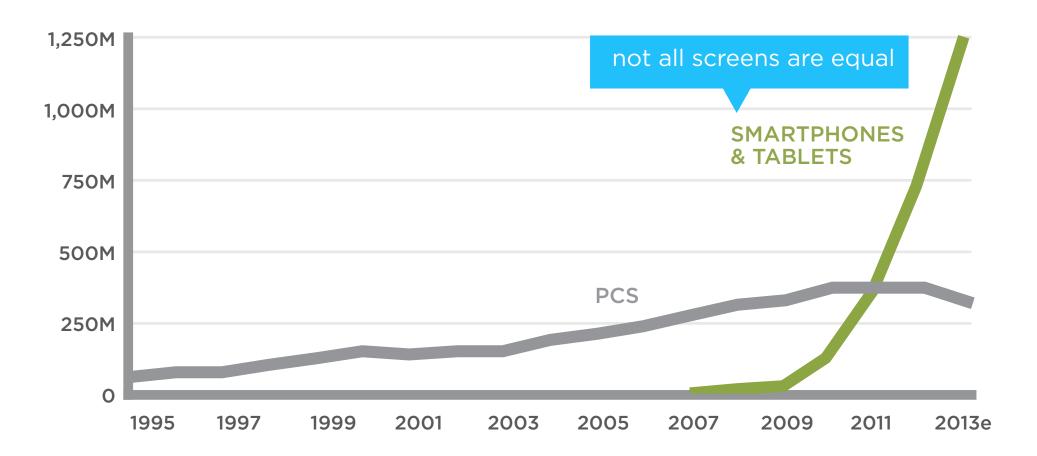


### "Wow. Painful, on the whole."



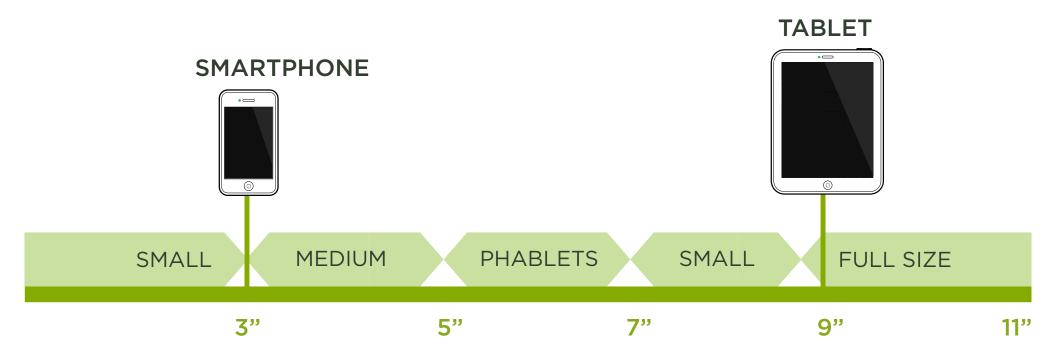


### Global Sales

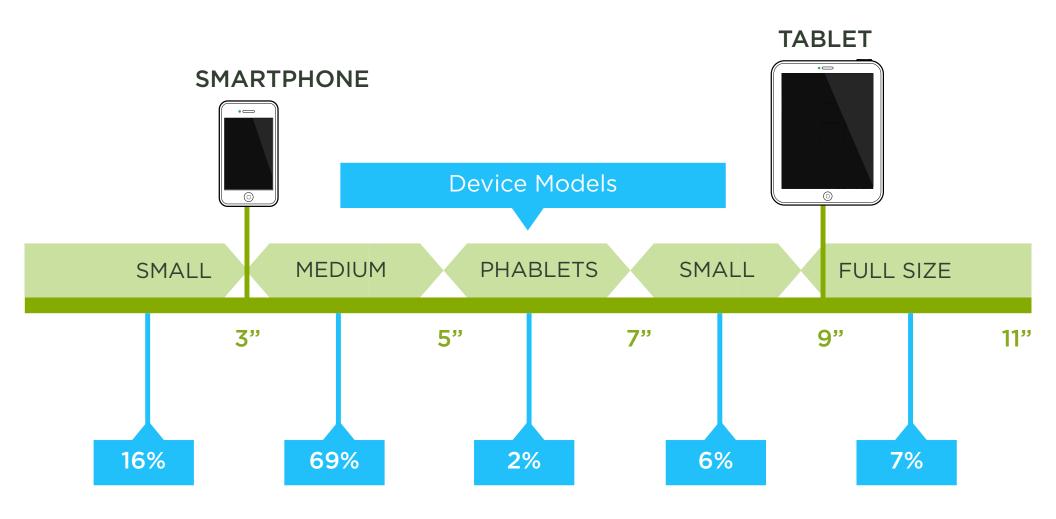


#### **DESKTOP LAPTOP TABLET SMARTPHONE** 0 3" 11" 15" 19" 21" 23" 25" 5" 7" 9" 13" 17" 27"

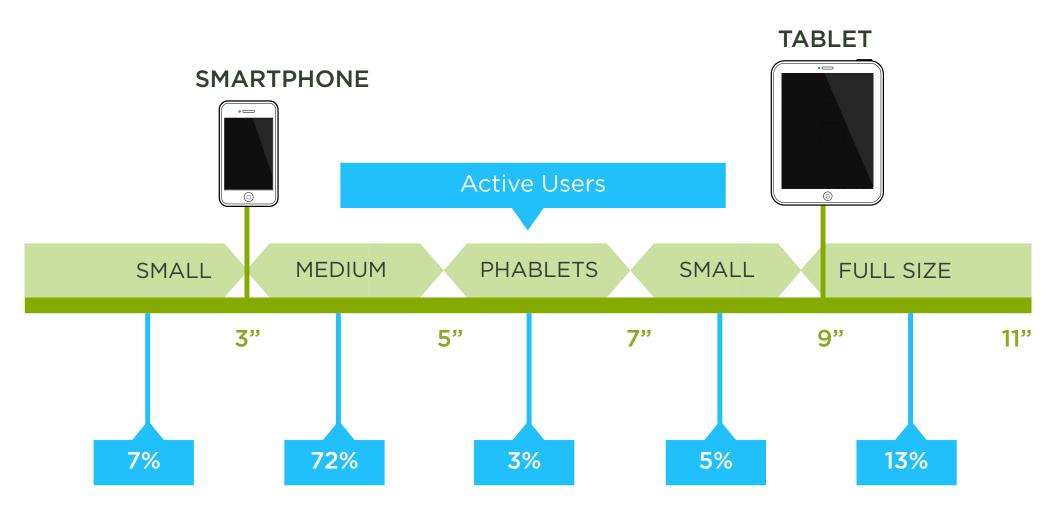


















### 2017 Forecast



"Mobile is the first time the consumer tech industry has sold to every single person on earth."

This takes some adjustment.









- 1. Know Your Screen
- 2. Output
- 3. Input
- 4. Posture





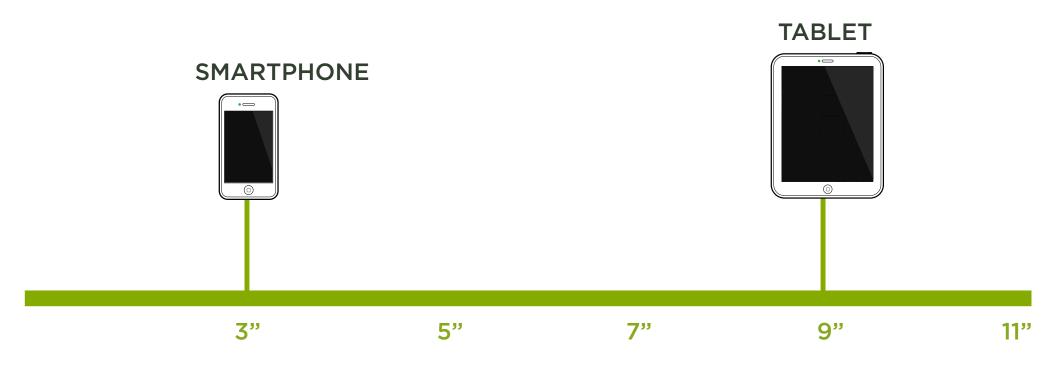
### 1. Know Your Screen

- 2. Output
- 3.Input
- 4. Posture





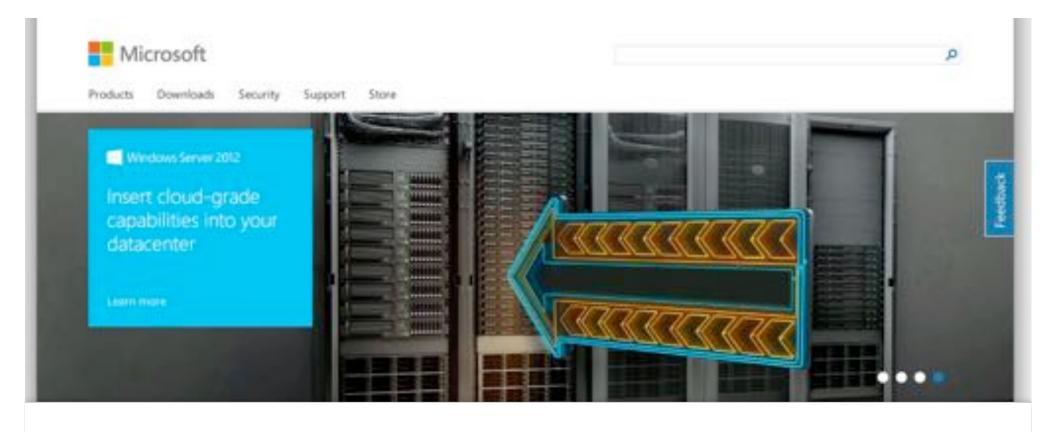






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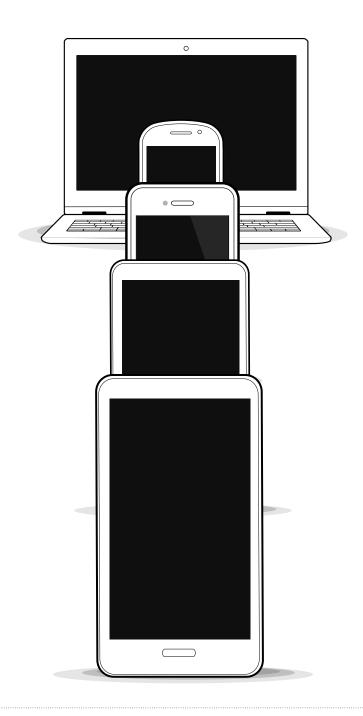


```
@media screen and (min-width:70em) {
   .BoxRight {
      margin-left: 8em;}
}
```



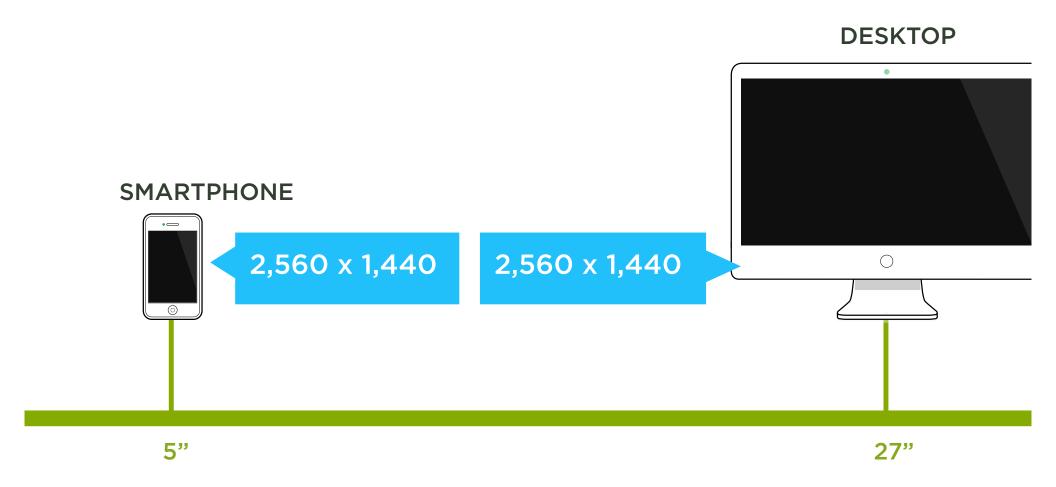
"not just the size but the resolution, the clarity, [...] we care about all those."





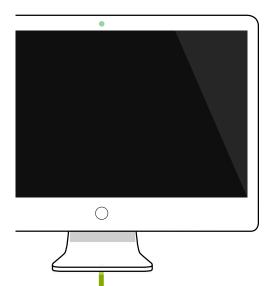








#### **DESKTOP**



ULTRA HD (4K)

3840 x 2160



27"

28"

\$699





**ULTRA HD** 3840 x 2160



## "Mo' pixels, mo' problems."







Pack is the beautiful new home for your dog online. We believe there's something magical about dogs and the people who love them. We've building something different past for you. Right now you can only you Pack by invitation only. Maybe you can see if anyone out there has one to give you!





THE R PERSON NAMED IN COLUMN









- 1. Use CSS & web type whenever possible
- 2. Use SVG & icon fonts whenever applicable resolution media query

```
@media only screen and (min-device-pixel-ratio: 1.5) {
.class {
    background: url(img@2x.png);
```

background-size: 50%; }}





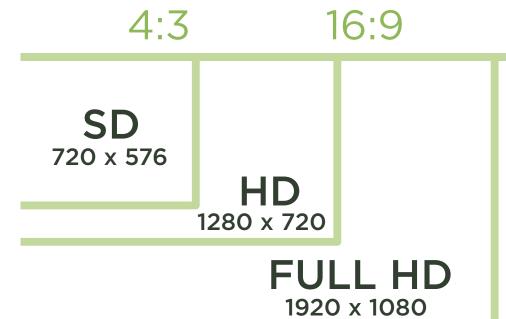
2160 x 3840

3840 x 2160





19:10



**ULTRA HD** 3840 x 2160







METFLIX

50%

North American downstream traffic



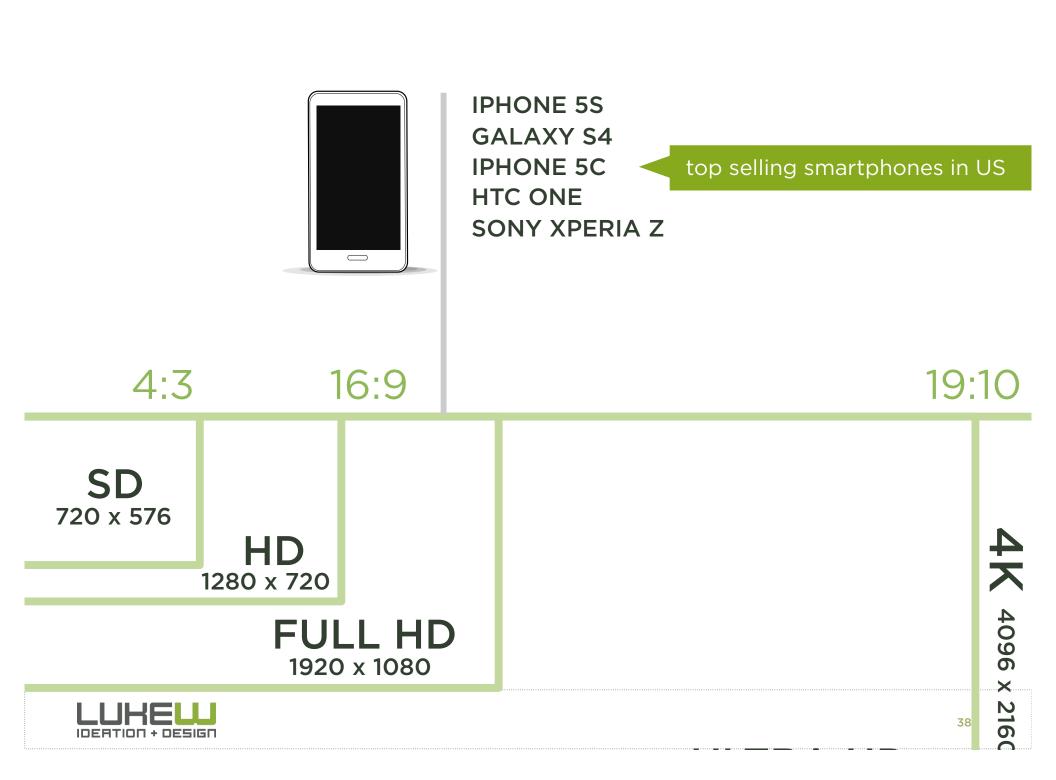


4:3 16:9 19:10



**ULTRA HD** 3840 x 2160









"Simple is hard. Easy in harder. Invisible in hardert."— mee Luis manne. 2008



\$300 off UX Investion. Intercode UNDHORK,





PRESENTATIONS

### New Layouts for the Multi-Device Web

by Latin Wrobinson)

Way 13, 2011

Most Web page layouts rely on design patterns created for laptop and desktop computers equipped with a mouse and keyboard. As the variety of devices being used to access the Web has grown, these patterns haven't been keeping up. Designing for today's Web means considering single-handed thumb use on smartphones, two handed touch interactions on tablets, mouse and keyboard input on traditional PCs, hybrid devices, and more. Web layouts have to evolve to support this new reality.

#### The New Reality

As device diversity increases, so does the number of ways people interact with the Web. To understand the impact of a specific device on interaction design and layout, we can look at three times: output as mostly defined by a screen, the input types available, and common postures or modes of use (strongly influenced by input and output capabilities). For example, consider the modern smartphone.

Todays' smartphones are defined by paim-sized screens (usually 3-5 inches diagonally) of varying pixel density, multi-touch input, and predominately one-thumb use with the device about a half arm's length away. A recent study of 1,333 people using smartphones on the street found that about 75% of smartphone use is one thumb. Web layouts need to take this reality into account.









#### New Layouts for the Multi-Device Web

by Later Repblements

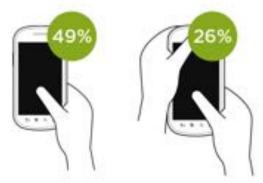
Hay 13, 2013

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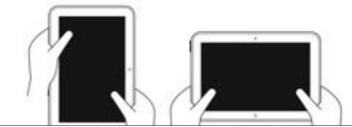
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Tablets also feature multi-touch input but they have larger lag-sized screens (7-10 inches diagonally) that have an impact on how they get used. With a larger screen one-handed use is less comfortable so two-handed use is more common. With two-handed touch interactions, the sides of the screen are the easiest to access with simple finger gestures. As tablets continue to grow, Web layouts also need to take this reality into account.





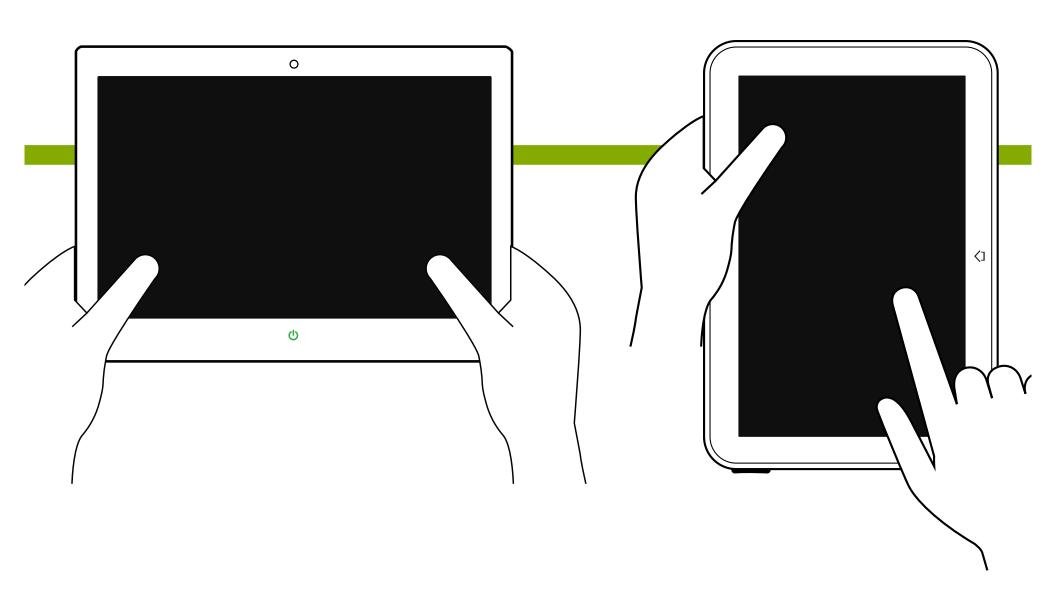


1366 × 768



768 x 1366



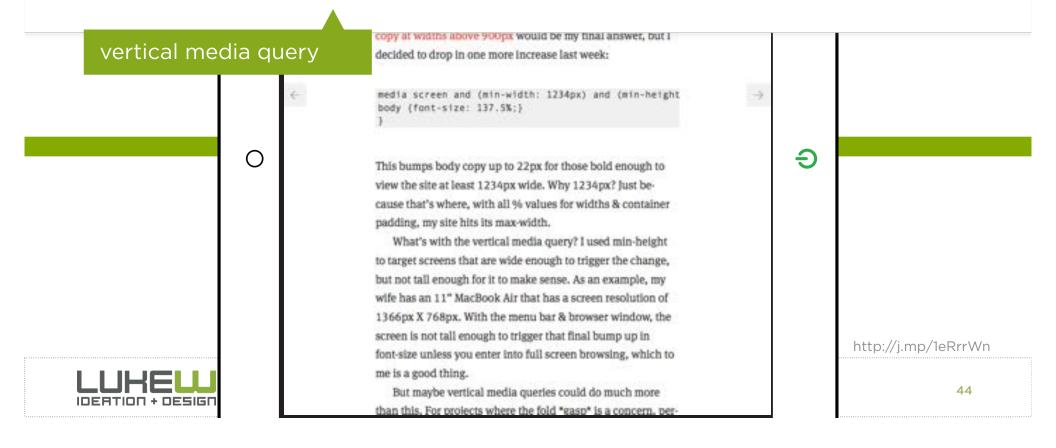




Horizontal (landscape) Vertical (portrait) **35**% 65% 0 **〈**] Ф 43



# @media screen and (min-width: 75em) and (min-height: 30em)



0



Articles

Notes

Info

Search

"[increase font size] on screens that are wide enough but not tall enough for it to make sense."

I've been tinkering with the font-size and the media queries that trigger width-based changes for this site regularly over the past month. I thought that maxing out at 20px for body copy at widths above 900px would be my final answer, but I decided to drop in one more increase last week:





## THE STATAMICIST

your unofficial guide to the world of Statumic

ARTICLES

TIPS

**ENTERVIEWS** 

ADD-ONS

BRIOWCASES

ABOUT

#### v1.5 Sneak Peek 5: Other Features

AN ARTICLE . JAN 26, 2013 . By FRED LEBLANC

In this fifth and final installment for upcoming updates, we take a look at a couple of other features that found their way into the new version.

READ -+

#### v1.5 Sneak Peek 4: New & Improved Fieldtypes

AN ANTICLE : JAN 24, 2013 . Ay FRED LEBLANC

In this fourth of our five installments, we look at the new and improved fieldtypes coming in the update, including: color, location, suggest, file, and grid.

BEAD -

### v1.5 Sneak Peek 3: Add-On Architecture

AN ARTICLE . JAN 23, 2013 . By FRED LEBLANC

#### ON THE STATAMICIST

The Statumeirus is a look into the world of Statumic — both in code & through its community.

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GRAE A FEED -

#### LET'S BE PRIENDS

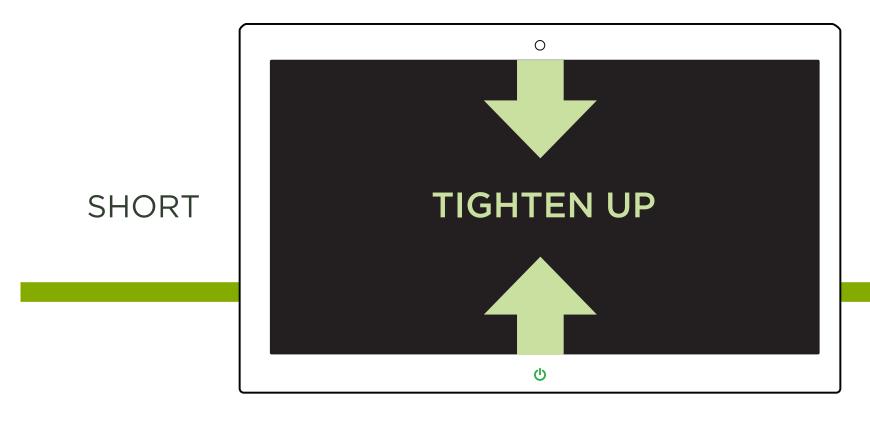


#### GET STATAMIC

Visit the official site to buy a license, mad documentation, and more.

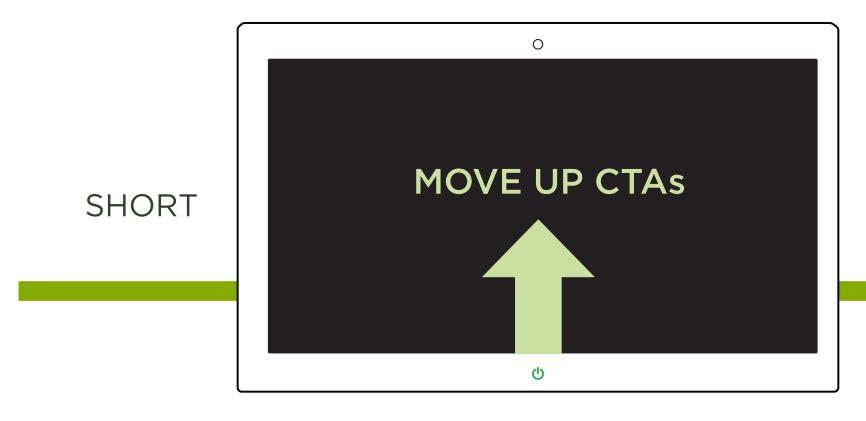
VISIT STATAMEC --

## WIDE





## WIDE

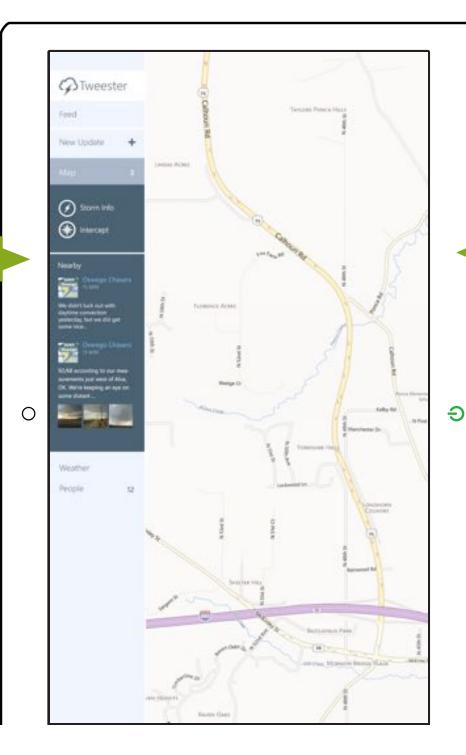








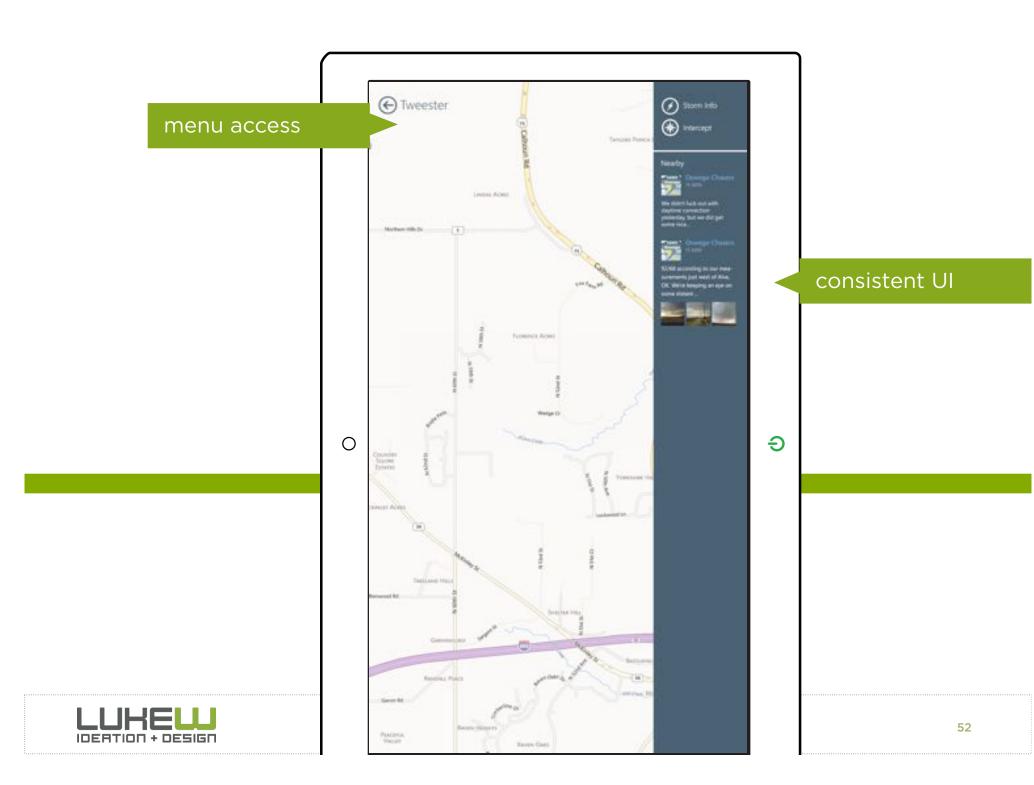




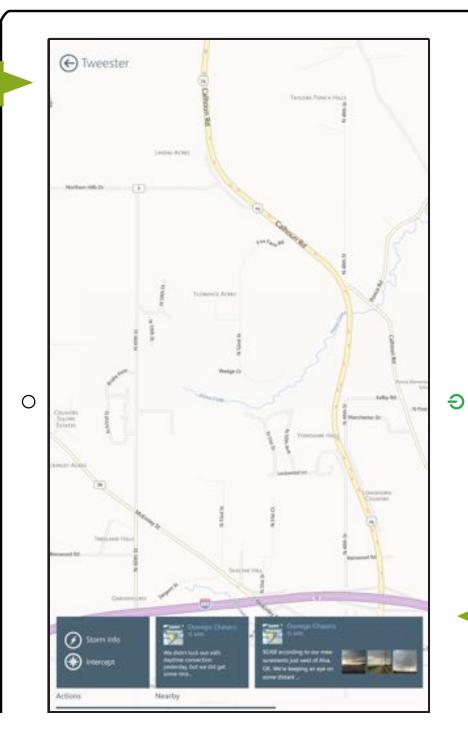
maximize content



rearrange menus



#### menu access

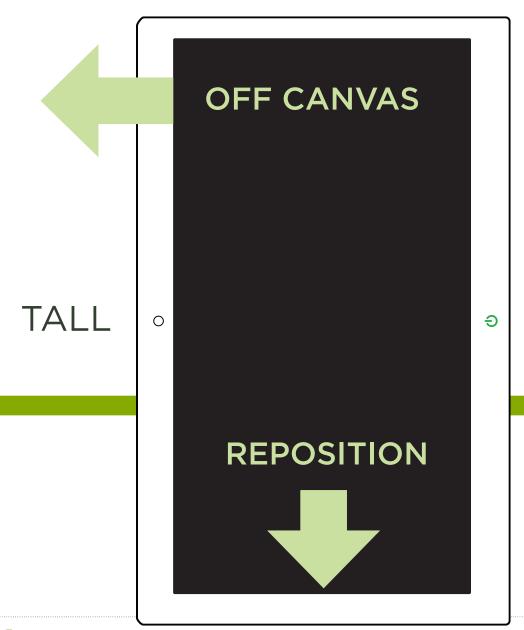




53



## **NARROW**





# OUTPUT

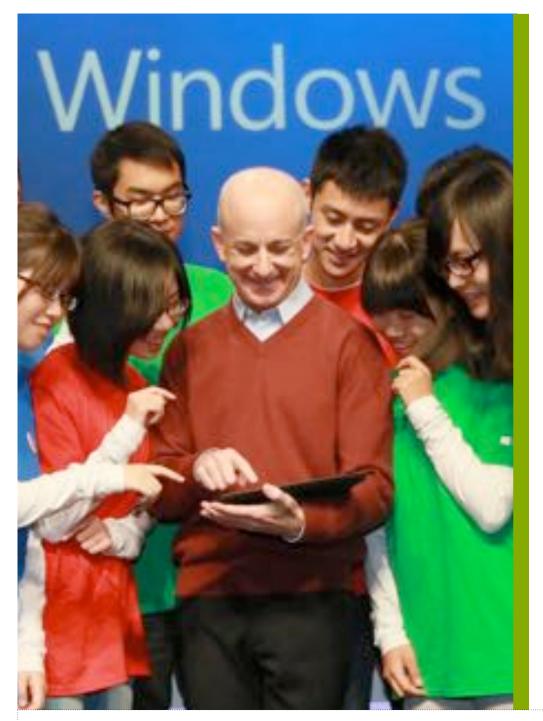
- 1. Trend toward high resolution
- 2. Trend toward widescreen aspect ratios
- 3. Media queries know about more than width





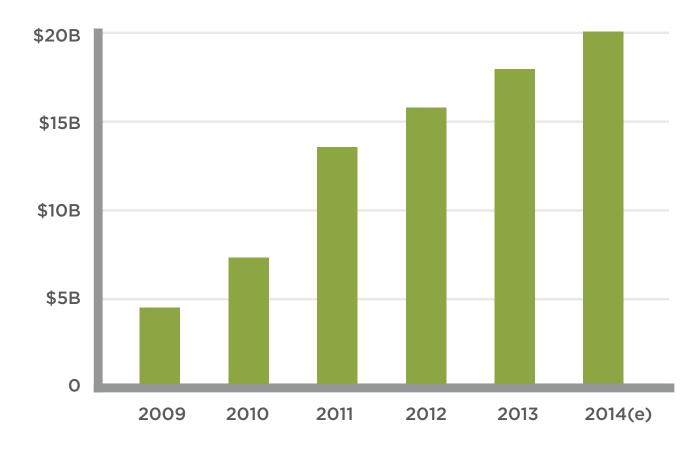
- 1. Know Your Screen
- 2. Output
- 3.Input
- 4. Posture





"Any piece of glass you can't touch and interact with will feel broken."

### **TOUCH SCREEN REVENUE**













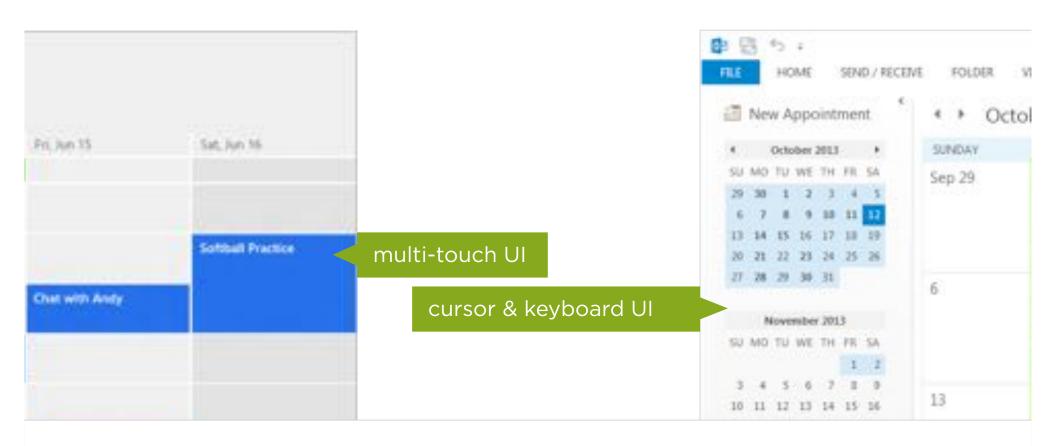


multi-touch

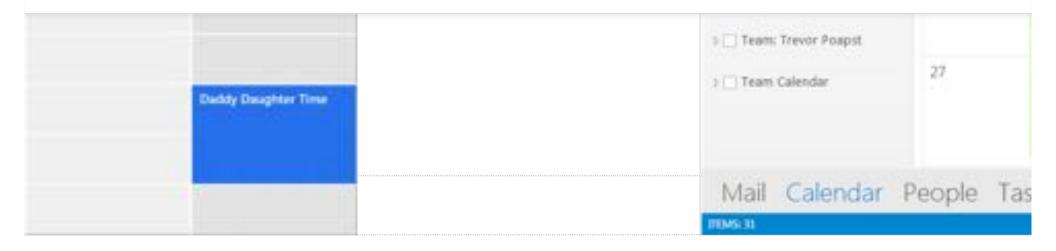
keyboard

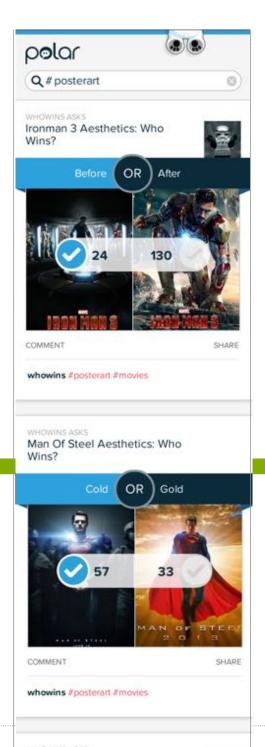
cursor (trackball)

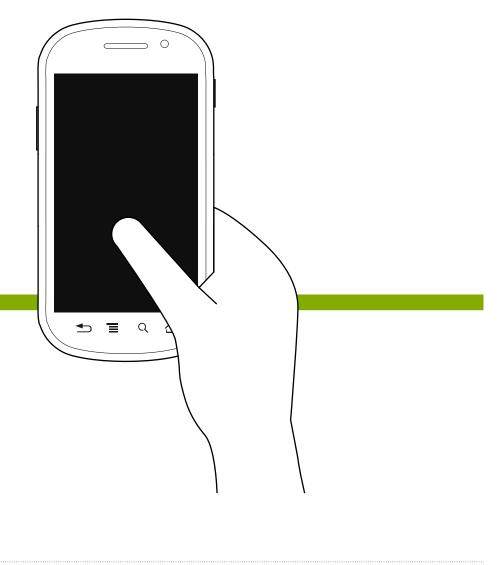




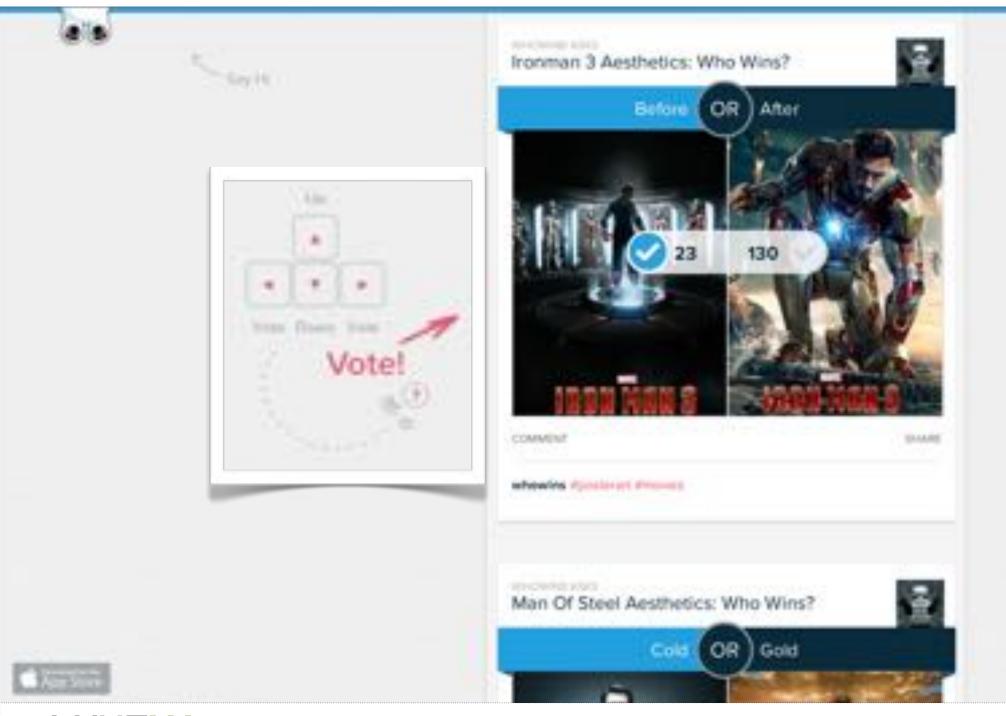
"Can't we just detect input type & change the interface?"













#### do you have touch capabilities?

# "Don't attempt to switch between touch and mouse - just support both."

- MacBook Pro
- iPhone 5
- Xcode iPhone5 simulator
- Win8 Touchscreen PC with keyboard (IE10 browser)
- Win7 PC with keyboard (IE9 browser)
- Win7 PC with keyboard (Chrome browser)
- Win7 PC with keyboard (Firefox browser)
- Kindle Fire (old, Android 2.x, modded)
- Microsoft Surface/Explorer 10 (with keyboard attached)

- Win8 Touchscreen PC with keyboard (latest Chrome browser)
- Win8 Touchscreen PC with keyboard (latest Firefox browser, 18)
- Droid4 with qwerty physical keyboard out (default browser)
- Asus Transformer with dockable keyboard (default browser)
- Microsoft Surface/Explorer 10 (with NO keyboard attached)
- Samsung Series 7 Tab/Explorer 10 (with NO keyboard attached)



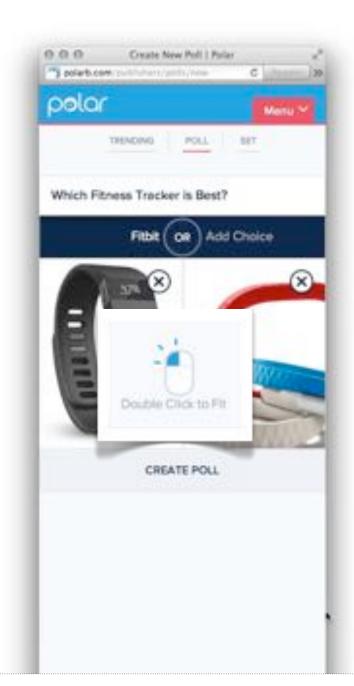
- There's not a great way to do this in browsers today
- We need a general solution (e.g. navigator.hardware object)



"downplay the keyboard shortcuts when screen size is smaller & touch is present."



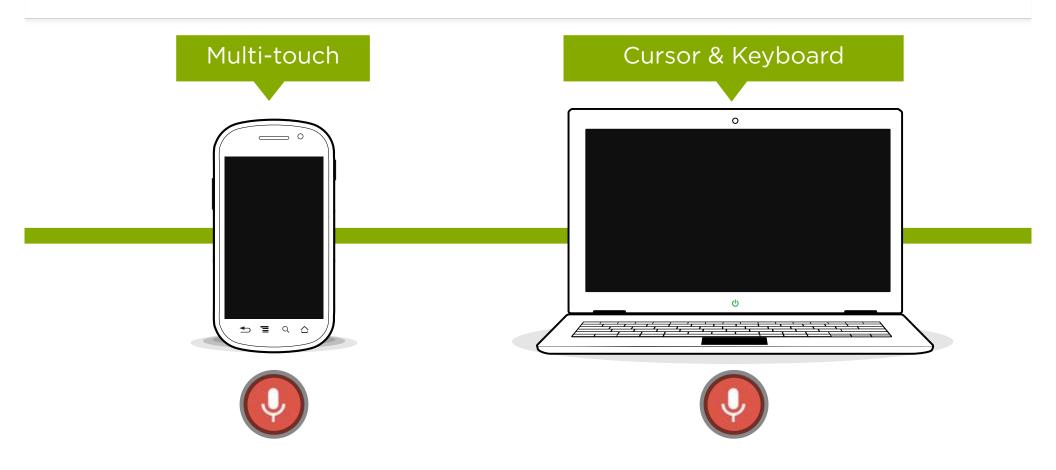








## Screen size is a poor proxy for input.





## MEDIA QUERIES LEVEL 4



## INPUT

- 1. Support all the inputs
- 2. Communicate what's possible
- 3. Screen size is a poor proxy but it's all we got for now...

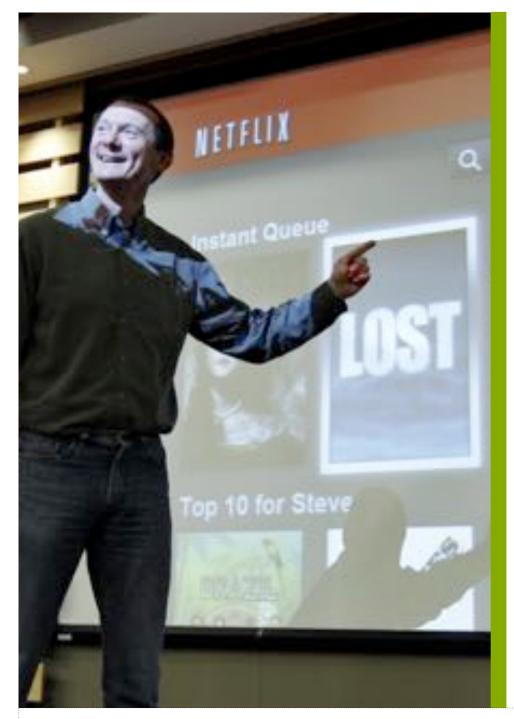




- 1. Know Your Screen
- 2. Output
- 3. Input
- 4. Posture

how people interact with output & input





"One of Netflix's mathematicians is known as 10-Foot User Interface Guy."

Viewing Distance

"There's also Two-Foot Guy, who deals with laptops, and 18-Inch Guy for tablets."



#### Lots of Screens

44% LAPTOP/PC

23% SMARTPHONE

17% SMART TV

16% PC TO TV

15% TABLET

15% BLU-RAY PLAYER

13% WII

12% PS3

10% XBOX 360

500 MORE SKUS





## POSTURE

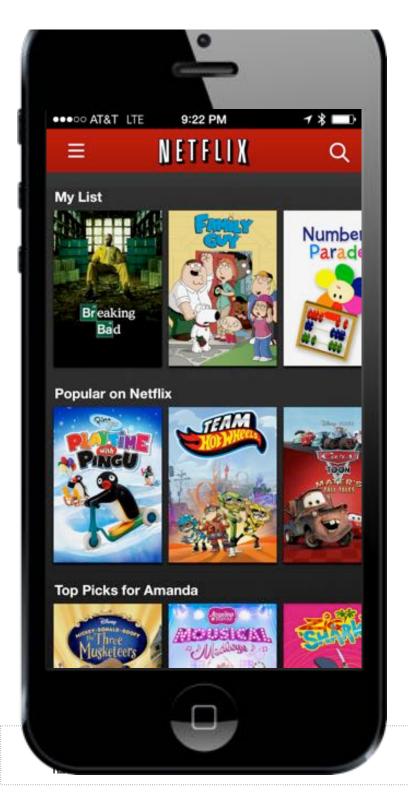
83% 10 FT.

**44%** 2 FT.

23% 1 FT.

15% 1.5 FT.

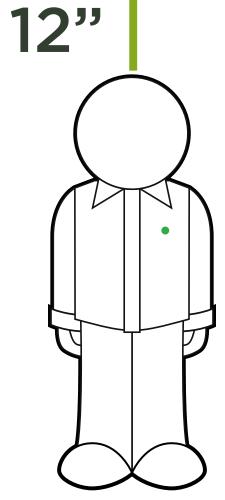






1"



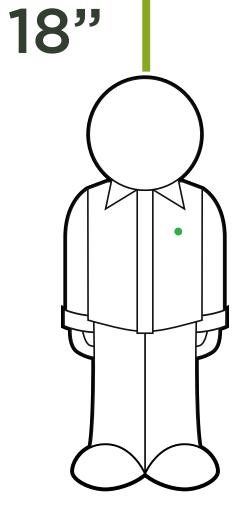






1.75"





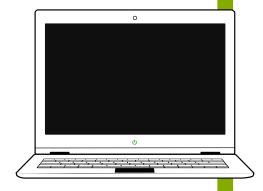




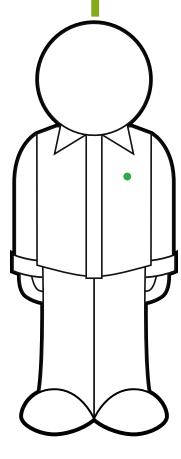


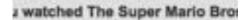


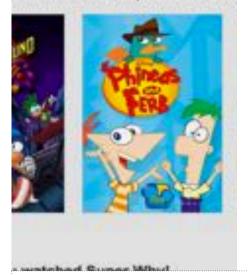
2.25"



24"

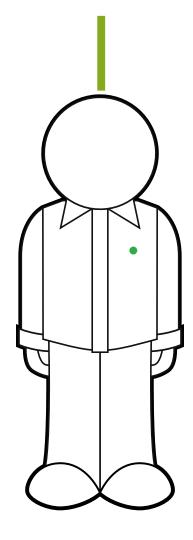




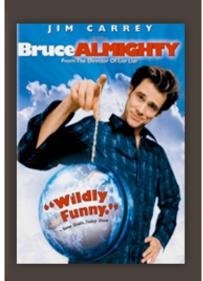




# 10'

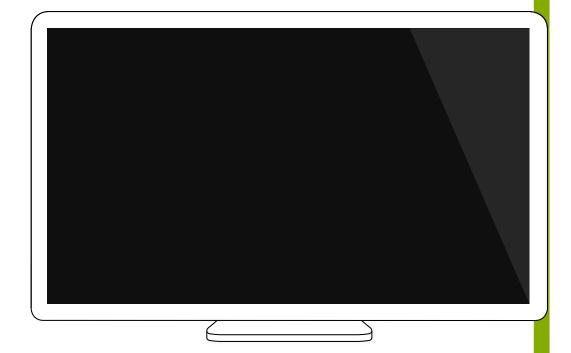




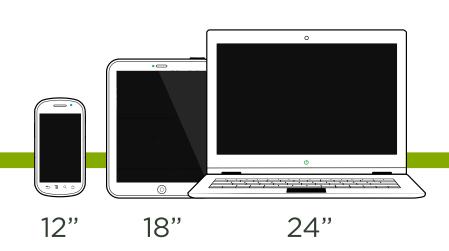


5.25"





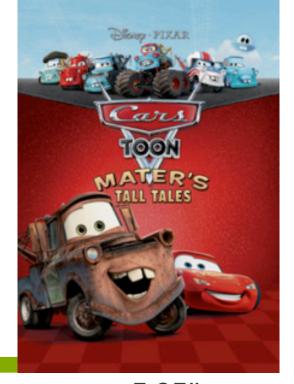






10'

1/2 inch per foot









1.75"

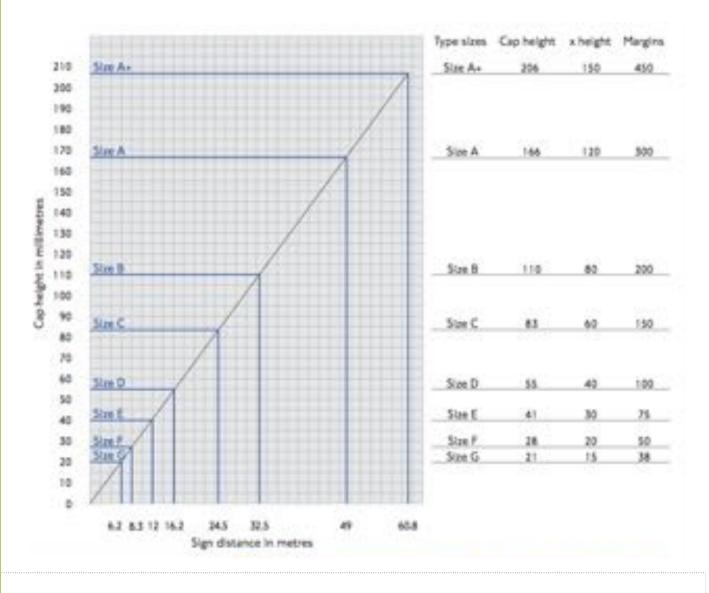
2.25"

5.25"

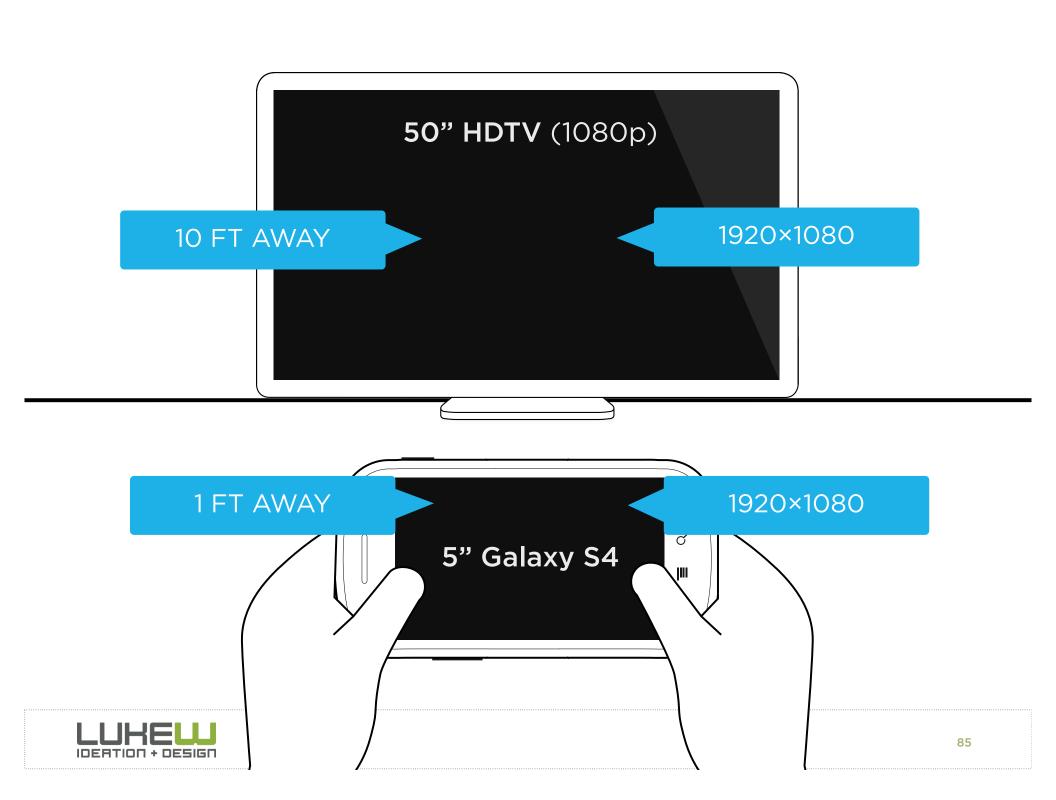


#### SIGNS MANUAL (VIEWING DISTANCE)



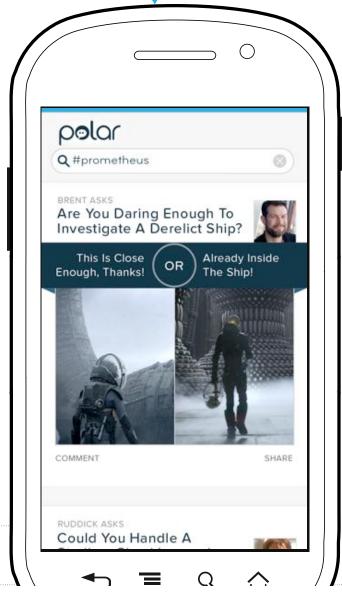


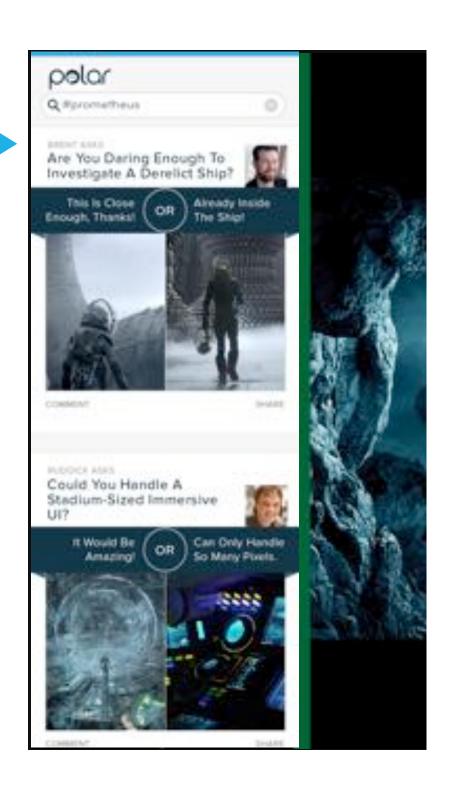




#### 320PX WIDTH

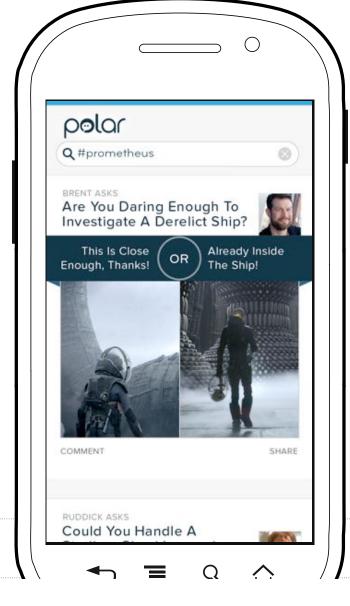
#### 320PX WIDTH

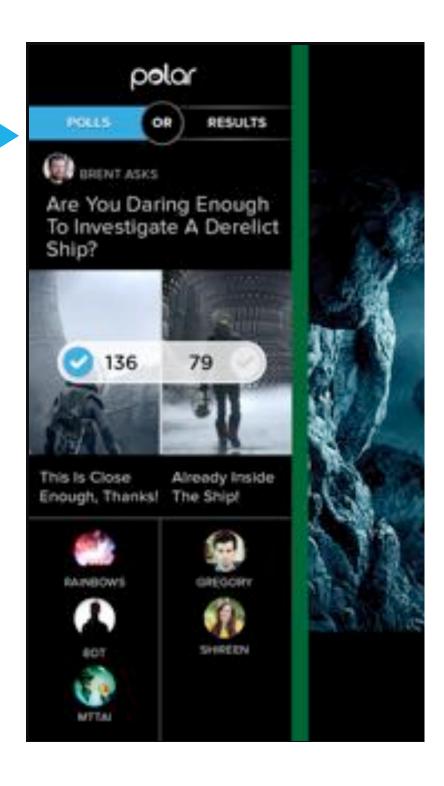




#### 1 FT AWAY

#### 10 FT AWAY





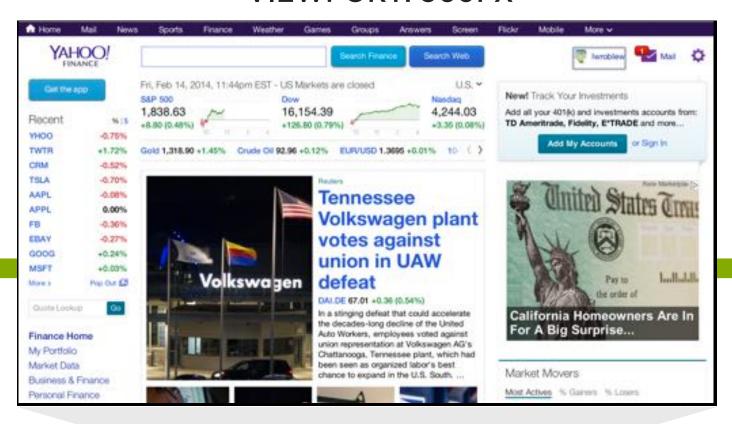
# GL/1SS







#### **VIEWPORT: 960PX**







# DEVICE-WIDTH: 640px

	YAHOO! FINANCE		Q
S&P 500	1,838.63	+8.80	+0.48%
Dow	16,154.39	+126.80	+0.79%
Nasdaq	4,244.03	+3.35	+0.08%





# DEVICE-WIDTH: 640px

AAPL	503.73	-16.57 (3.18%)
AMZN	274.03	+6.09 (2.27%)
GOOG	727.58	-12.41 (1.68%)
		just now



## **DEVICE-WIDTH: 640px**









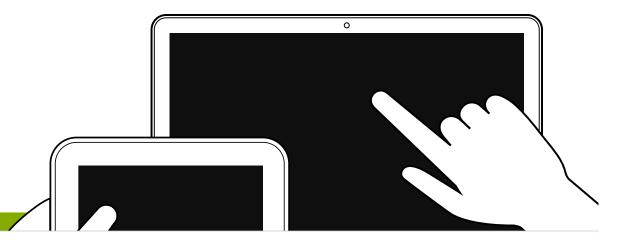
# "More ergonomically accessible."



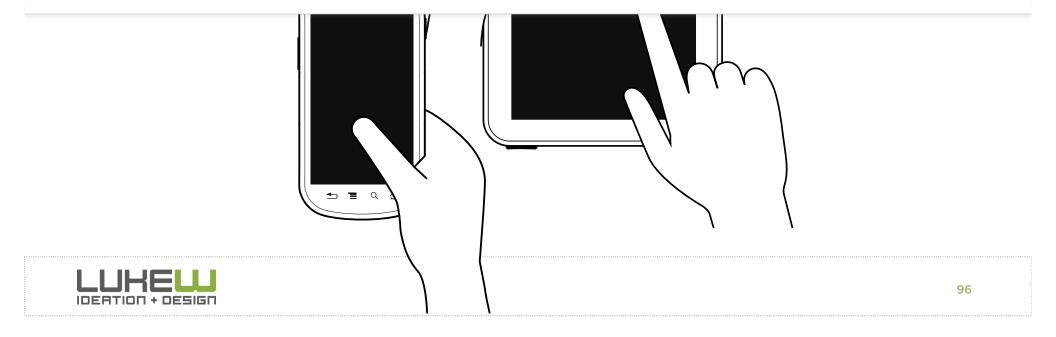
distinct command sets on the left

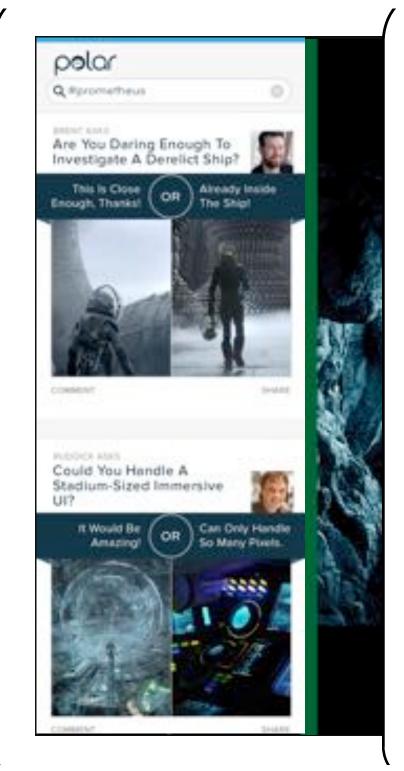
persistent commands on the right

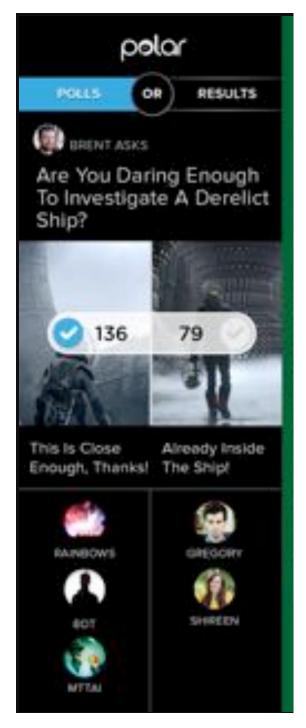




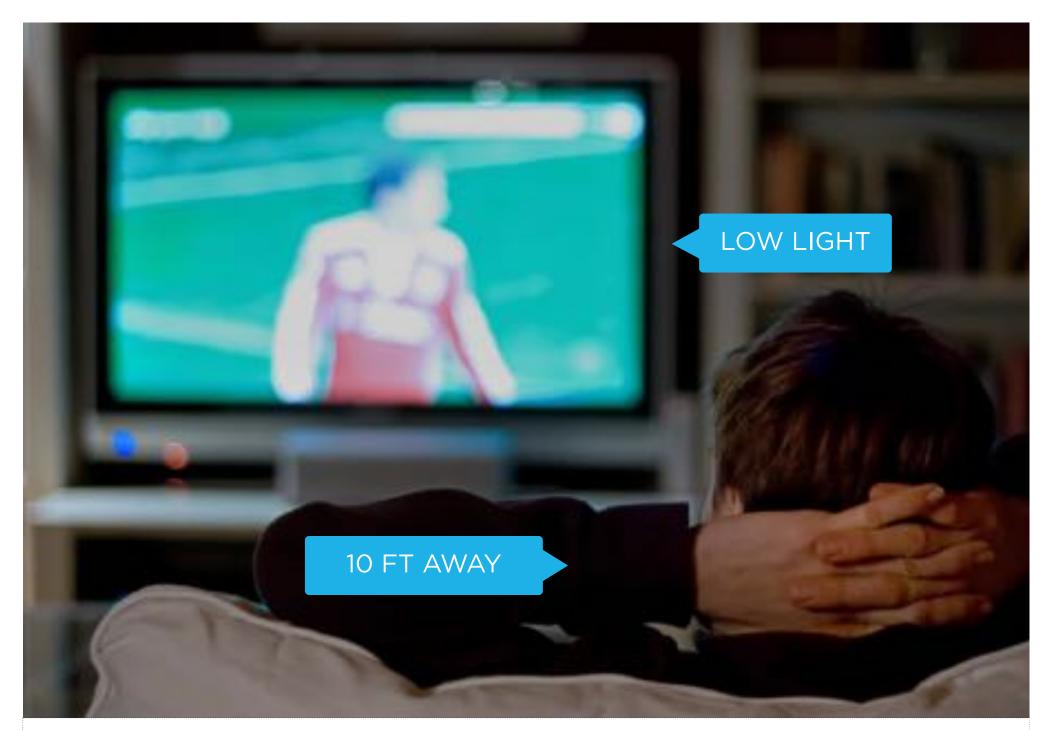
Screen size is a poor proxy for posture.



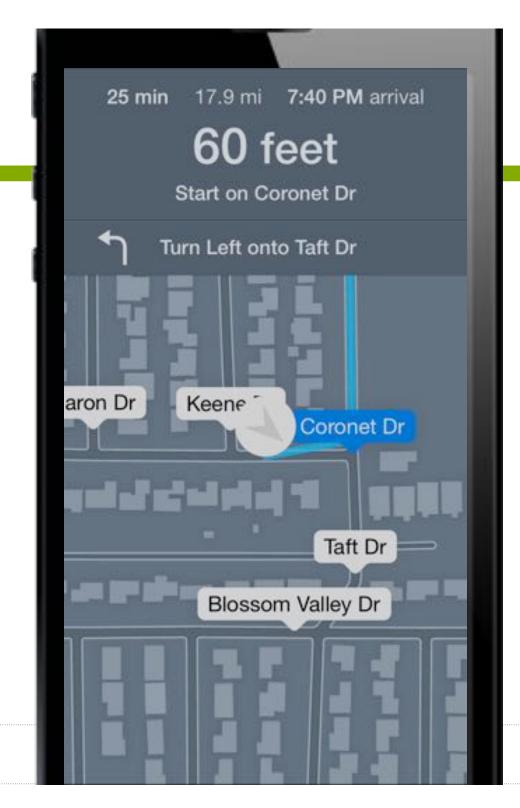




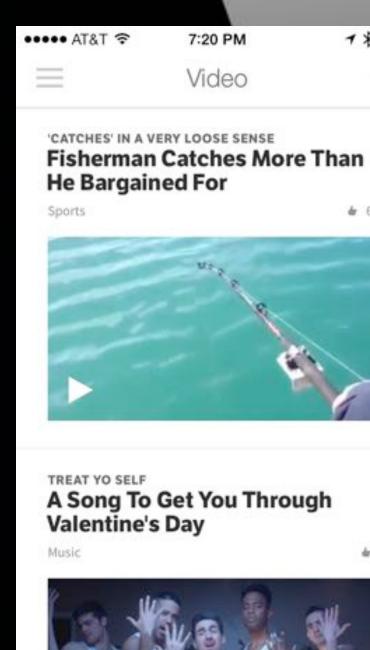


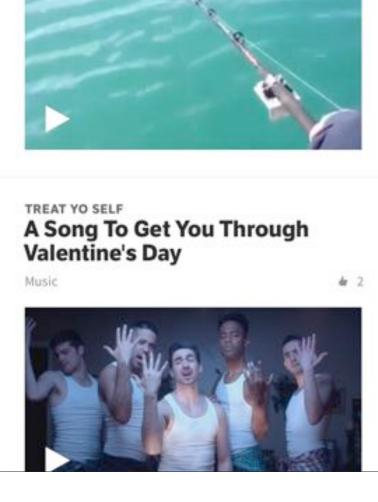












7:20 PM

Video

1 × ...

dr 617

#### MEDIA QUERIES LEVEL 4



```
@media (light-level: washed) {
   body {
    background: #ffffff;
  }}
```

# POSTURE

- 1. Design to human scale
- 2. And environments
- 3. Not just to screen width



#### IN A WORLD OF GLASS...

## 1. Know Your Screen

ONLINE TIME IS SCREEN TIME AND INCREASINGLY MOBILE

# 2. Output

HIGH RESOLUTION & WIDESCREEN VERTICAL MEDIA QUERIES

# 3. Input

SUPPORT ALL INPUTS
COMMUNICATE WHAT'S POSSIBLE

#### 4. Posture

VIEWING DISTANCE ENVIRONMENT & MORE



media queries don't help much here... yet.







sapphire?

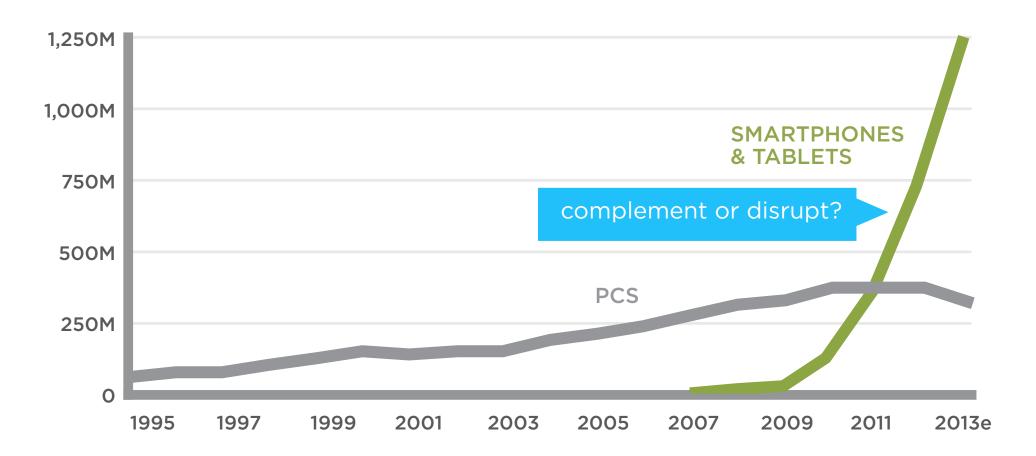
"What material comes after glass? What's the disruption?"

wearables?

voice interfaces?



## Global Sales



"Flexible glass that is thinner than a dollar bill."



