

ORGANIZING MOBILE WEB EXPERIENCES

EXTENSION LEARN

@lukew

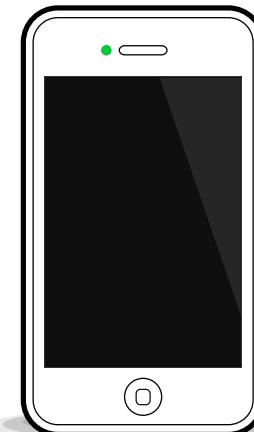
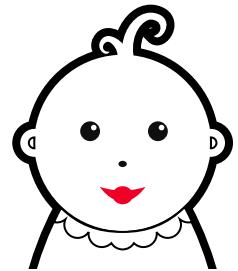
LUKE WROBLEWSKI



LUKEW
IDEATION + DESIGN

371K

Babies born per day

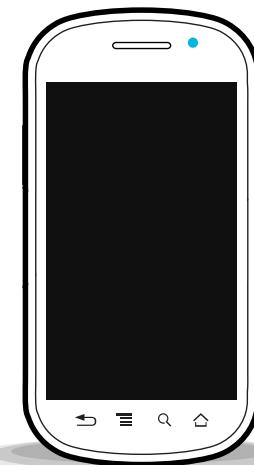


378K

iPhones sold per day

562K

iOS devices



1M

Android devices
activated per day

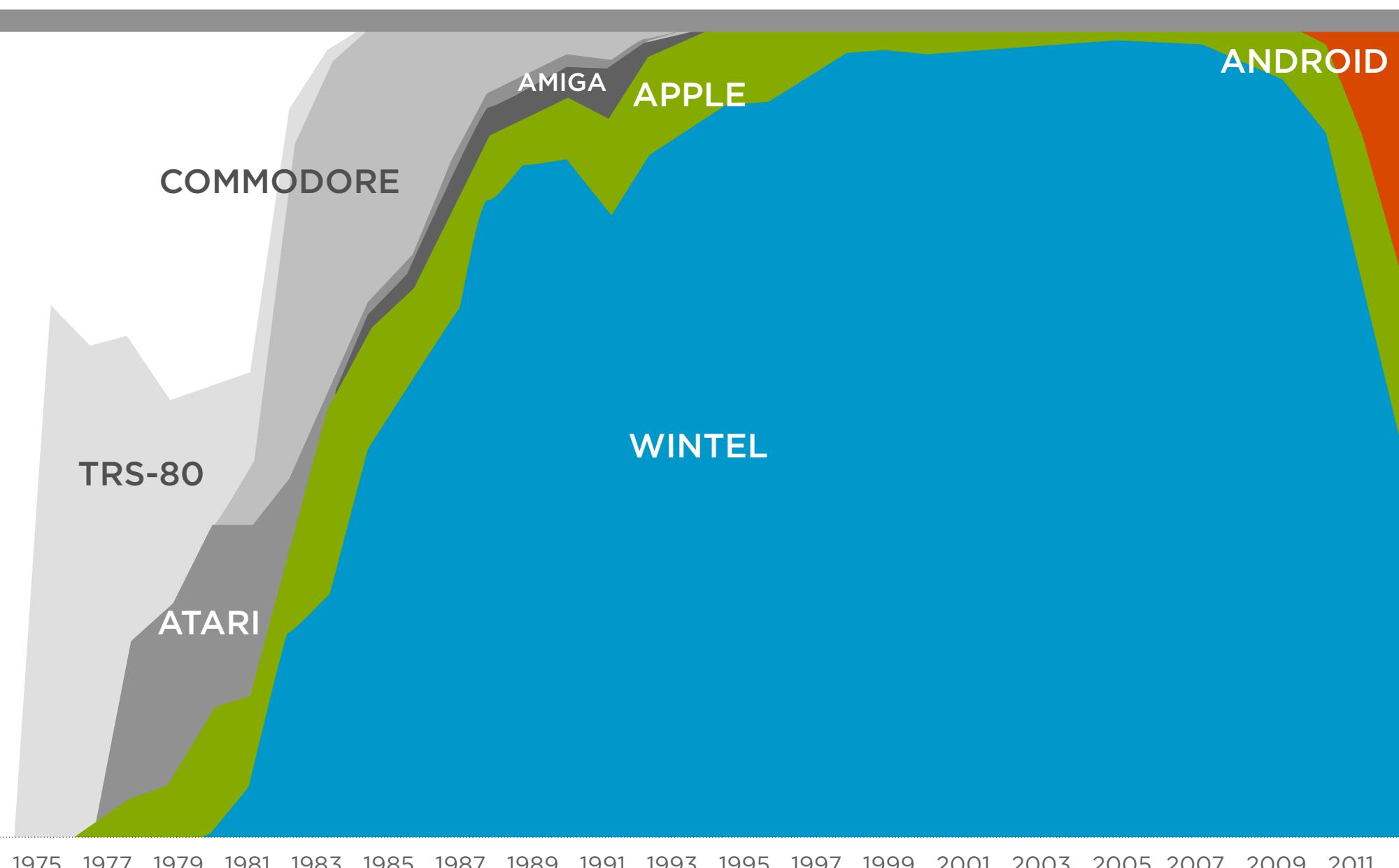
200K

Nokia smartphones

143k

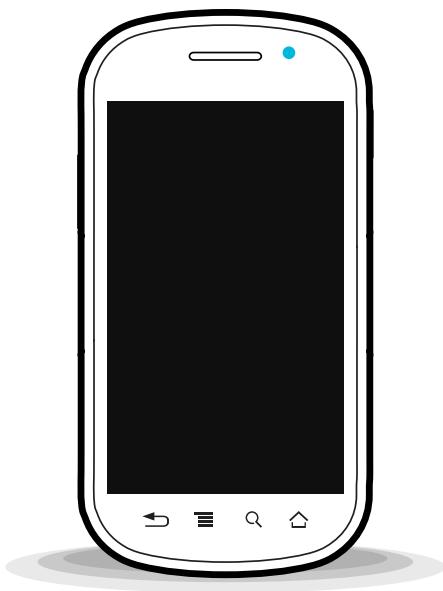
Blackberry devices

Share of Personal Computing



Source: <http://bit.ly/xDzag2>

MOBILE



6B

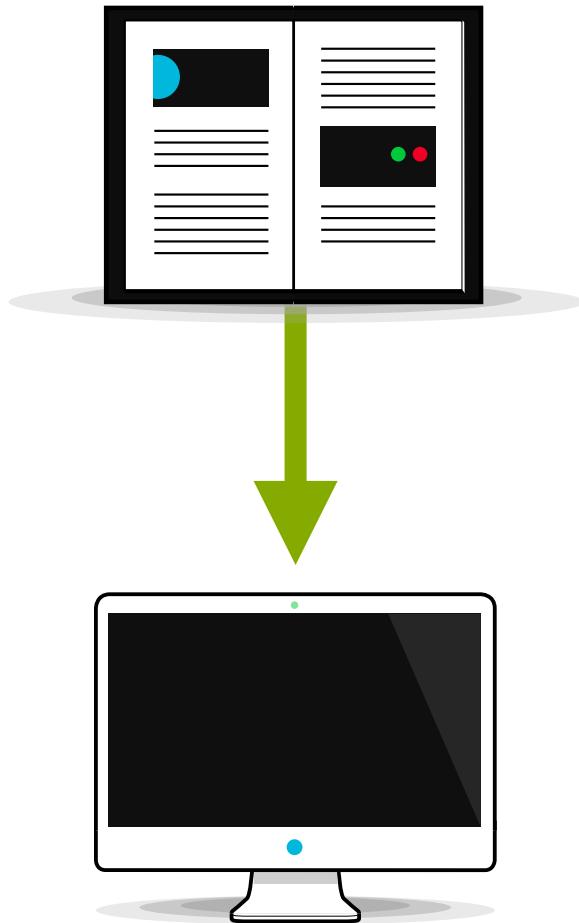
connections
today

10B

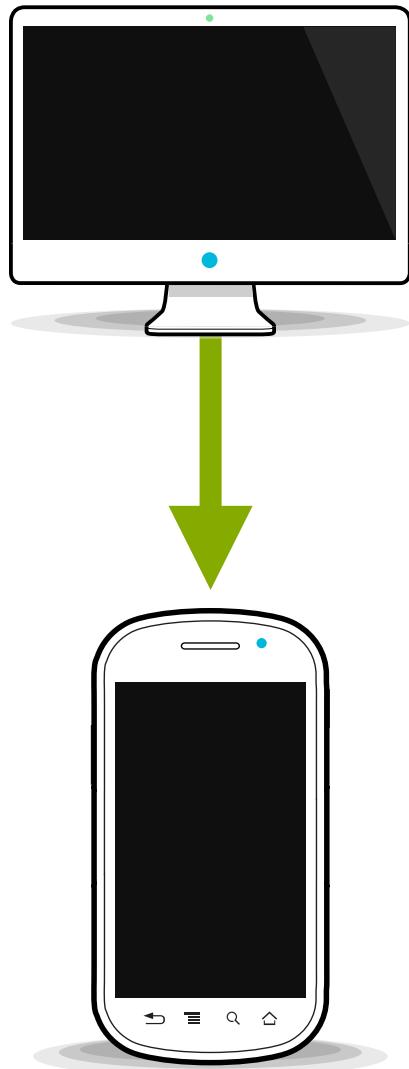
connections
in 2016

26X

worldwide
traffic growth



THE WEB
IS NOT
PRINT.



MOBILE
IS NOT A
DESKTOP
PC.



Big Screen



Power Supply



Consistent Network



Keyboard



Mouse



Chair



Desk



Small Screen



Battery



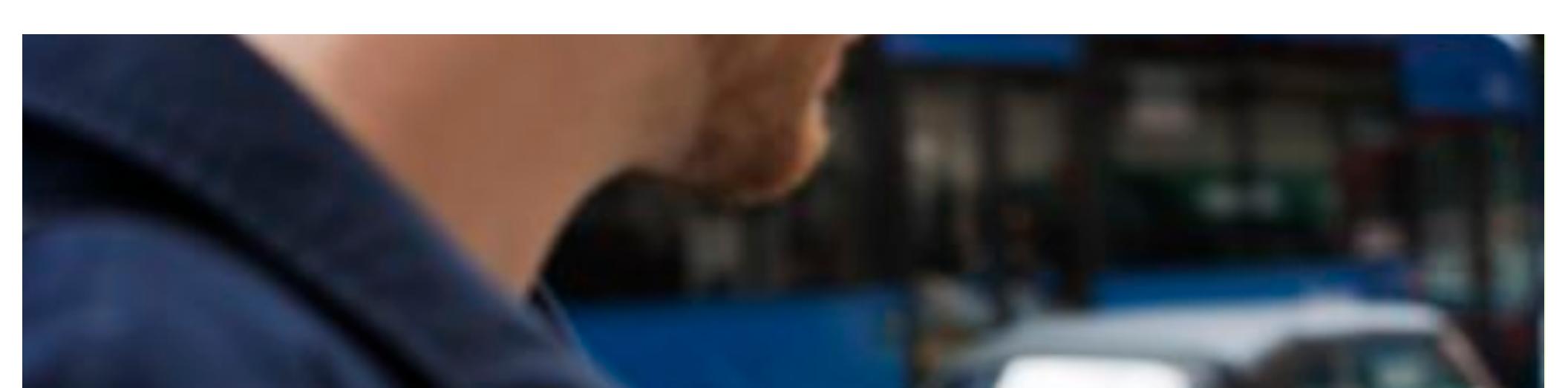
Inconsistent Network



Fingers



Sensors



EVERYWHERE & ANYWHERE

84% at home

80% during misc. times

74% waiting in lines

64% at work

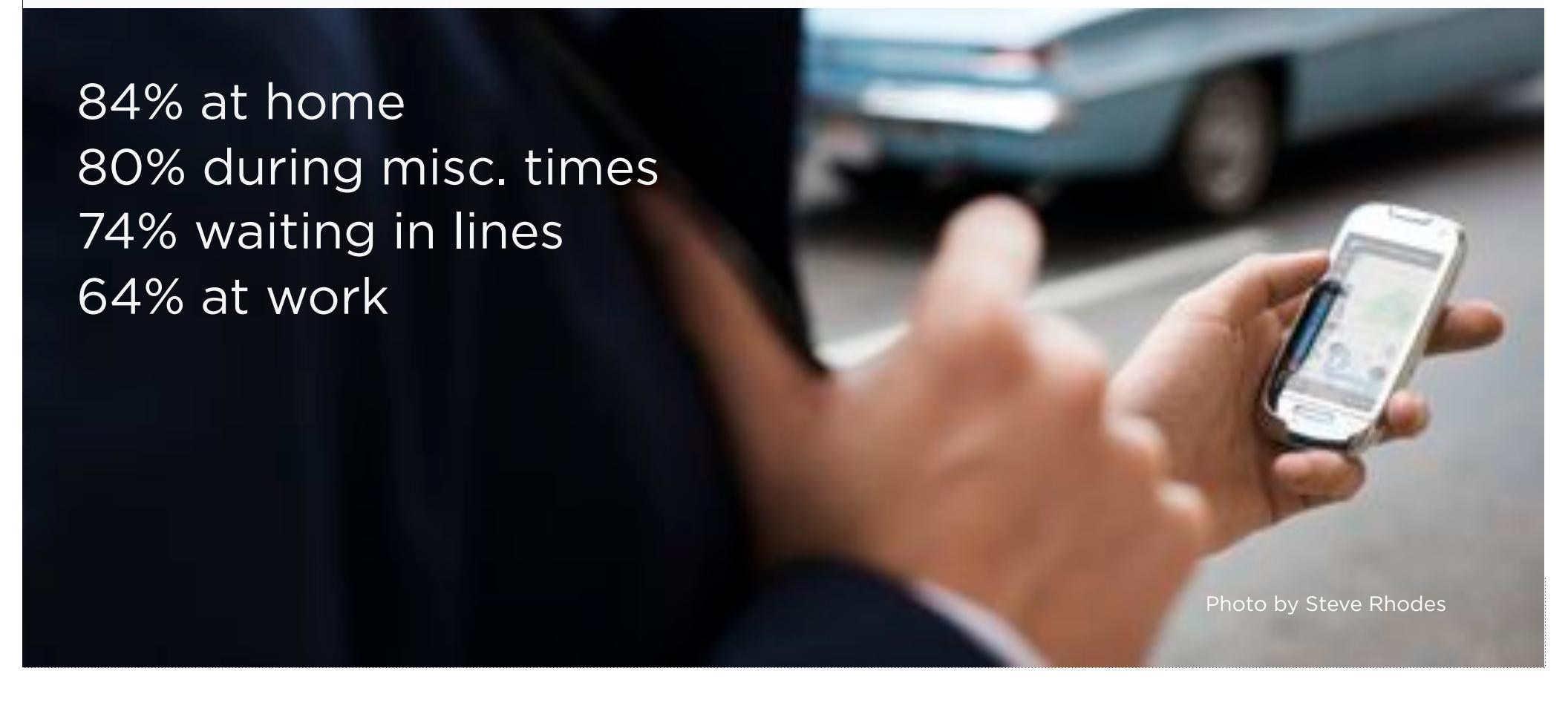
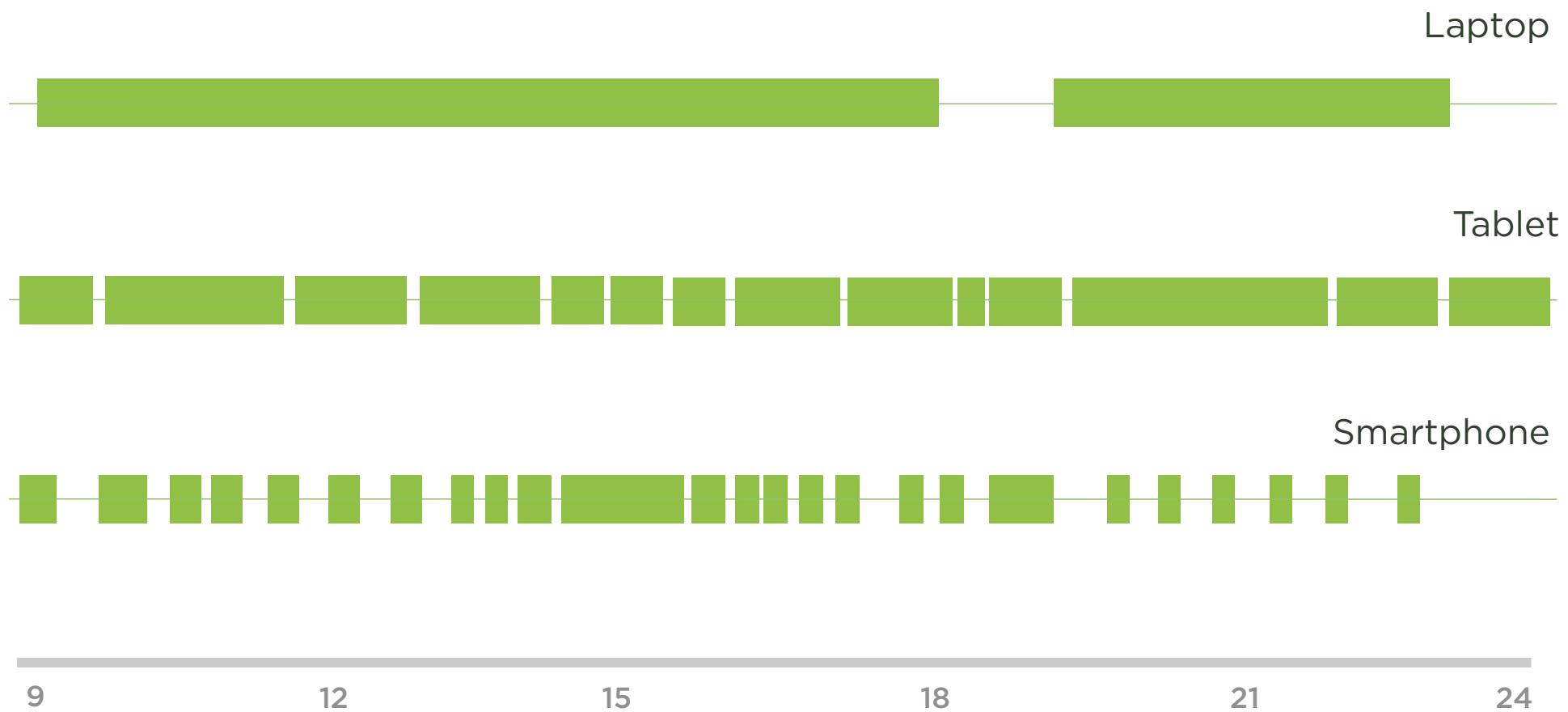
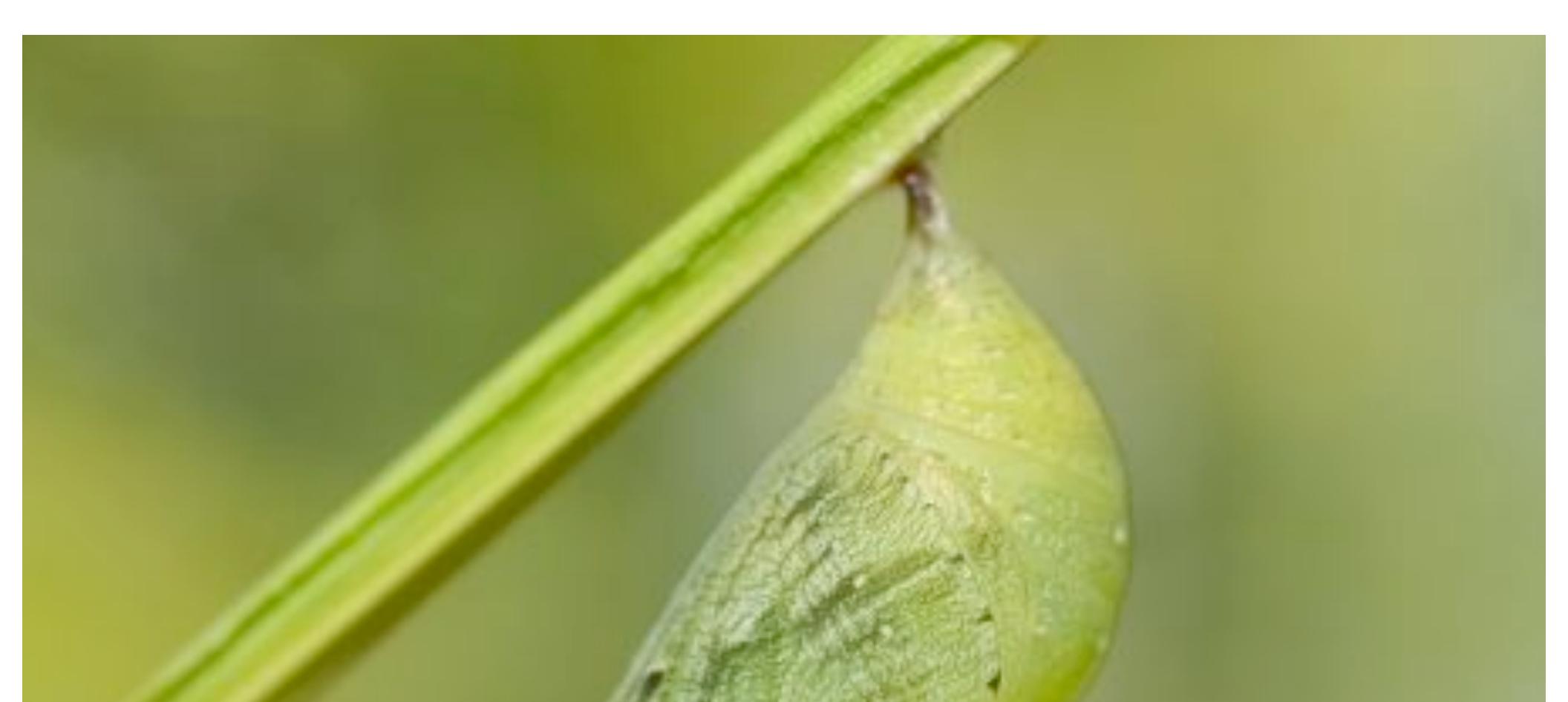


Photo by Steve Rhodes

When are we mobile?

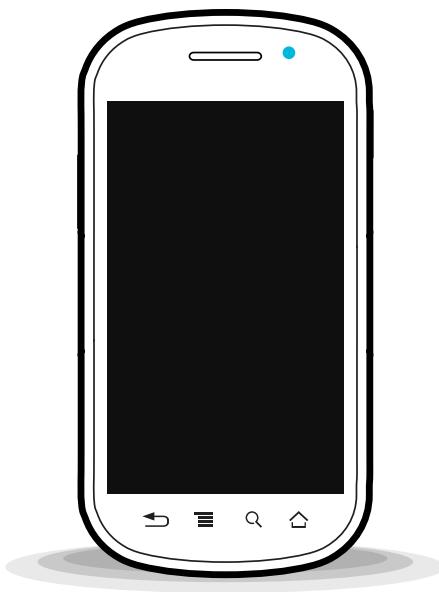
Mobile 3G Traffic Patterns





“...copy, extend, and finally, discovery of a new form. It takes a while to shed old paradigms.” -Scott Jenson

MOBILE

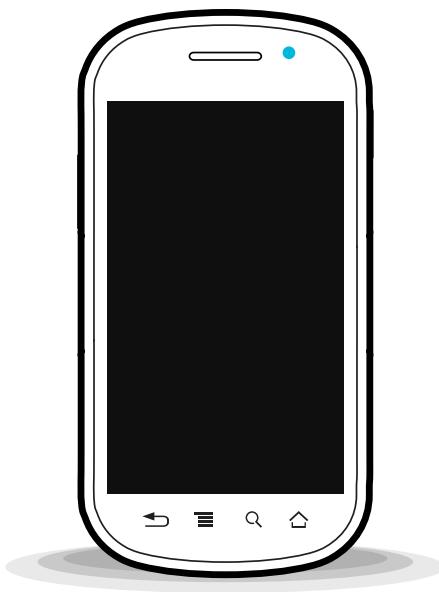


PayPal™

MOBILE PAYMENTS

\$141M	2009
\$750M	2010
\$4B	2011

MOBILE



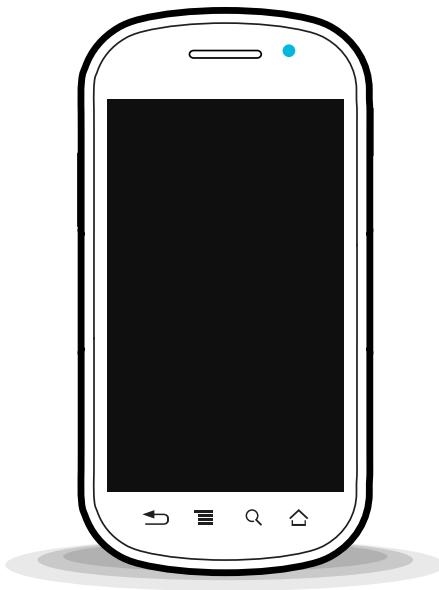
MOBILE PURCHASES

\$600M 2009

\$2B 2010

\$5B 2011

MOBILE



2X

more likely to
buy on mobile

2.5X

more likely to
subscribe

3X

engagement
on mobile

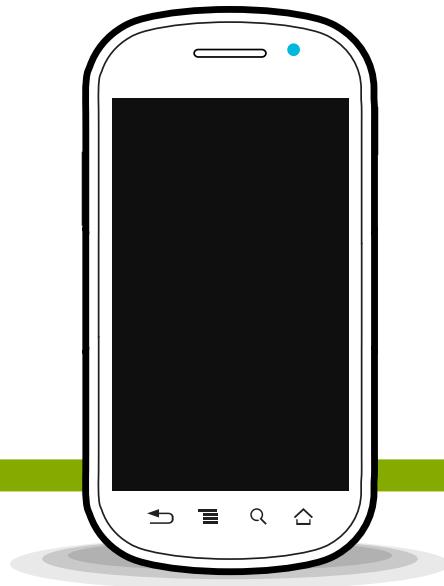
MOBILE

“We’re doing a complete relaunch [...] inspired by our mobile experience” -CEO Garrett Camp

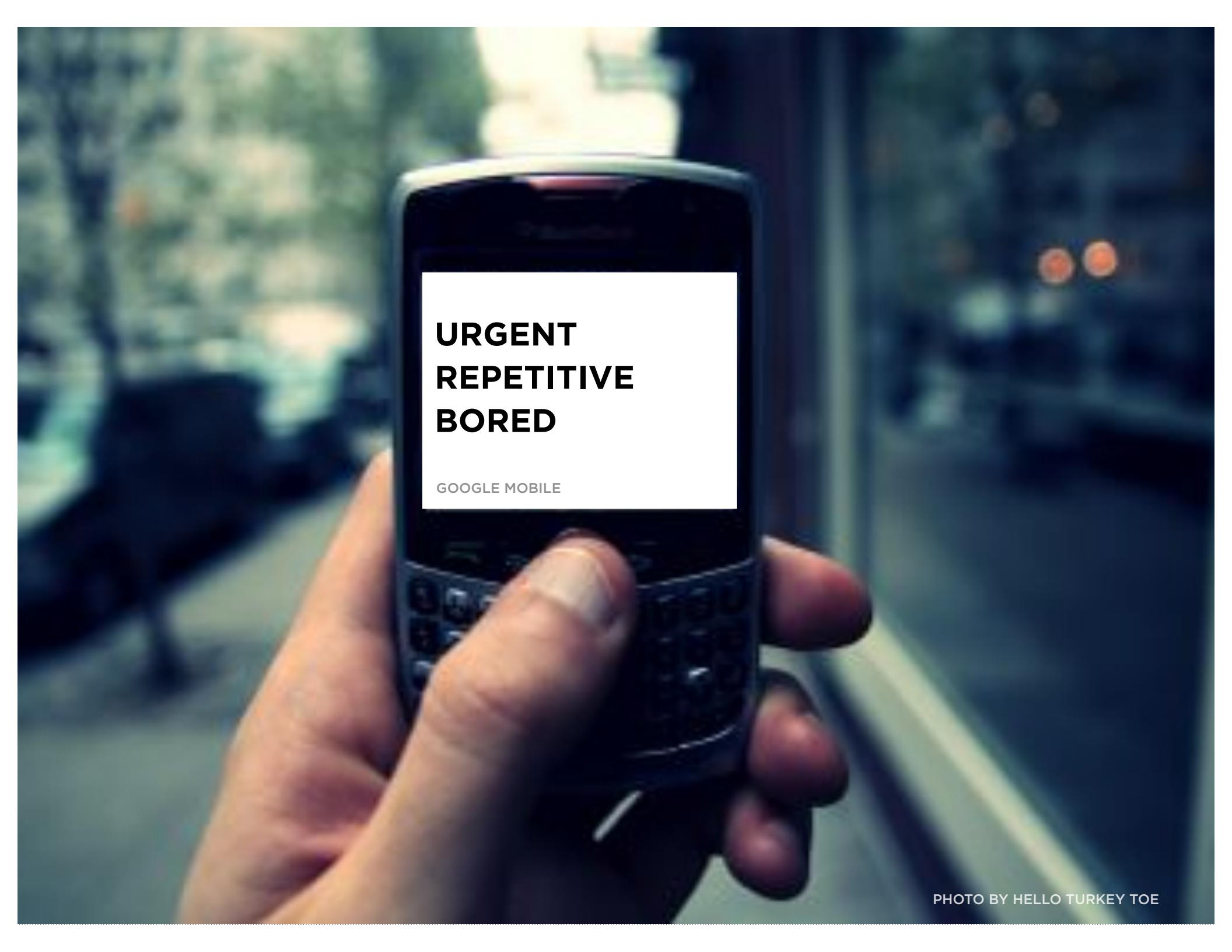


800% mobile growth

ORGANIZATION



- 1. Mobile Behaviors
- 2. Content First
- 3. Navigation Elements
- 4. Clarity & Focus



A close-up photograph of a person's hand holding a dark-colored smartphone. The phone's screen displays a white rectangular box containing the text "URGENT REPETITIVE BORED". Below this box, the words "GOOGLE MOBILE" are visible. The background is blurred, showing what appears to be a window with a view of greenery outside.

**URGENT
REPETITIVE
BORED**

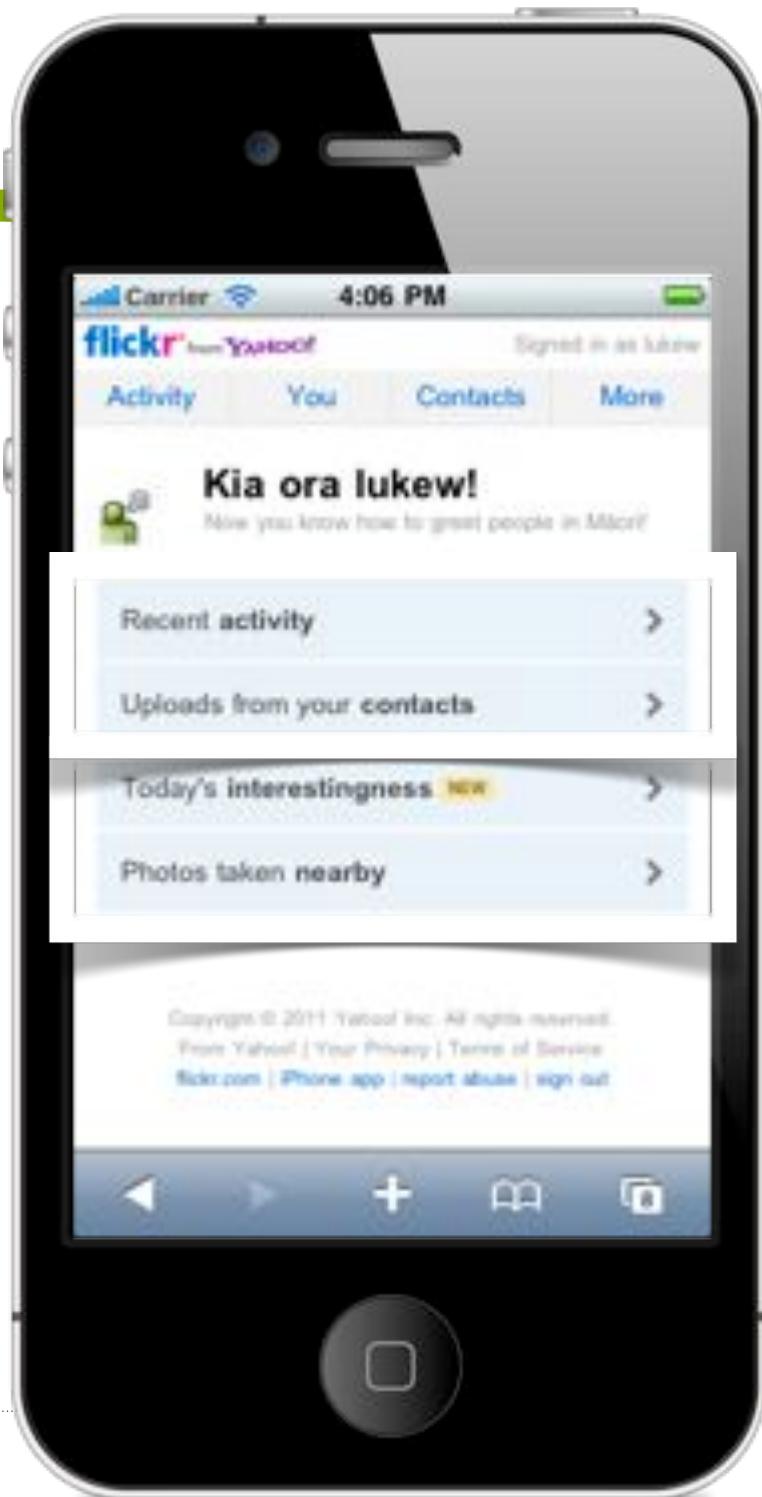
GOOGLE MOBILE

PHOTO BY HELLO TURKEY TOE

Lookup/Find
Explore/Play
Check In/Status
Edit/Create



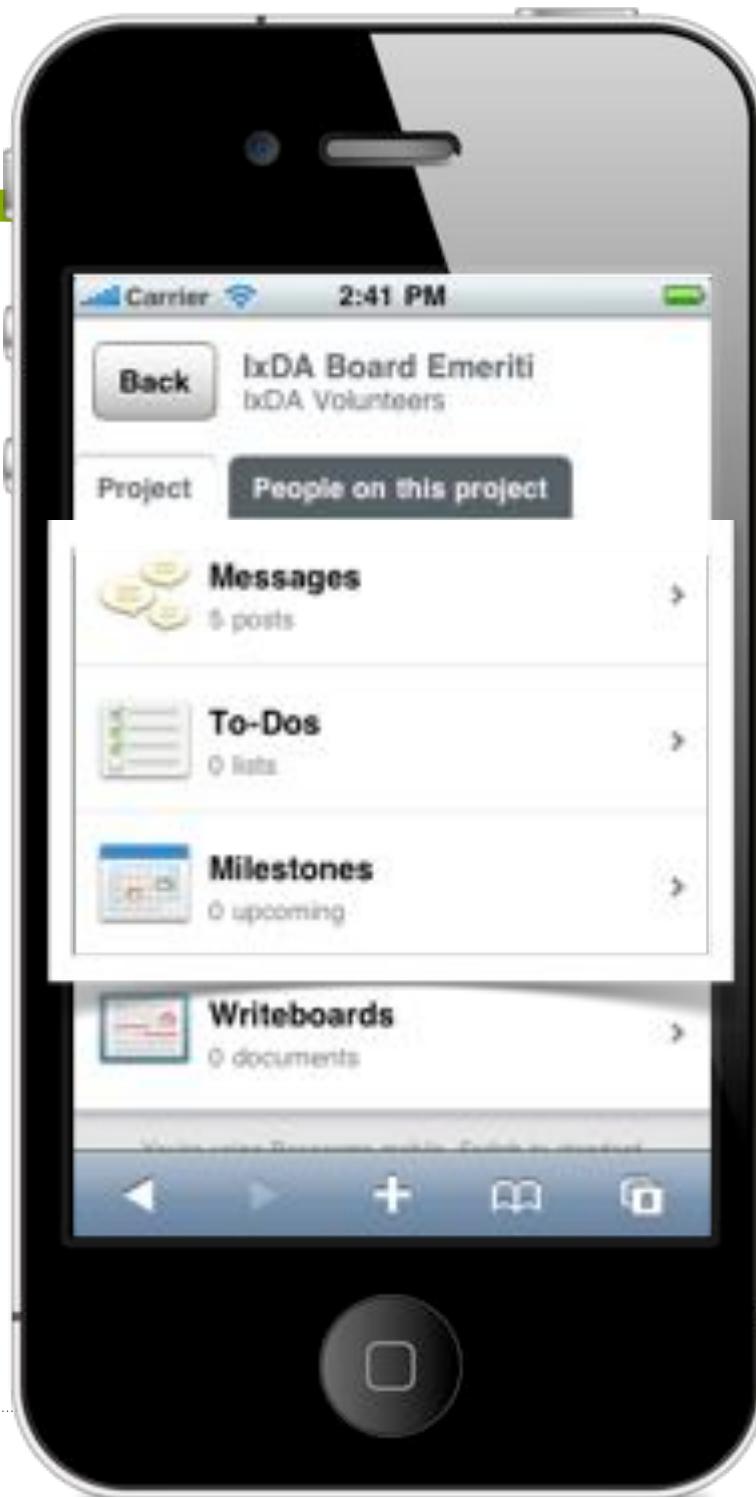
Check In/Status



Explore/Play

Check In/Status

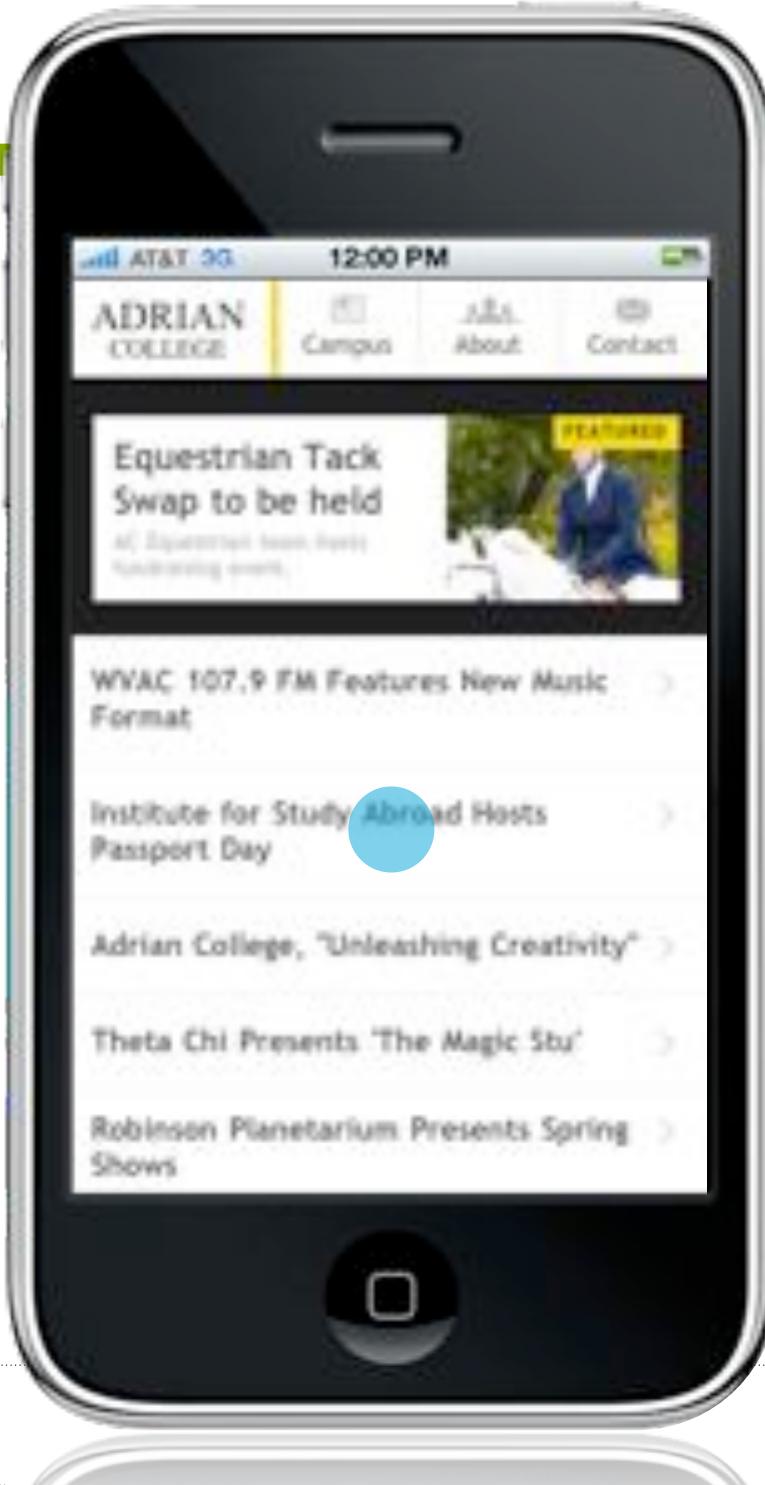
Edit/Create

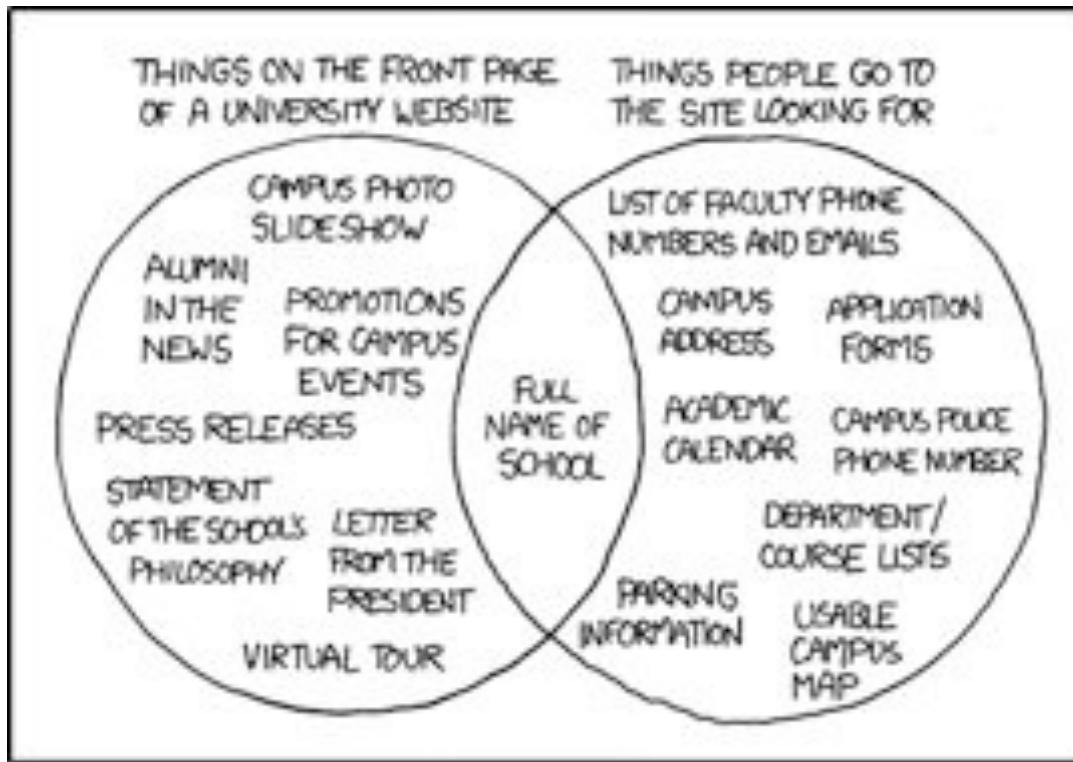


Marketing



Menu





"I was looking at **the right side** of the Venn diagram I thought, 'That looks like a lot of the current and planned content for **our mobile site**.' I think the only thing we don't have are the admissions application."

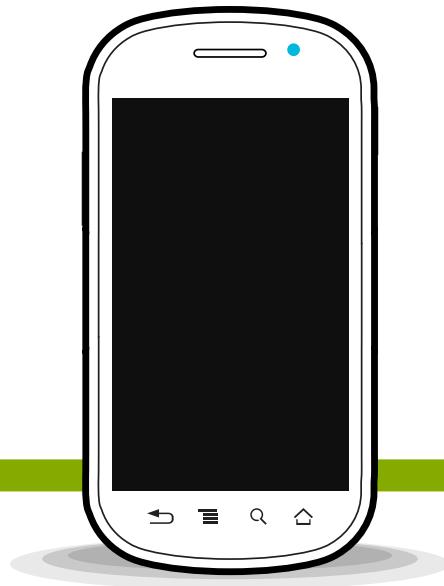
MOBILE FIRST

1. GROWTH = OPPORTUNITY
2. CONSTRAINTS = FOCUS
3. CAPABILITIES = INNOVATION

MOBILE BEHAVIORS

- Know what mobile is uniquely good at
- Adjust site organization accordingly

ORGANIZATION



- 1. Mobile Behaviors
- 2. Content First
- 3. Navigation Elements
- 4. Clarity & Focus

Navigation First, Content Second

flickr from YAHOO! Signed in as lukew

Activity You Contacts More

Kia ora lukew!
Now you know how to greet people in Māori!

Recent activity >

Uploads from your contacts >

Today's interestingness NEW >

Photos taken nearby >

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From Yahoo! | Your Privacy | Terms of Service
[flickr.com](#) | iPhone app | report abuse | sign out

Back IxDA Board Emeriti
IxDA Volunteers

Project **People on this project**

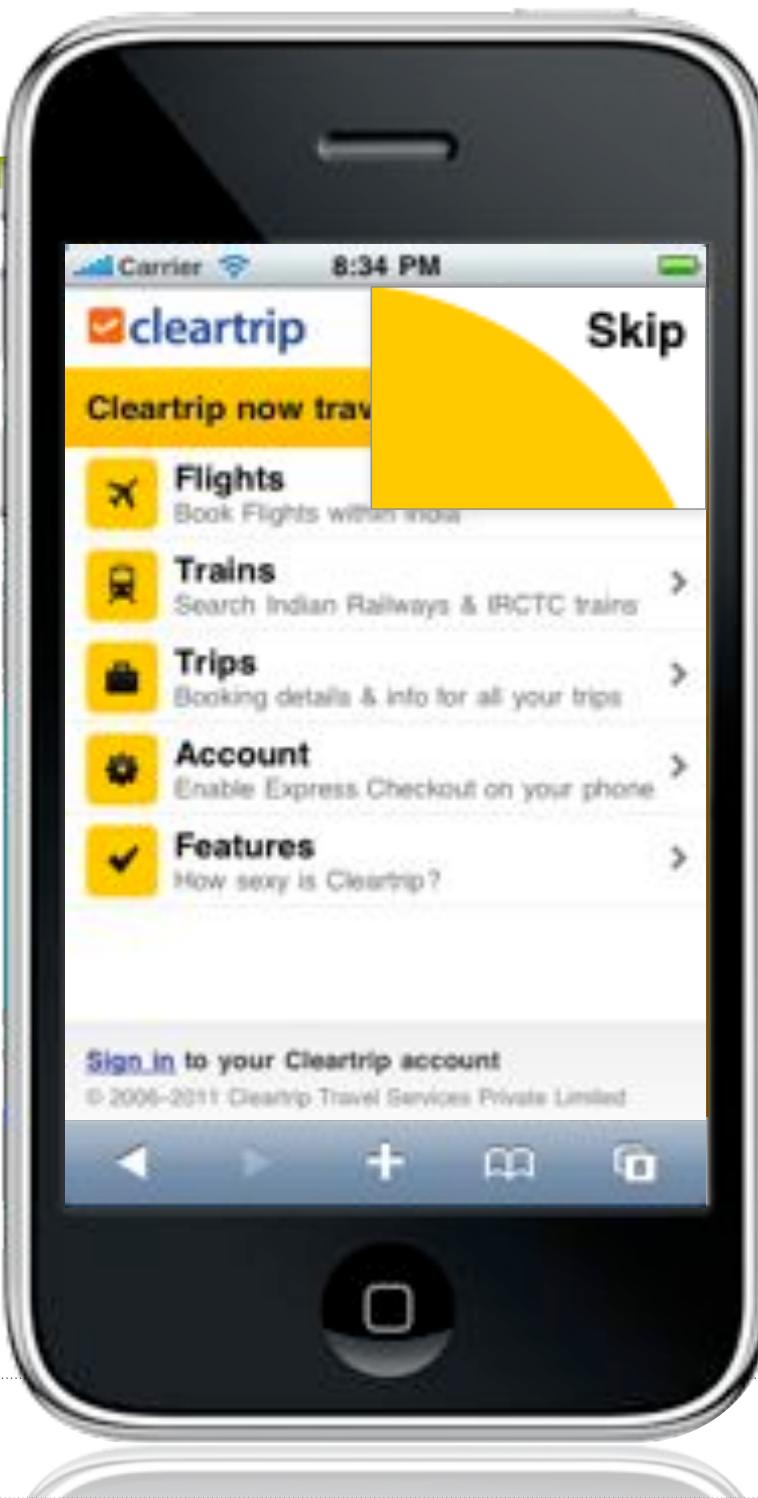
Messages 5 posts >

To-Dos 0 lists >

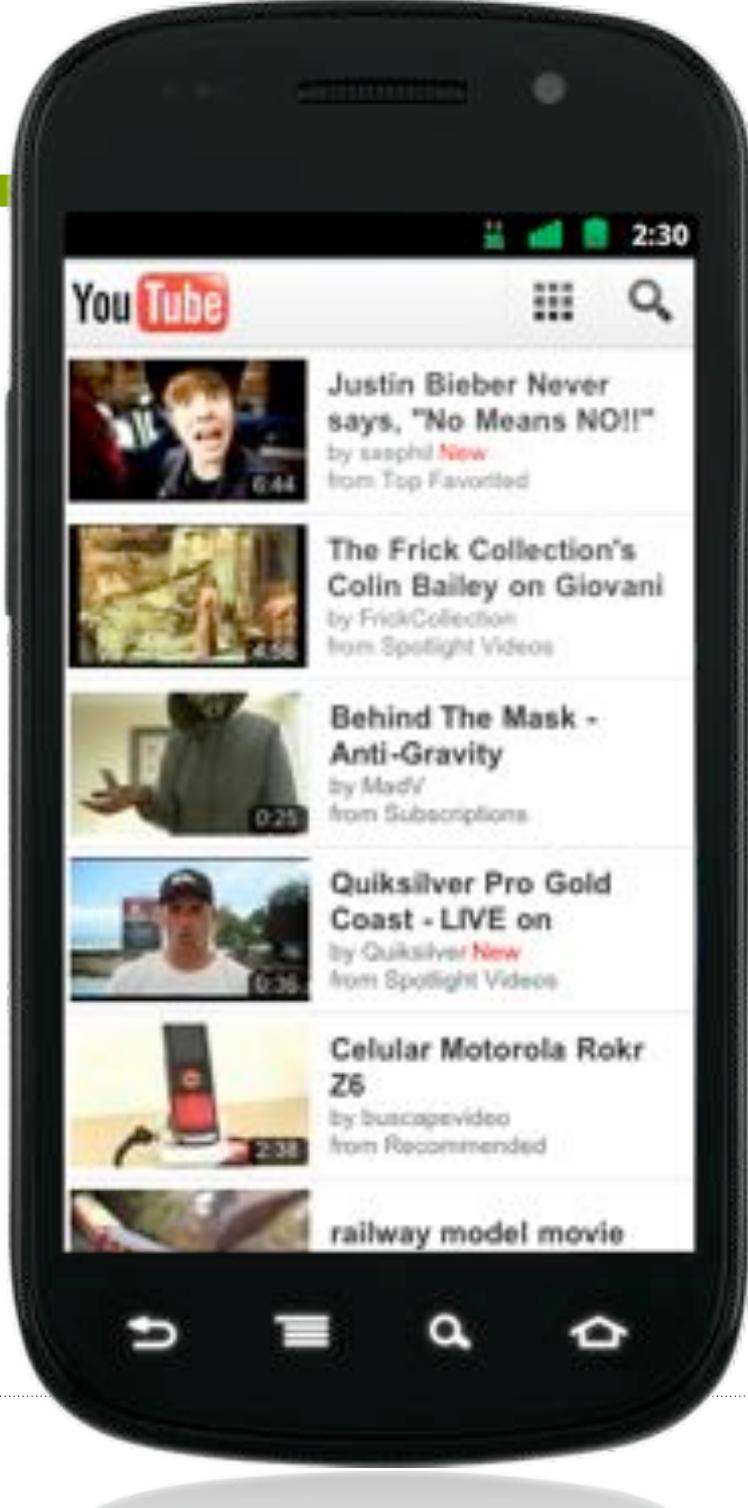
Milestones 0 upcoming >

Writeboards 0 documents >

Skip Intro

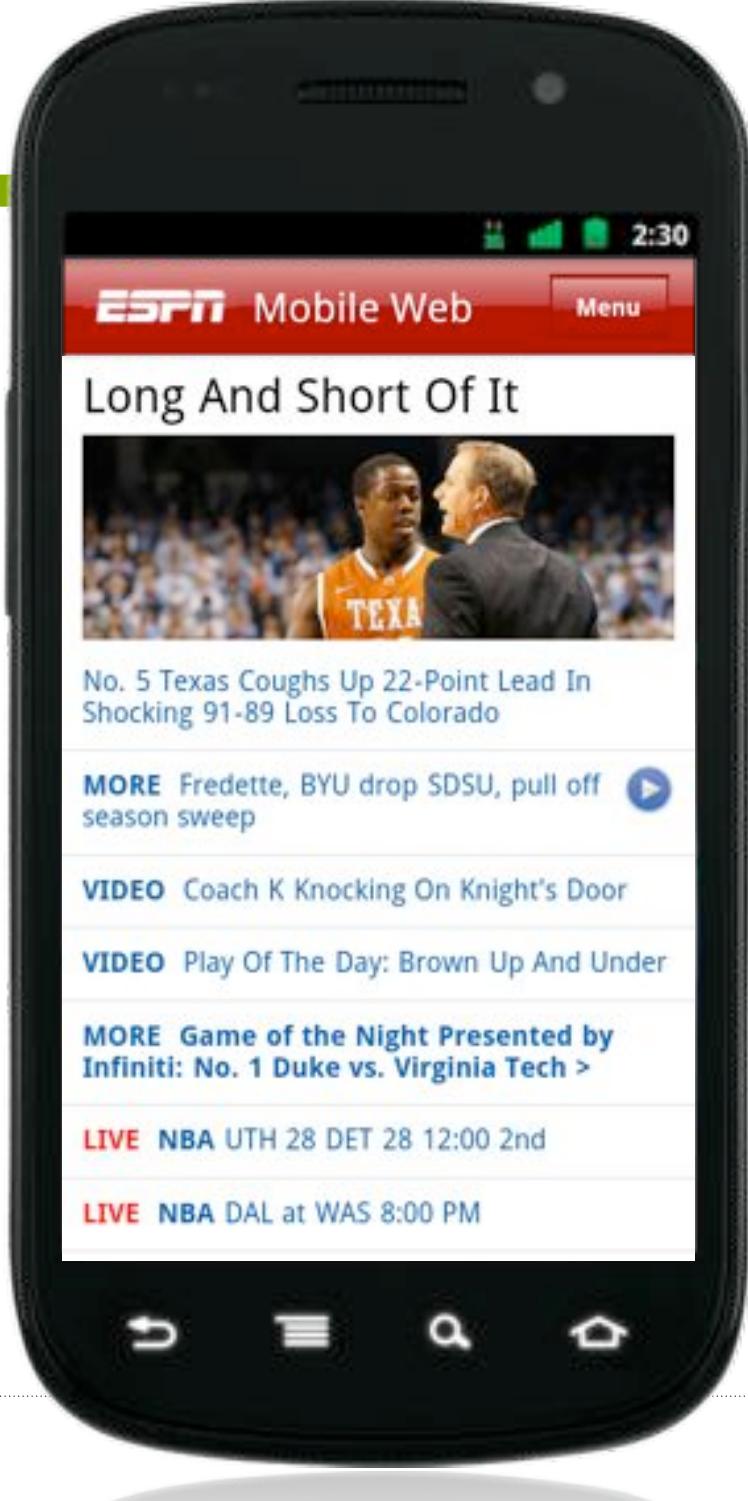


Minimal Navigation

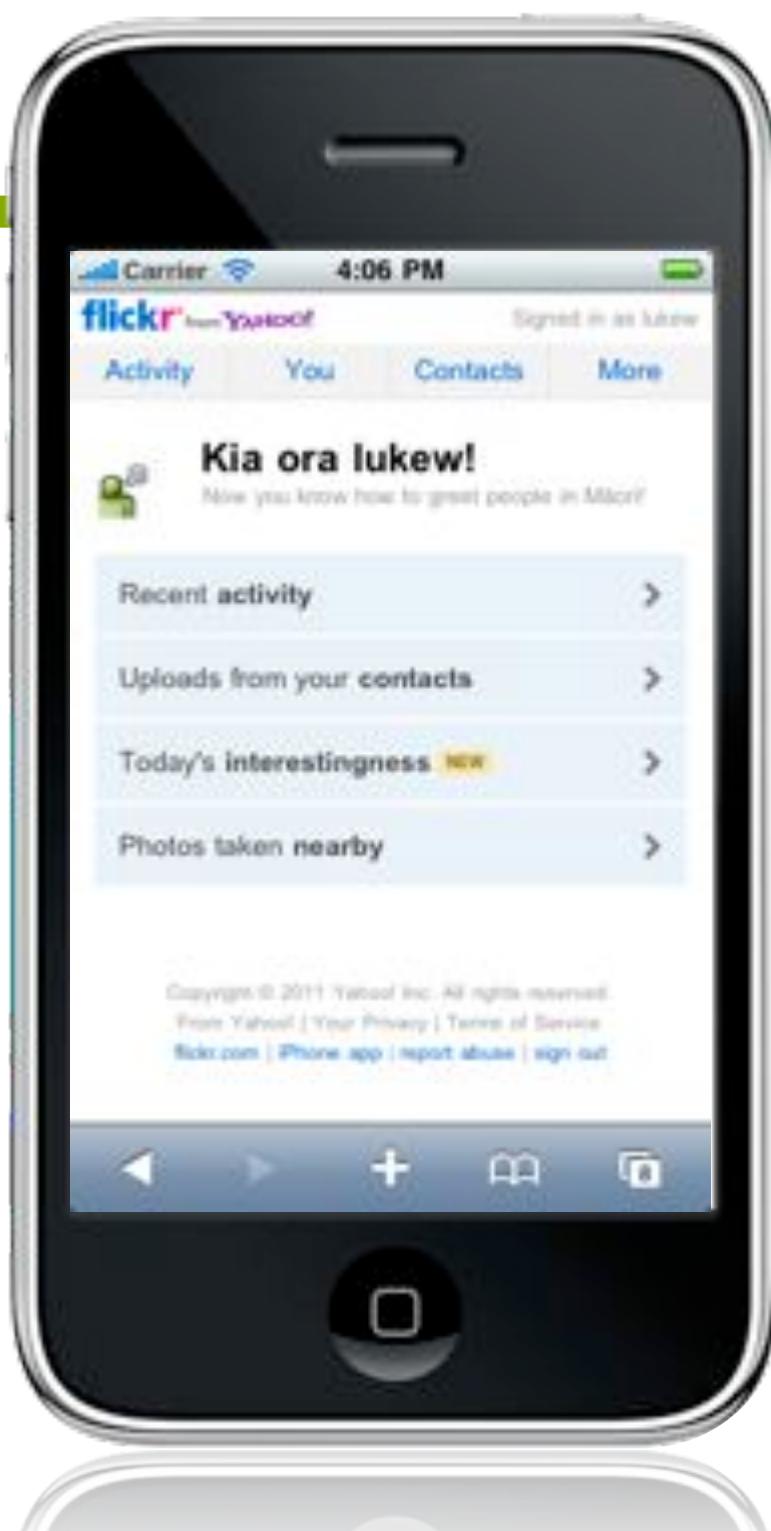


Maximum Content

Minimal Navigation



Maximum Content

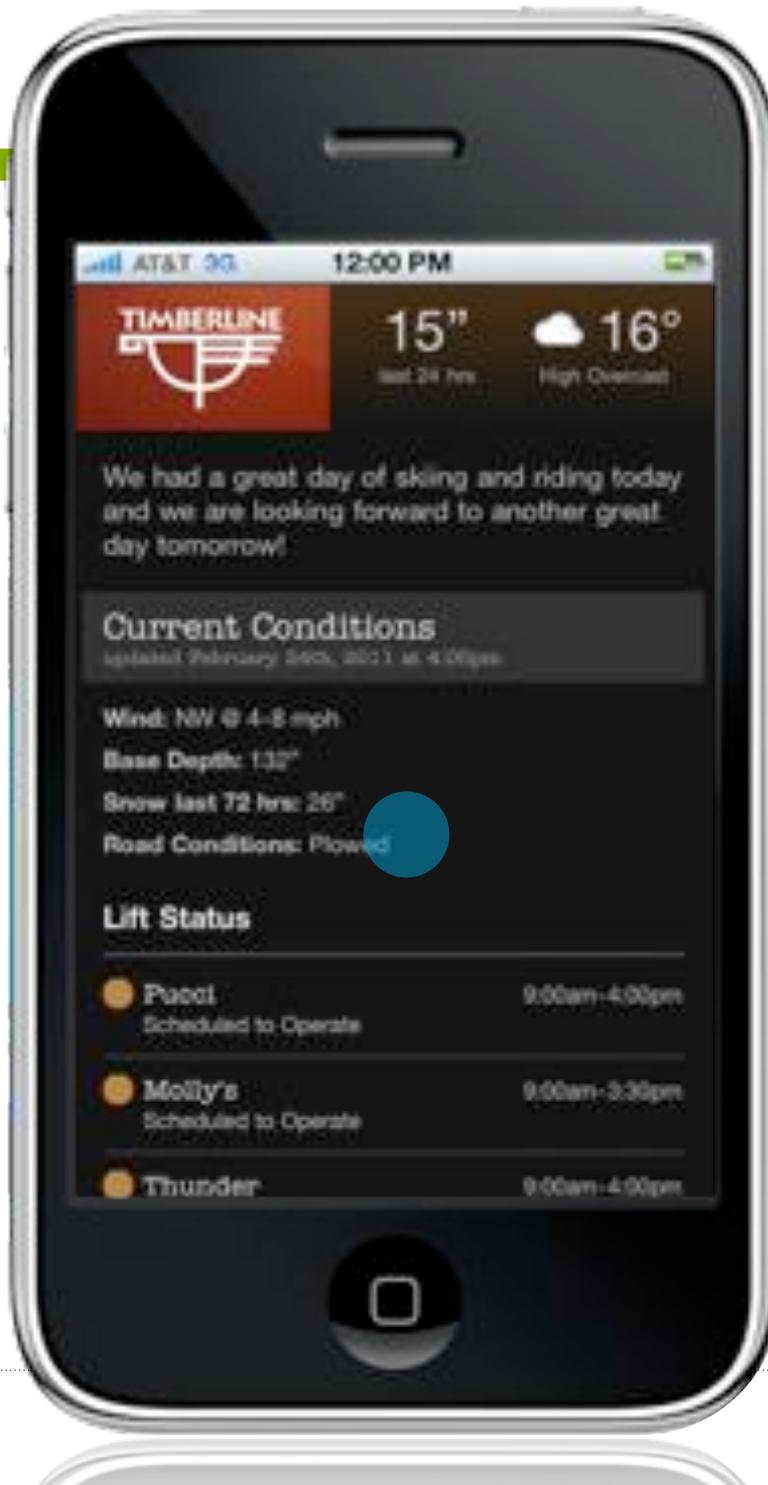




"In the new app, we present **relevant content up-front** and instantly notify users of new invitations and messages. In other words, we remove the friction of a dashboard and provide **immediate value on app launch.**"



Check In/Status



Navigation
Second



Visit
Timberline

Play on the
Mountain



Conditions

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Site... SEARCH

14°
DOME 4
ALTITUDE
TIMBERLINE
WEBCAM



[ROOM AVAILABILITY](#) CHECK-IN NIGHTS 1-8 ADULTS 1-4 KIDS 0-3 [+/-](#)

[EXPLORE](#) +

Photos & Videos from our Timberline Community



[NEWS](#) +

Fri Oct. 2011
Fresh Snow Blankets Timberline

Sat Oct. 2011

[ADVERTISE](#) +



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- [Charitable Contributions](#)

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@wilt

Mat "Wilt" Marquis

“Mobile users want to see our menu, hours, and delivery number. Desktop users definitely want this 1mb png of someone smiling at a salad.”

27 Apr via Twitter for Mac ⭐ Favorite 13 Retweet 4 Reply

Retweeted by [Mbra](#) and 100+ others



@grigs that we both rely on "view desktop site" links tells me that mobile-optimized content regularly falls short of users' needs
/cc @beep

10:30pm Mar 4th 2011 via Twitter for Mac in reply to grigs

#10 [i]



scottjehl

Scott Jehl

Thought of the day: we'll know the mobile web is "ready" when links to the desktop version are understood to be unnecessary.

10:43pm Mar 4th 2011 via TweetDeck

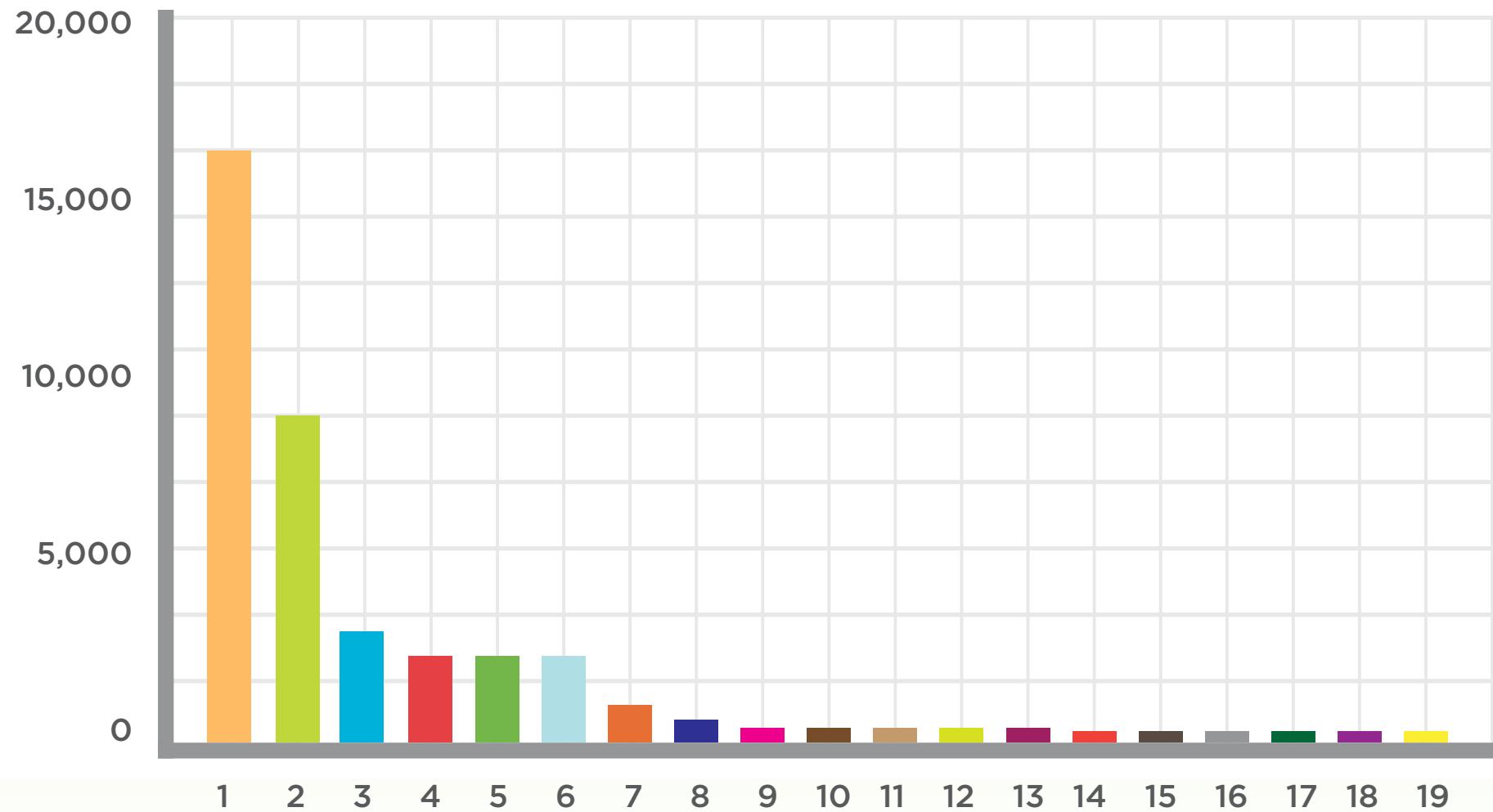
#11 [i]



grigs

Jason Grigsby

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<input checked="" type="checkbox"/> Stops	Best
<input checked="" type="checkbox"/> nonstop	\$229
<input checked="" type="checkbox"/> 1 stop	\$230

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[Fly to Portland from \\$49*](#)

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759 of 759 Flights shown – round-trip

[+ Fly – Next](#)

Price*	Airline	Takeoff	Landing	Stops (Duration)
\$259 <small>nonstop</small>	Alaska Airlines	OAK 6:30a → PDX 8:29a PDX 6:30a → OAK 8:29a	0 [1h 49m]	0 [1h 49m]
4 stops	AA.com	06548 18060208 13 0		

[Oakland to Portland](#)

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“Kayak is now consciously taking design cues from its recently updated iPad and iPhone apps”

[Airlines](#)
Select All | Clear

Airlines	Best
<input checked="" type="checkbox"/> Alaska Airlines	\$229
<input checked="" type="checkbox"/> American Airlines	\$230
<input checked="" type="checkbox"/> Delta	\$232
<input checked="" type="checkbox"/> Hawaiian Airlines	\$232
<input checked="" type="checkbox"/> JetBlue Airways	\$232
<input checked="" type="checkbox"/> Northwest	\$232
<input checked="" type="checkbox"/> Southwest	\$232
<input checked="" type="checkbox"/> United	\$234
<input checked="" type="checkbox"/> US Airways	\$234
<input checked="" type="checkbox"/> Multiple Airlines	\$234

\$269
nonstop

American Airlines

OAK 6:30a → PDX 8:29a
PDX 6:30a → OAK 8:29a

0 [1h 49m]
0 [1h 45m]

[AA.com](#)

06548 18060208 13 0

\$270
nonstop

Alaska Airlines

OAK 7:00a → PDX 10:50a
PDX 6:20p → OAK 10:50a

3 [3h 50m]
0 [1h 45m]

4 stops

06548 18060208 13 0

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Discounted Rose Garden Arena
Tickets from Portland's Fastick.

The screenshot shows the Kayak mobile application interface. On the left, there's a vertical sidebar with icons for flight search, car rental, and luggage. The main area has a search bar at the top with a magnifying glass icon and a dropdown for 'PREVIOUS SEARCHES'. Below the search bar are several filter categories: 'AIRLINES' (All), 'STOPS' (All), 'AIRPORTS' (All), 'TIMES' (Anytime), and 'PRICE' (Max Price). A 'CLEAR FILTERS' button is also present. To the right, five flight search results are listed, all from Virgin America. Each result includes the price (\$354 or \$364 per person), the airline logo, departure and arrival airports (JFK and LAX), and the times (e.g., 9:40a, 6:25p). There are also duration details and options to change stops or nonstop flights.

Flight Details	Price	Airline	Departure	Arrival	Duration	Stops
JFK 9:40a → LAX 6:25p LAX 9:25p → JFK 5:35a	\$354 per person	Virgin America	JFK	LAX	11 hours 54 minutes	2
JFK 9:40a → LAX 6:25p LAX 1:40p → JFK 10:00p	\$354 per person	Virgin America	JFK	LAX	6 hours 50 minutes	2
JFK 9:40a → LAX 6:25p LAX 3:50p → JFK 11:59p	\$354 per person	Virgin America	JFK	LAX	9 hours 19 minutes	2
JFK 9:40a → LAX 6:25p LAX 11:40p → JFK 7:50a	\$354 per person	Virgin America	JFK	LAX	8 hours 10 minutes	2
JFK 9:40a → LAX 6:25p LAX 7:10a → JFK 5:59p	\$364 per person	Virgin America	JFK	LAX	10 hours 49 minutes	1

“The goal in making the site more like a mobile app is to shed unnecessary details and simplify”



Toronto, ON, Canada

Quebec, QC, Canada

02/23/2012

02/24/2012

Find Flights

1111 of 1111 round-trips

Sort

Price*

Airline

Takeoff

Landing

Stops

Matrix

+/- 3 days

Price alert

Fare charts

Stops

 nonstop

\$309

 1 stop

\$399

 2+ stops

\$419

Quebec Flight Specials

www.aircanada.com

Flights to Quebec from \$187 OW. Book Online Now and Save.

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\$309



WestJet

YYZ 7:45p -- YQB 9:11p 1h 26m nonstop

YQB 6:25a -- YYZ 7:59a 1h 34m nonstop

“If something is on the screen and people aren’t clicking on, we remove it”

Airlines

[Select all | Clear](#) Air Canada

\$406

 WestJet

\$309

 Multiple Airlines

\$371

\$391

Hacker Fare[®]WestJet /
Air Canada

YYZ 7:45p -- YQB 9:11p 1h 26m nonstop

YQB 5:25a -- YYZ 7:10a 1h 45m nonstop

Economy 1

Select

Hacker Fare \$391

Air Canada Express - Jazz operates flight 8929.

[More Filters...](#)

\$391

Hacker Fare[®]WestJet /
Air Canada

YYZ 7:45p -- YQB 9:11p 1h 26m nonstop

YQB 7:00a -- YYZ 8:45a 1h 45m nonstop

Economy 1

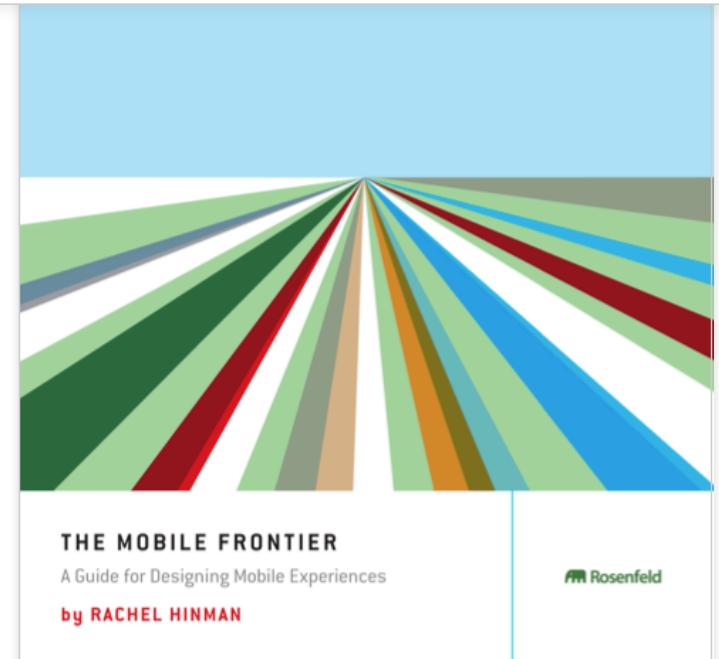
Select

Hacker Fare \$391

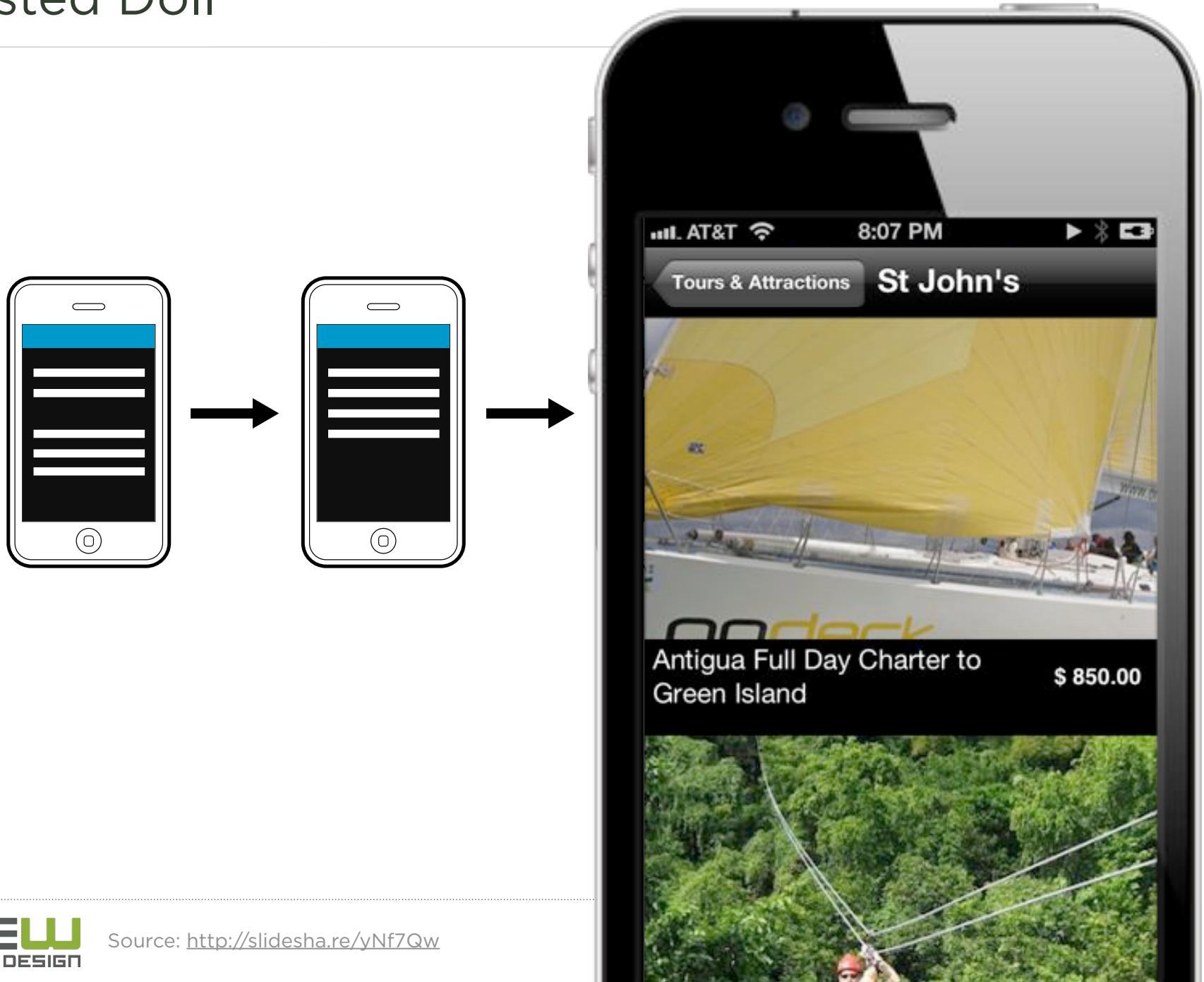
Air Canada Express - Jazz operates flight 8913.

“How do you gradually reveal mobile experiences?”

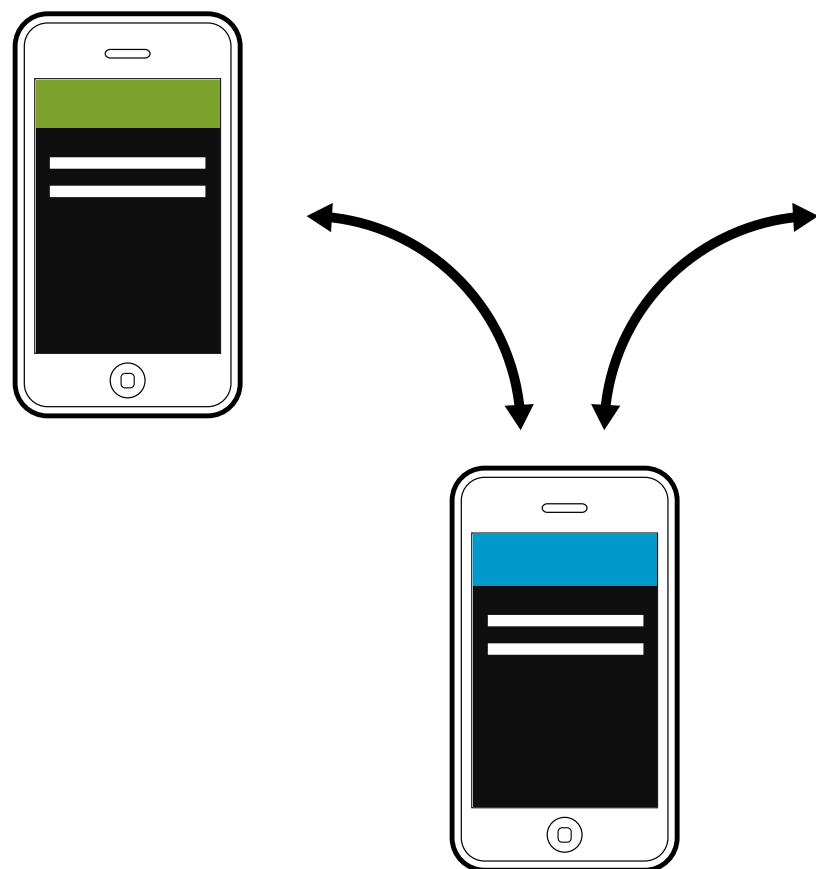
1. Nested Doll
2. Hub & Spoke
3. Bento Box
4. Filtered View



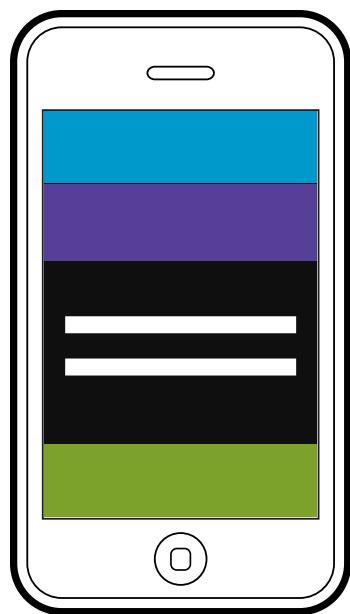
1. Nested Doll



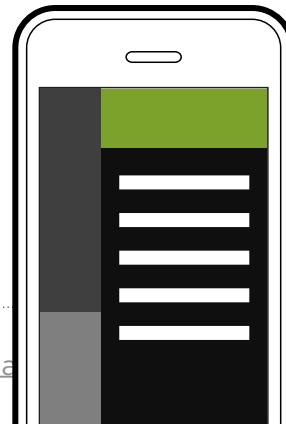
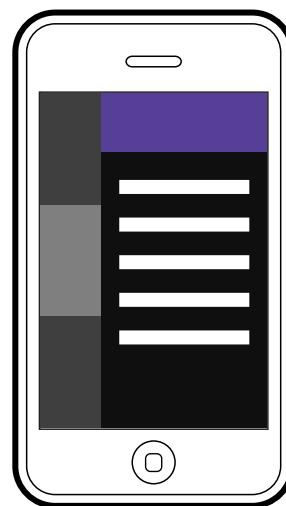
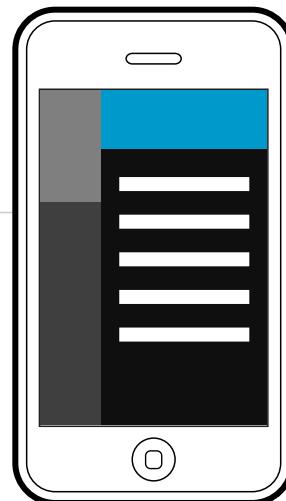
2. Hub & Spoke



3. Bento Box



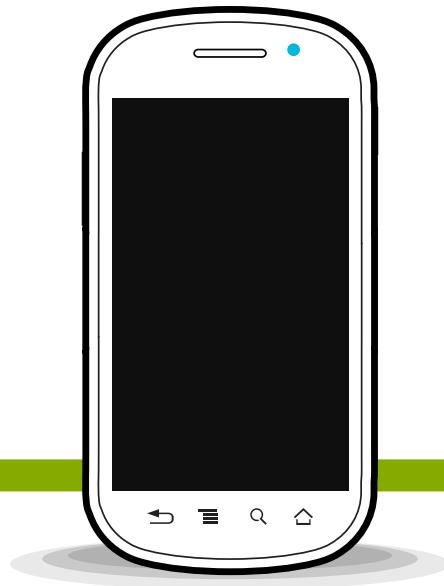
4. Filtered View



CONTENT FIRST, NAV 2ND

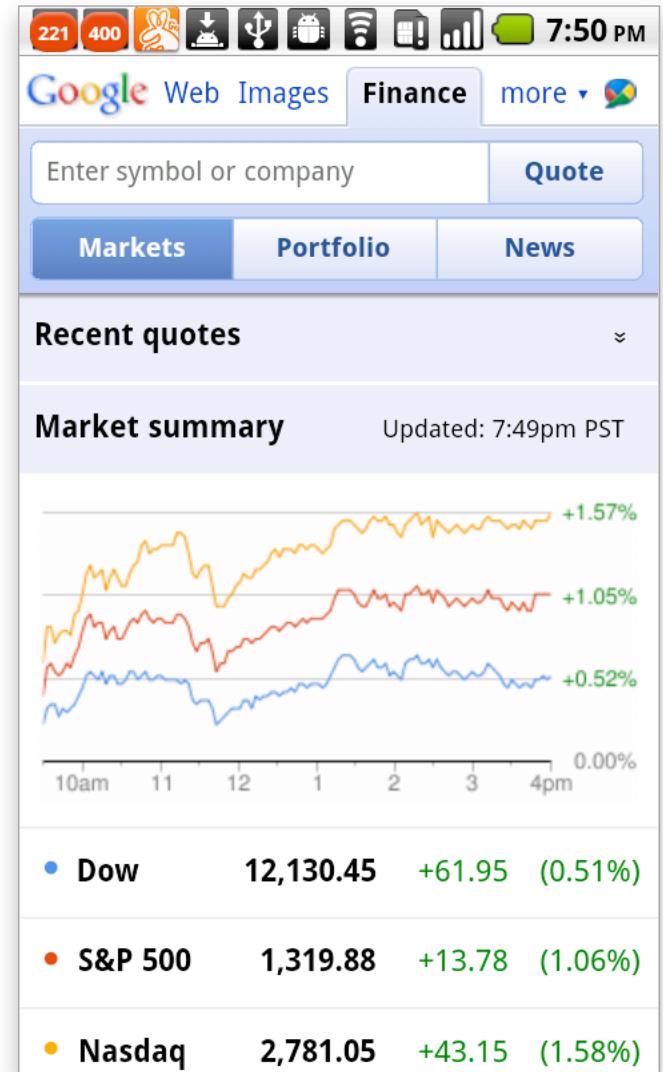
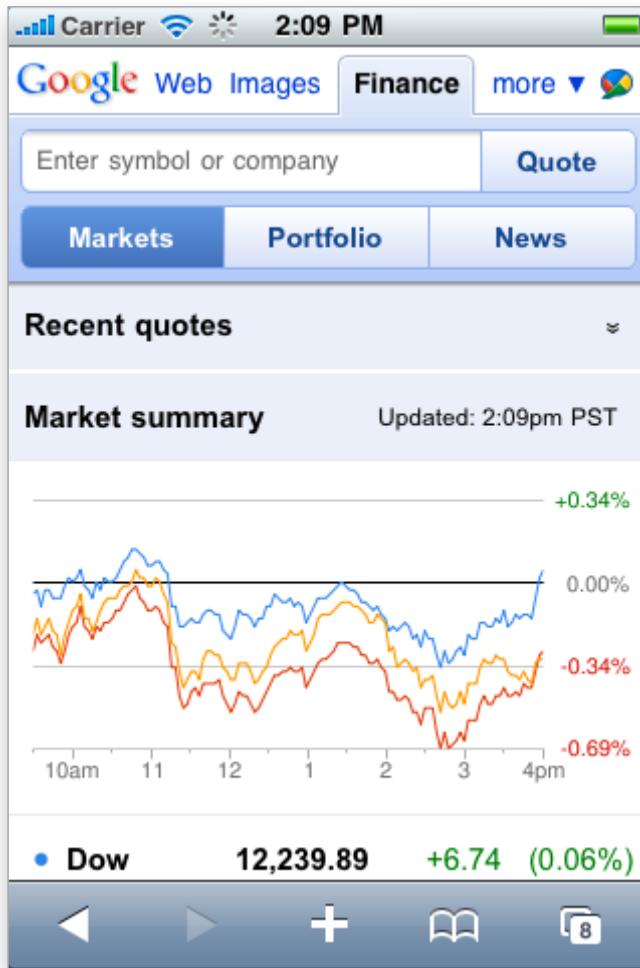
- Minimal navigation, maximum content
- Focus on what matters most
- Gradually reveal experiences

ORGANIZATION

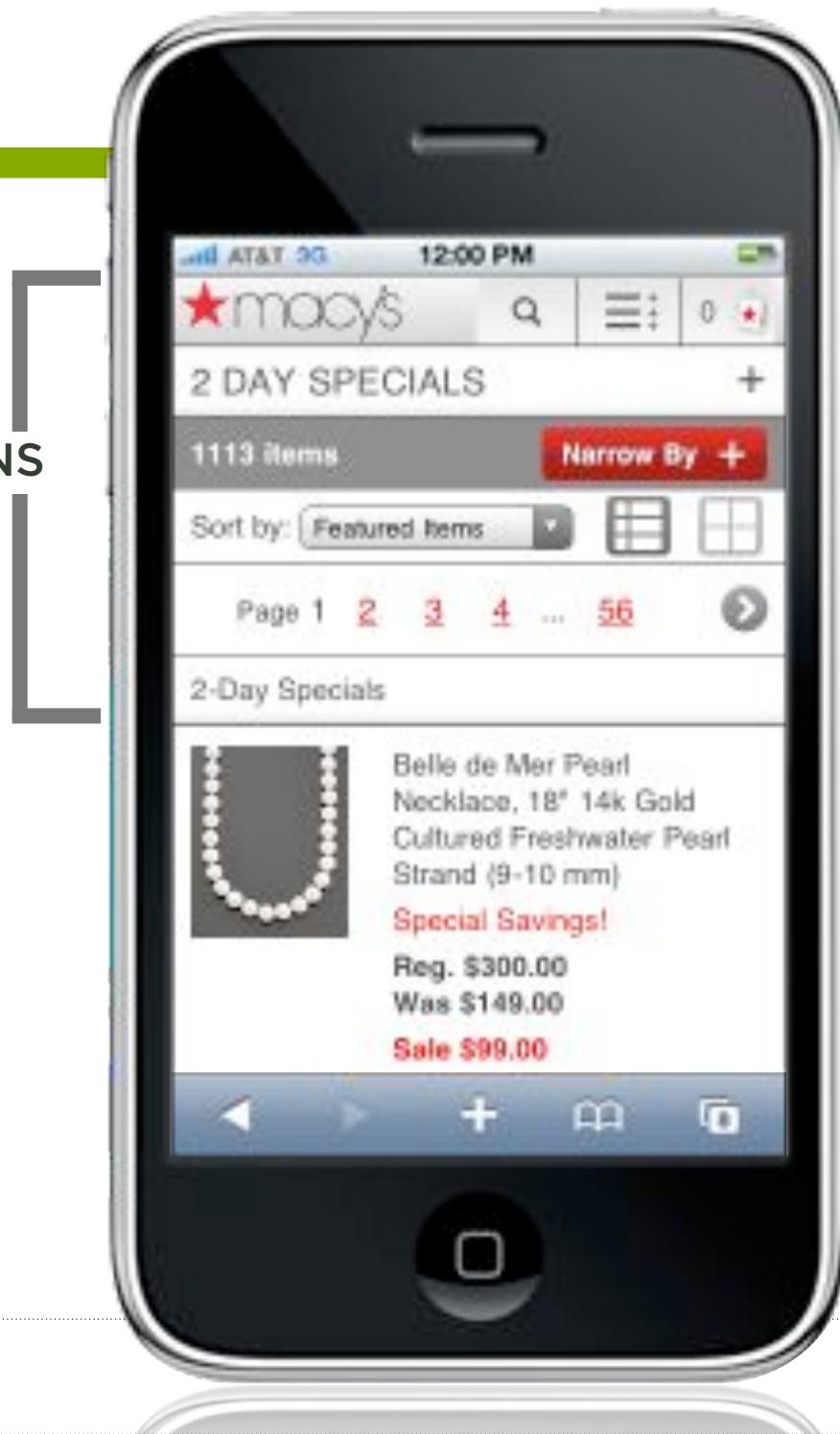


- 1. Mobile Behaviors
- 2. Content First
- 3. Navigation Elements
- 4. Clarity & Focus

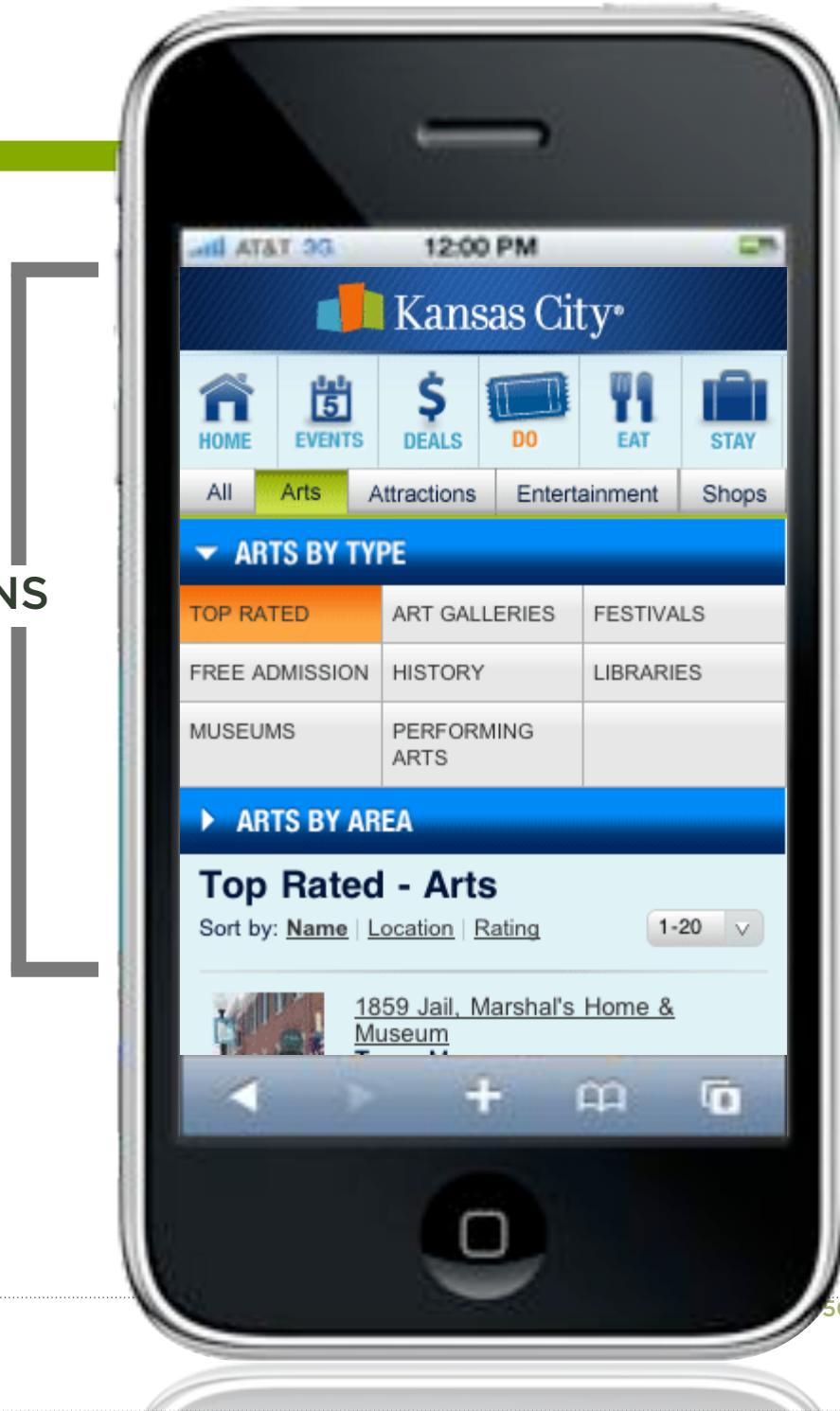
Navigation Elements



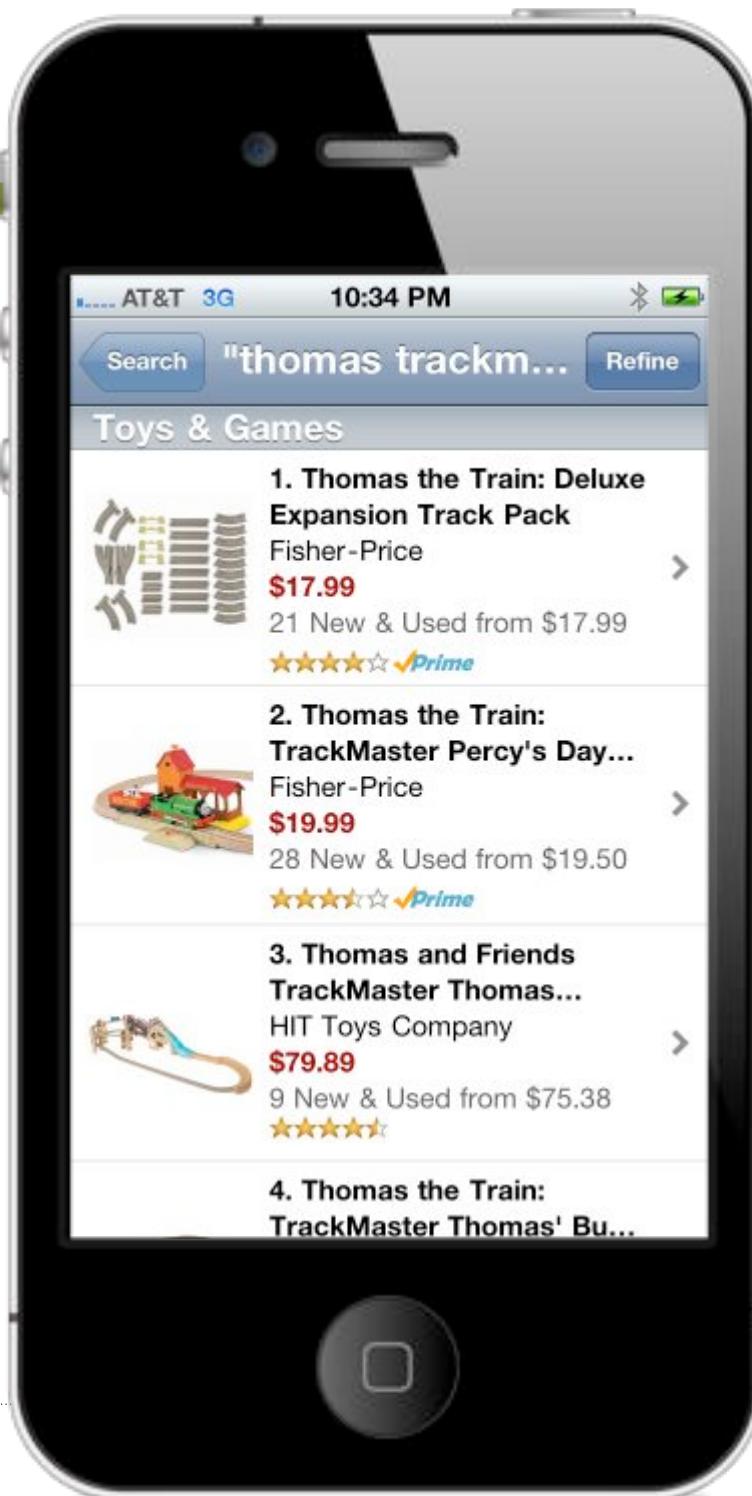
55% NAV OPTIONS



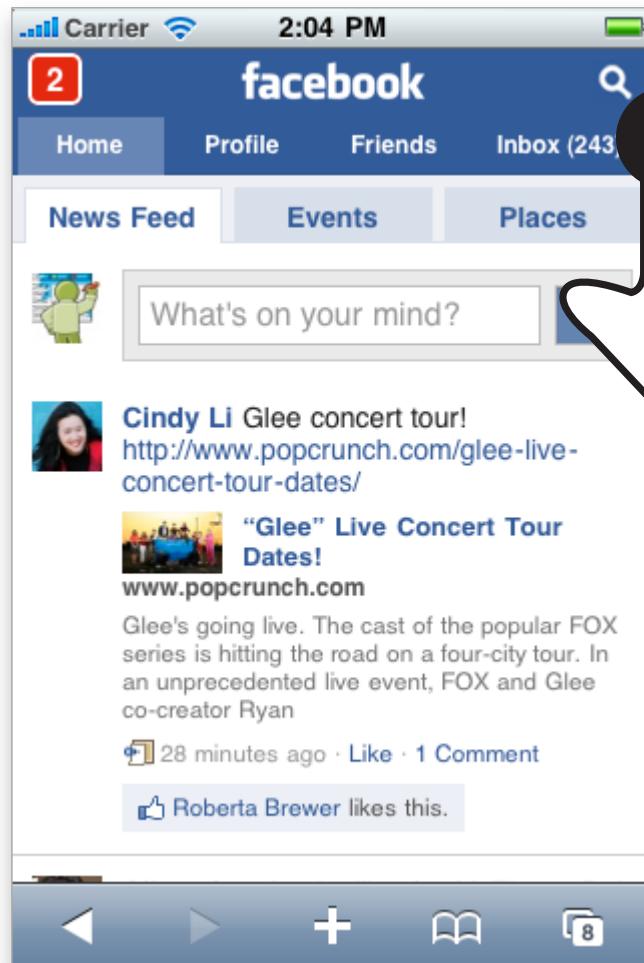
90% NAV OPTIONS



90% RESULTS



13 NAV ELEMENTS



TOUCH TARGETS

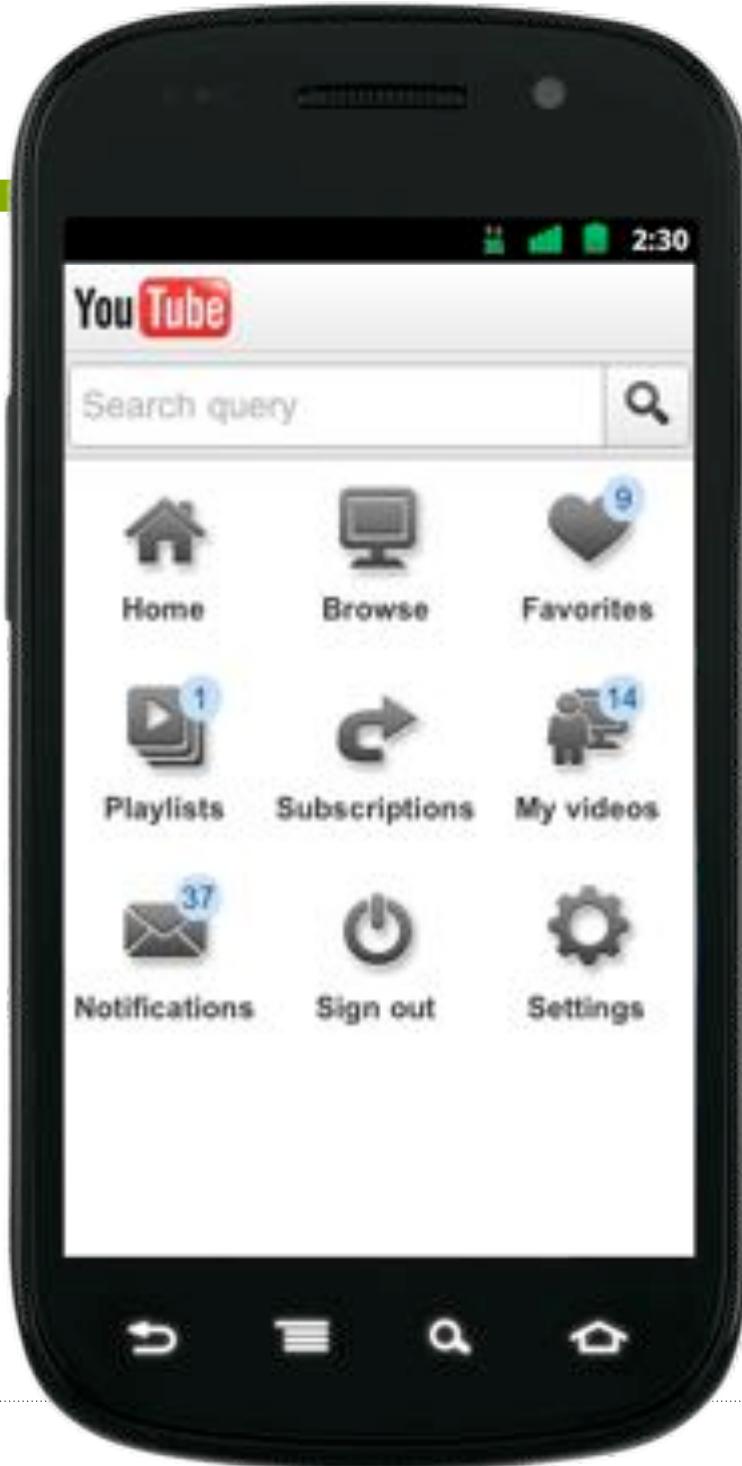
5 NAV ELEMENTS



53

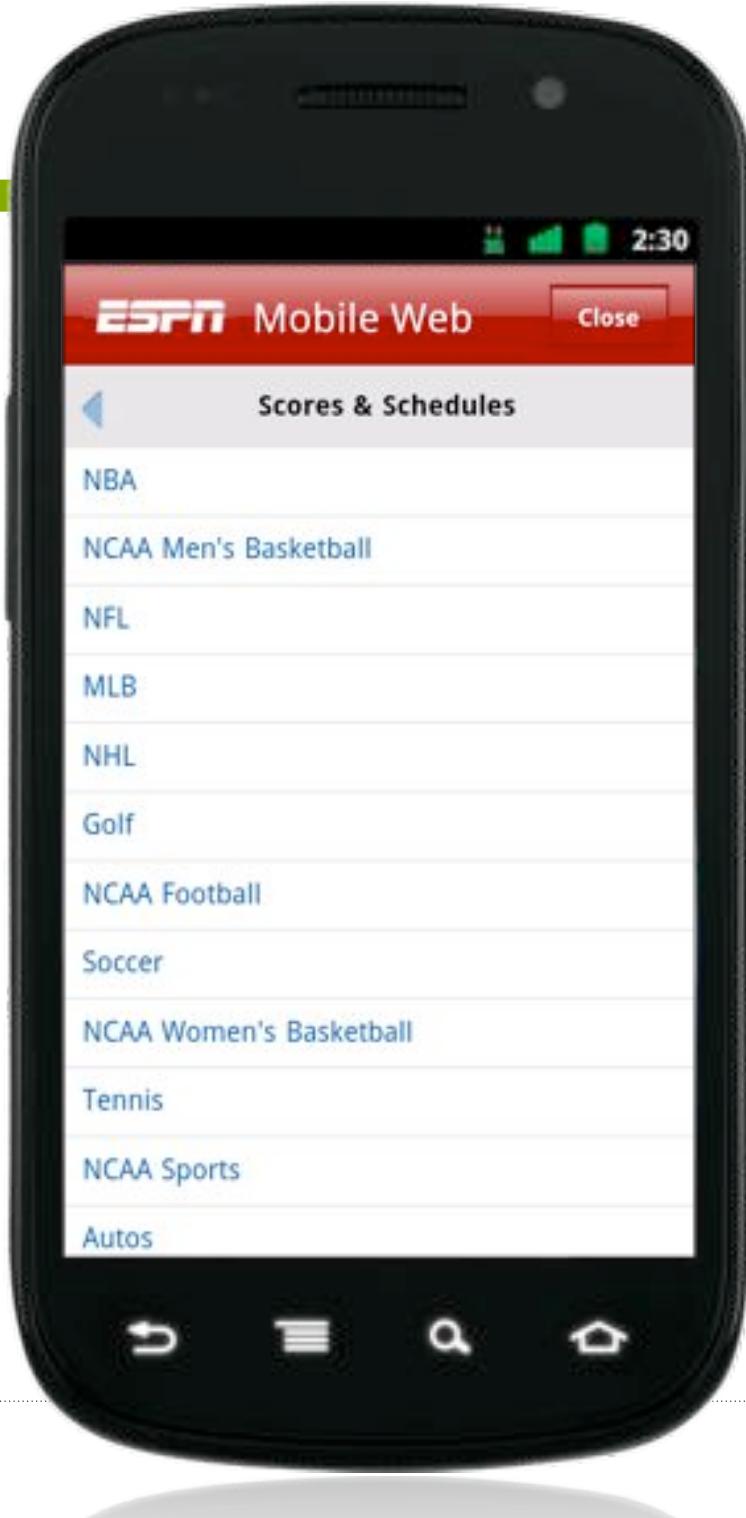
4 NAV ELEMENTS





Full
Navigation
Page

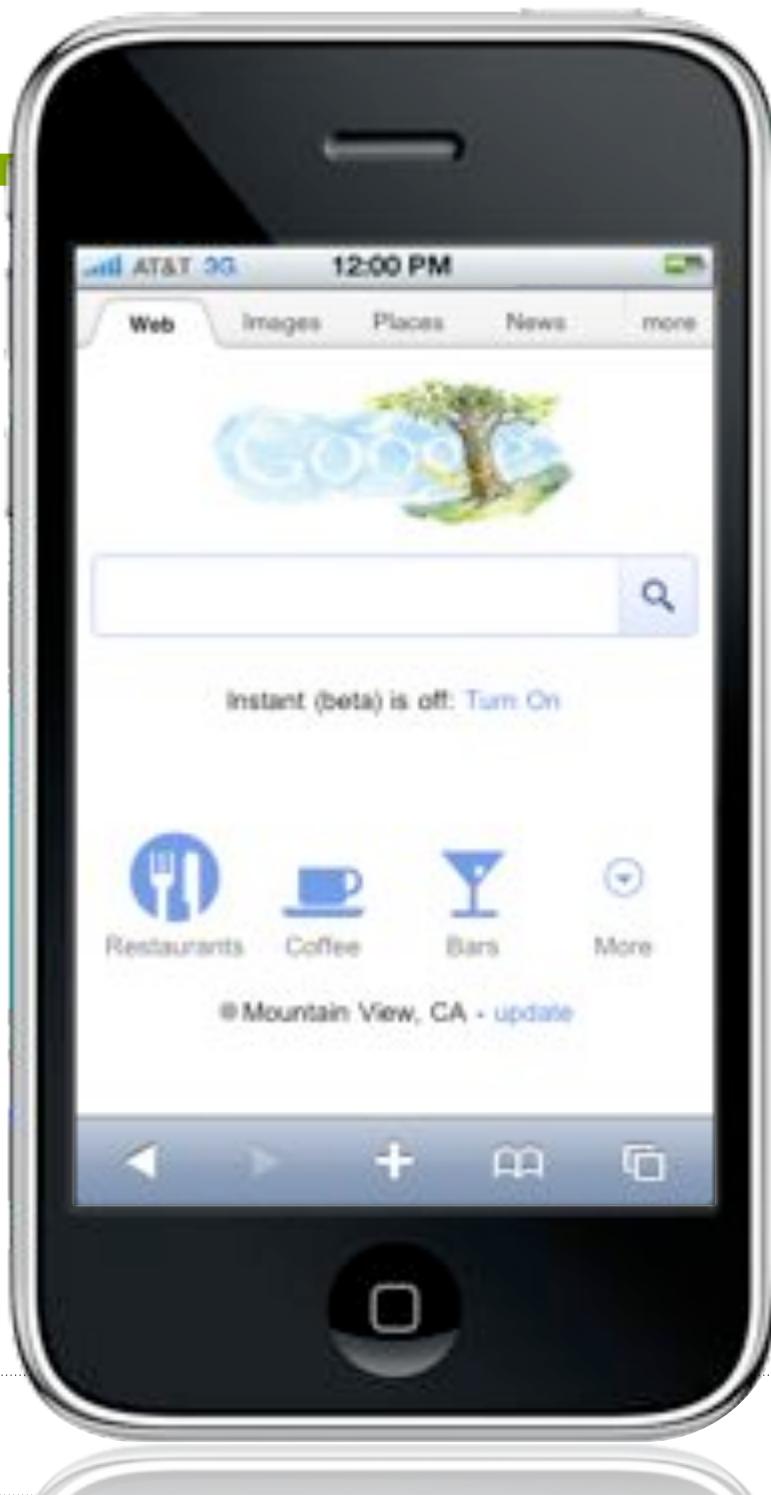
Top Navigation Overlay



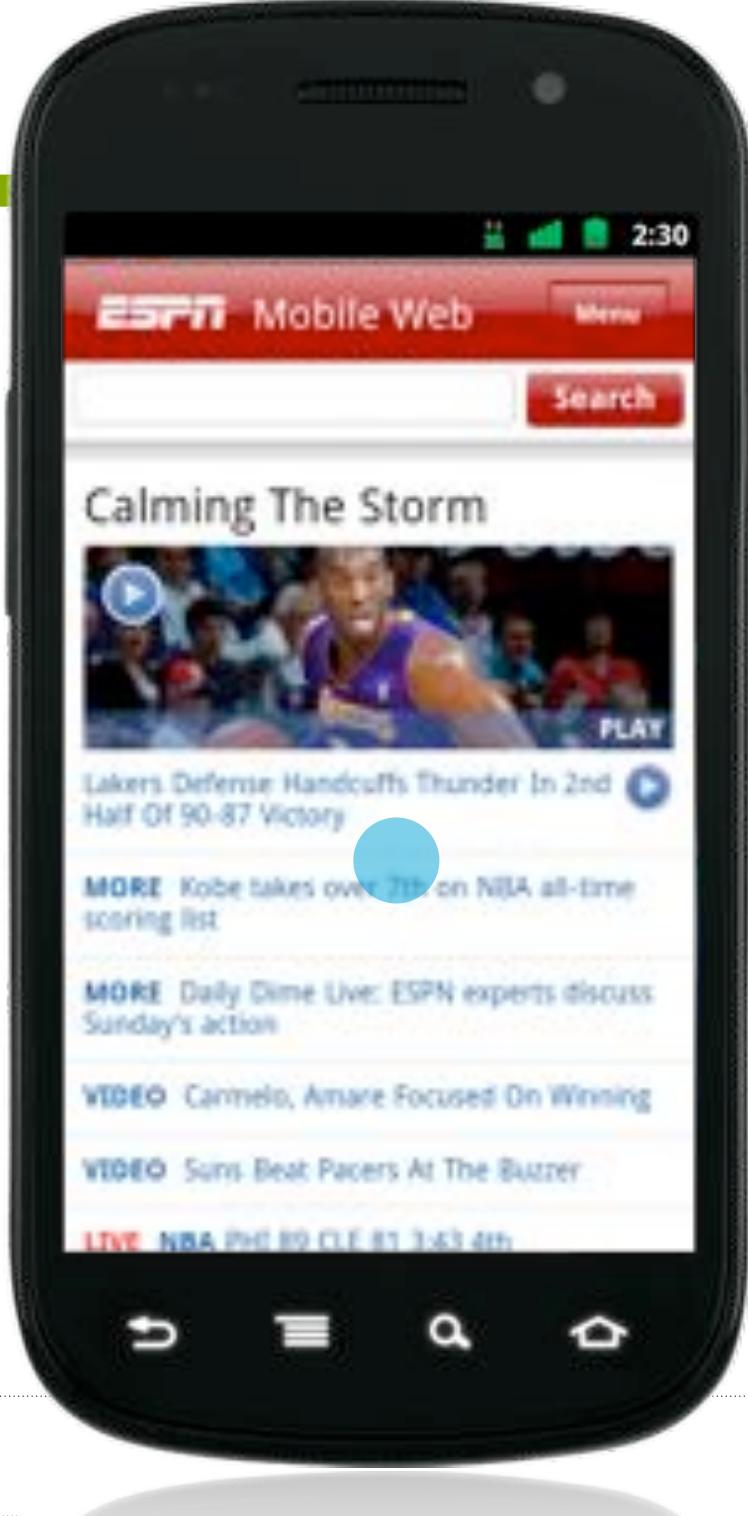
Side Navigation Expand



Top Navigation Expand



Pivot & Explore



Bottom
Navigation
Menu

MORE Daily Dime Live: ESPN experts discuss Sunday's action

VIDEO Carmelo, Amare Focused On Winning

VIDEO Suns Beat Pacers At The Buzzer

LIVE NBA PHI 89 CLE 81 3:43 4th

LIVE NBA GSW 113 MIN 118 4:18 4th

LIVE NBA NYK at MIA 8:00 PM

Did you know?

Virginia Tech beat the nation's No. 1 team for the 4th time in school history.

Scores & Schedules

NBA NCAAB MLB NHL NASCAR MORE

Go to NBA Scoreboard

FEB 27, 2011 UPDATED 7:16PM ET

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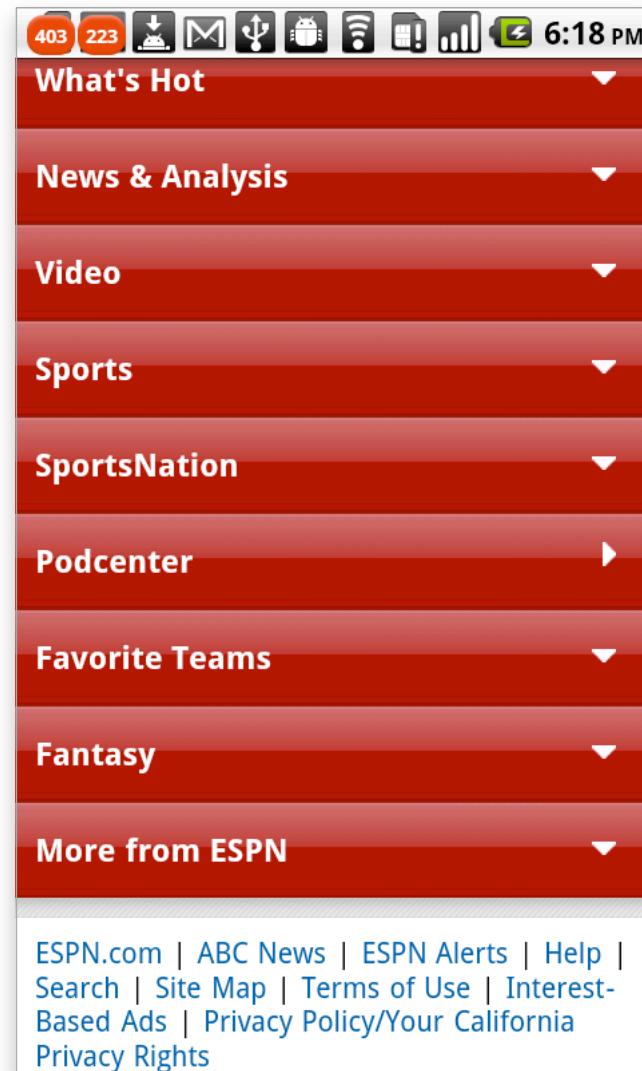
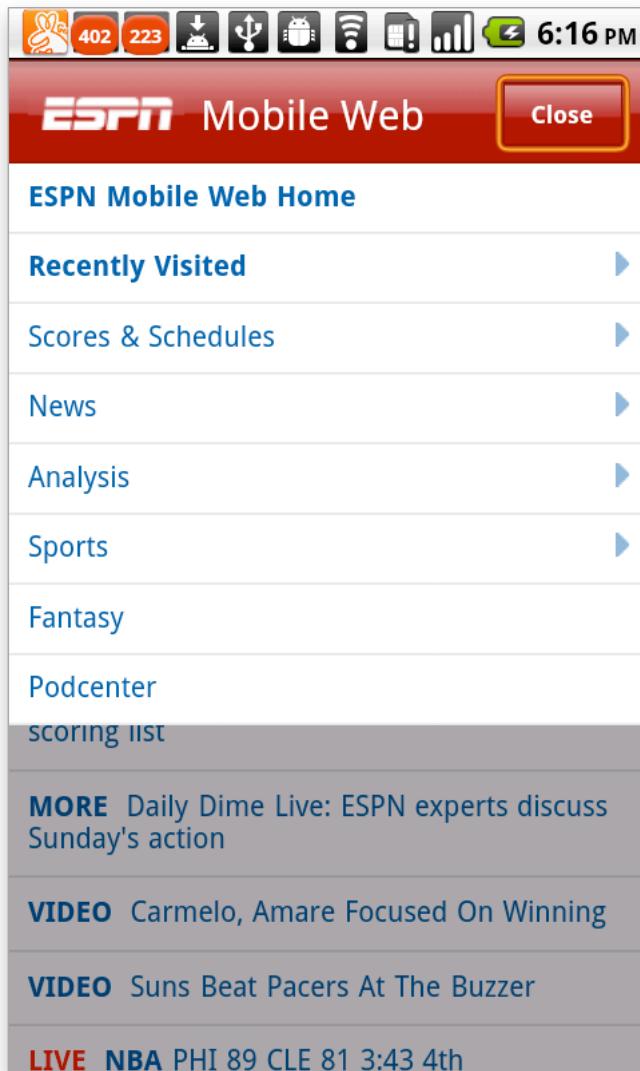


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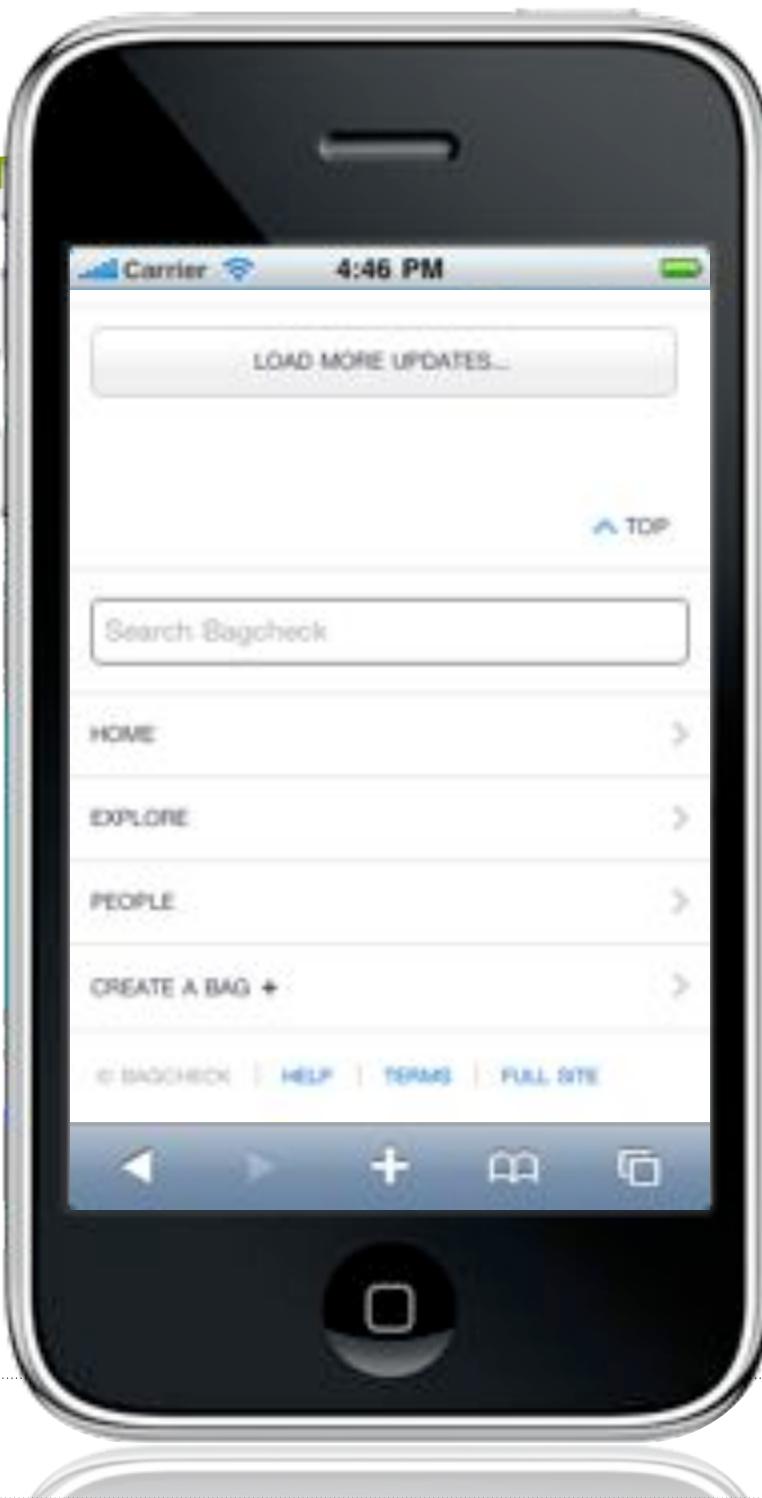


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Duplicative Menus



Bottom
Navigation
Menu



Top Navigation
Link

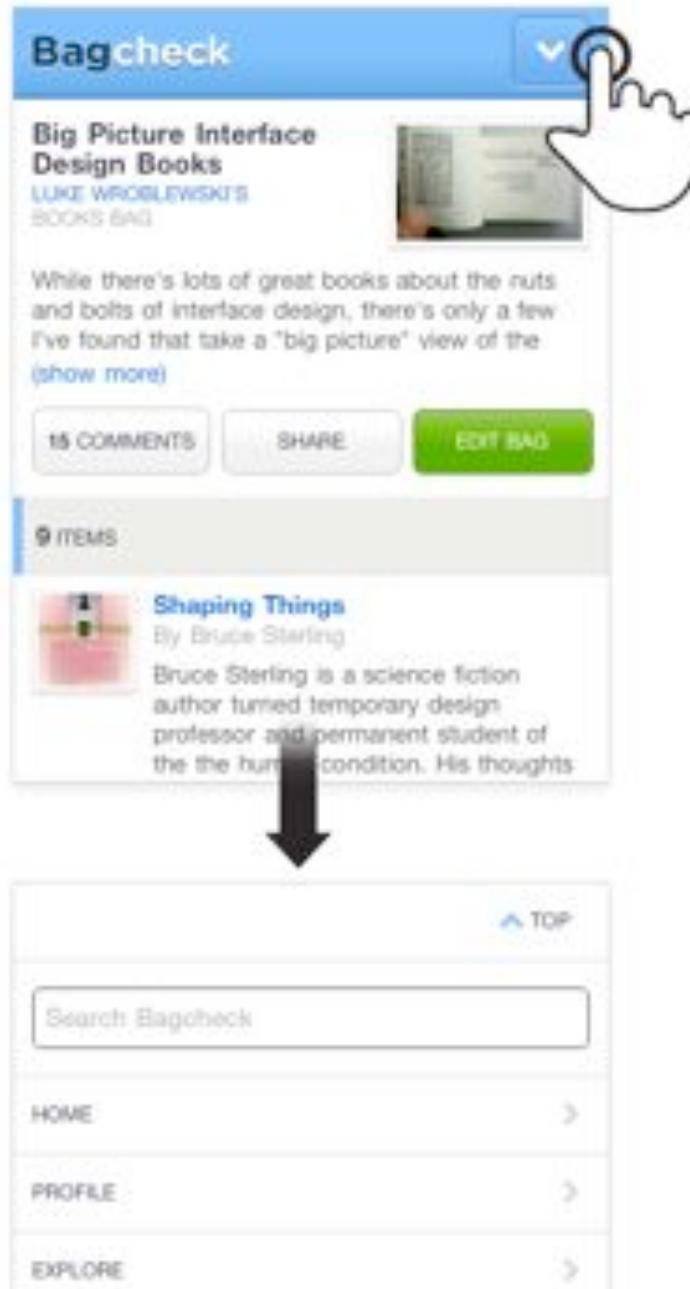
Best of Both Worlds?

Minimal
Navigation

No
Duplicative
Menus

Just an
Anchor Link

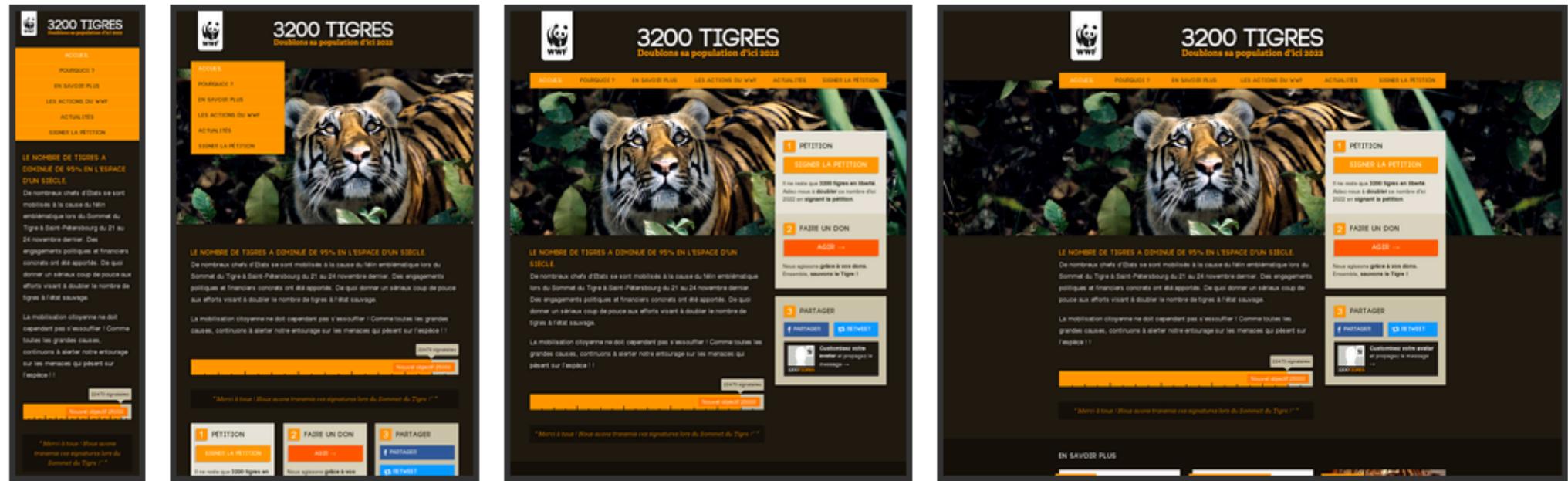
Pivot &
Explore





80-90% of people
are right handed

Responsive Web Design



Fluid grids • Flexible images • Media queries



Space To Breathe

by Nicole Jones for Issue № 2

The universe overwhelms me at times.

Things are complicated. Time is fragmented. Attention is scarce. Technology encourages interruption. As I get older, I find it harder and harder to function in the noise. I need space to breathe to make anything worthwhile. And I'm not alone in this. [The New York Times](#) and [The Atlantic](#) have ongoing features about how computers affect our quality of life. Harvard Business Review offers advice on [training your brain to focus](#) and [making room for reflection](#).

Linda Stone, a tech writer and consultant, has studied this problem for years. "We've been operating in an increasingly noisy world and taking on the job of staying on top of everything," she said in 2007. "Even though the world may continue to be noisy, increasingly we are craving stillness, meaningful connections, and we're yearning to get to the bottom of things." There are more people, more problems, and more things to do. It's hard to find quiet in such a connected world.

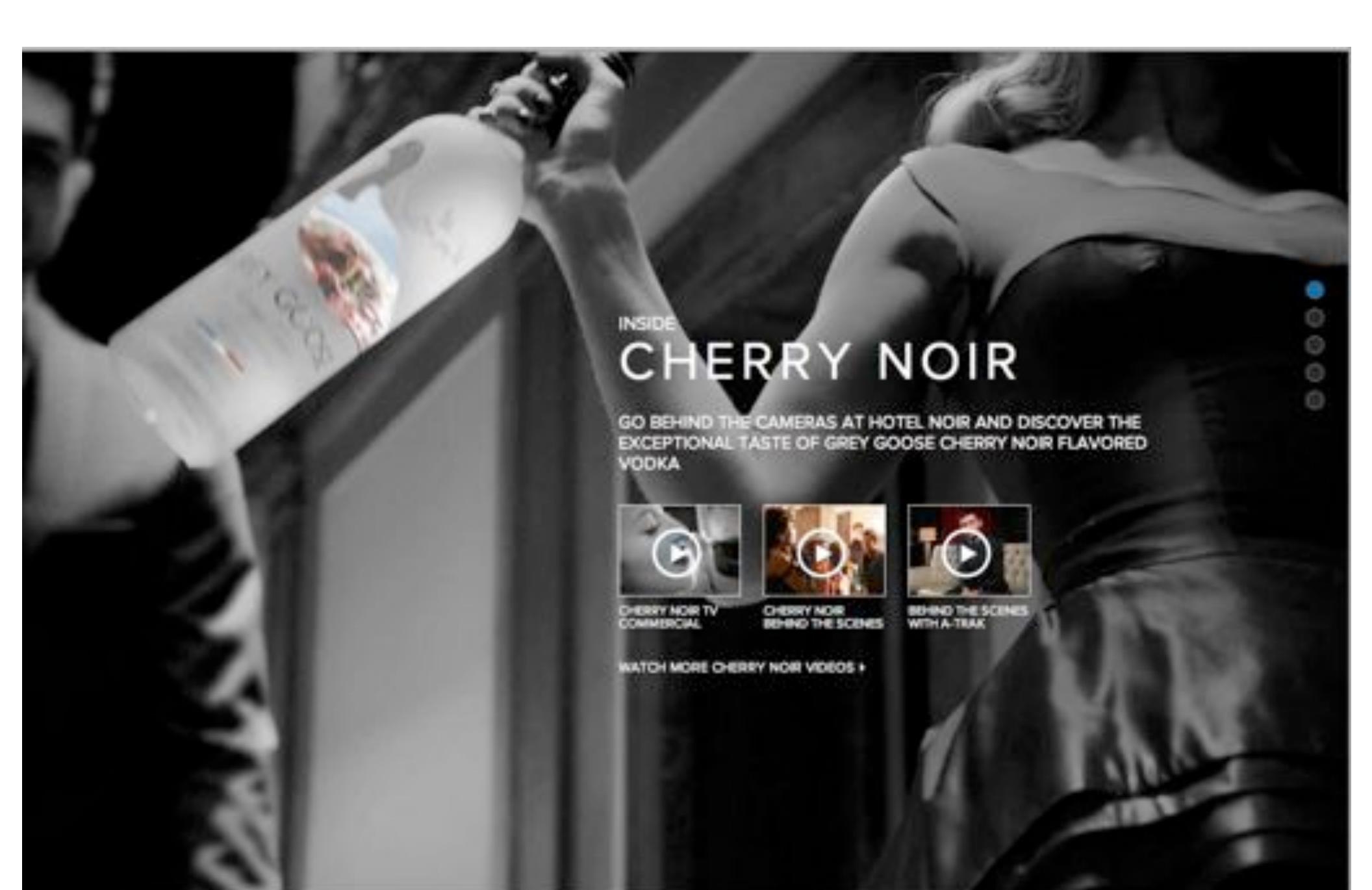
If technology overload isn't reason enough to bring a peaceful conviction to our work, there are millions of people with anxiety disorders to consider. About 18% of U.S. adults have issues with anxiety, myself included.^[1]

Anxiety pulls the mind from the present to another moment, just out of reach. When we're anxious, we experience the tension of being in one time and place while thinking about another. Whether concerned for the future or replaying bits of the past, someone in this mindset might feel hurried, tired, agitated, or distracted. Like an overwhelmed multi-tasker, they need space to breathe and time for reflection.

The anti-calm culture

Responsive Navigation Patterns

1. Footer Anchor
2. Toggle Menu
3. Select Menu
4. Top Navigation



INSIDE CHERRY NOIR

GO BEHIND THE CAMERAS AT HOTEL NOIR AND DISCOVER THE EXCEPTIONAL TASTE OF GREY GOOSE CHERRY NOIR FLAVORED VODKA



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COMMERCIAL



CHERRY NOIR
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BEHIND THE SCENES
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OUR CRAFT

OUR VODKAS

COCKTAILS

FILM & TV

EVENTS

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1. Footer Anchor

PROS	CONS
<ul style="list-style-type: none">• Minimal navigation at top• One tap access to navigation• No dead ends• Comfortable for touch• No Javascript dependency• Scalable (high)	<ul style="list-style-type: none">• Anchor jump can be awkward• No smooth motion (might be expected on mobile)

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2. Toggle Menu

PROS

- Keeps user in context
- Smooth animation
- Minimal navigation at top
- One tap access to navigation
- Scalable (med)

CONS

- Animation performance
- Javascript dependency
- Potential dead ends
- Less optimized for touch

Five
Simple
Steps

The Icon Ha

by Jon Hic

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"Bold, beautiful,

3. Select Menu

PROS

- Minimal navigation at top
- Pulls up native controls
- Scalable (med)

CONS

- Lack of styling
- Handling second-level navigation
- Javascript dependency
- Multi-tap operation

MINNEAPOLIS

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Lou Rosenfeld

Ann Rockley

Dan Roam

Karen McGrane

Colleen Jones

Kevin Cheng

and many more...



Stay Connected

Get the latest Confab info every which way outside of a carrier pigeon.

Confab 2012 is SOLD OUT

By Erik Westra on Jan 30, 2012

It's official: Confab 2012 is sold out and the waiting list is now closed. If

4. Top Navigation

PROS

- Easy to implement
- No Javascript dependencies
- Single source order
- Scalability (low/med)

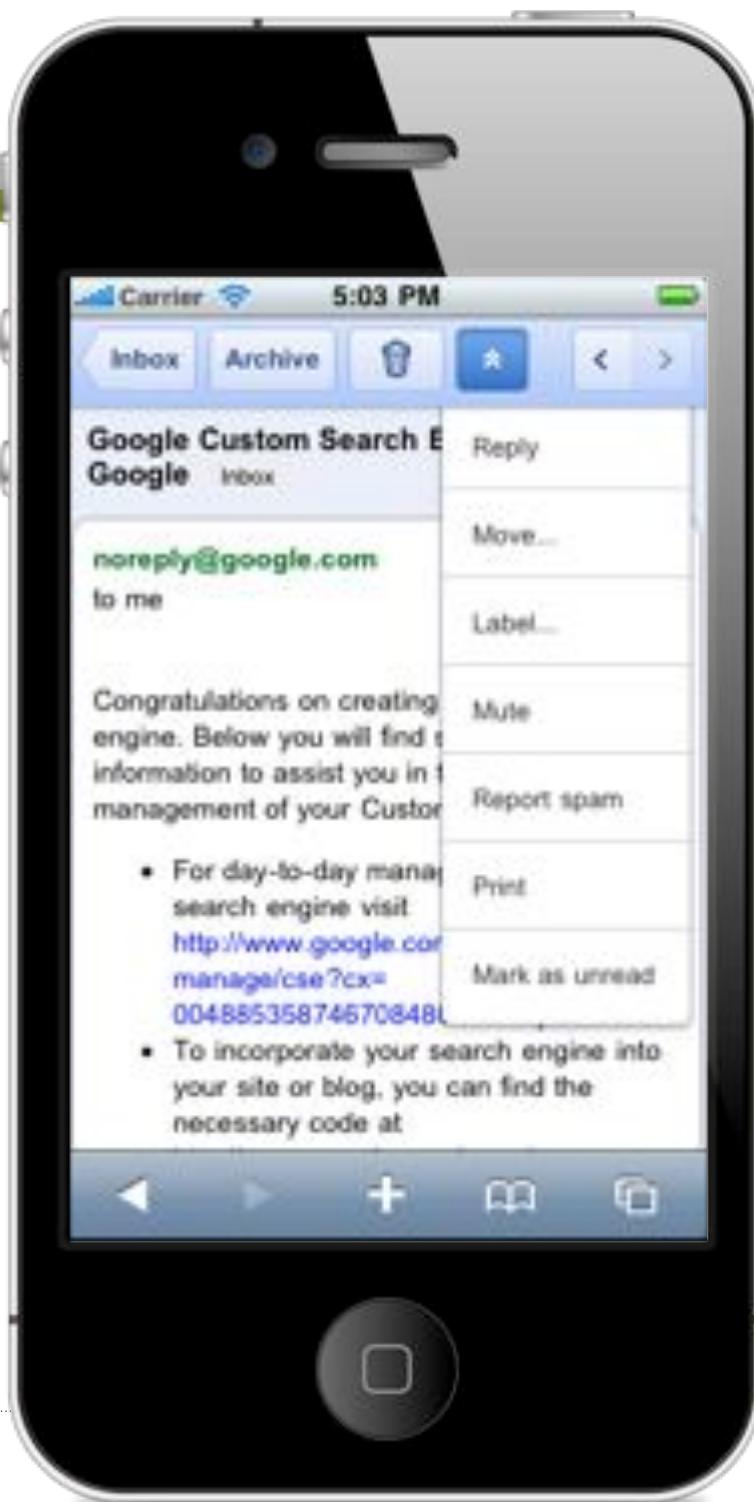
CONS

- Navigation first, content second (height issues)
- Touch target proximity
- Cross-device line-breaking issues

Responsive Navigation Patterns

1. Footer Anchor
2. Toggle
3. Select Menu
4. Top Navigation

In-Context Actions



Global Navigation

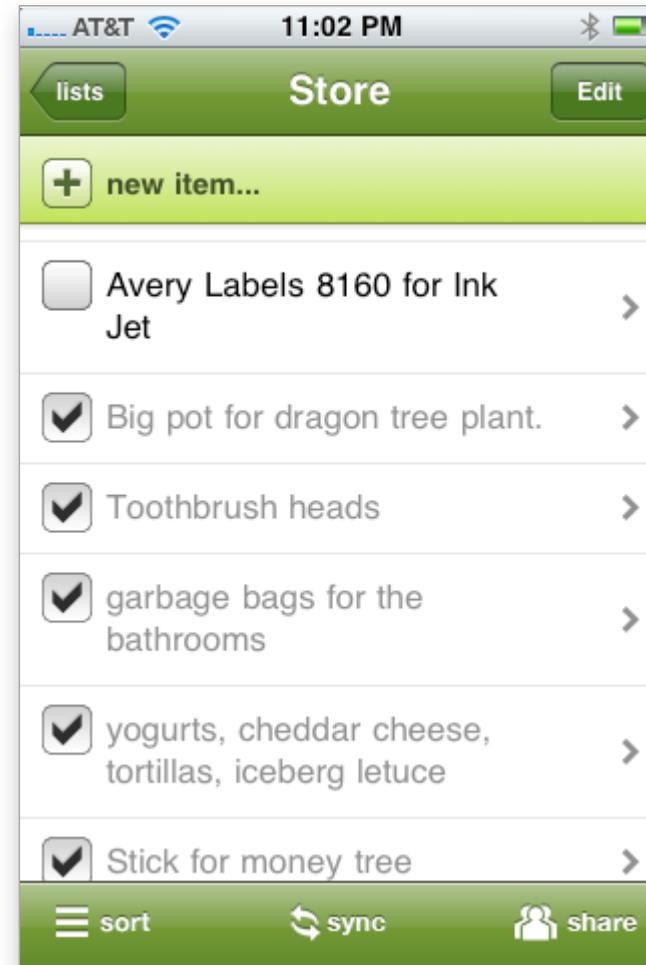
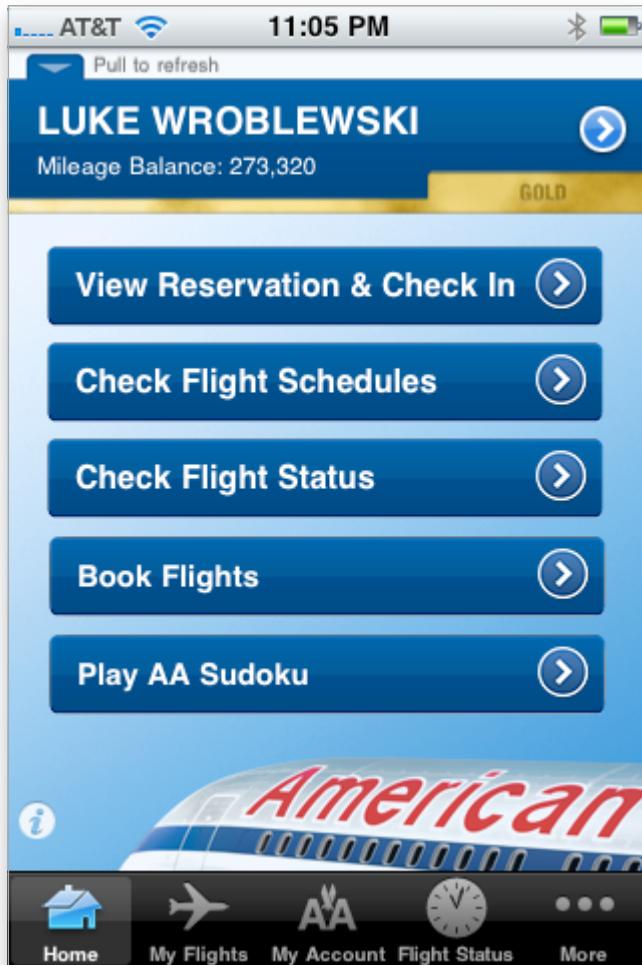


In Context Navigation

In Context Navigation



What About Fixed Position Menus?

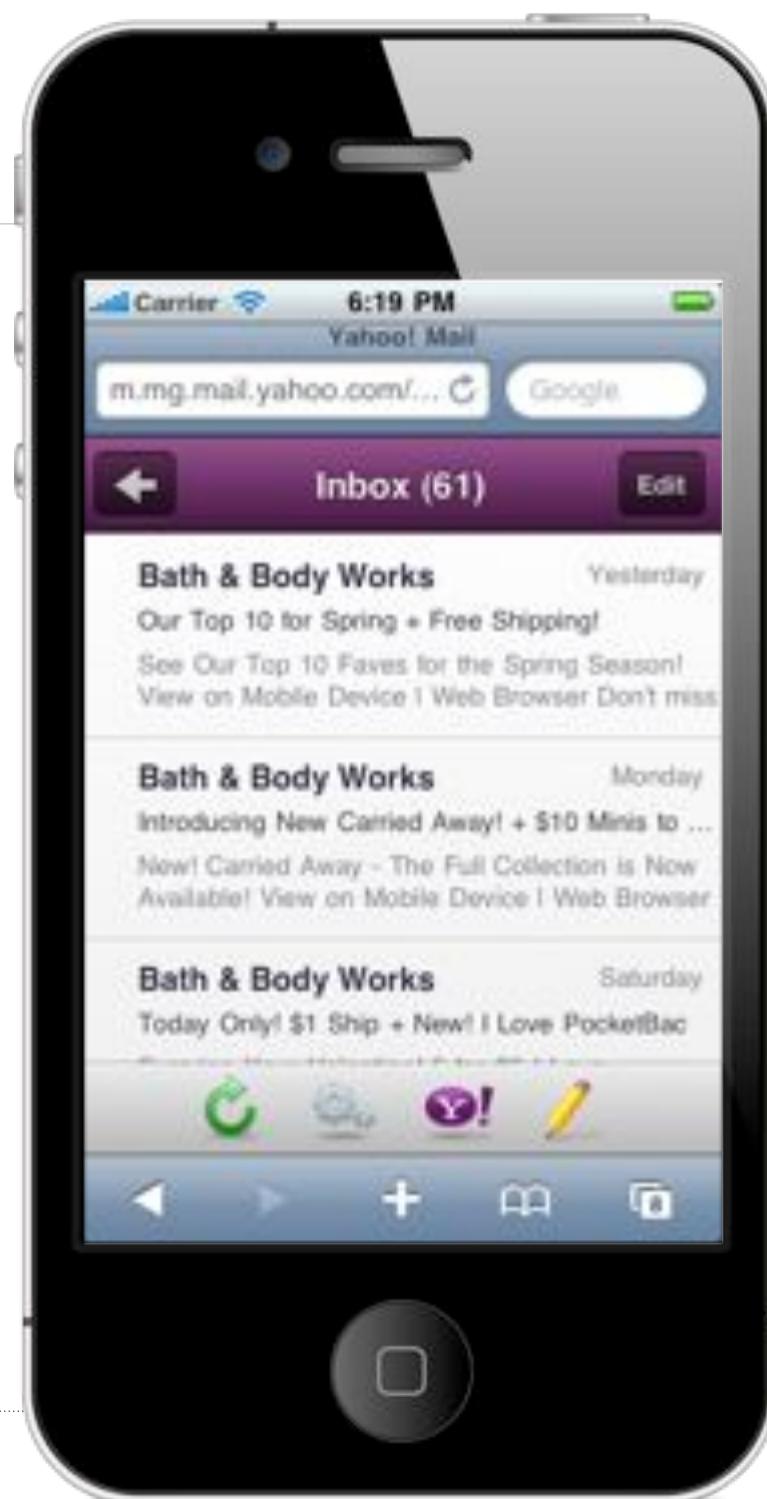




80-90% of people
are right handed

Fixed Bottom

- Requires Javascript
- Eats up Screen Space



Fixed Position Support

Mobile Safari	iOS4	iOS5
	treats as static elements & scrolls with rest of page	strong support

Android	2.1	2.2	2.3	3 & 4
	no support	awkwardly snaps fixed elements back when scrolled	supported but disabling page scaling is required	supported with decent performance

Fixed Position Support

Blackberry	5.0	7.0	Playbook
	supported but fixed elements are jittery	supported	supported but text is jagged in fixed position elements

Other Browsers	Opera Mobile	Opera Mini	Firefox Mobile	Windows Phone	Amazon Silk
	awkward snap & miscalc	no support	supported on version 6.0+	Ignore & treat elements as static	supported but disabling page scaling is required

Fixed Bottom

- Requires Javascript
- Eats up Screen Space
- Physical Control Proximity



Physical Controls Below Screen



System Controls

“I’m always hitting that home key by mistake rather than the space bar and so exit out of what I’m typing.”



Android Design

Don't use bottom tab bars

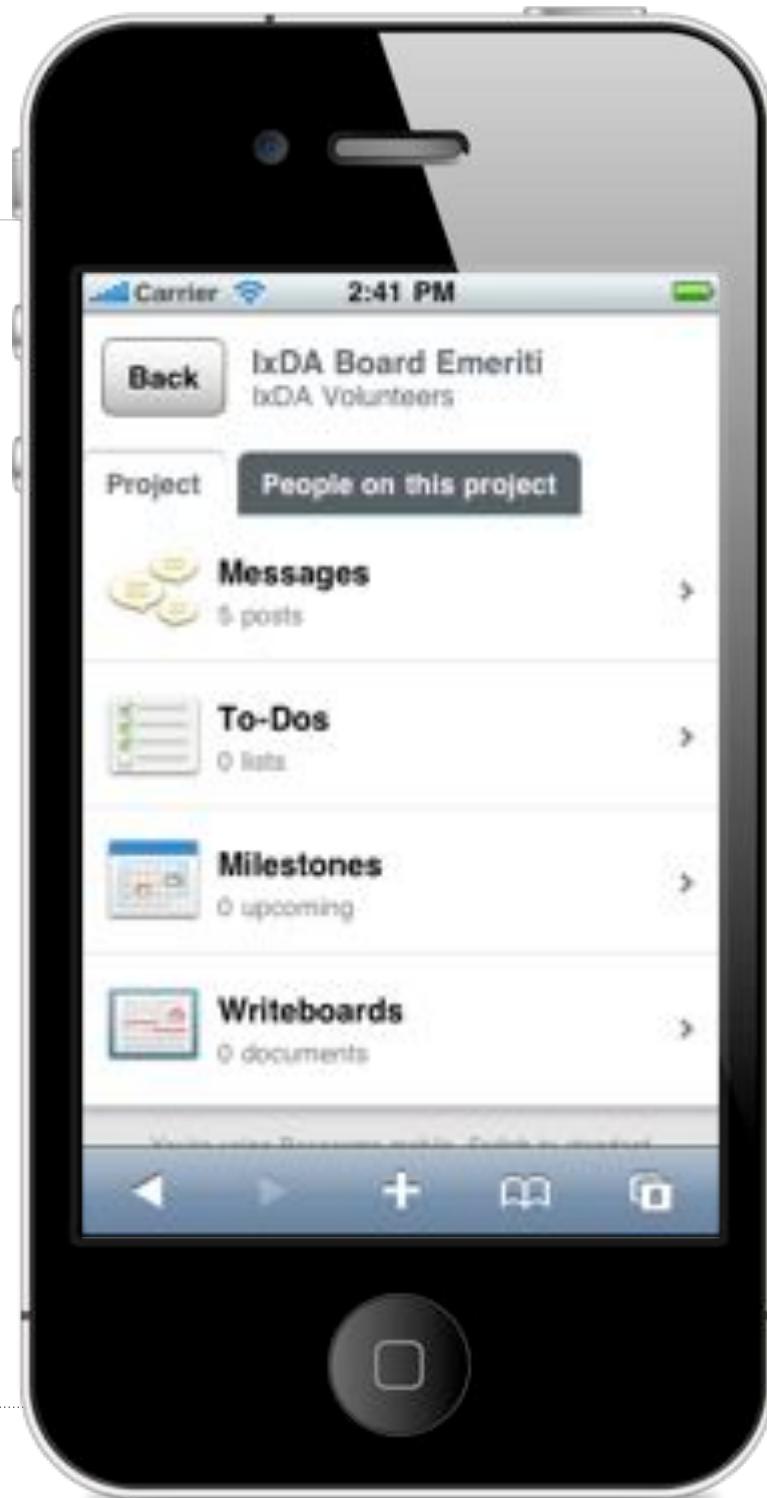
1. Other platforms use the bottom tab bar
2. Android's tabs for view control are shown in action bars at the top of the screen



Getting Back

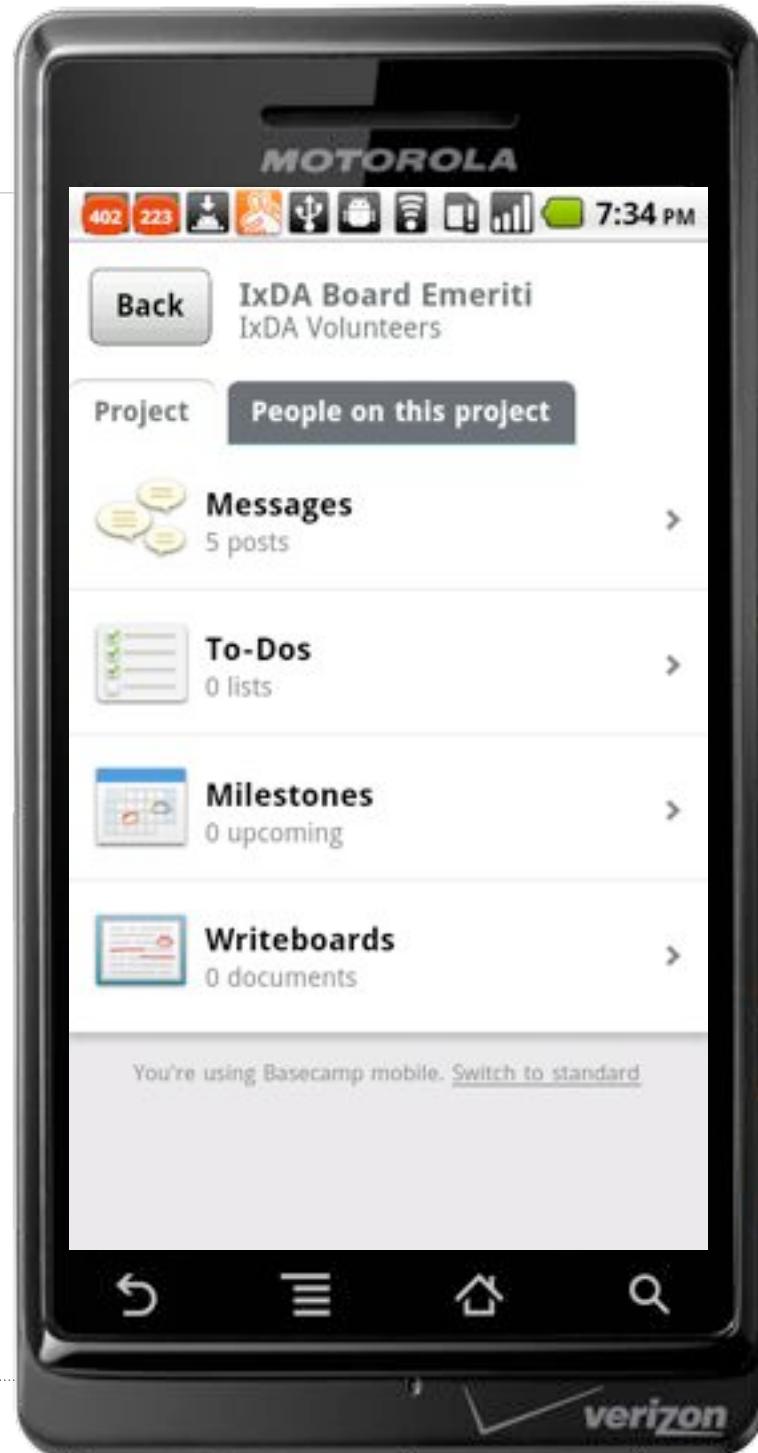
Back Button

Back Button



Getting Back

Back Button

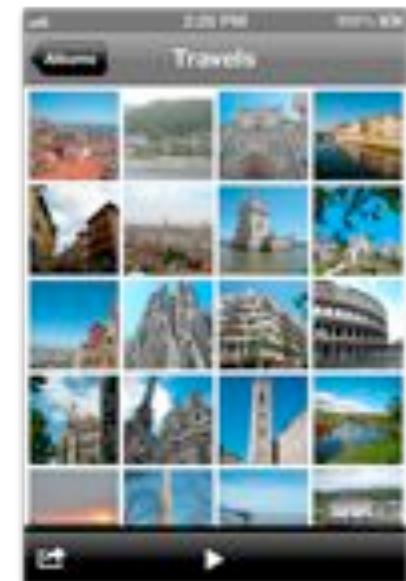
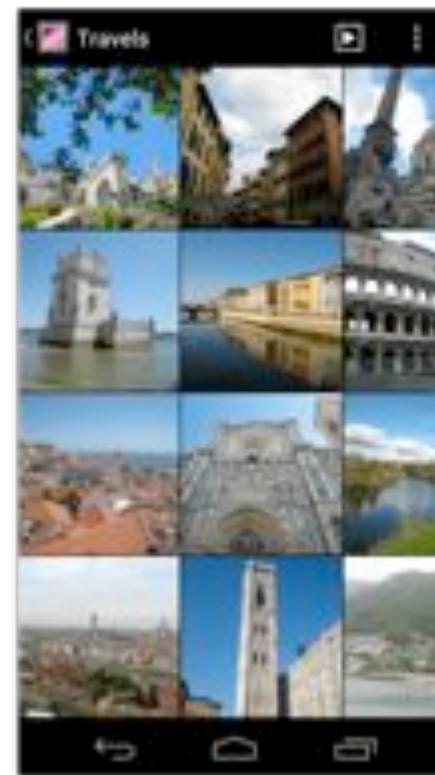


Back Button

Android Design

Don't use labeled back buttons on action bars

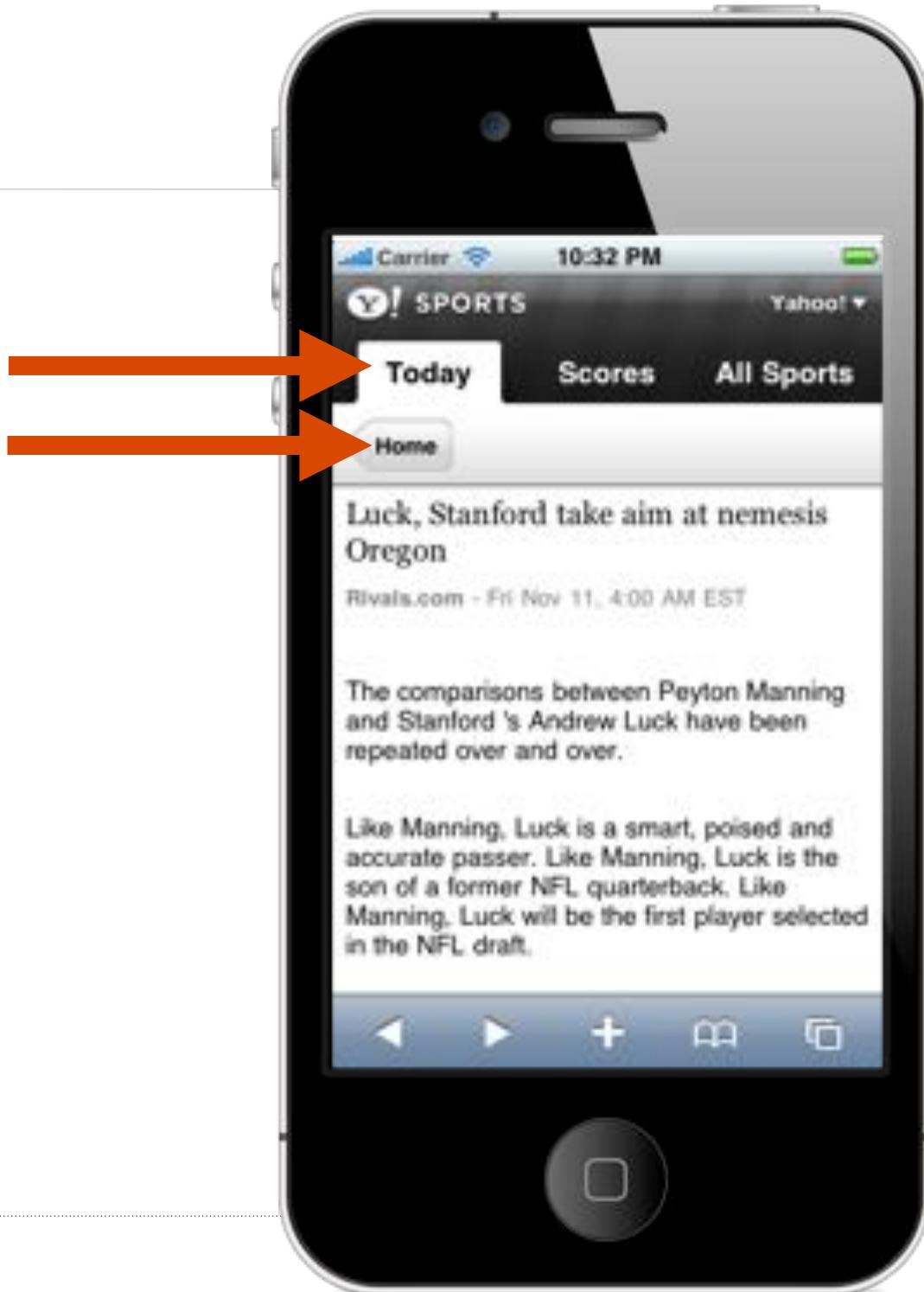
1. Other platforms use an explicit back button with label
2. Android uses the main action bar for hierarchical navigation & the navigation bar for temporal navigation



Getting Back



Getting Back



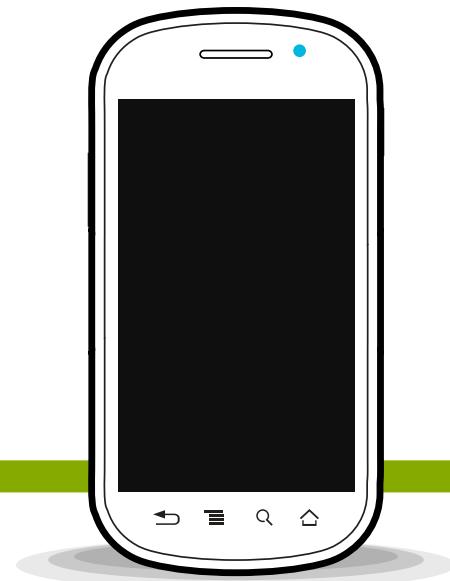
Getting Back



NAVIGATION ELEMENTS

- Avoid excessive navigation menus
- Top navigation links for quick access
- Bottom menu for pivoting & exploring
- In context actions & navigation
- Avoid back buttons & fixed bottom positioning

ORGANIZATION



- 1. Mobile Behaviors
- 2. Content First
- 3. Navigation Elements
- 4. Clarity & Focus



Partial attention requires focused design

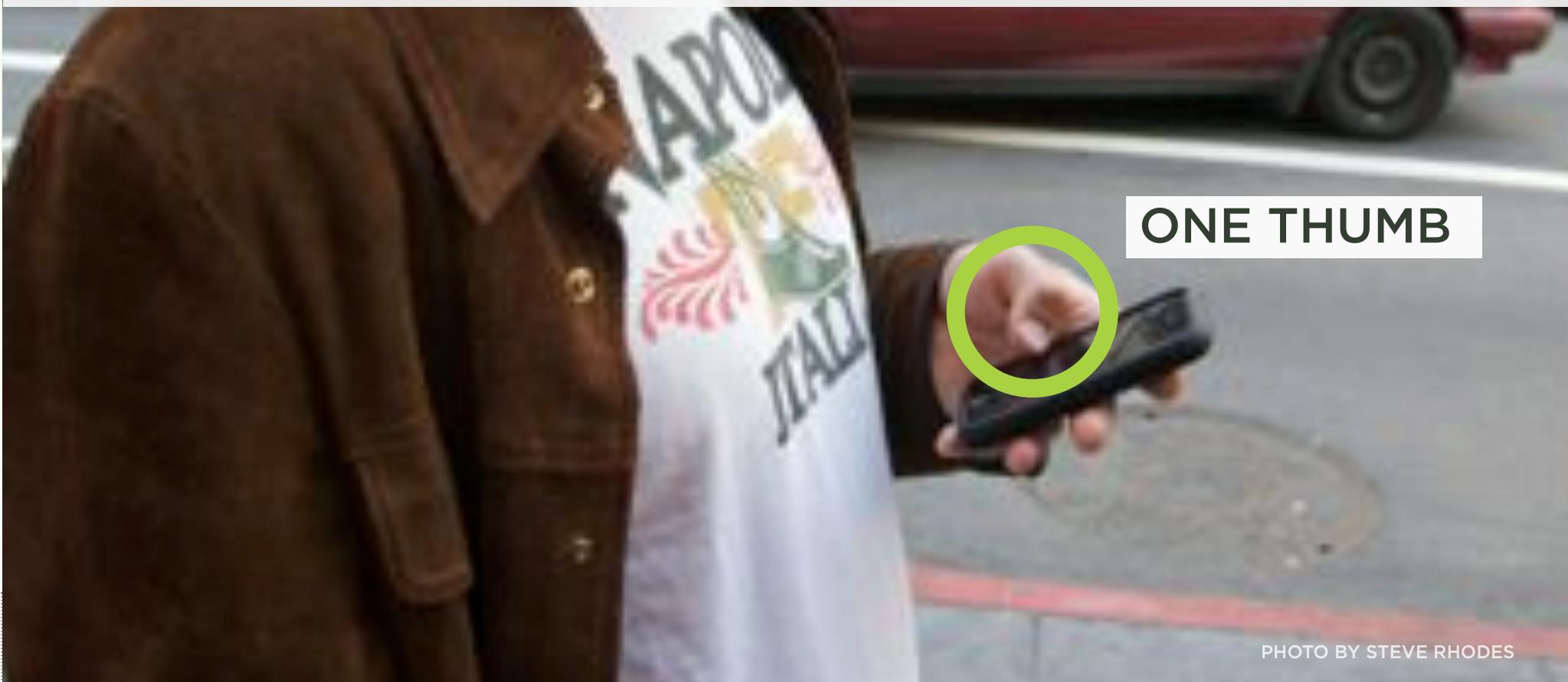


PHOTO BY STEVE RHODES

Maintain Clarity

Single Navigation Action



Minimize Errors

Content

“47% of mobile users tap on ads by mistake.”

Content



CLARITY & FOCUS

- Minimize amount of navigation required
- Focus on task at hand

Exercise



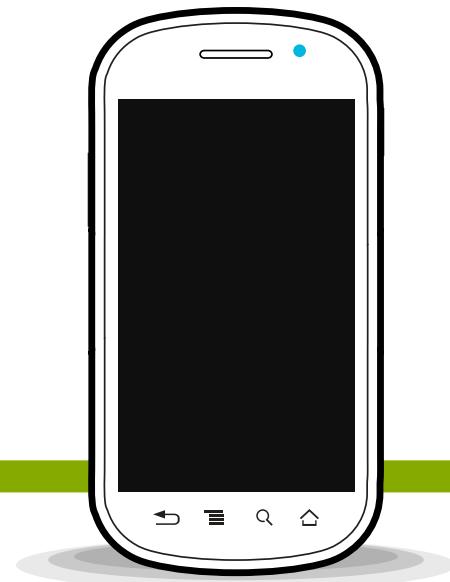
How do mobile use cases intersect with?

- Your customer's needs
- Your business goals

Sketch out your mobile Web experience start screen. Focus on:

- Lookup/Find, Check In/Status, Explore/Play, Edit/Create
- Content first, navigation second
- Navigation elements
- Clarity & focus

ORGANIZATION



- 1. Mobile Behaviors
- 2. Content First
- 3. Navigation Elements
- 4. Clarity & Focus

THANKS



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Brief books for people who make websites

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6

Luke Wroblewski

MOBILE FIRST