LUKE WROBLEWSKI AN EVENT APART 2012





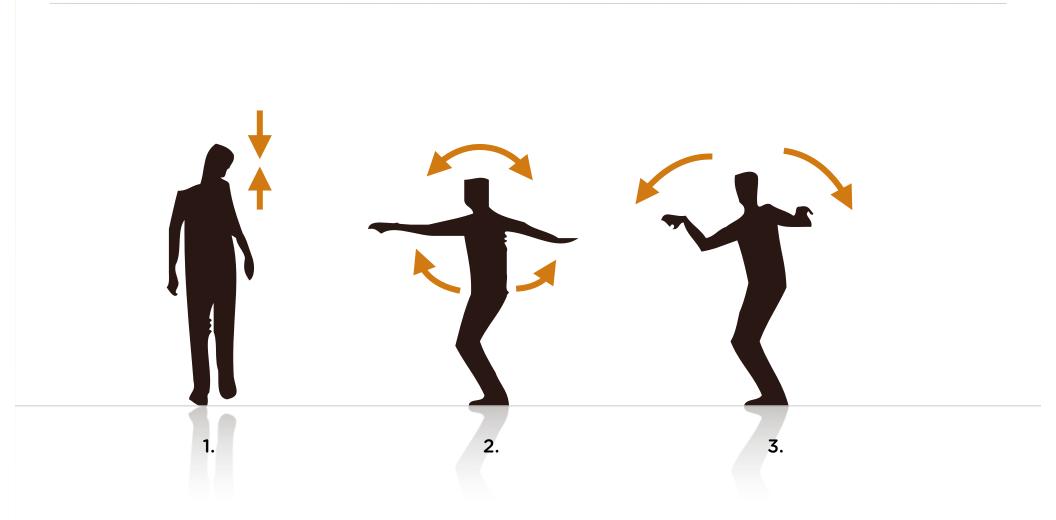






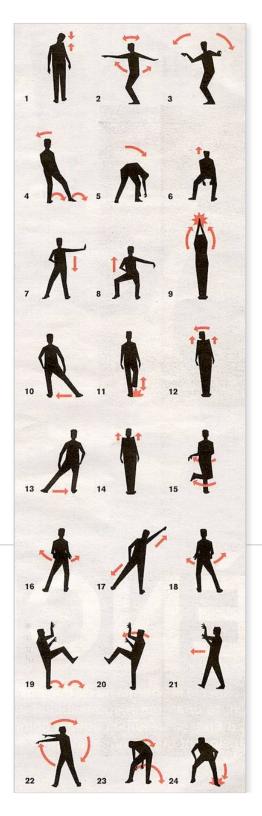
Photos: Kushpel Kirill

Let's Learn a New Move...





Small new moves can add up to very big things.



Why do I need new moves?

- Mobile Web Growth
- Mobile is Different

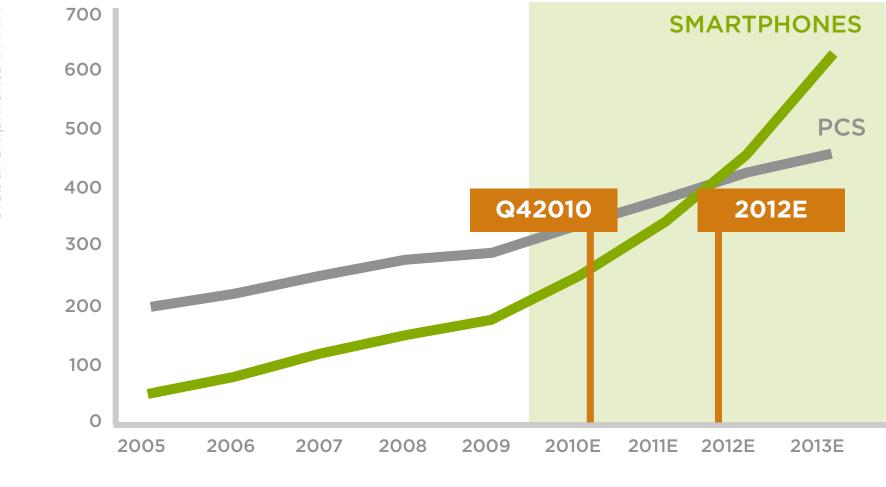


MOBILE WEB GROWTH

Photo by Matthew Field

PC vs. Smartphone Shipments

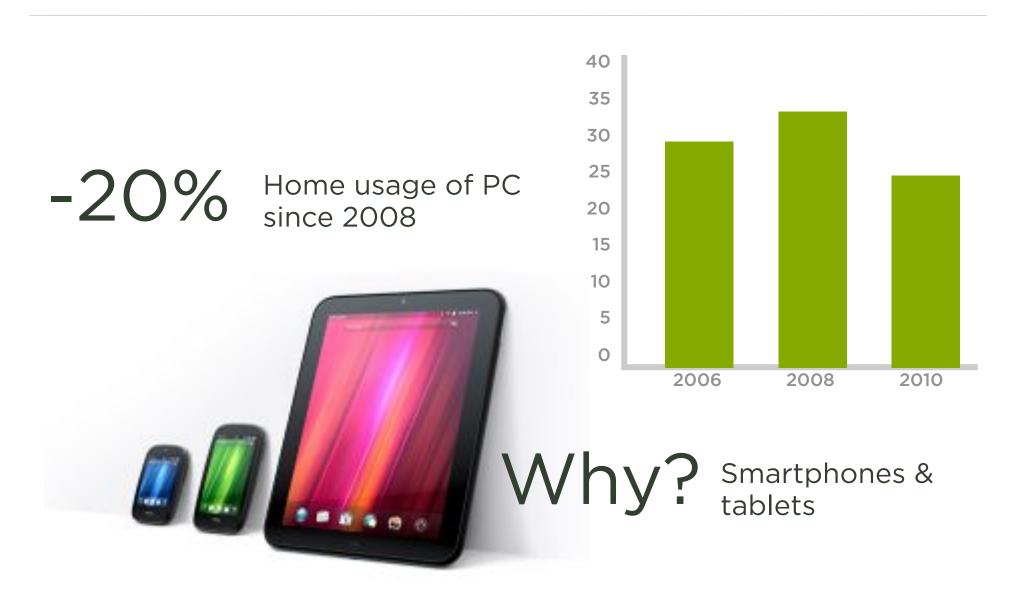
Smartphones passed PC shipments in Q42010





Source: http://bit.ly/glqKm9 Source: http://bit.ly/q5ktGa

Shift in Usage





Source: <u>http://read.bi/efrmCj</u>

Shift in Usage





Visitors to Web--7% based email sites declined

+36% Visitors accessing email on mobile devices increased



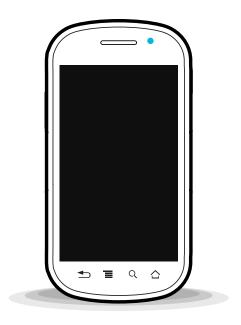
Source: http://bit.ly/hJdtty

SMARTPHONES

Don't most people just use native mobile applications to access the Internet?



TWITTER



55% of users on mobile

40% of tweets from mobile

16% of new users start on mobile

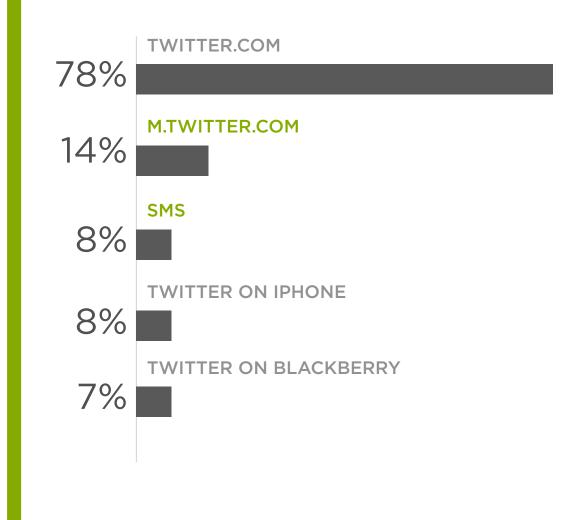


Source: <u>http://bit.ly/x0ZVZM</u> Source: <u>http://bit.ly/sV01WV</u>

Source: http://bit.ly/tv0KnK 10

TWITTER







Source: <u>http://bit.ly/xOZVZM</u> Source: <u>http://bit.ly/sV01WV</u>

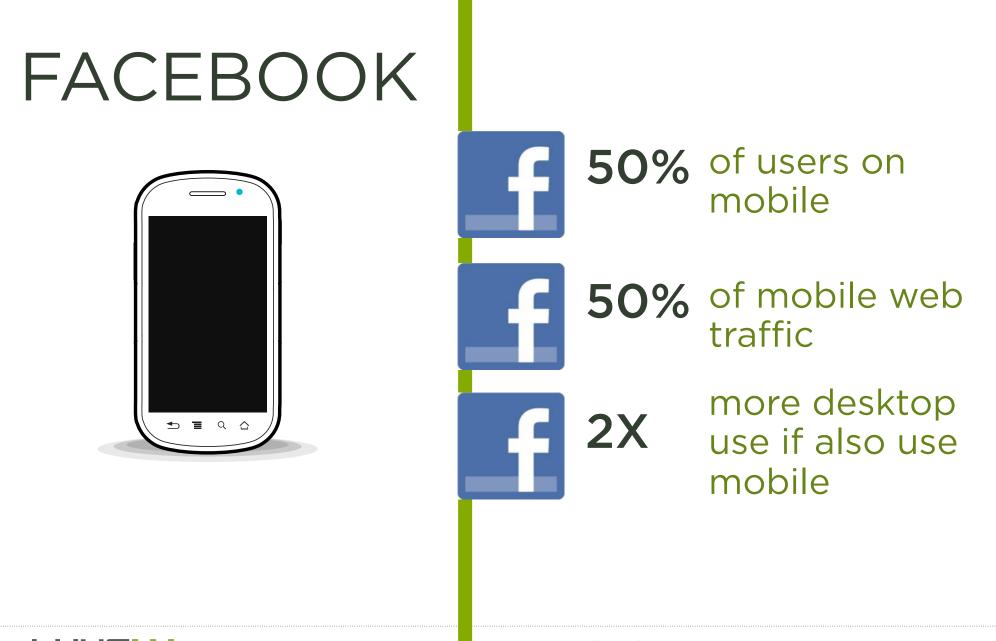
Source: http://bit.ly/tvOKnK 11







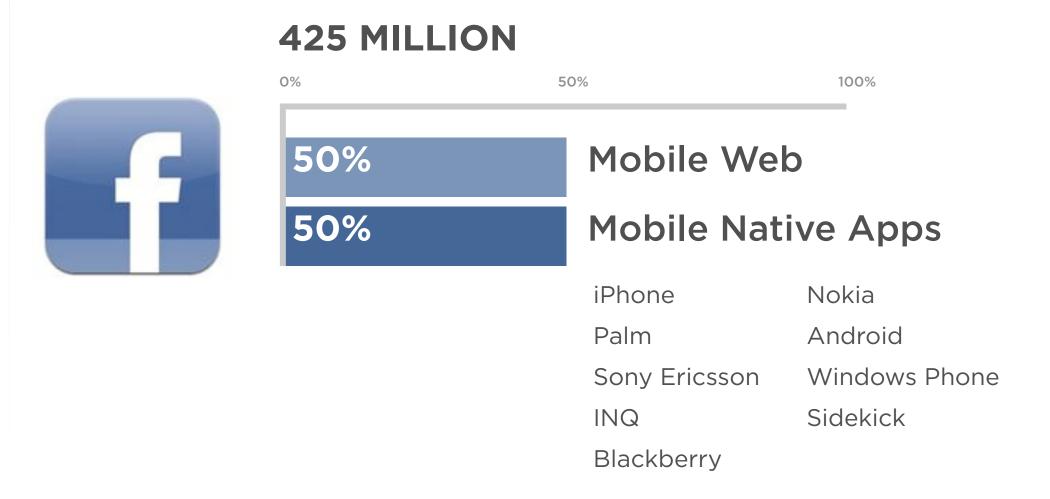




IDEATION + DESIGN

Source: <u>http://bit.ly/x0ZVZM</u> Source: http://bit.ly/sV01WV

Facebook Usage













Mobile Web Usage



- Mobile phones will overtake PCs as the most common Web access devices worldwide by 2013
- 600% growth in traffic to mobile websites in 2010
- Avg smartphone user visits up to 24 Web sites visits per day

1		
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-	/	

- Top 50 websites constitute only 40% of all mobile visits
- Opera Mini traffic up 200% yr/yr



Even if you have native apps...













Instant updates, fixes, & testing
Not playing in anyone else's backyard
Great way to get started with mobile

Shift from PCs to mobile devices

Including the Web

- Even if you have an app...
- Chances are you're not on every platform
- Even if you are URLs still need pages

MOBILE IS DIFFERENT

Photo By Michael Beserra





Big Screen

Power Supply

Consistent Network

Keyboard

Mouse

Chair

Desk





Small Screen





Battery

INTENSELY PERSONAL INTENSELY





Fingers



Sensors

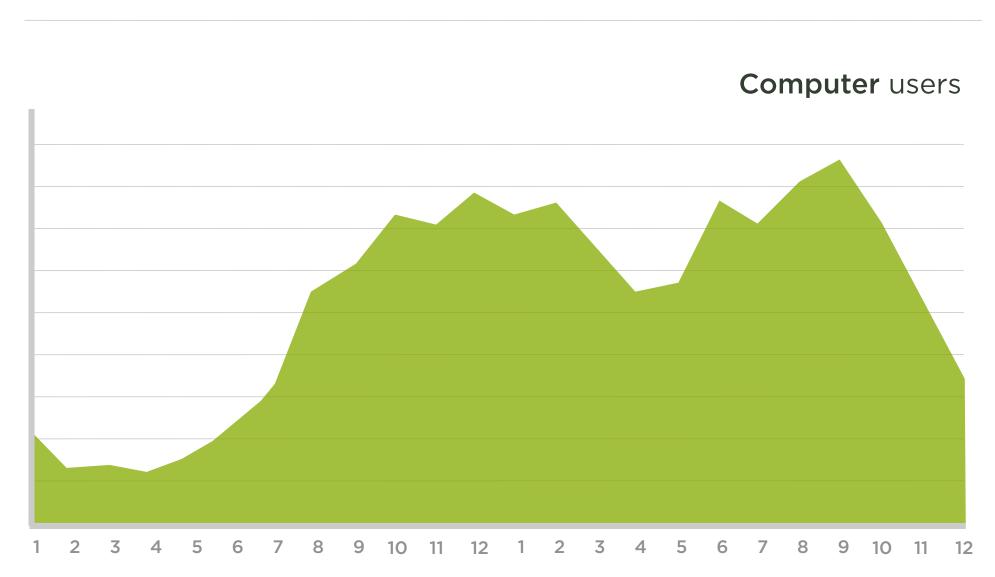




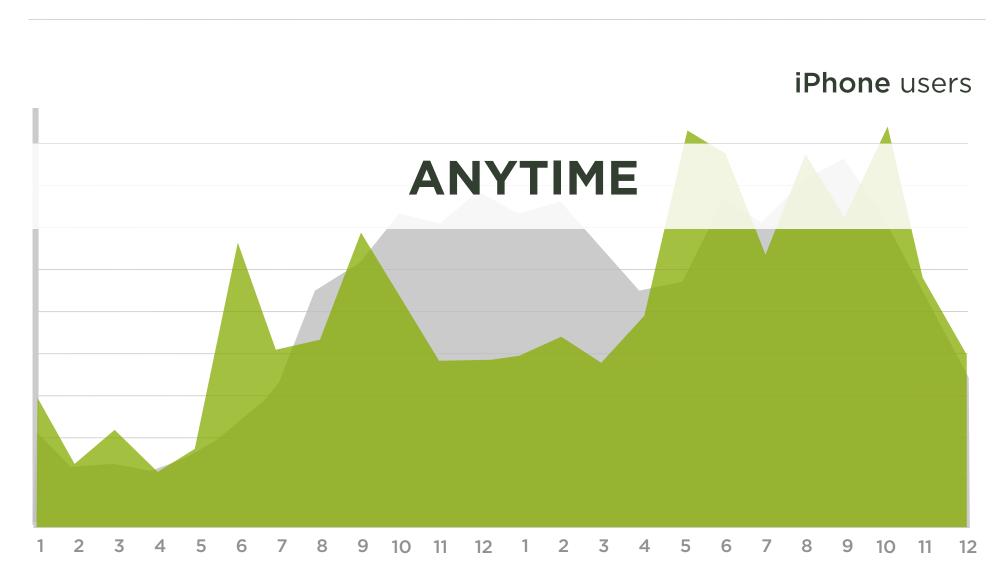
EVERYWHERE & ANYWHERE

84% at home80% during misc. times74% waiting in lines64% at work

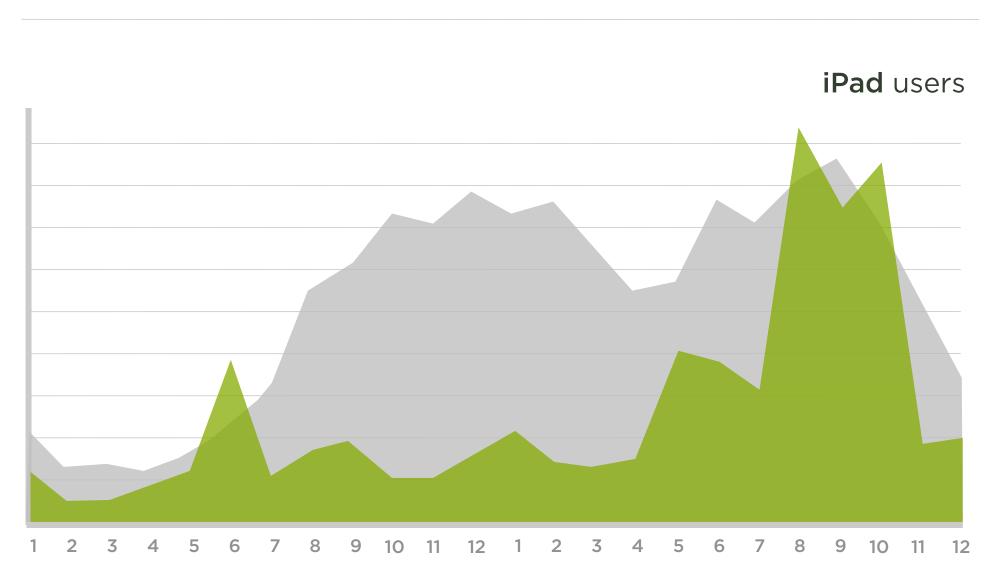
Photo by Steve Rhodes



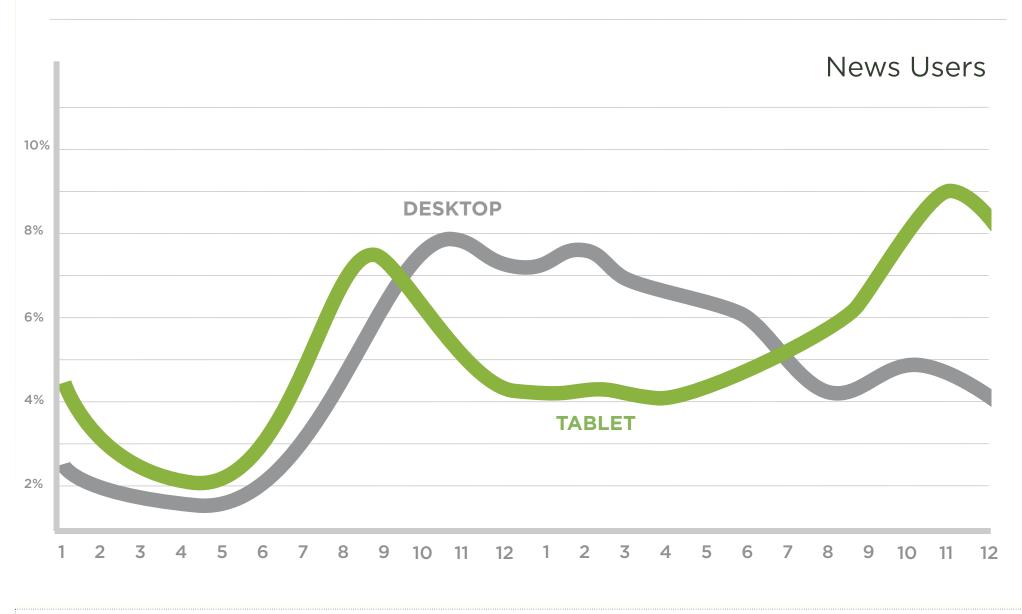






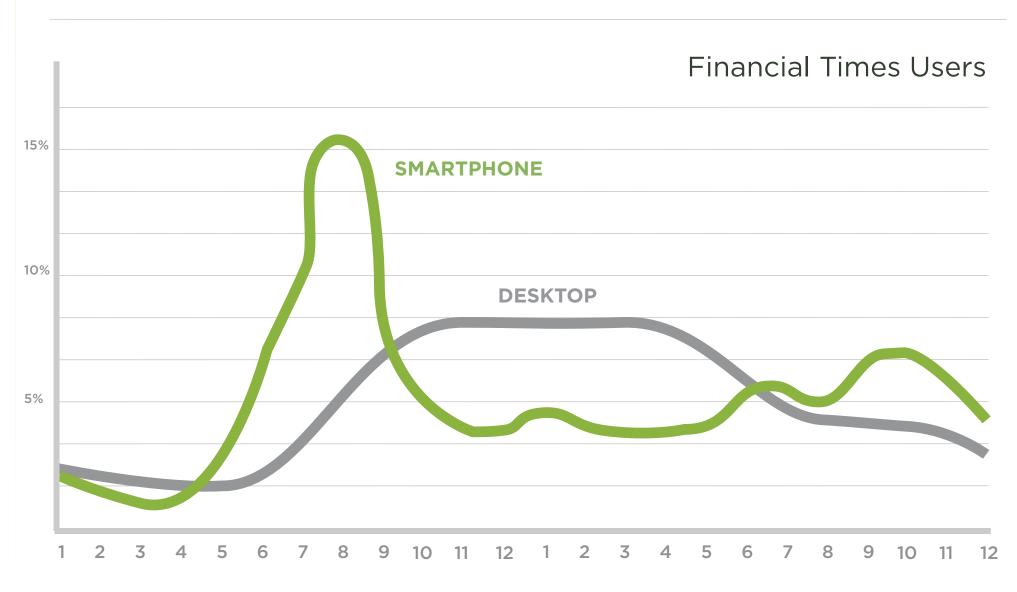






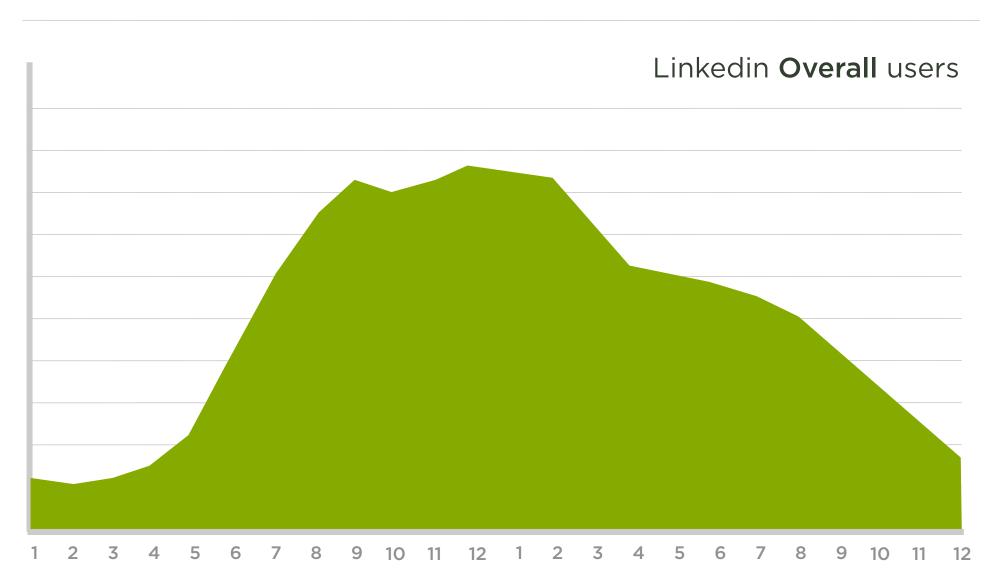


Source: <u>http://blog.comscore.com/2011/11/the_rise_of_digital_omnivores.html</u>

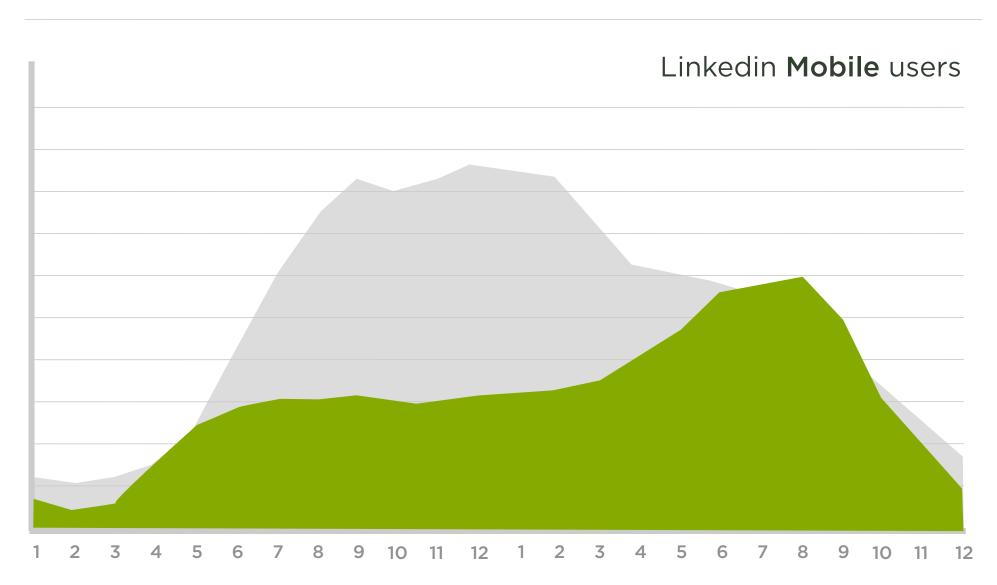




Source: <u>http://techcrunch.com/2011/11/18/financial-times-mobile/</u>

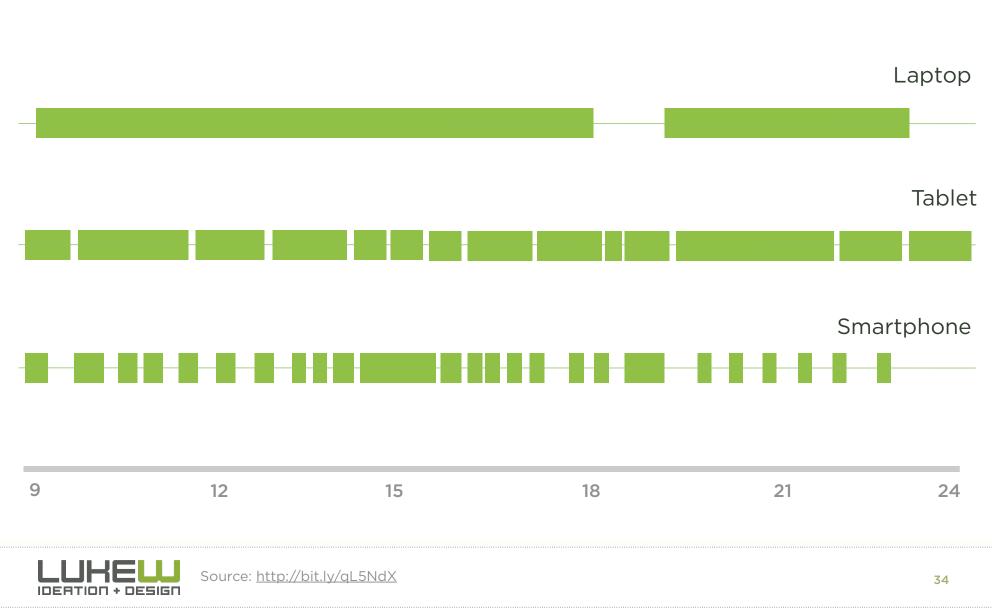












40% of searches come from 8% of users



- 40% of all Yelp searches come from their mobile applications which had 5.7 million unique users in Feb 2012
- That month Yelp had 66 million monthly unique users around the world



Source: <u>http://bit.ly/hw0Xtb</u>

Additional Usage



- Every second a consumer calls a local business and generates driving directions from a Yelp mobile app.
- Zillow.com
- Viewing active listings 45% more often from mobile devices (audience is primarily active buyers, on location or scoping out neighborhoods)

facebook.

 People that use Facebook on their mobile devices (425M active) are twice as active on Facebook than nonmobile users.



Source: http://www.lukew.com/ff/entry.asp?1131 Source: http://www.lukew.com/ff/entry.asp?1178

MOBILE IS DIFFERENT

- Technical capabilities & limitations
- Ergonomics of palm-sized devices & touch
- Used anywhere & everywhere
- Distinct times & behaviors





- Mobile Web Growth
- Mobile is Different

Photo by donkeycart



MOBILE WEB DESIGN MOVES

- 1. Organize Yourself
- 2. Use your Head
- 3. Bottom Out



Photos: Kushpel Kirill

ORGANIZE YOURSELF





Photo by Guillo Solano

URGENT REPETITIVE BORED

GOOGLE MOBILE

PHOTO BY HELLO TURKEY TOE

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





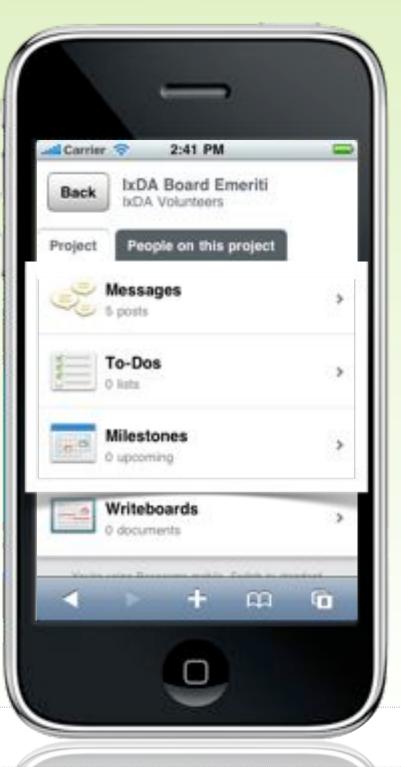
Check In/Status



Explore/Play



Check In/Status



Edit/Create

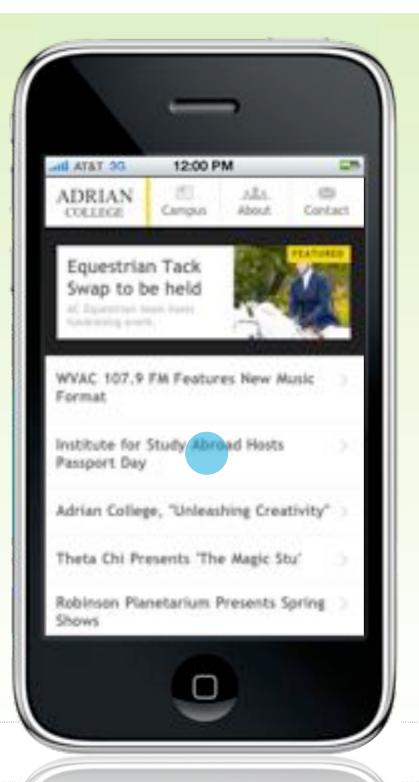


Marketing

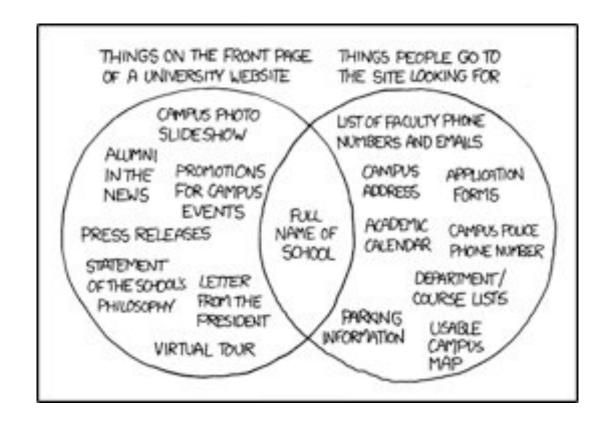


Menu









"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."

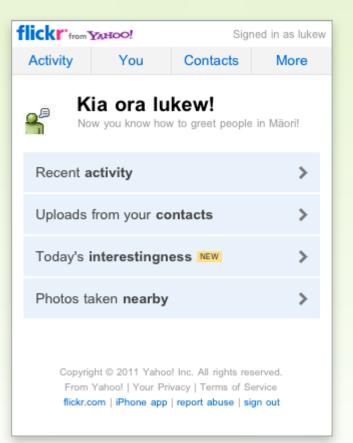


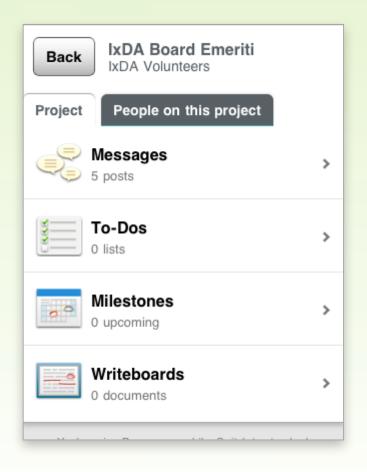
MOBILE FIRST

GROWTH = OPPORTUNITY
 CONSTRAINTS = FOCUS
 CAPABILITIES = INNOVATION



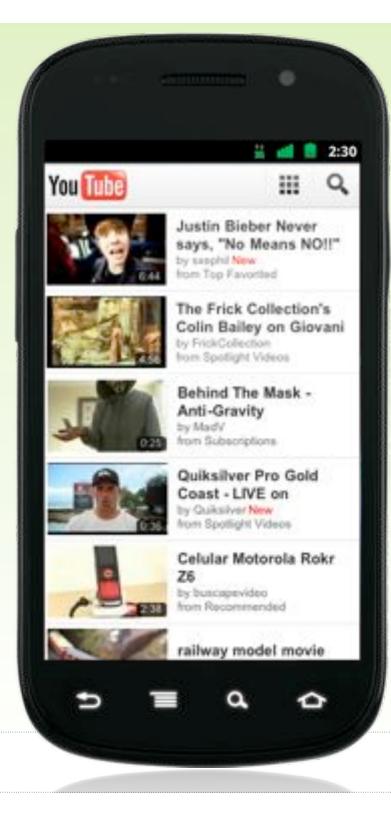
Navigation First, Content Second







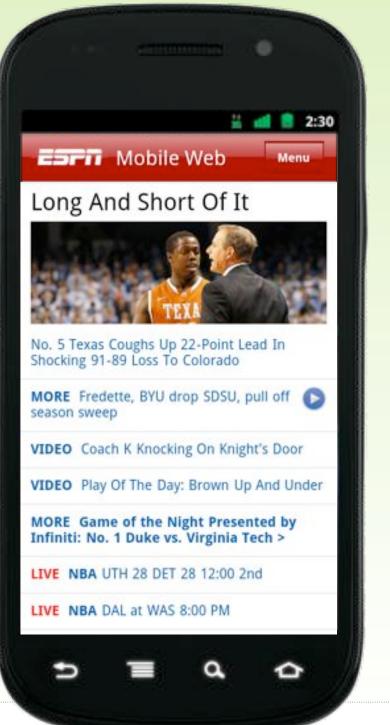
Minimal Navigation



Maximum Content

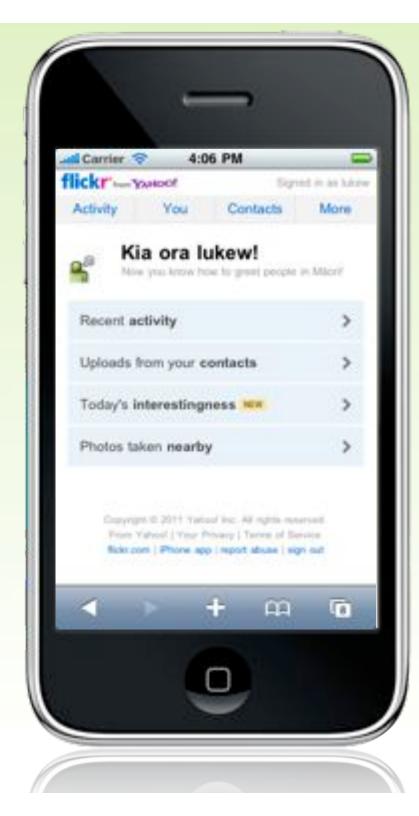


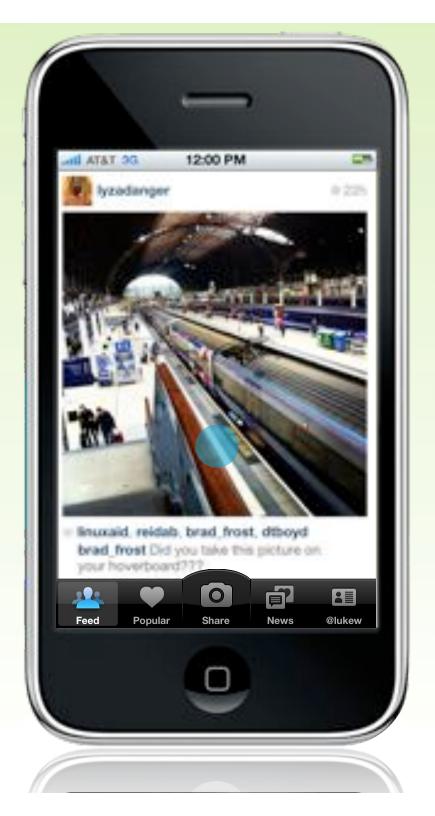
Minimal Navigation



Maximum Content

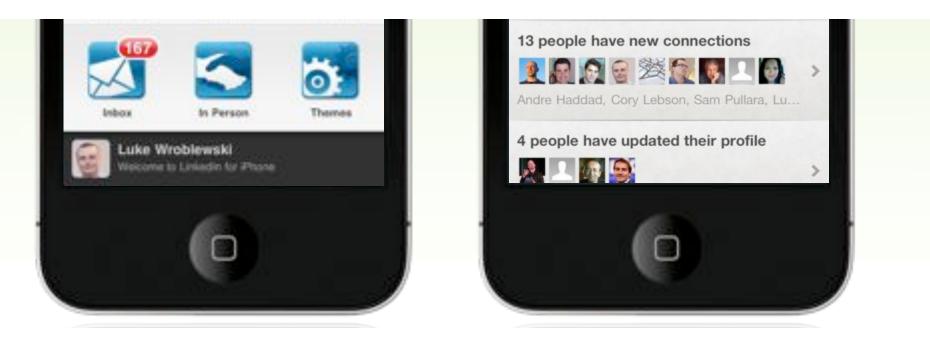








"In the new app, we present **relevant content up-front** and instantly notify users of new invitations and messages. In other words, we remove the friction of a dashboard and provide **immediate value on app launch**."



Check In/Status



	12:00 PM	
		16°
upitala Peterany	540, 2011 M 4 Olym	
Wind: NW @ 4-8		
Base Depth: 13		
Snow last 72 hr		
Road Condition	III. Piowika	
Lift Status		
Pacet Scheduled to		0am-4;00pm
		Can-3,30pm
Molly's Scheduled to	Operate	

Navigation Second

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	Timberline	Nountain I),	and which a	
	All a	Event		۲		
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		Timb	rrine Full Site	•		
	BOOM AVAILABILIT	CHOK-N	NOVER THE ADULTS CON		A CONTRACT	
	EXPLORE + Photos & Vickos from	our Tenbertine Community	HEND + April 100 C	and a		
Timberline	Play on th	e Mountain	Learn at Timberline	Connect	with Timberline	Explore the Gallery Plates and Views
n Anar'n Direar Sarbas Tra MgM	UK Paster & hits Trail Map Biolog & Sinous Mountain Sales	or the	White 10.11 Programs & Prong Year First Term That Langer First Decigit Sense:			Company Info
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ler-toop mittler	Survivas (Mild.) Magin Mila Sky	Pietes 20111				

TICHETS \$65,272,3166 | RESERVATIONS \$60,547,1406 | GROUP SALES \$60,272,3051 | SHOH PLONE \$50,222,3211

20 2011 NUK and Company, the "Miterife Later and by Area. Al Optio Inserved.

Visit

Taxan David Taxan

Carigo Russo Warran

Gund



"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 27 Pavorite 13 Retweet 1 Reply

Retweeted by libra 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

10:00pm Mar 4th 2011 via Twitter for Mac in reply to grige

Scott Jeh

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

10-K3pm Mar 4th 2011 via TweetDeck

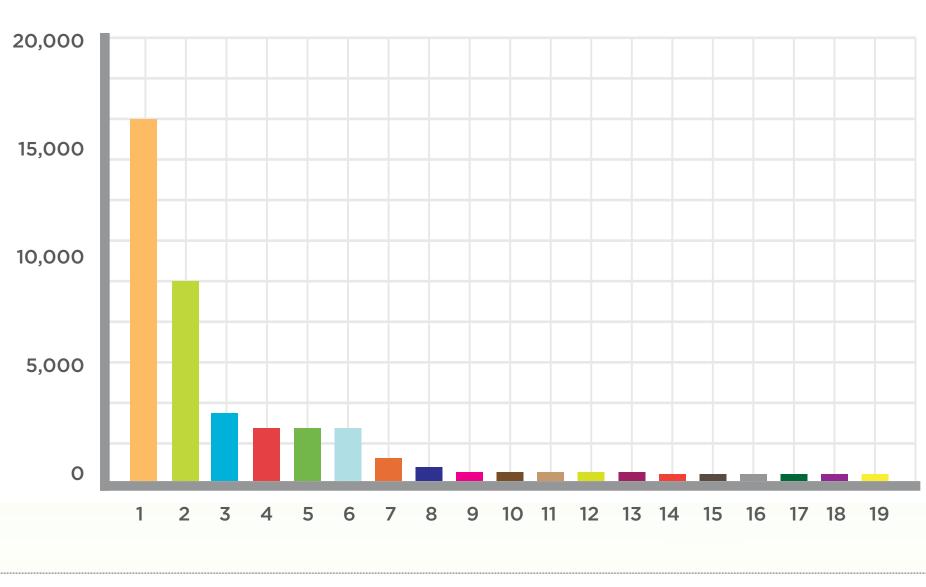
811 [4]

#10.1xl





Top Pages by Visit





ORGANIZE YOURSELF

- Know what mobile is uniquely good at
- Adjust site organization accordingly
- Content first, navigation second
 - Don't dumb it down for mobile

Photo by Guillo Solano

USE YOUR HEAD

-Photo by re-Verse

Navigation Elements

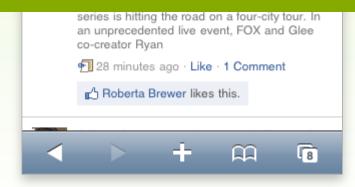




Navigation Elements



lukew.com/touch



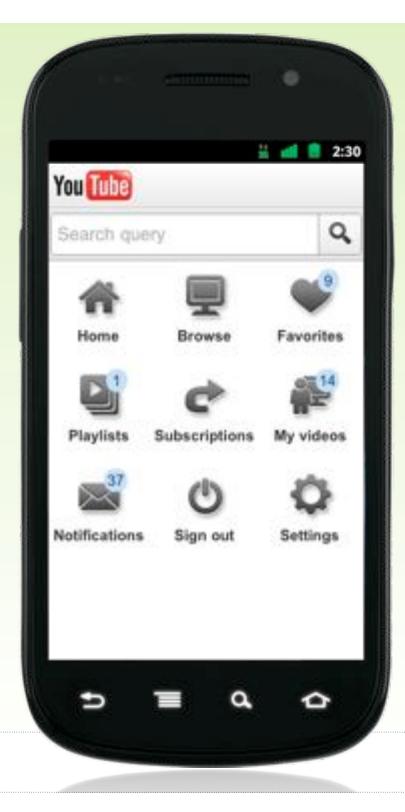


5 NAV ELEMENTS



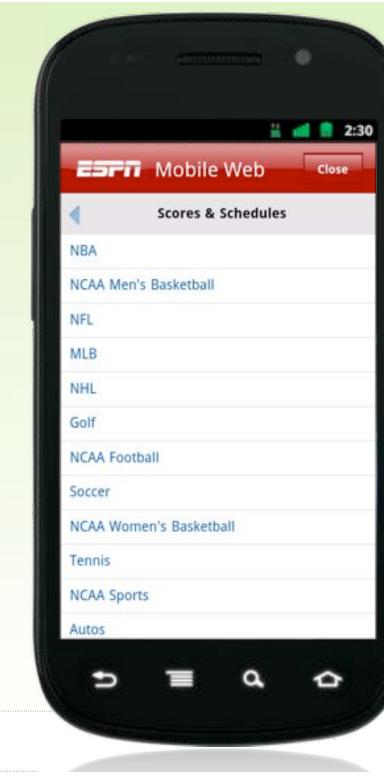
4 NAV ELEMENTS





Full Navigation Page





Top Navigation Overlay



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 N	NBA Score	eboard			
FEB 27, 3	2011 UPDA	TED 7:16	PM ET		
What'	s Hot				Ţ
News	& Analy	ysis			Ţ
Video					Ţ
Sport	5				Ţ
Sport	sNation				Ţ
Podce	nter				•
Favor	ite Tear	ns			•
Fanta	sy				
More	from ES	5PN			-

Privacy Rights

You Tube



Justin Bieber Never says, "No Means NO!!" by sxephil New from Top Favorited

Q



The Frick Collection's Colin Bailey on Giovani by FrickCollection from Spotlight Videos



Stoners' New Anthem by collegehumor New from Top Favorited



The Harvesters by metmuseum from Spotlight Videos



Behind The Mask -Anti-Gravity by MadV from Subscriptions

Enc





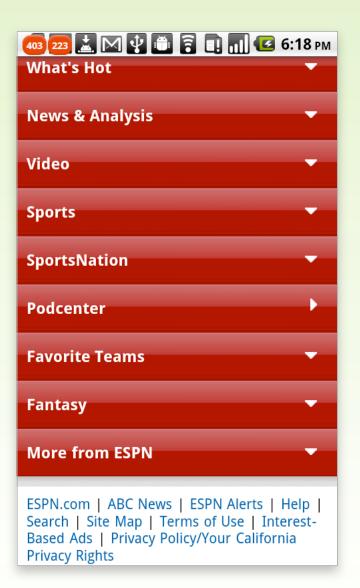
railway model movie by scs0360 from Friend Activity



Oscar Host James

Duplicative Menus

<u>8 402 223 🚵 😲 🛅 🗟 🛄 📶 </u> 6:16 рм
Close Close
ESPN Mobile Web Home
Recently Visited
Scores & Schedules
News
Analysis
Sports 🕨
Fantasy
Podcenter
scoring list
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





Bottom Navigation Menu

Carrier 🗢 4:46 PN	
LOAD MORE UPD	AFES_
	A TOP
Search Bagcheck	
HOME	>
EXPLORE	-
PEOPLE	>
CREATE A BAG +	>
C BACHECK HELP TOPA	S PULL SITE
∢ > +	щ (о

Top Navigation Link



Best of Both Worlds?

Minimal Navigation

No Duplicative Menus



Bagcheck	<u>_</u>
Big Picture Interface Design Books LUKE WROBLEWSKI'S BOOKS BAD	
While there's lots of great books and bolts of interface design, the I've found that take a "big picture (show more)	re's only a few
15 COMMENTS SHARE	EDIT BAD
9 means	
By Bruce Sterling Bruce Sterling is a sci author turned tempors professor and perman the the huma condition	ary design ent student of
	▲ TOP
Search Bagoheck	
HOME	>
PROFILE	>
EXPLORE	5

Just an Anchor Link

Pivot & Explore



80-90% of people are right handed



Source: Tapworthy: Designing Great IPhone Apps By Josh Clark Source: <u>http://www.kickerstudio.com/blog/2011/01/activity-zones-for-touchscreen-tablets-and-phones/</u>**72**

USE YOUR HEAD

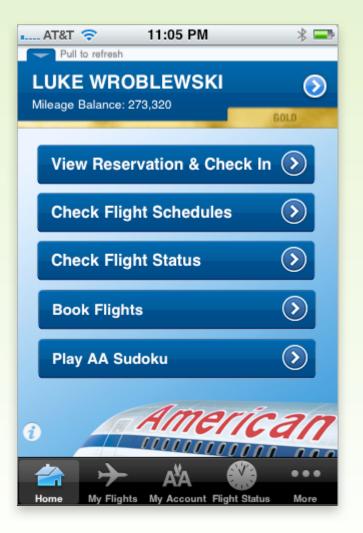
- Avoid excessive navigation menus
- Top navigation links for quick access
- Page bottom for pivoting & exploring

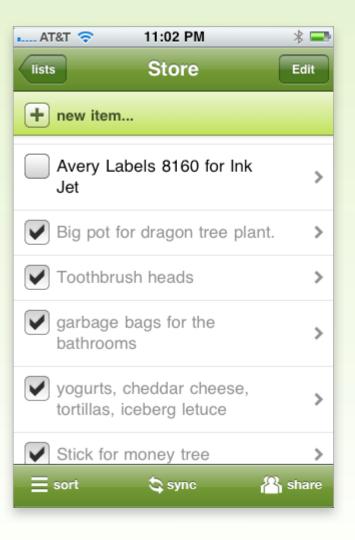


BOTTOM OUT

Photo by re-Verse

What About Fixed Position Menus?











Source: Tapworthy: Designing Great IPhone Apps By Josh Clark Source: <u>http://www.kickerstudio.com/blog/2011/01/activity-zones-for-touchscreen-tablets-and-phones/</u>⁷⁶

Fixed Bottom

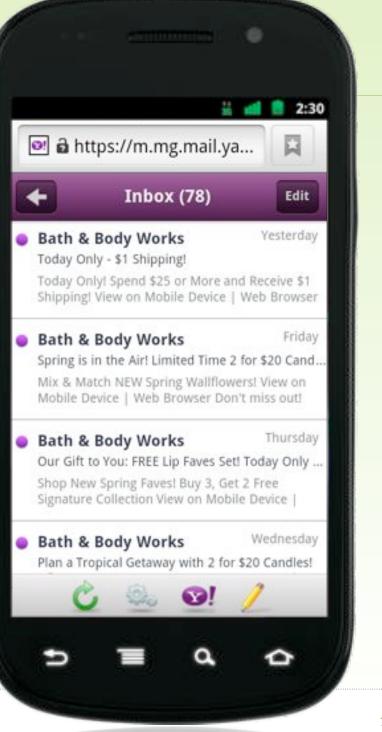
- Requires Javascript
- Eats up Screen Space





Fixed Bottom

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





Physical Controls Below Screen





Fixed Bottom

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





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."

Source: http://bit.lv/ttmalg

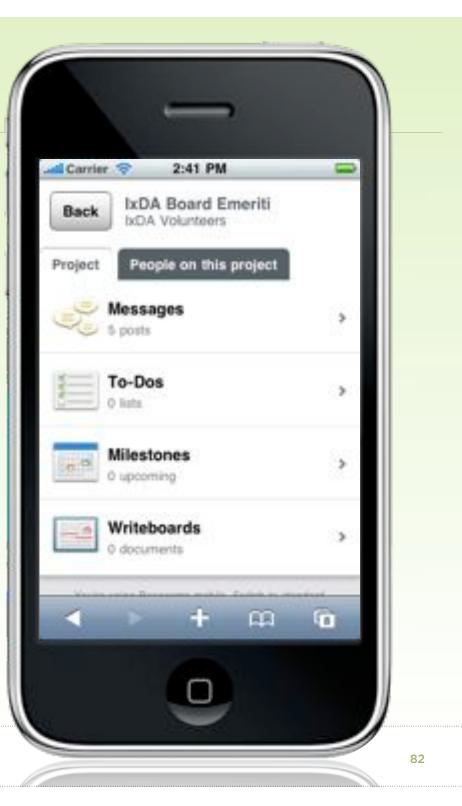




Getting Back

Back Button

Back Button

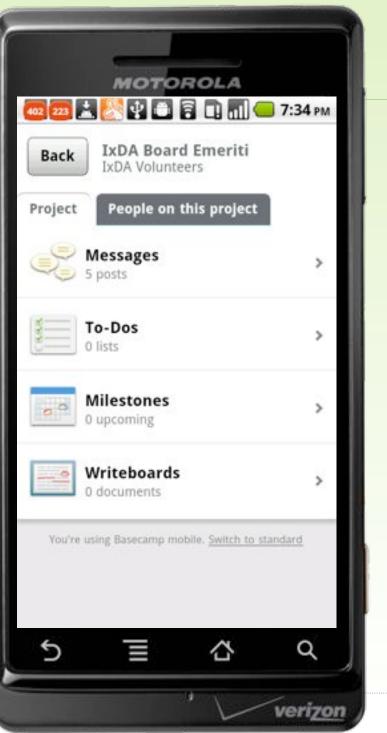




Getting Back

Back Button

Back Button







MOBILE WEB DESIGN MOVES

- 1. Organize Yourself
- 2. Use your Head
- 3. Bottom Out
- 4. Take it In



Photos: Kushpel Kirill

TAKE IT IN



Input Type	HTML
checkbox	<input type="checkbox"/>
radio button	<input type="radio"/>
password field	<input type="password"/>
drop-down lists	<select><option></option></select>
file picker	<input type="file"/>
submit button	<input type="submit"/>
plain text	<input type="text"/>



select on iPhone

Device Optimized UI Control





select on Android

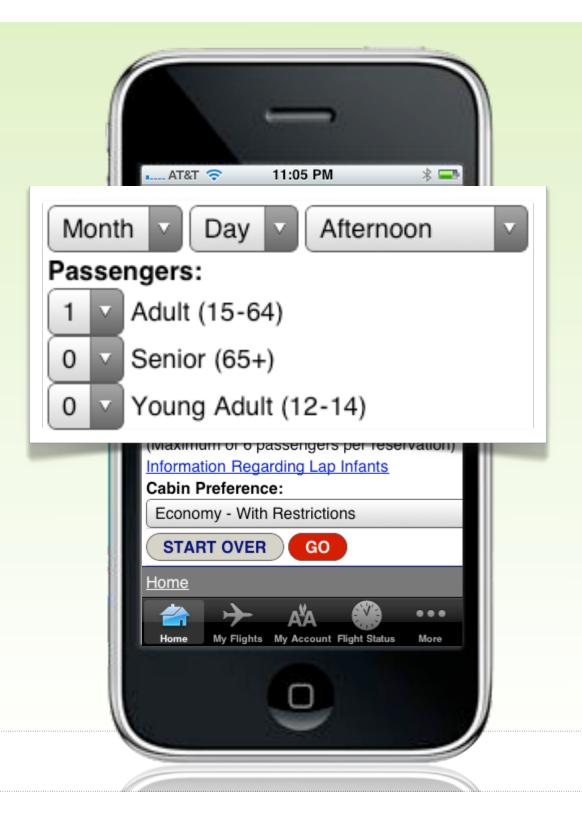
Device Optimized UI Control

2010	۲
2011	0
2012	0
2013	0
2014	0
	-



Carrier 📚	10:08 PM	-
Re-enter pas	sword:	
Question:		1.201
Select one Secret answe		•
10101102	224.9. 0/230228200	Done
Previous N	ext Actoria	Done
00100000	ne of first pe	
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Spinners

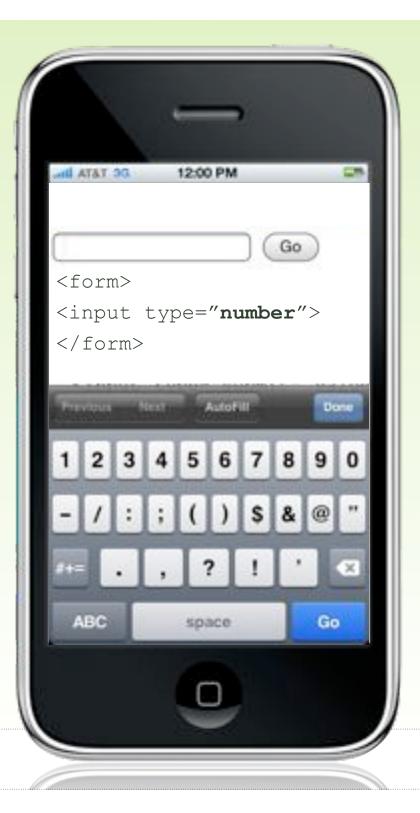


Touch Target Sizes



Input Type	HTML
number	<input <br="" type="number"/> min="2" max="10" step="2" value="6">
email	<input type="email"/>
url	<input type="url"/>
date	<input type="date"/>
range	<input <br="" type="range"/> min="2" max="10" step="2" value="6">















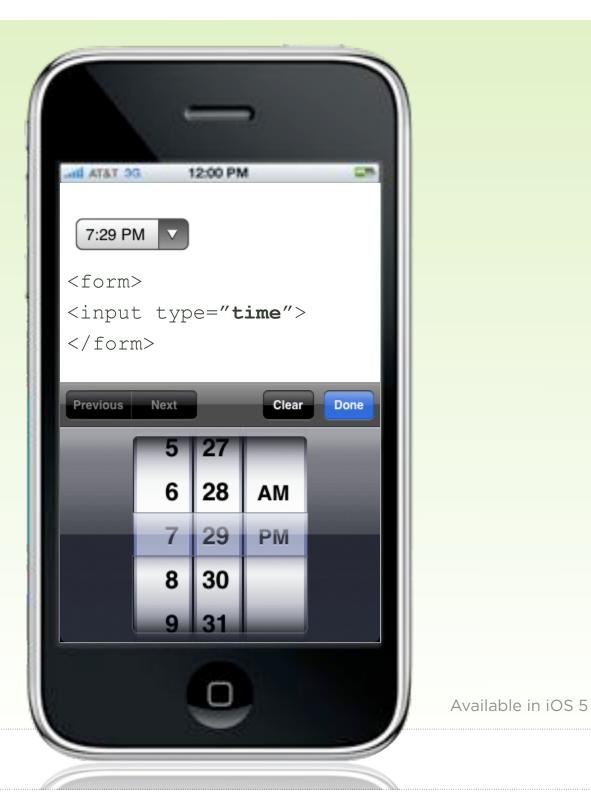








Available in iOS 5



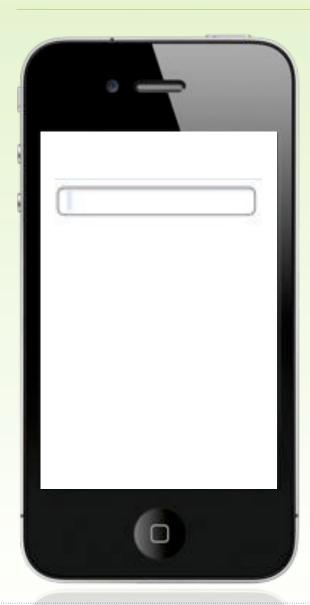


Available in iOS 5





text Inputs



auto-capitalize

• Turn off on email, password, URL, and other case-sensitive inputs

auto-correct

- Turn off on email, password, URL, and other non-alpha inputs
- Trim trailing spaces that may come from auto-correct

Language, Mode, Format

• Specify if supported by devices



Numerical Inputs



Number Declarations

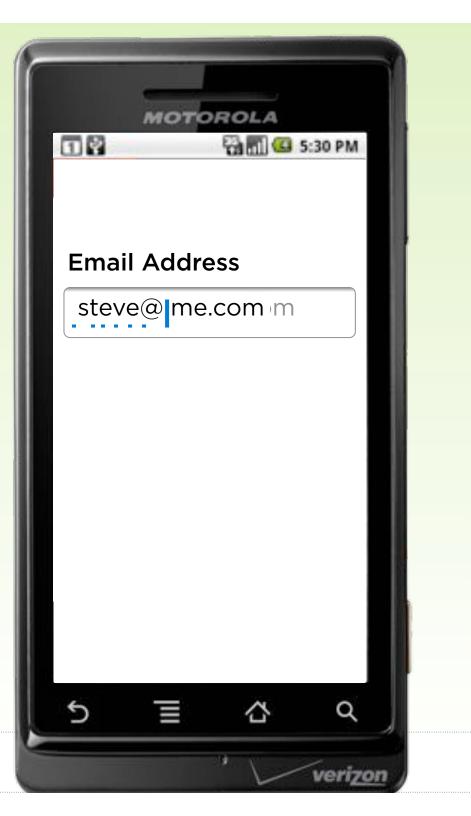
- Define input types using HTML5, Wireless CSS, or CSS-MP
- On devices without virtual keyboards, people will not have to switch into number mode

Common Numerical Inputs

- Use a single line field for phone numbers
- Don't split up price fields (period is present on keyboards)



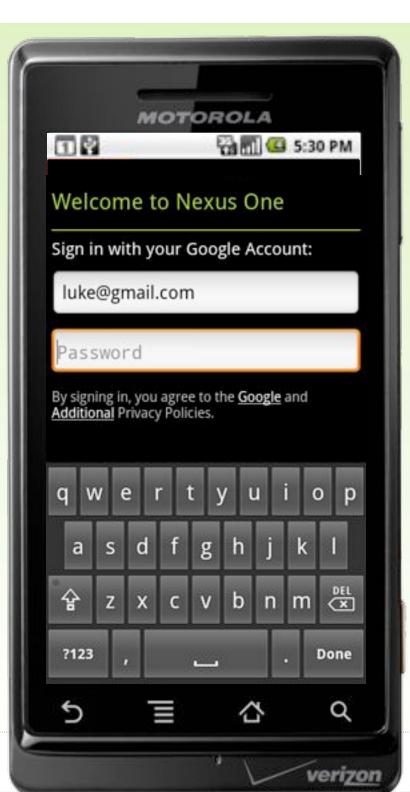










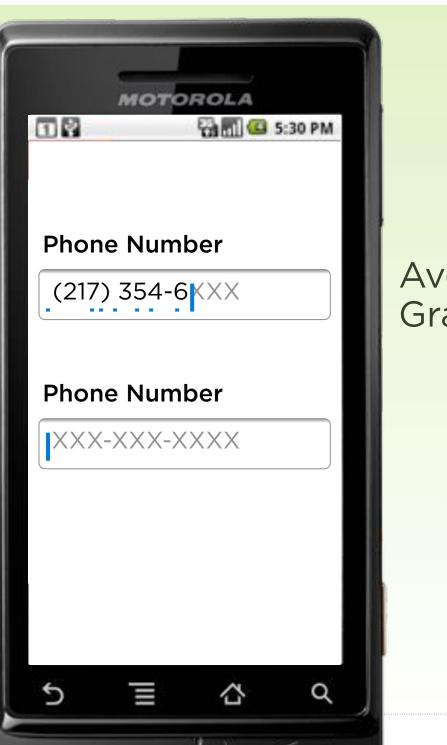


Formatting After the Fact



105

Set Correct Expectations



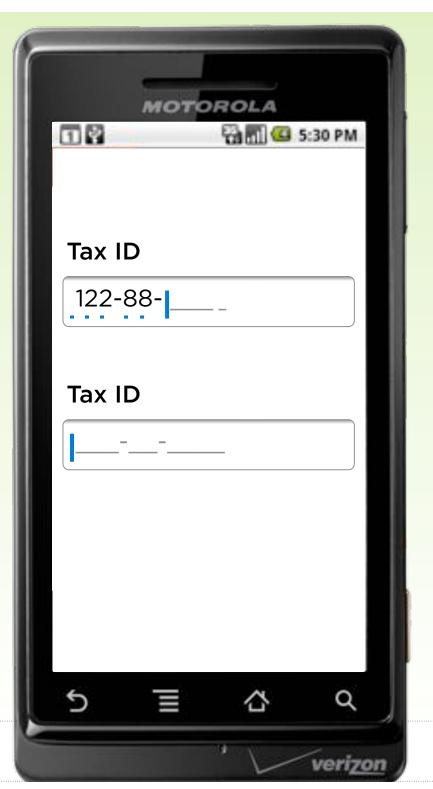
verizo

Avoid the Gradual Reveal



106

Maintain Format



Don't Look Like an Answer

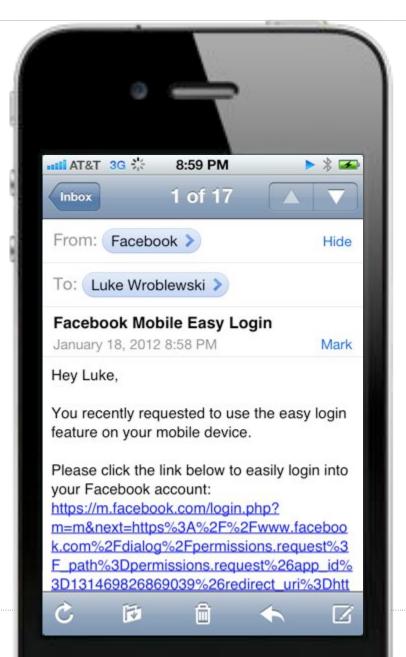


Input Masks



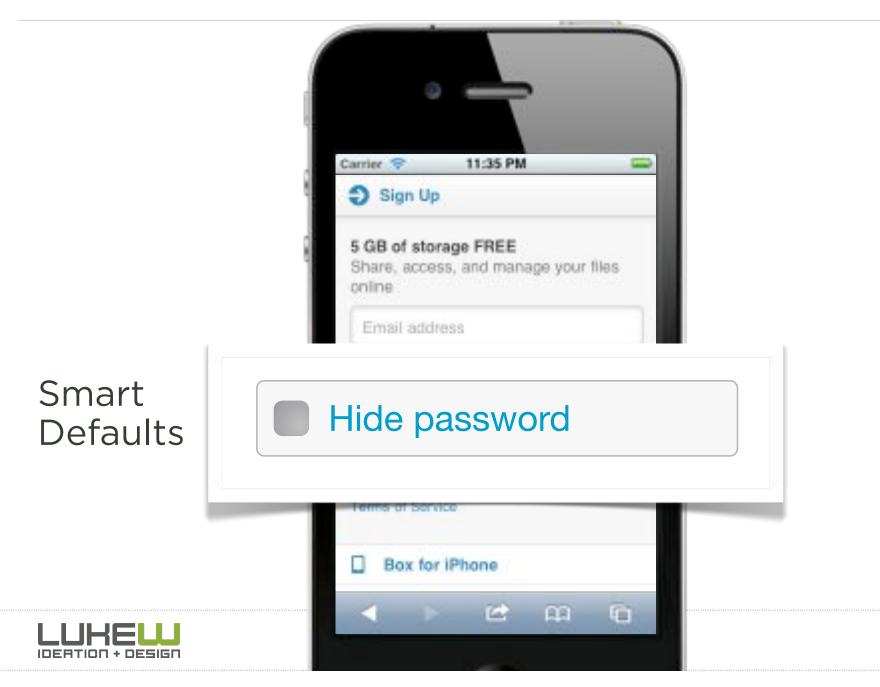


Show Passwords





Show Passwords



Credit Cards

input type="text" pattern="[0-9]*"

Credit or Debit Card



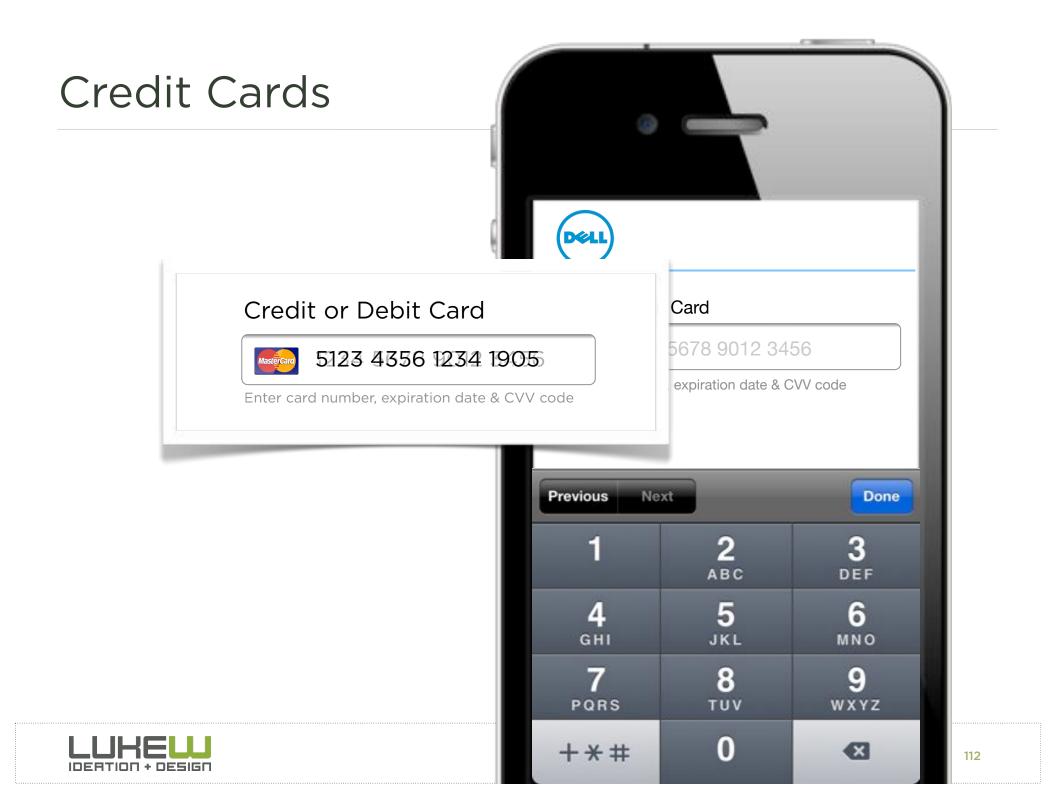
Dél

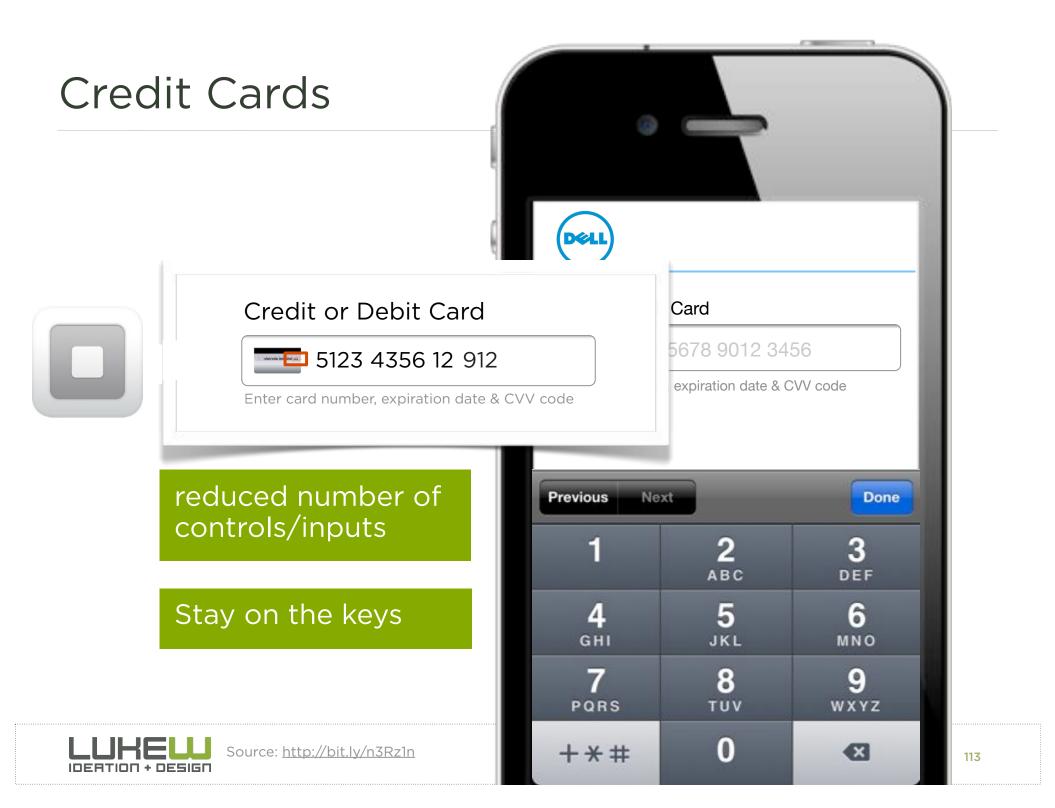
1234 5678 9012 3456

Enter card number, expiration date & CVV code











TAKE IT IN

Take advantage of standard inputs Specify types & attributes to ease input Consider input masks for formatting/accuracy

Photo by armadillo444



MOBILE WEB DESIGN MOVES

- 1. Organize Yourself
- 2. Use your Head
- 3. Bottom Out
- 4. Take it In
- 5. Make Your Moves



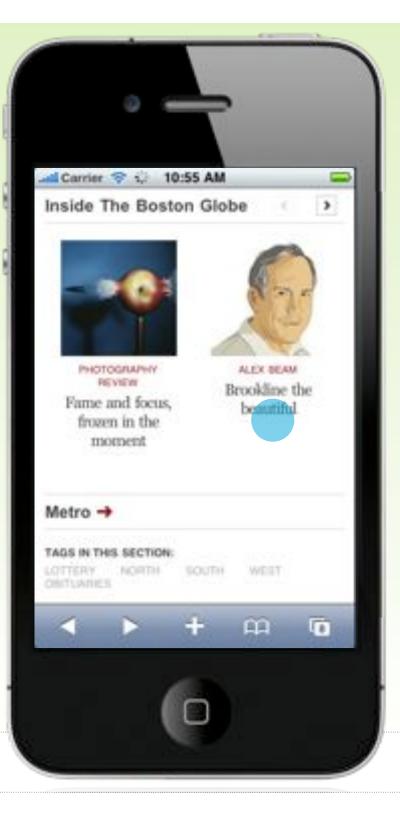
MAKE YOUR MOVES

Photo by yago1.com

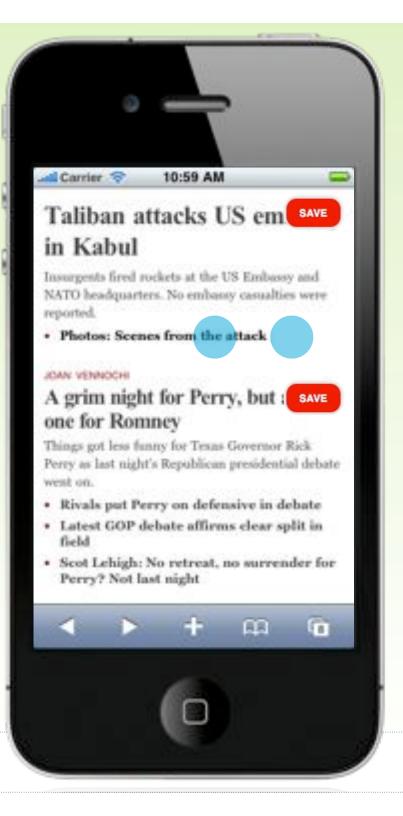
Drag to Refresh









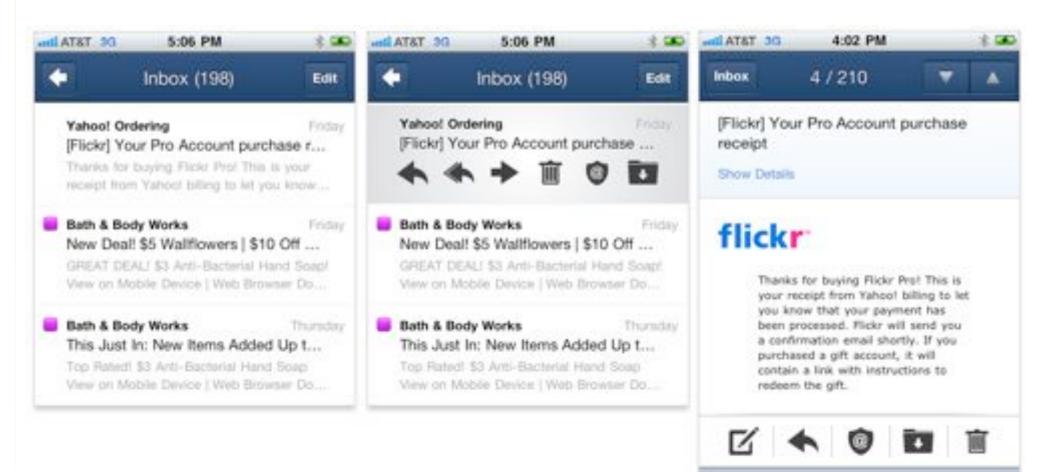




Drag to Reveal



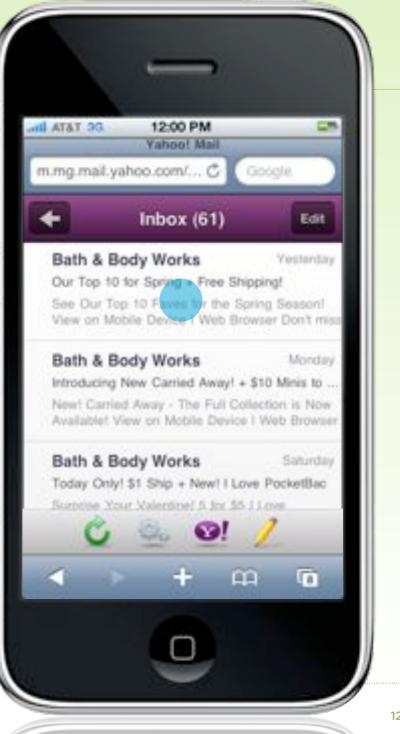






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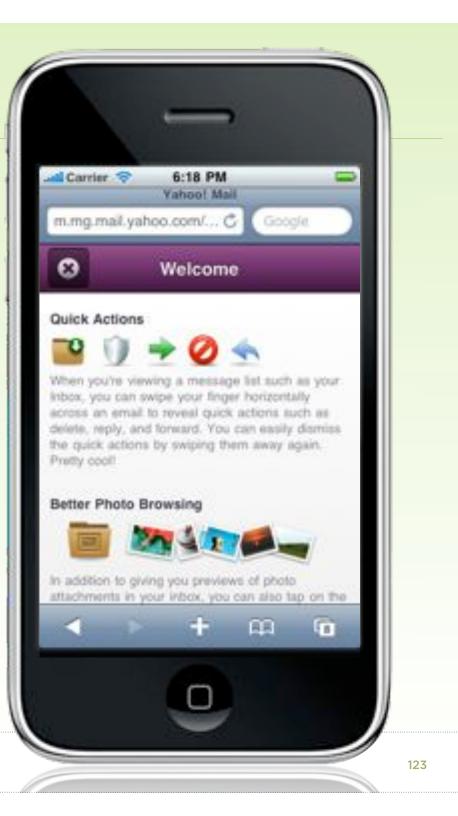
Drag to Reveal





Drag to Reveal

Feature overview





Natural User Interfaces (NUI)

"NUI exploits skills that we have acquired through a lifetime of living in the World" -Bill Buxton



- Content is the UI (the action)
- Reduce the distance as much as possible between user & content
- Enable direct manipulation of objects & content
- Guessable, predictable, physical, realistic
- Reduce Visuals that are Not Content



Source: <u>http://www.lukew.com/ff/entry.asp?770</u>



Safari Accelerometer Access

iPhone 4 accelerometer experiment http://pus.hu/g6pKPI







Safari Gyroscope Access





Source: <u>http://bit.ly/gAXCeL</u>

MAKE YOUR MOVES

Rate of innovation is unprecedentedRethink, relearn, & recharge the Web





MOBILE WEB DESIGN MOVES

- 1. Organize Yourself
- 2. Use your Head
- 3. Not your Bottom!
- 4. Take it In
- 5. Make Your Moves





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