Corso di Laurea Magistrale in Design, Comunicazione Visiva e Multimediale - Sapienza Università di Roma

Interaction Design

A.A. 2017/2018

Mobile Design Patterns

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Good vs Bad Mobile Design

- An interesting and quick way to better understand how people are using apps is to *read reviews in mobile marketplaces*.
- In general, most 4- and 5-star reviews are not very specific.
- But the **1- and 2-star reviews are much more telling**; they tend to offer a truer picture of problems users are having with applications.
- Most common compliants are:
  - Crashing
  - Lack of key features (e.g., syncing, filtering, account linking)
  - Confusing interface design
  - Poor navigation (e.g., can’t go back, can’t find things)

To be fixed, they require user and device testing.

They can be fixed by following traditional mobile design patterns.

Design Patterns

- One way to approach the design of user interfaces is to **learn from examples** that have proven to be **successful** in the past.
- **Design Patterns** are **solutions** to a **recurrent problem** within a **specific application domain**.
  - They allow to ***capture*** and ***reuse*** the ***knowledge*** of what made a system – or paradigm – successful and apply it again in new situations.
- Mobile Design Patterns:
  - Navigation
  - Tables
  - Forms
  - Search
  - Tools
  - Helps and Tutorials
  - Feedback & Affordance

Balsamiq Mockups

Download Balsamiq Mockups from the following link:

- https://balsamiq.com/download/
- Install the “trial” version of the software.
- Send an email to leotta@dis.uniroma1.it for the license number

ABC 3G 12:33 PM
directory1
May 12
filename2
Jan 12
4 MB
filename3
May 14
2 MB
filename3
May 12
320 KB
filename4
May 12
320 KB
Refresh
Upload
Search
Help
Settings
menu

Roadmap

- **Navigation**
- Forms
- Search
- Tools
- Invitations
- Feedback & Affordance

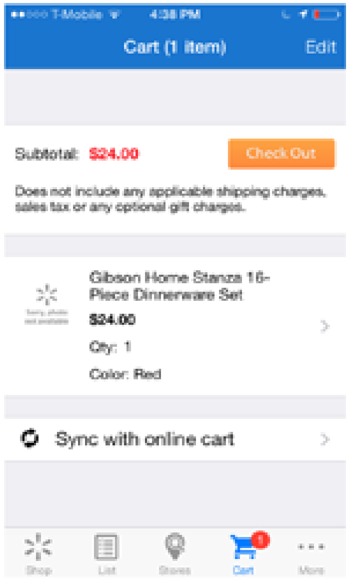
Navigation

- Navigation is about how users move through the views.
- Good navigation, like good design, is **invisible**.
  - Applications with good navigation just feel simple and make it easy to accomplish any task, from browsing through the web to post a comment on Facebook.
- **Primary Navigation patterns**: navigation from one primary category to another (as with the top-level menus of a desktop application).
- **Secondary Navigation patterns**: moving and navigating within a selected module.

Navigation Patterns

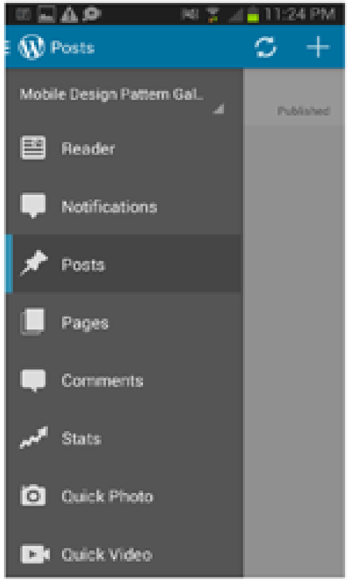
- Two distinct types of primary navigation: **persistent** and **transient**.
- **Persistent navigation** encompasses interactive navigation components (for example, list menus) that are permanently visible.
- **Transient navigation** must be explicitly revealed with a tap or gesture.
  - These patterns arise from the constraints of smartphone screen sizes, which have pushed mobile designers to think “outside of the box”.

Walmart app (iOS)
Tab Bar for **persistent**
primary navigation.



Does not include any applicable shipping charges, sales tax or any optional gift charges.

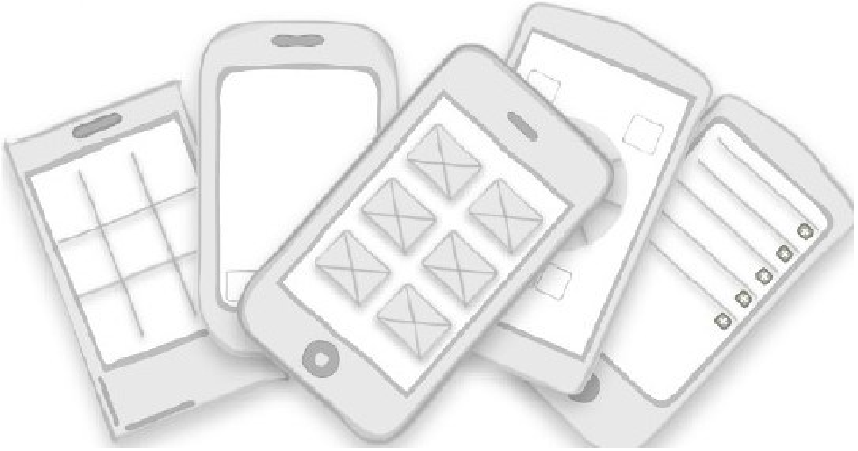
Gibson Home Stanza 16-Piece Dinnerware Set
$24.00
Qty: 1
Color: Red



WordPress app (Android & iOS)
Transient navigation
through Side Drawer.

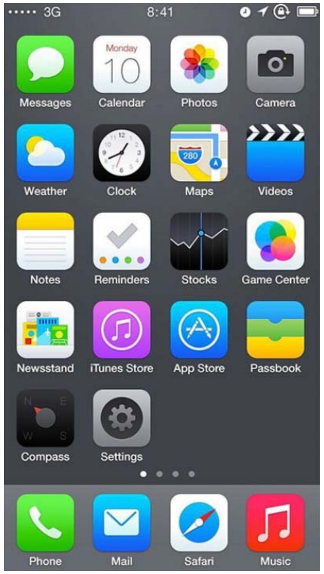
Primary Navigation

- Persistent Patterns:
  - Springboard
  - List Menu
  - Expanding Lists
  - Cards
  - Gallery (Grid)
  - Tabs
  - Metaphor
  - Infinite Area



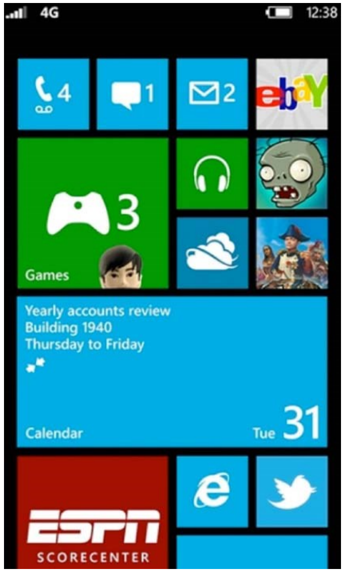
Springboard

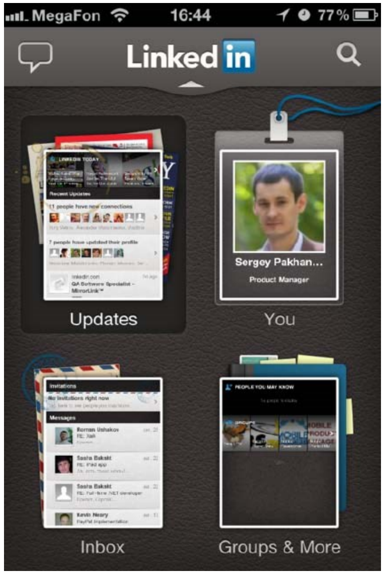
- Springboard is a landing screen with options that act as launch points into the application.
  - Often used as navigation patterns at OS level (Windows Phone, iOS and Android).
- Use a **grid layout** for items of **equal importance**, or an **irregular layout** to **emphasize some items** more than others.



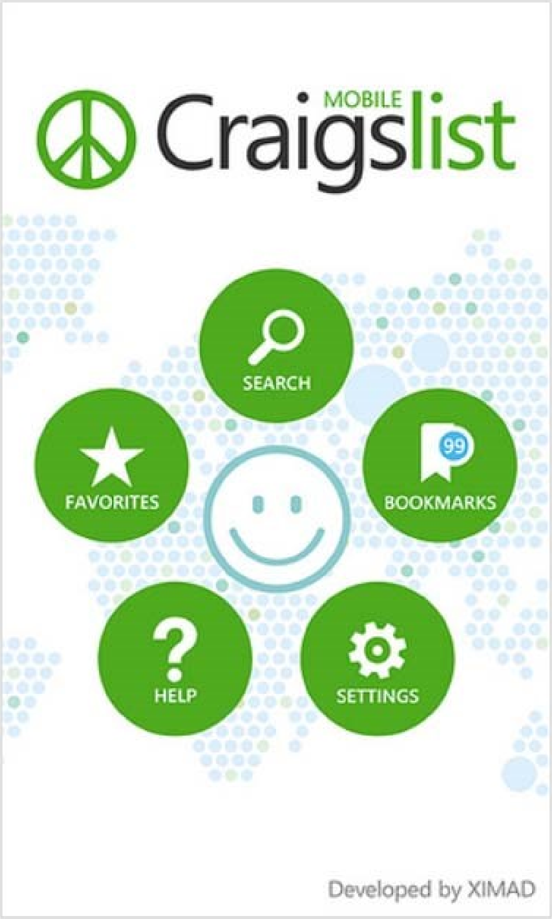
Home page of ioS phones. Example of traditional springboard

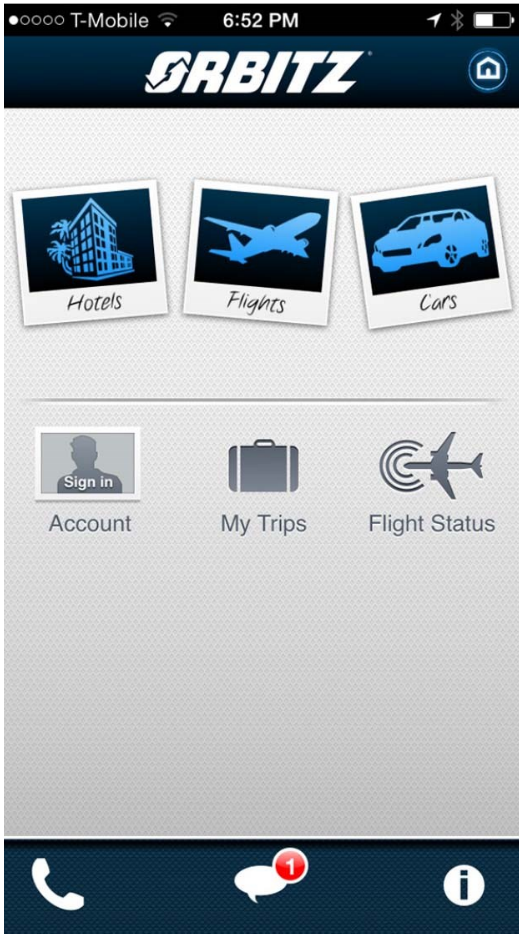
Springboard with irregular layout to emphasize importance (Windows phone) or hierachy (Linkedin for iOS).





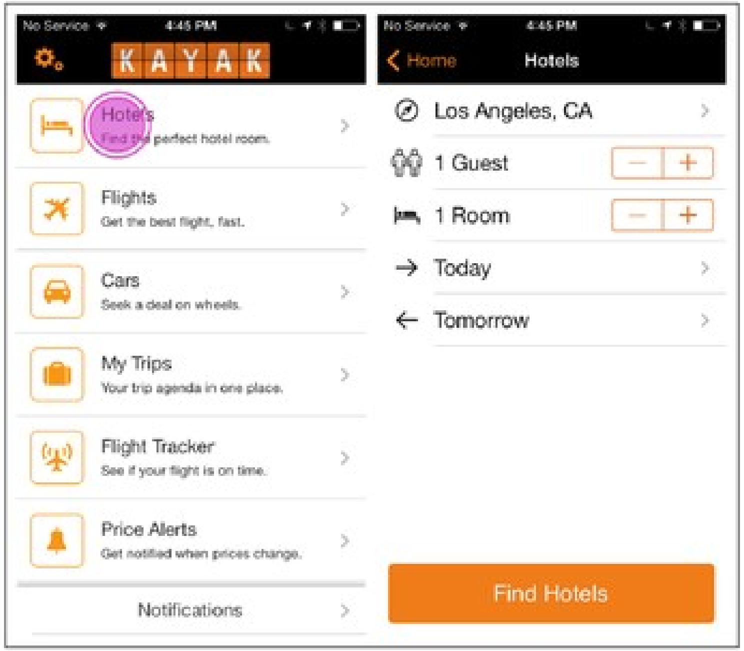
Customized Springboard
with irregular components





List Menu

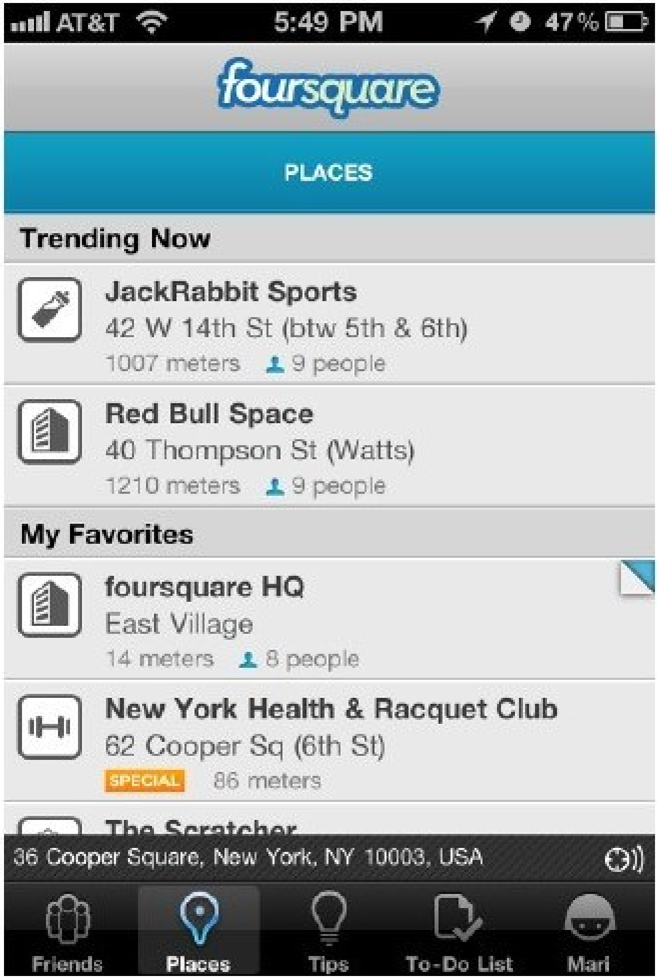
- Each list item is a launch point into the application, and switching modules requires navigating back to the list.
  - Users navigate by making **one choice per screen** until they reach their destination.
  - To navigate to another destination, users must **retrace** some of their steps (or **start over** from the beginning) and make different choices.
  - All internal screens should have a **way for returning back**. This is a kind of **hierarchical navigation**.
    - If a screen is the topmost one in an app (that is, the app's home), it should not present a 'back' button.



Works well for long (potentially infinite) lists with subtext [Kayak for iOS].

Customized List Menu

with thumbs and hierarchy



Trending Now

JackRabbit Sports
42 W 14th St (btw 5th & 6th)
1007 meters 9 people

Red Bull Space
40 Thompson St (Watts)
1210 meters 9 people

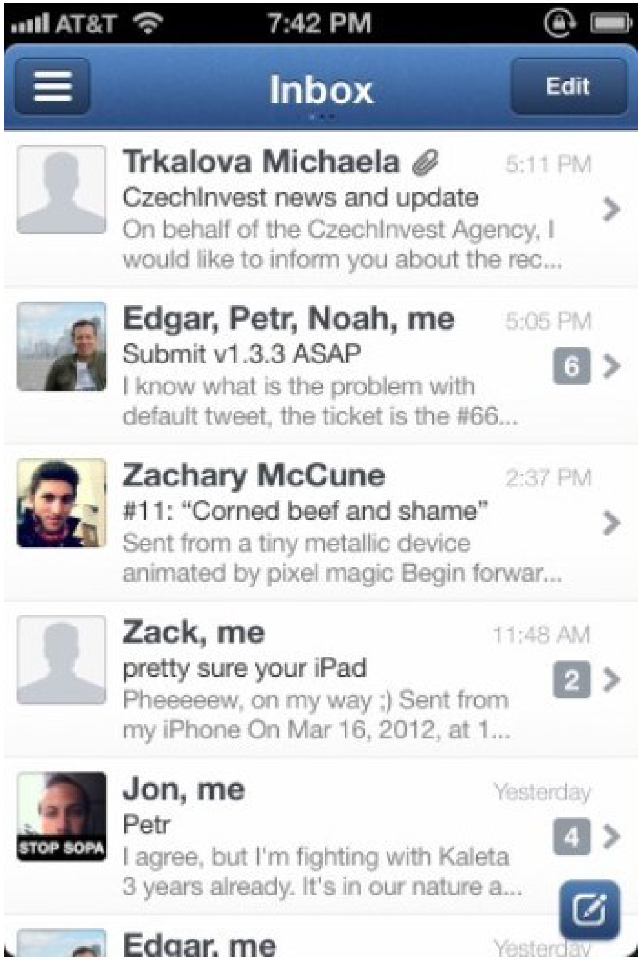
My Favorites

foursquare HQ
East Village
14 meters 8 people

New York Health & Racquet Club
62 Cooper Sq (6th St)
SPECIAL 86 meters

The Scratcher

36 Cooper Square, New York, NY 10003, USA



Trkalova Michaela 5:11 PM
CzechInvest news and update
On behalf of the CzechInvest Agency, I would like to inform you about the rec...

Edgar, Petr, Noah, me 5:05 PM 6
Submit v1.3.3 ASAP
I know what is the problem with default tweet, the ticket is the #66...

Zachary McCune 2:37 PM
#11: "Corned beef and shame"
Sent from a tiny metallic device animated by pixel magic Begin forwar...

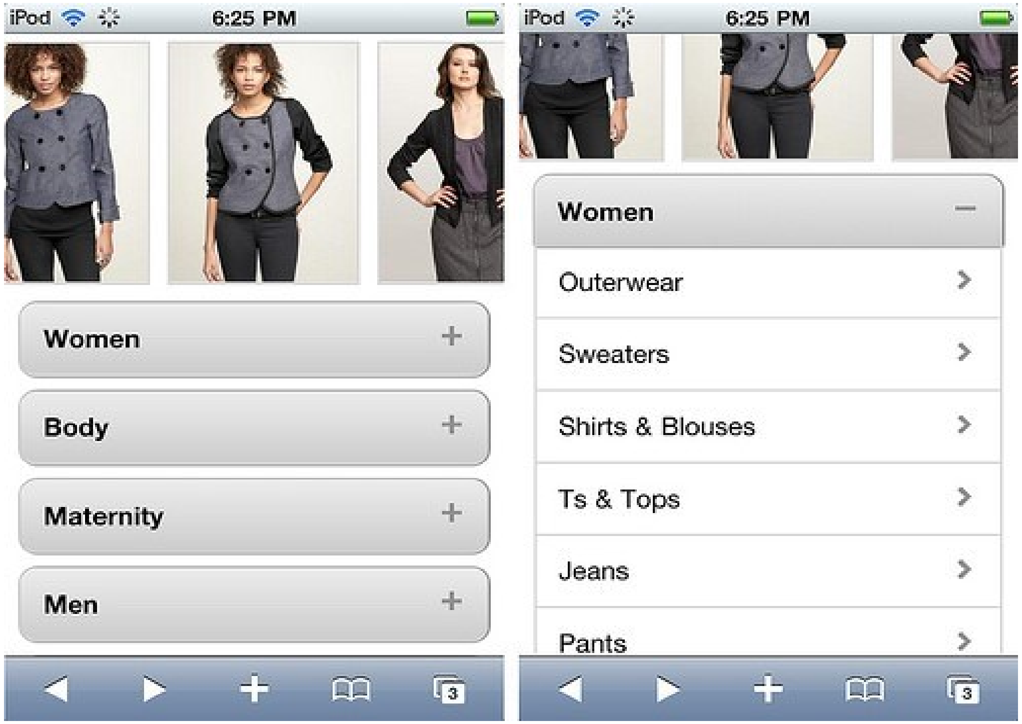
Zack, me 11:48 AM 2
pretty sure your iPad
Pheeeeew, on my way ;) Sent from my iPhone On Mar 16, 2012, at 1...

Jon, me Yesterday 4
Petr
I agree, but I'm fighting with Kaleta 3 years already. It's in our nature a...

Edgar, me Yesterday

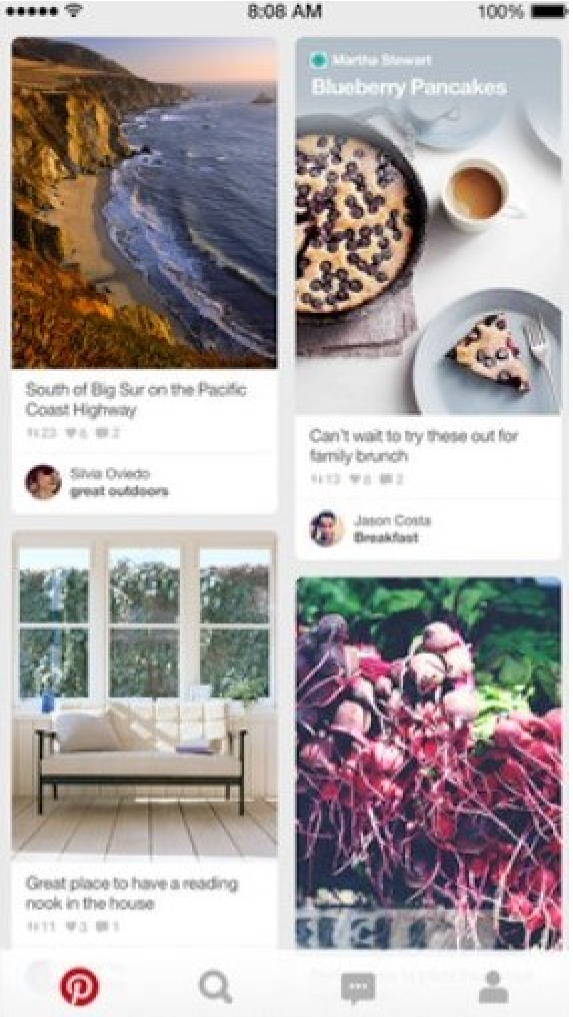
Expanding Lists

- Works best for progressively disclosing more details for an object.
  - Often used when a mobile app has been ported from an existing desktop's one.



Cards

- **Cards** are small containers that logically encapsulates relevant information.
- Card navigation is based on a ***card deck metaphor***, often including common card deck manipulations such as stacking, shuffling, discarding, and flipping.
- Good for presenting similar objects whose size or supported actions can vary considerably.



South of Big Sur on the Pacific Coast Highway

Silvia Oviedo
great outdoors

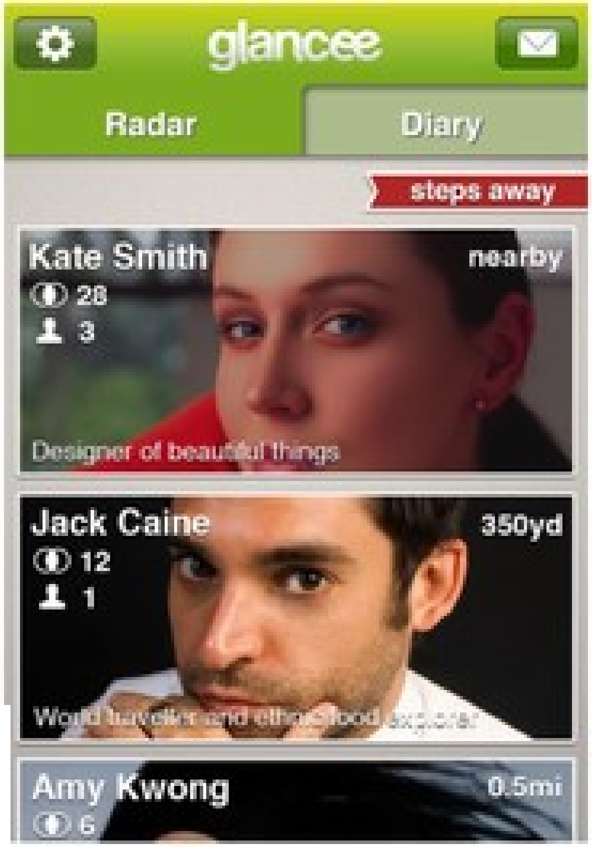
Martha Stewart
Blueberry Pancakes

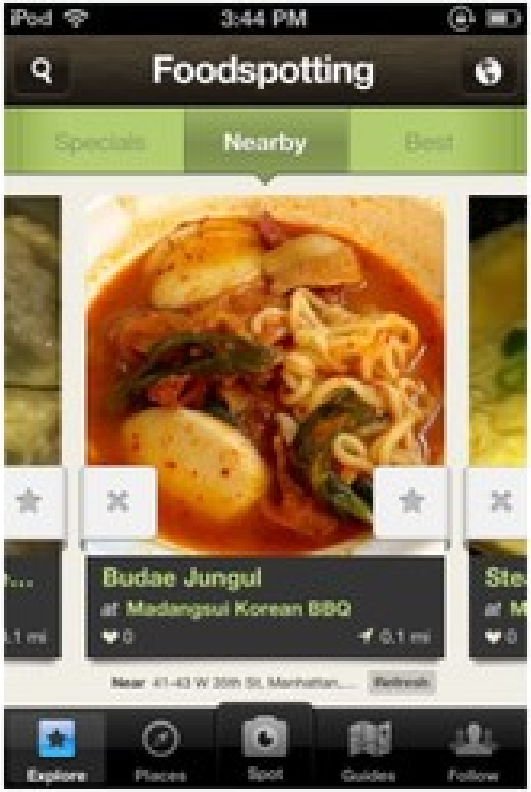
Can't wait to try these out for family brunch

Jason Costa
Breakfast

Great place to have a reading nook in the house

Example of Cards

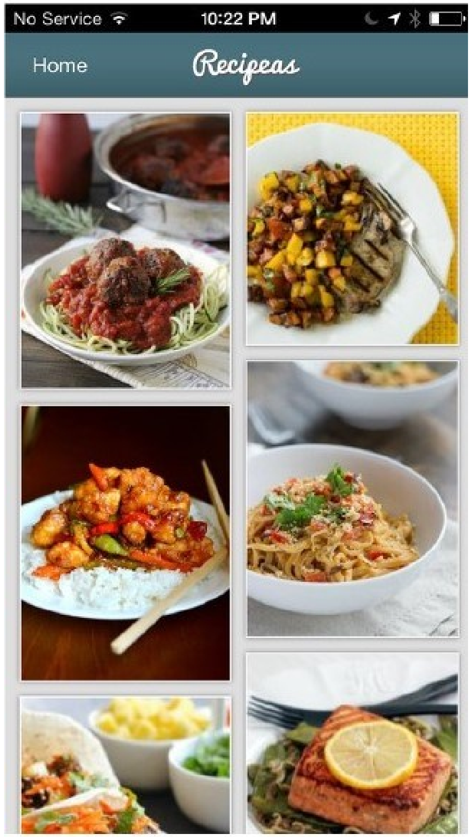


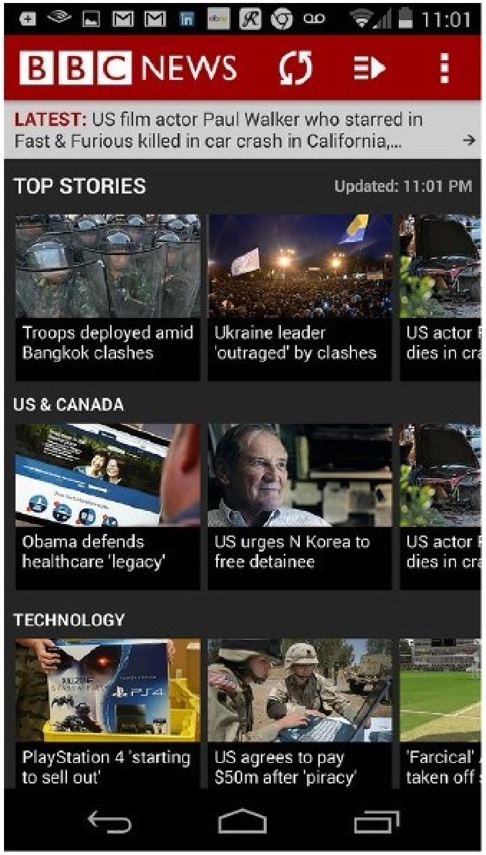


Gallery

It works best for showing frequently updated, highly visual content where **no hierarchy** is implied.

- The Gallery pattern displays live content (news, recipes, movies or photos) arranged in a **grid** (as with Recipeas app) or a **carousel** (as with BBC News)





LATEST: US film actor Paul Walker who starred in Fast & Furious killed in car crash in California,...

TOP STORIES Updated: 11:01 PM

Troops deployed amid Bangkok clashes

Ukraine leader 'outraged' by clashes

US actor dies in cra

US & CANADA

Obama defends healthcare 'legacy'

US urges N Korea to free detainee

US actor dies in cra

TECHNOLOGY

PlayStation 4 'starting to sell out'

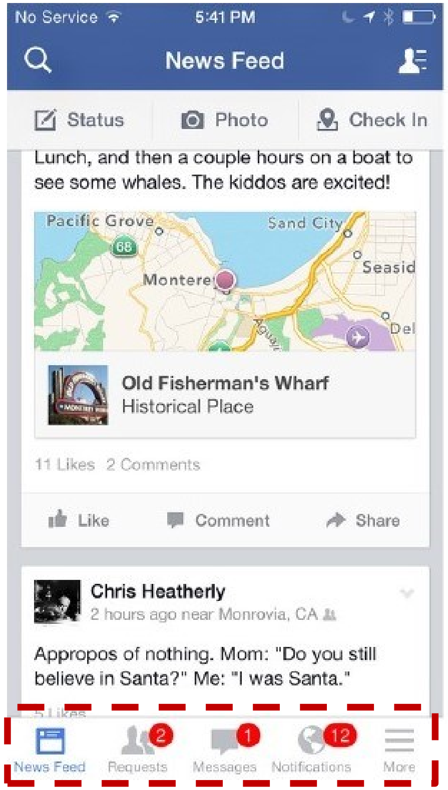
US agrees to pay $50m after 'piracy'

'Farcical' taken off

Tabs

Clearly differentiate the selected tab from the others!

- **Tab bars** are suggested to navigate **flat information structures**.
  - Users can navigate directly from one primary category to another because all primary categories are accessible from the main screen.



No Service 5:41 PM

News Feed

Status Photo Check In

Lunch, and then a couple hours on a boat to see some whales. The kiddos are excited!

Old Fisherman's Wharf
Historical Place

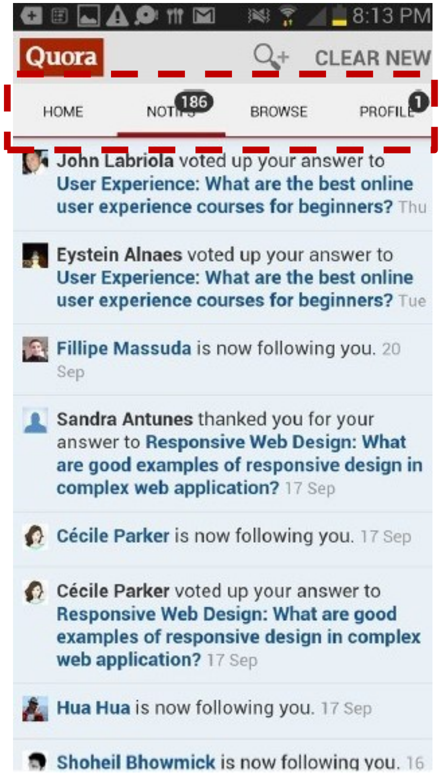
11 Likes 2 Comments

Like Comment Share

Chris Heatherly
2 hours ago near Monrovia, CA

Appropos of nothing. Mom: "Do you still believe in Santa?" Me: "I was Santa."

5 Likes



8:13 PM

Quora CLEAR NEW

John Labriola voted up your answer to User Experience: What are the best online user experience courses for beginners? Thu

Eystein Alnaes voted up your answer to User Experience: What are the best online user experience courses for beginners? Tue

Fillipe Massuda is now following you. 20 Sep

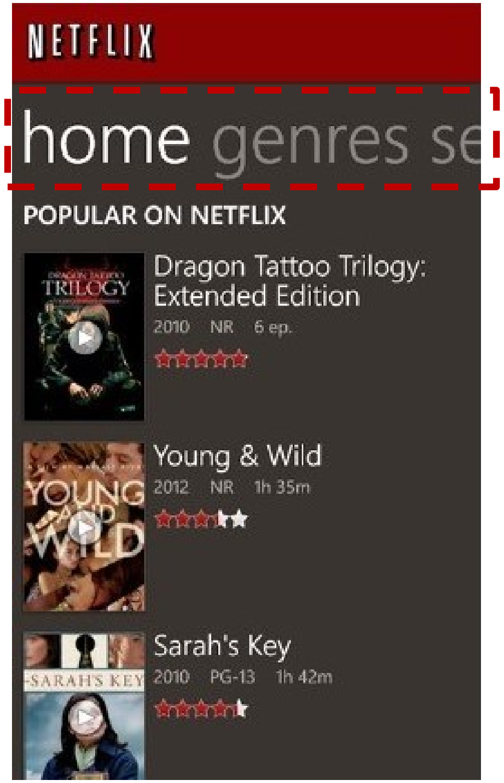
Sandra Antunes thanked you for your answer to Responsive Web Design: What are good examples of responsive design in complex web application? 17 Sep

Cécile Parker is now following you. 17 Sep

Cécile Parker voted up your answer to Responsive Web Design: What are good examples of responsive design in complex web application? 17 Sep

Hua Hua is now following you. 17 Sep

Shoheil Bhowmick is now following you. 16



NETFLIX

home genres se

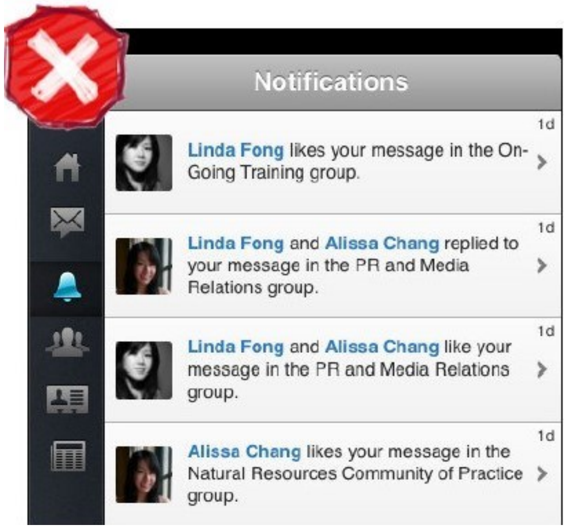
POPULAR ON NETFLIX

Dragon Tattoo Trilogy: Extended Edition
2010 NR 6 ep.

Young & Wild
2012 NR 1h 35m

Sarah's Key
2010 PG-13 1h 42m

Tabs: further examples



Notifications

1d
Linda Fong likes your message in the On-Going Training group.

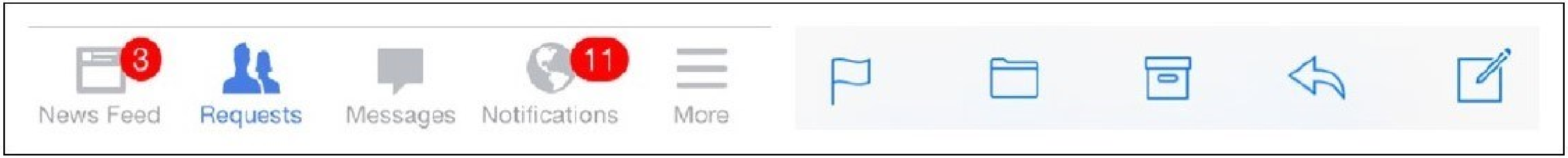
1d
Linda Fong and Alissa Chang replied to your message in the PR and Media Relations group.

1d
Linda Fong and Alissa Chang like your message in the PR and Media Relations group.

1d
Alissa Chang likes your message in the Natural Resources Community of Practice group.

Antipattern! Yammer has tabs, **but no labels**, making navigation more of a challenge.

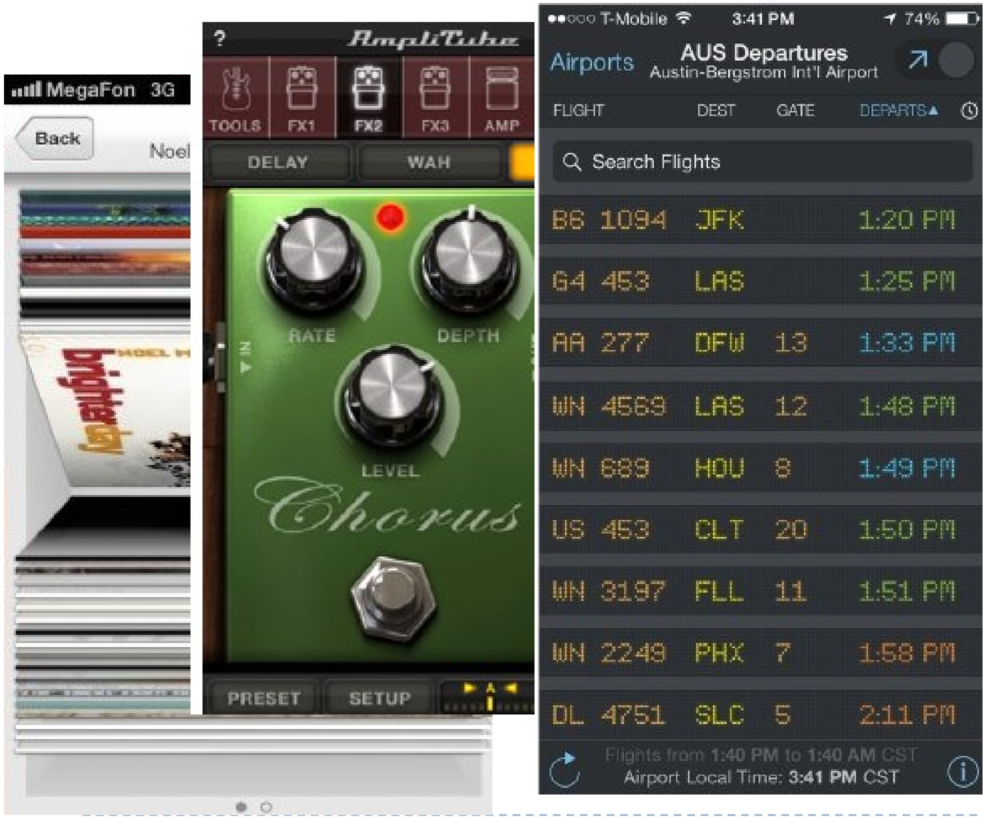
Do not confuse tab bar with toolbar!
The Tab Bar is for navigating the main categories of the app; the toolbar presents the tools and actions, for a specific screen.



Metaphor

Hipstamatic for iOS.
Emulation of a real camera.

- This pattern is characterized by an interface designed to match its real-world counterpart.
  - Use the Metaphor pattern judiciously!



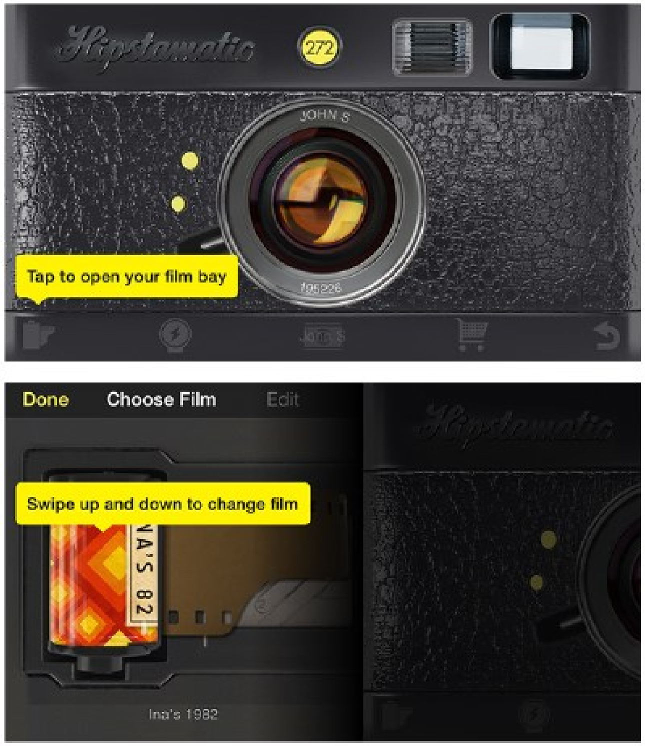
T-Mobile 3:41 PM 74%

Airports AUS Departures
Austin-Bergstrom Int'l Airport

Search Flights

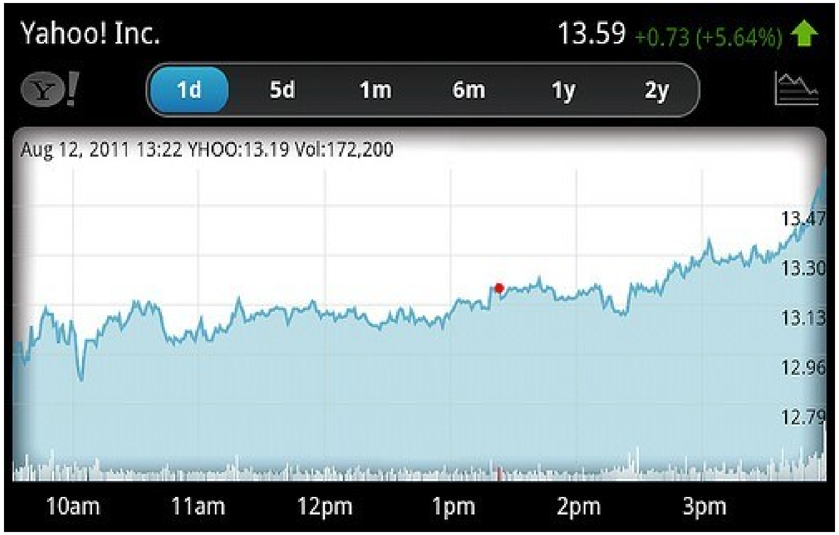
FLIGHT	DEST	GATE	DEPARTS▲
B6 1094	JFK		1:20 PM
G4 453	LAS		1:25 PM
AA 277	DFW	13	1:33 PM
WN 4569	LAS	12	1:48 PM
WN 689	HOU	8	1:49 PM
US 453	CLT	20	1:50 PM
WN 3197	FLL	11	1:51 PM
WN 2249	PHX	7	1:58 PM
DL 4751	SLC	5	2:11 PM

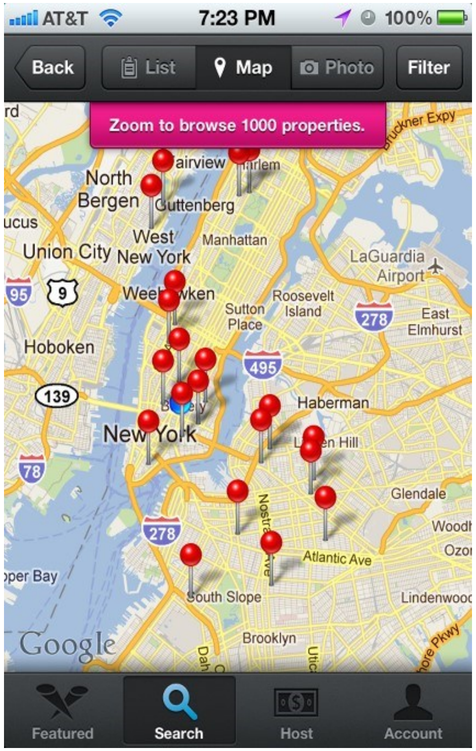
Flights from 1:40 PM to 1:40 AM CST
Airport Local Time: 3:41 PM CST



Infinite Area

- The entire data set can be considered to be a large, navigable two dimensional graphic.
- The viewport shows only a small subset of the whole data set.

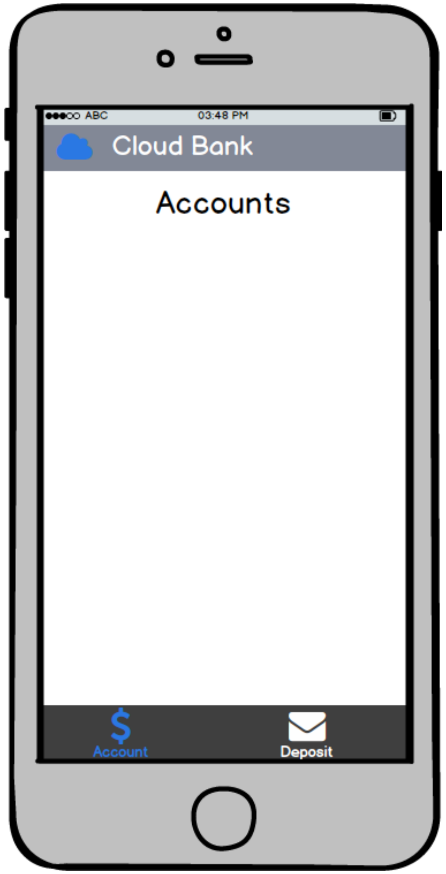


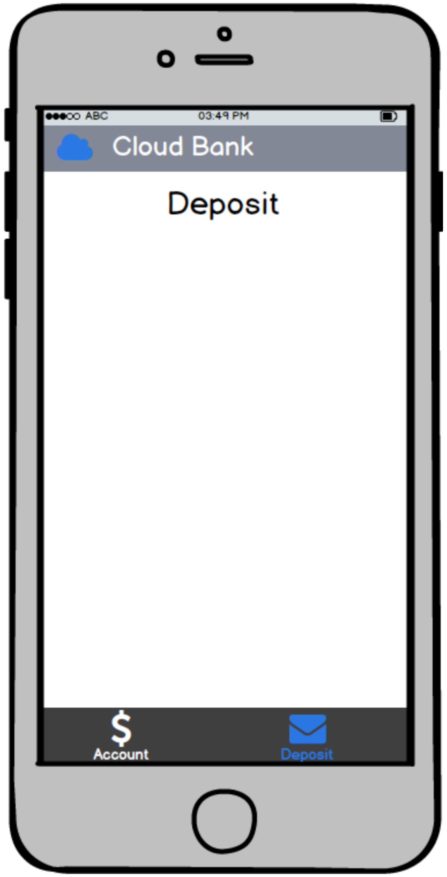


Exercise

- **We want to create a series of mockups for a mobile banking application for iOS devices.**
  - Our application will consist of two main navigation areas, called Accounts (Conto Corrente) and Deposit (Versamento). The Accounts page is the first that a user can navigate once the app is opened.
  - Please choose the most appropriate pattern to realize the navigation of the application and design a mockup through Balsamiq.

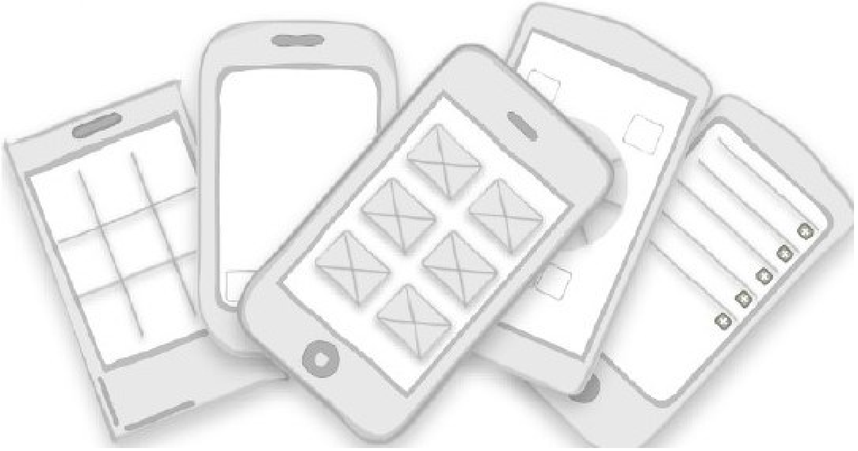
Solution


●●●○○ ABC
03:48 PM
Cloud Bank
Accounts
Account
Deposit


●●●○○ ABC
03:49 PM
Cloud Bank
Deposit
Account
Deposit

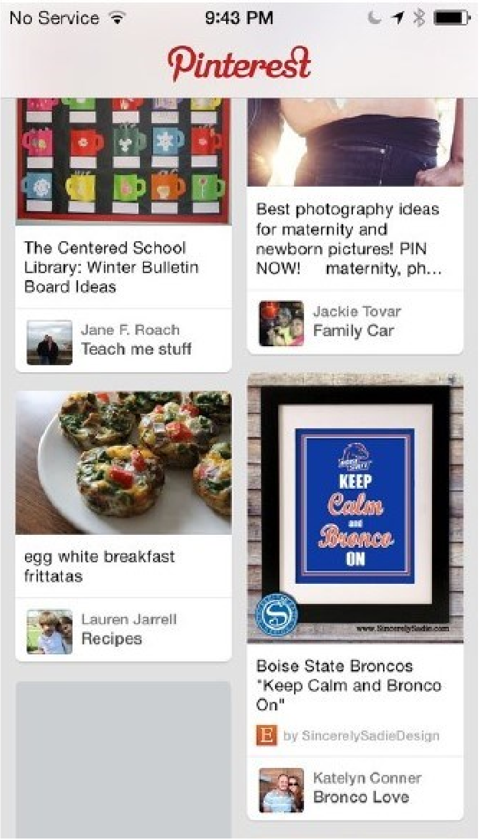
Primary Navigation
transient patterns

- The term **transient** means “staying a short time”, which is exactly how such navigation components work.
- They are **hidden** until we reveal them; then we make a selection and they **disappear again**.
- Transient Patterns:
  - Retracting Tab
  - Side Drawer
  - Toggle Menus

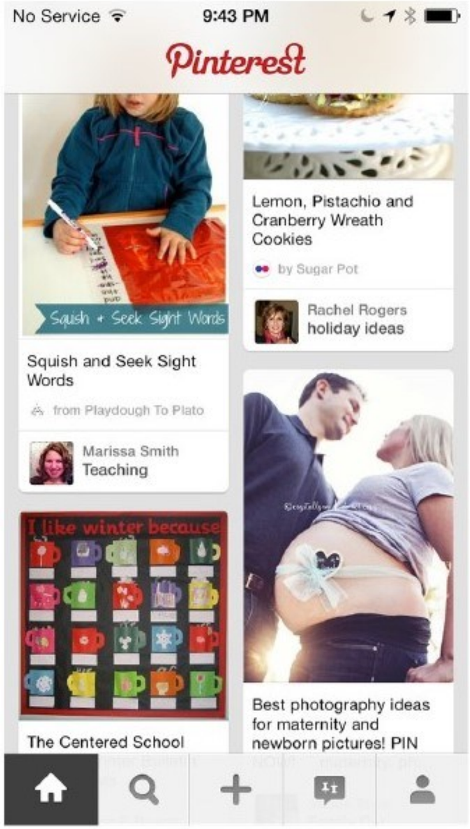


Retracting Tab

- Tab bar collapses or appears when the user is scrolling or swiping down through content.

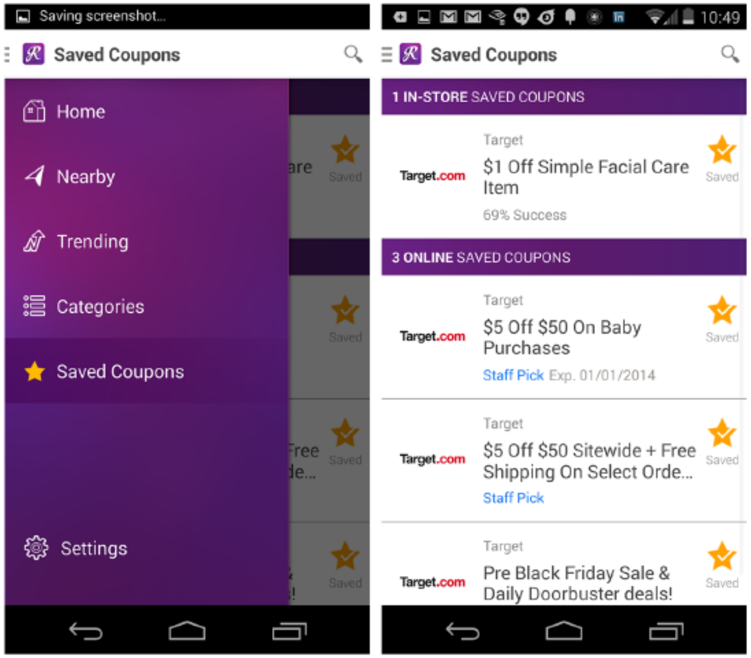

No Service
9:43 PM
Pinterest
The Centered School Library: Winter Bulletin Board Ideas
Jane F. Roach
Teach me stuff
Best photography ideas for maternity and newborn pictures! PIN NOW! maternity, ph...
Jackie Tovar
Family Car
egg white breakfast frittatas
Lauren Jarrell
Recipes
KEEP Calm and Bronco ON
Boise State Broncos "Keep Calm and Bronco On"
by SincerelySadieDesign
Katelyn Conner
Bronco Love

Pinterest for iOS: scrolling down hides the toolbar; scrolling up reveals it!


No Service
9:43 PM
Pinterest
Squish + Seek Sight Words
Squish and Seek Sight Words
from Playdough To Plato
Marissa Smith
Teaching
Lemon, Pistachio and Cranberry Wreath Cookies
by Sugar Pot
Rachel Rogers
holiday ideas
I like winter because
The Centered School
Best photography ideas for maternity and newborn pictures! PIN

Side Drawer

- There are two styles of Side Drawers.
  - The first is an ***overlay***, meaning a **swipe gesture** will reveal a drawer that partially covers or overlaps the original screen content (as in RetailMeNot for Android).
  - The second style is an ***inlay***, in which a **swipe** gesture will open a drawer that pushes the original screen content partially off-canvas (as in Path for iOS).



Saving screenshot...

Saved Coupons

Home

Nearby

Trending

Categories

Saved Coupons

Settings

10:49

Saved Coupons

1 IN-STORE SAVED COUPONS

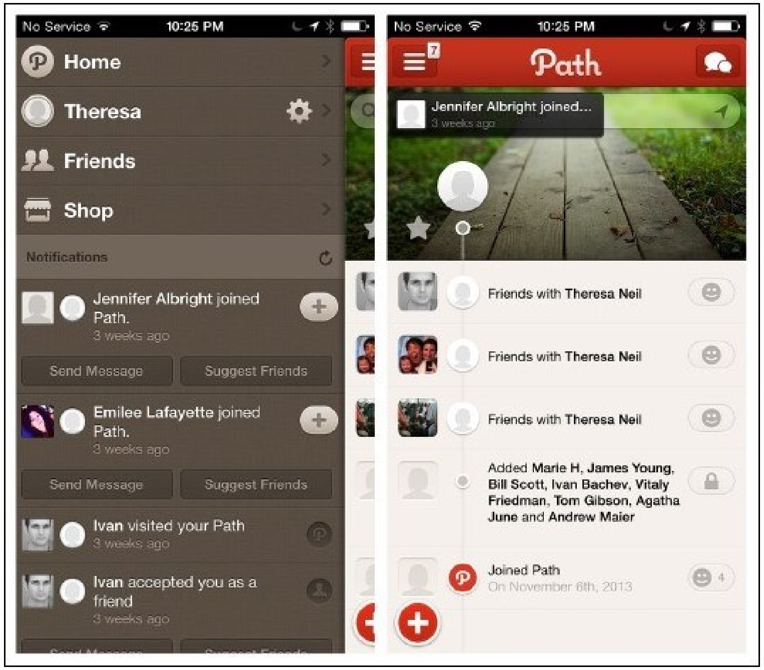
Target.com — Target — $1 Off Simple Facial Care Item — 69% Success — Saved

3 ONLINE SAVED COUPONS

Target.com — Target — $5 Off $50 On Baby Purchases — Staff Pick Exp. 01/01/2014 — Saved

Target.com — Target — $5 Off $50 Sitewide + Free Shipping On Select Orde... — Staff Pick — Saved

Target.com — Target — Pre Black Friday Sale & Daily Doorbuster deals! — Saved



No Service 10:25 PM

Home

Theresa

Friends

Shop

Notifications

Jennifer Albright joined Path. 3 weeks ago

Send Message | Suggest Friends

Emilee Lafayette joined Path. 3 weeks ago

Send Message | Suggest Friends

Ivan visited your Path 3 weeks ago

Ivan accepted you as a friend 3 weeks ago

No Service 10:25 PM

Path

Jennifer Albright joined... 3 weeks ago

Friends with Theresa Neil

Friends with Theresa Neil

Friends with Theresa Neil

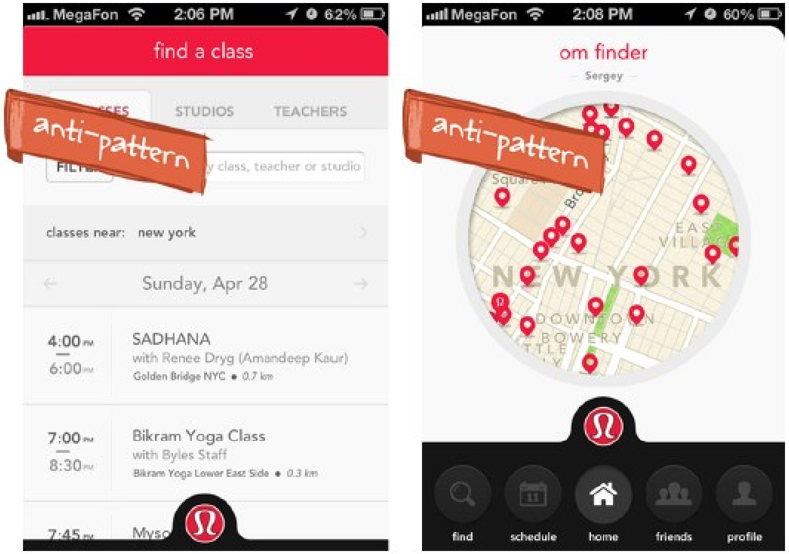
Added Marie H, James Young, Bill Scott, Ivan Bachev, Vitaly Friedman, Tom Gibson, Agatha June and Andrew Maier

Joined Path On November 6th, 2013

Tips for realizing side drawers

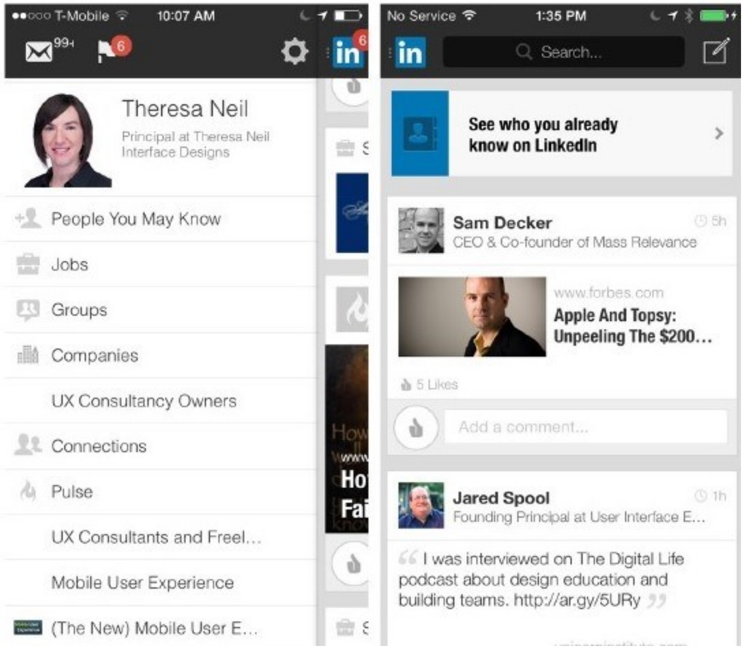
1. The Android design guidelines recommend having the **drawer automatically open on first use** so the user can see the menu and its structure, and learn how to close the drawer.
   - In the subsequent interactions, just launch the app with the side drawer closed.
2. The most popular orientation for the side drawer is **on the left**, but there are examples in which it is placed on the right (IfThisThenThat for iOS) or on both sides (Facebook for Windows Phone).
3. **Avoid to position** the side drawer on the bottom or on the top!
   - This positioning conflicts with the swipe up/down gesture that reveals the Control Center and Configuration features in iOS/Android devices.

Om finder for iOS. Almost every time we try to open the side drawer, the iOS Control Center opens instead.



Tips for realizing side drawers

4. Side Drawer content **need not be limited** to only navigation options.
   - They may include profile information (Linkedin for iOS)
5. Side Drawer can be more than one level deep. You can tap-tap-tap down the path until you reach the lowest level category.



Sam Decker
CEO & Co-founder of Mass Relevance
5h

www.forbes.com
Apple And Topsy: Unpeeling The $200...

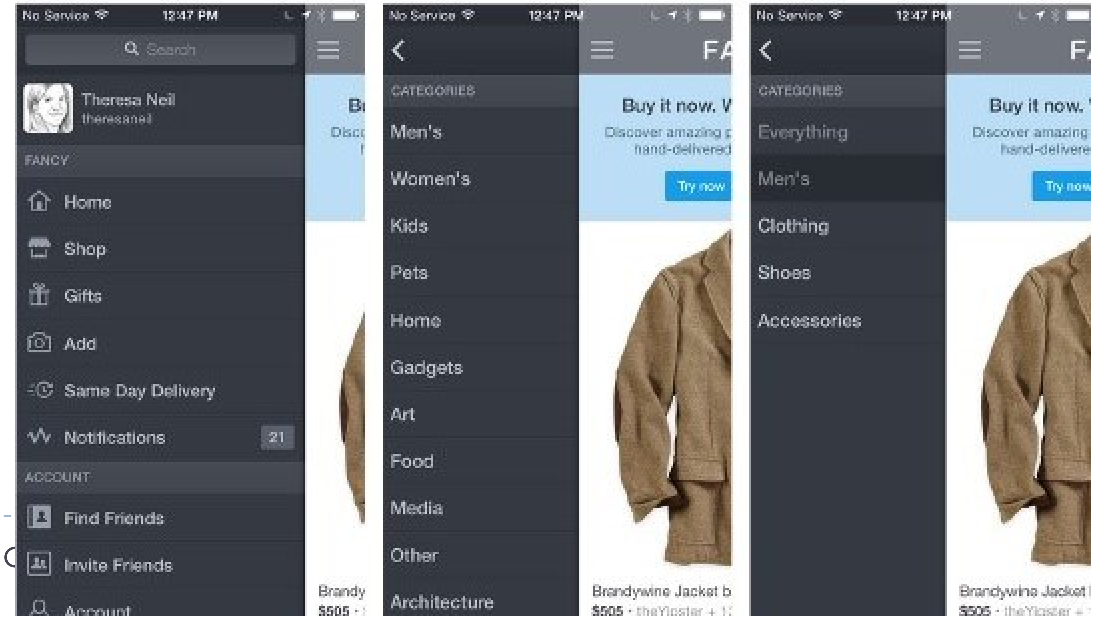
5 Likes

Add a comment...

Jared Spool
Founding Principal at User Interface E...
1h

“I was interviewed on The Digital Life podcast about design education and building teams. http://ar.gy/5URy”

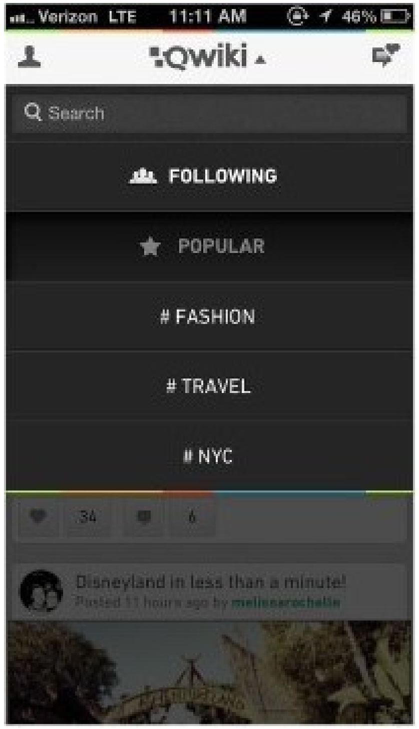
Do not overload side drawer with too many features. And **always include** a back button to the top-level navigation options.



[redacted]

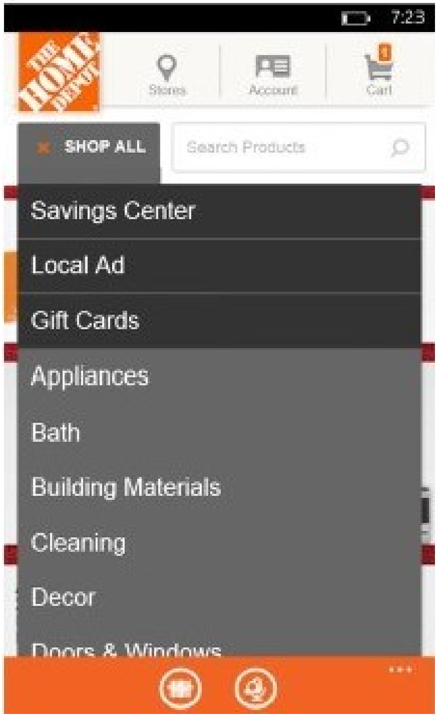
Toggle Menu

- The Toggle Menu can be an **inlay** that pushes the content down below the menu, or an **overlay** that appears as a layer above the content.
  - The overlay design is the **more common option** in native mobile apps.
  - **It should not cover the whole screen**, but instead let the background peek through. Tapping anywhere in the background should also hide the menu.



Qwiki for iOS.
Inlay toggle menu.

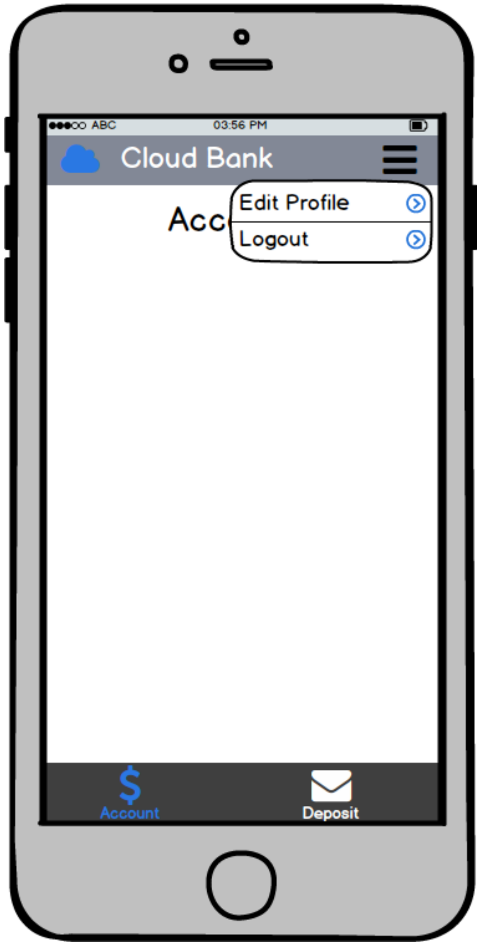
Home Depot for Windows phone
Overlay toggle menu.



Exercise

- **We want to create a series of mockups for a mobile banking application for iOS devices.**
  - Design a toggle menu that allows a logged user to see and edit her/his profile, and to perform the log out from the application. Design the mockup through Balsamiq.

Solution


●●●○○ ABC
03:56 PM
Cloud Bank
Acc
Edit Profile
Logout
Account
Deposit

Persistent vs Transient Navigation

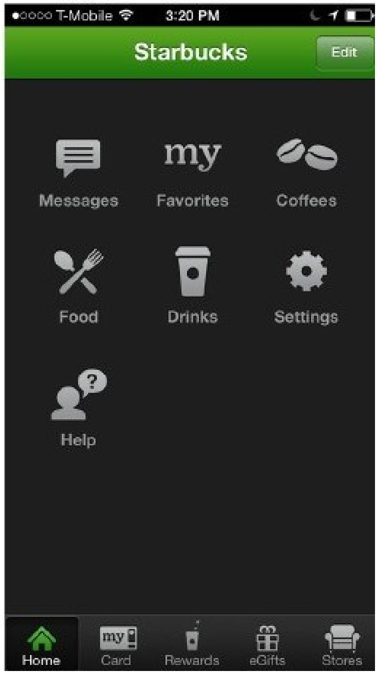
- When deciding between persistent and transient navigation, ask yourself a few questions:
  - Is your application “flat”?
  - Are the menu categories equivalent in hierarchy, and are there just a few primary categories (i.e., three to five) in the app?
  - Do your users need the menu to be always visible for quick access?
  - Do the menu categories have status indicators, like the number of unread emails, for instance?

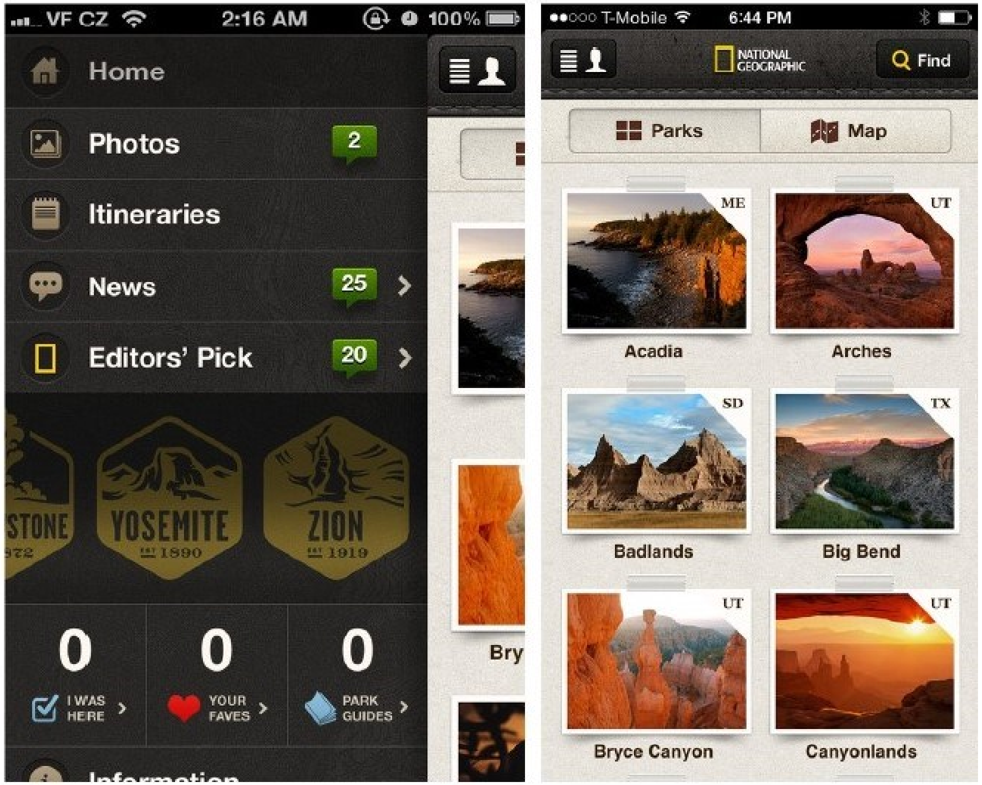
- If you answered **yes** to one or more of these questions, it’s probably best to stick with **persistent navigation**.

Secondary Navigation

National Geographic for iOS:
Side Drawer for primary navigation,
Gallery for secondary.

- It is about the navigation **within** a selected module.

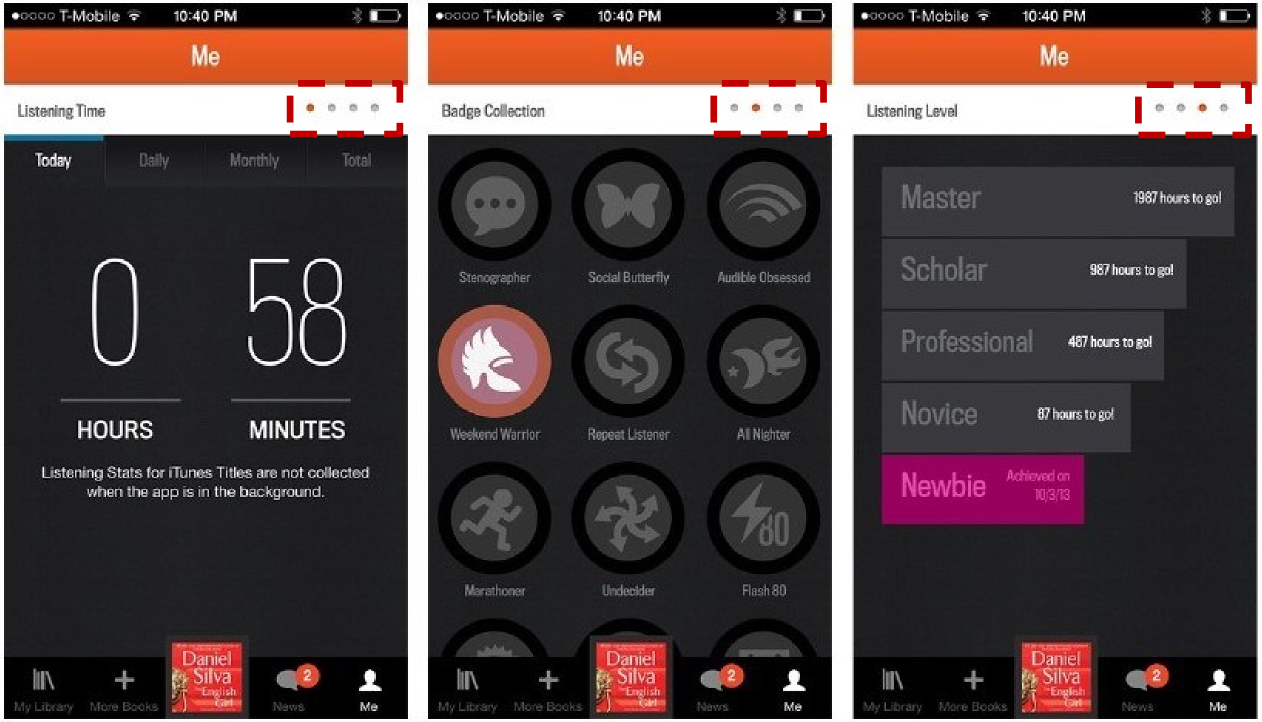




Starbucks for iOS:
Tabs for primary navigation,
Springboard for secondary.

Page Swiping

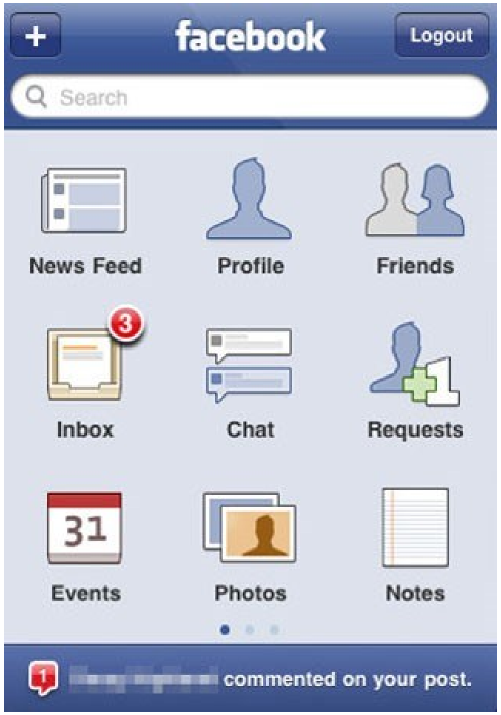
- This pattern for secondary navigation can be used to navigate quickly through content using the swipe gesture.
  - The most common way to communicate this navigation pattern is via page indicators (the iOS term for the horizontal line of little dots) or with cards.

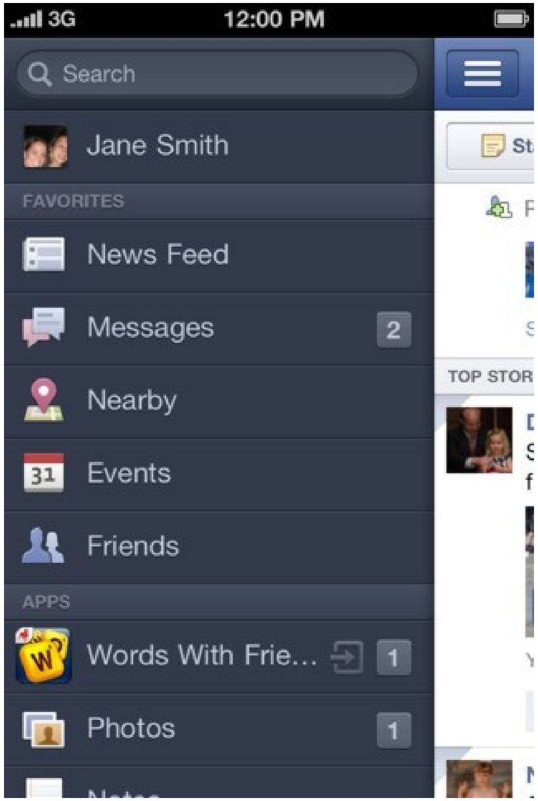


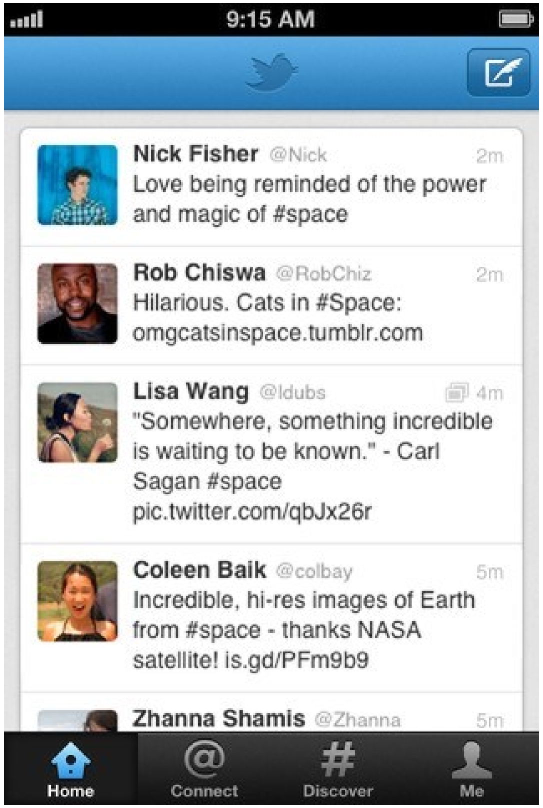
Audible for iOS.
Tabs for primary navigation,
Page Swiping for secondary.
Notice page indicators.

Exercise

- Can you compare these navigation designs?







Nick Fisher @Nick 2m
Love being reminded of the power and magic of #space

Rob Chiswa @RobChiz 2m
Hilarious. Cats in #Space: omgcatsinspace.tumblr.com

Lisa Wang @ldubs 4m
"Somewhere, something incredible is waiting to be known." - Carl Sagan #space pic.twitter.com/qbJx26r

Coleen Baik @colbay 5m
Incredible, hi-res images of Earth from #space - thanks NASA satellite! is.gd/PFm9b9

Zhanna Shamis @Zhanna 5m

Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Roadmap

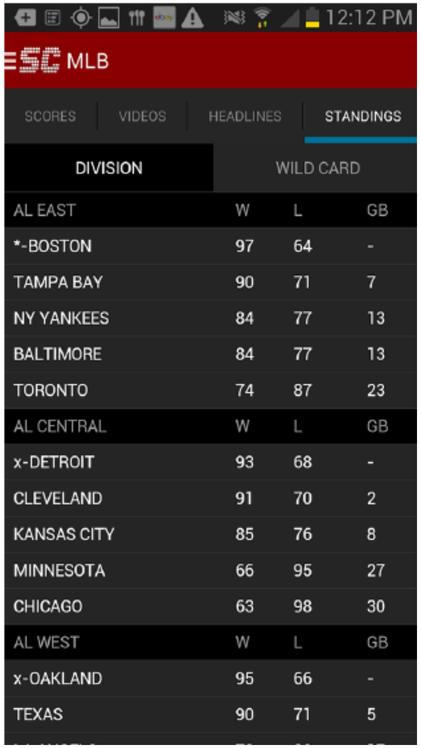
- Navigation
- **Tables**
- Forms
- Search
- Tools
- Helps and Tutorials
- Feedback & Affordance

Tables

- Used for displaying (and interacting) with data:
  - Basic Table
  - Overview plus Data
  - Headerless Table
  - Fixed Column

Basic Table

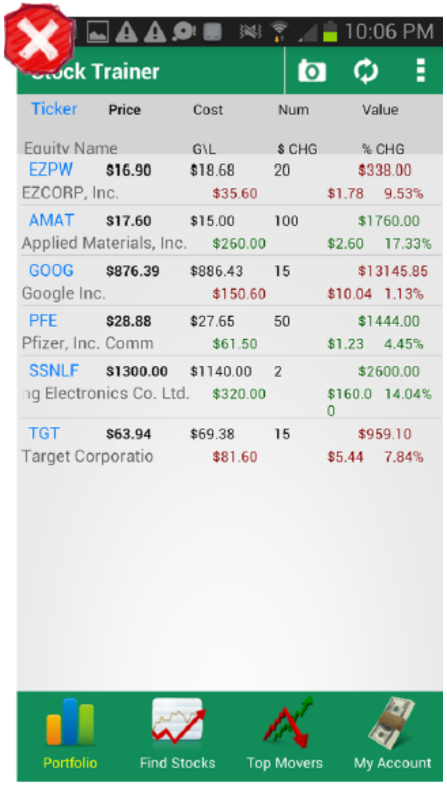
- It is just a standard table with **fixed column headers** and a **grid layout**.
- Alternating table row colors, also called ***zebra striping***, or placing a ***thin horizontal line*** between rows may enhance readability.



AL EAST	W	L	GB
*-BOSTON	97	64	-
TAMPA BAY	90	71	7
NY YANKEES	84	77	13
BALTIMORE	84	77	13
TORONTO	74	87	23
AL CENTRAL	W	L	GB
x-DETROIT	93	68	-
CLEVELAND	91	70	2
KANSAS CITY	85	76	8
MINNESOTA	66	95	27
CHICAGO	63	98	30
AL WEST	W	L	GB
x-OAKLAND	95	66	-
TEXAS	90	71	5

It's now common to **omit the vertical gridlines** to reduce visual noise.

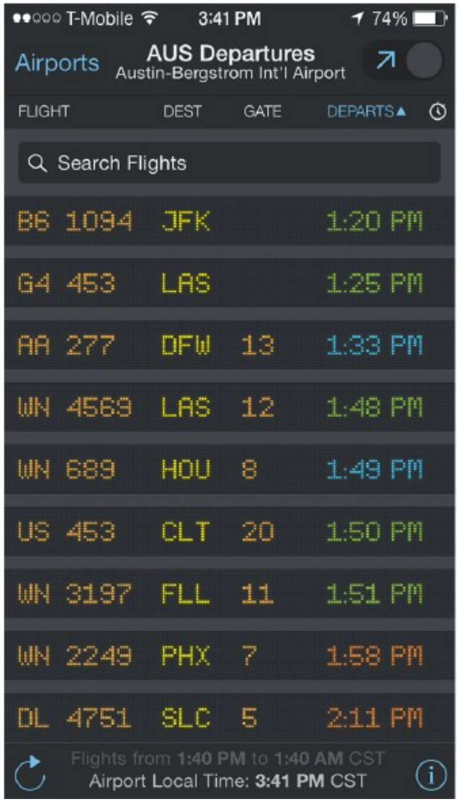
Ant-Pattern. If skipping vertical gridlines, **keep columns aligned**



Ticker	Price	Cost	Num	Value
Equity Name		G\L	$ CHG	% CHG
EZPW	$16.90	$18.68	20	$338.00
EZCORP, Inc.		$35.60	$1.78	9.53%
AMAT	$17.60	$15.00	100	$1760.00
Applied Materials, Inc.		$260.00	$2.60	17.33%
GOOG	$876.39	$886.43	15	$13145.85
Google Inc.		$150.60	$10.04	1.13%
PFE	$28.88	$27.65	50	$1444.00
Pfizer, Inc. Comm		$61.50	$1.23	4.45%
SSNLF	$1300.00	$1140.00	2	$2600.00
ng Electronics Co. Ltd.		$320.00	$160.0 0	14.04%
TGT	$63.94	$69.38	15	$959.10
Target Corporatio		$81.60	$5.44	7.84%

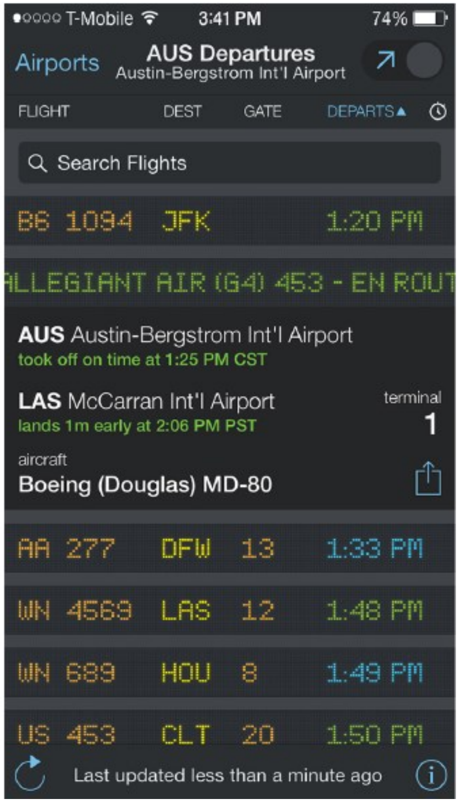
Basic Table (with Overview plus Data)

- It features a summary of the table’s content displayed above the rows of data. Inline expand with tap.



FLIGHT	DEST	GATE	DEPARTS
B6 1094	JFK		1:20 PM
G4 453	LAS		1:25 PM
AA 277	DFW	13	1:33 PM
WN 4569	LAS	12	1:48 PM
WN 689	HOU	8	1:49 PM
US 453	CLT	20	1:50 PM
WN 3197	FLL	11	1:51 PM
WN 2249	PHX	7	1:58 PM
DL 4751	SLC	5	2:11 PM

Flights from 1:40 PM to 1:40 AM CST
Airport Local Time: 3:41 PM CST



FLIGHT	DEST	GATE	DEPARTS
B6 1094	JFK		1:20 PM

ALLEGIANT AIR (G4) 453 - EN ROUT

AUS Austin-Bergstrom Int'l Airport
took off on time at 1:25 PM CST

LAS McCarran Int'l Airport
lands 1m early at 2:06 PM PST

terminal
1

aircraft
Boeing (Douglas) MD-80

FLIGHT	DEST	GATE	DEPARTS
AA 277	DFW	13	1:33 PM
WN 4569	LAS	12	1:48 PM
WN 689	HOU	8	1:49 PM
US 453	CLT	20	1:50 PM

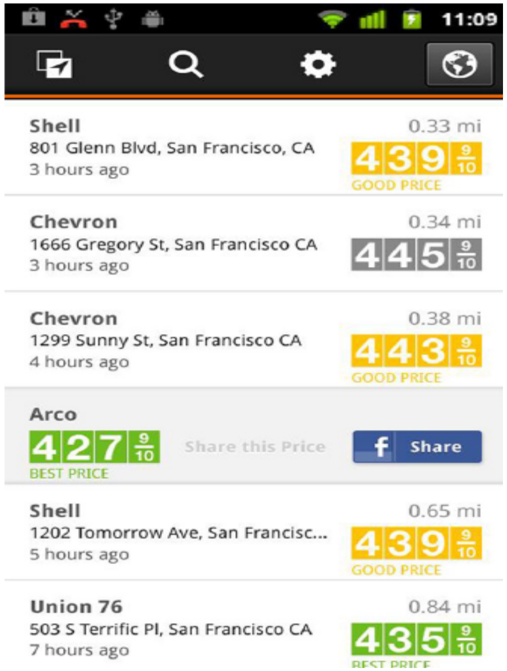
Last updated less than a minute ago

FlightBoard shows the flights for the selected airport. When users **tap on a row**, the flight details are shown **inline** instead of on a new screen.

Headerless Table

- It is characterized by **fat rows** displaying multiple variables for an object, and **no column labels**.
- It is common practice to **make the row identifier**— a key piece of information — **stand out.**

Ideal for displaying collections of items (like inventory, albums) and **search results**



11:09

Shell
801 Glenn Blvd, San Francisco, CA
3 hours ago
0.33 mi
439 9/10
GOOD PRICE

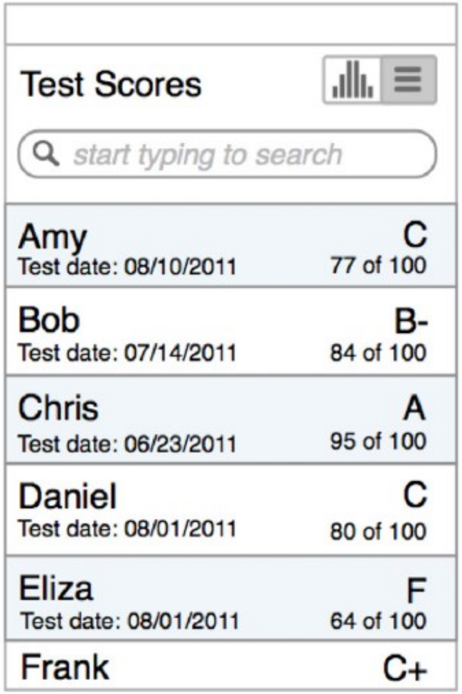
Chevron
1666 Gregory St, San Francisco CA
3 hours ago
0.34 mi
445 9/10

Chevron
1299 Sunny St, San Francisco CA
4 hours ago
0.38 mi
443 9/10
GOOD PRICE

Arco
427 9/10
BEST PRICE
Share this Price
Share

Shell
1202 Tomorrow Ave, San Francisc...
5 hours ago
0.65 mi
439 9/10
GOOD PRICE

Union 76
503 S Terrific Pl, San Francisco CA
7 hours ago
0.84 mi
435 9/10
BEST PRICE



Test Scores

start typing to search

Amy C
Test date: 08/10/2011 77 of 100

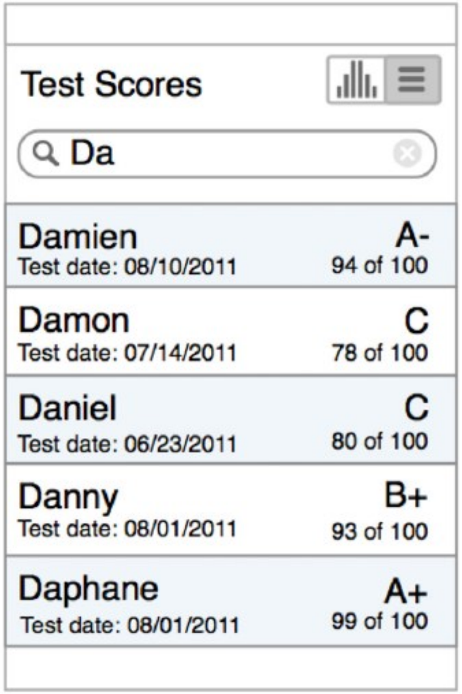
Bob B-
Test date: 07/14/2011 84 of 100

Chris A
Test date: 06/23/2011 95 of 100

Daniel C
Test date: 08/01/2011 80 of 100

Eliza F
Test date: 08/01/2011 64 of 100

Frank C+



Test Scores

Da

Damien A-
Test date: 08/10/2011 94 of 100

Damon C
Test date: 07/14/2011 78 of 100

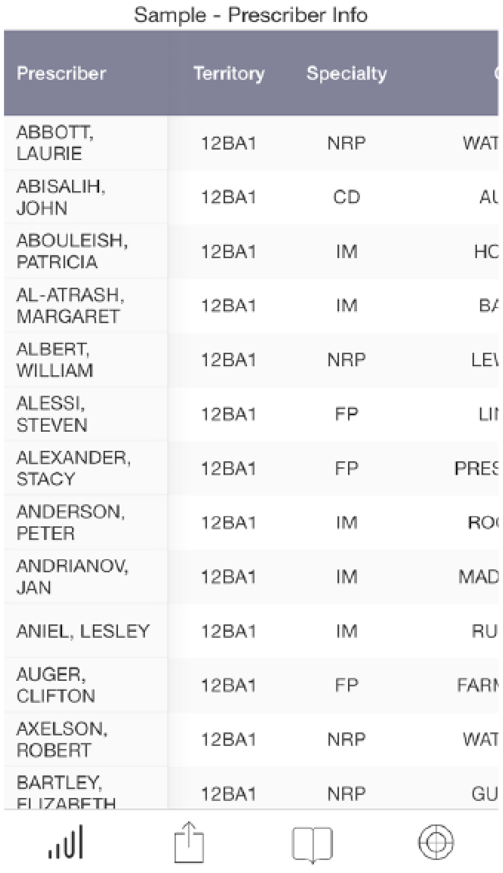
Daniel C
Test date: 06/23/2011 80 of 100

Danny B+
Test date: 08/01/2011 93 of 100

Daphane A+
Test date: 08/01/2011 99 of 100

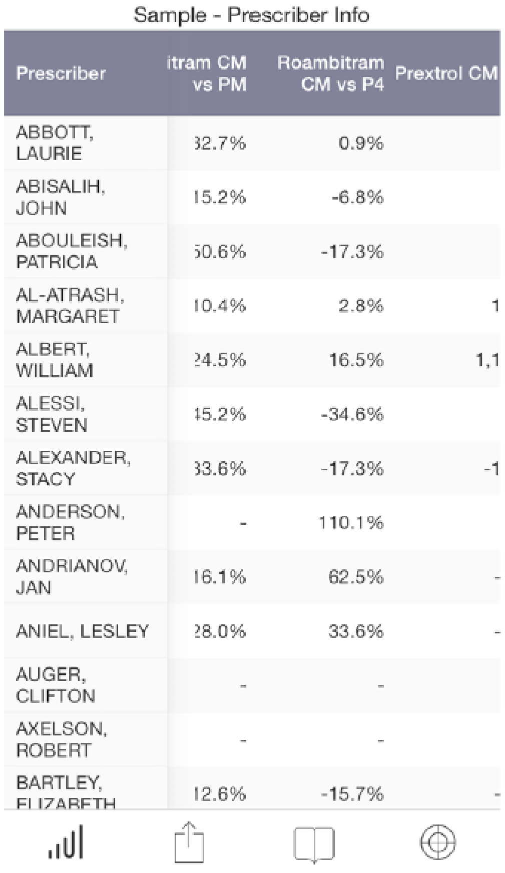
Fixed Columns

- For larger tables, the Fixed Column pattern may be a viable solution.
- The **leftmost column is fixed** and the **other columns swipe side-to-side**.



Sample - Prescriber Info

Prescriber	Territory	Specialty	C
ABBOTT, LAURIE	12BA1	NRP	WAT
ABISALIH, JOHN	12BA1	CD	AL
ABOULEISH, PATRICIA	12BA1	IM	HC
AL-ATRASH, MARGARET	12BA1	IM	BA
ALBERT, WILLIAM	12BA1	NRP	LEV
ALESSI, STEVEN	12BA1	FP	LIN
ALEXANDER, STACY	12BA1	FP	PRES
ANDERSON, PETER	12BA1	IM	ROC
ANDRIANOV, JAN	12BA1	IM	MAD
ANIEL, LESLEY	12BA1	IM	RU
AUGER, CLIFTON	12BA1	FP	FARM
AXELSON, ROBERT	12BA1	NRP	WAT
BARTLEY, ELIZABETH	12BA1	NRP	GU



Sample - Prescriber Info

Prescriber	itram CM vs PM	Roambitram CM vs P4	Prextrol CM
ABBOTT, LAURIE	32.7%	0.9%	
ABISALIH, JOHN	15.2%	-6.8%	
ABOULEISH, PATRICIA	50.6%	-17.3%	
AL-ATRASH, MARGARET	10.4%	2.8%	1
ALBERT, WILLIAM	24.5%	16.5%	1,1
ALESSI, STEVEN	45.2%	-34.6%	
ALEXANDER, STACY	33.6%	-17.3%	-1
ANDERSON, PETER	-	110.1%	
ANDRIANOV, JAN	16.1%	62.5%	-
ANIEL, LESLEY	28.0%	33.6%	-
AUGER, CLIFTON	-	-	
AXELSON, ROBERT	-	-	
BARTLEY, ELIZABETH	12.6%	-15.7%	-

It is important to clearly show that more information is available on the right.

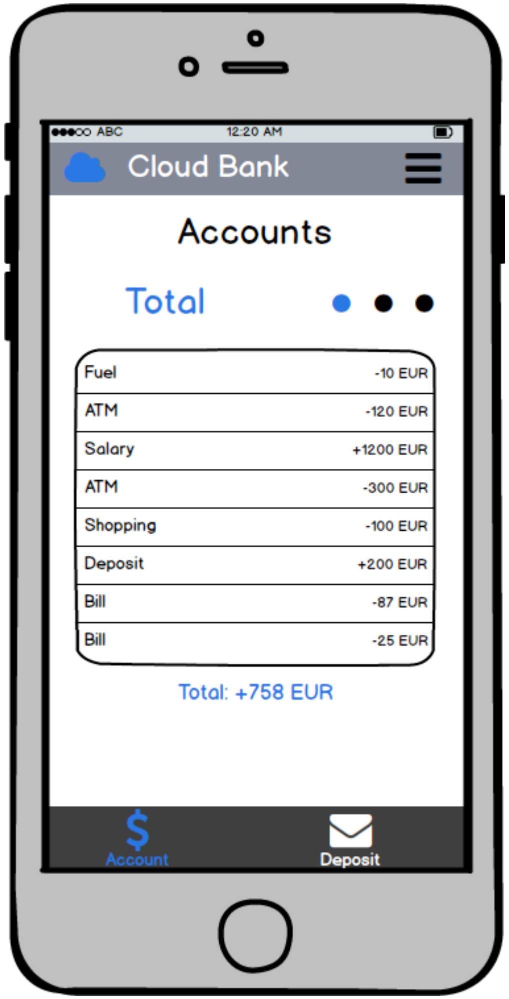
Exercise

- **We want to create a series of mockups for a mobile banking application for iOS devices.**
  - Under the Account page, design three different views to keep track of your money.

1. The first view shows the complete list of incoming (entrate) and expenses (uscite).
2. The second view shows just the list of incoming.
3. The third view shows just the list of expenses.

  - Exploit a secondary pattern for navigating the different views and tables to represent the data.

Solution

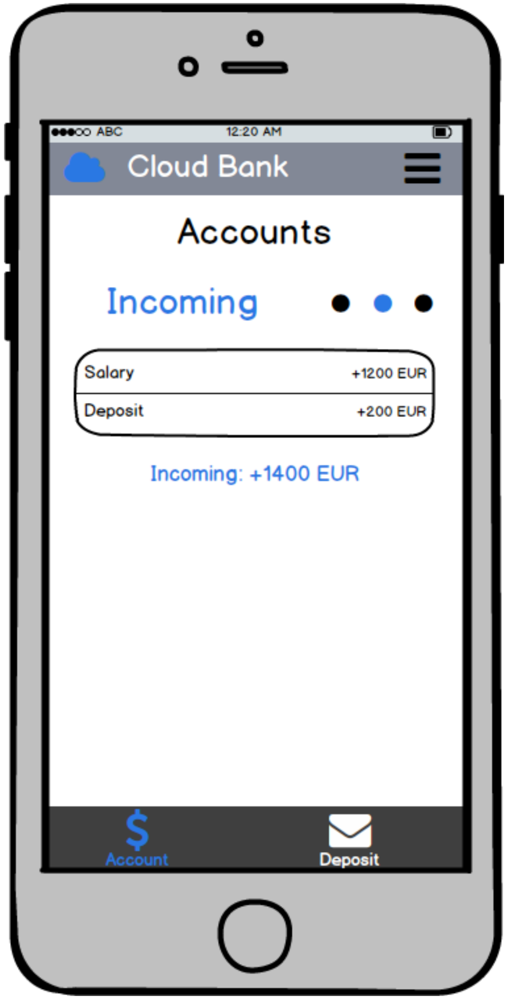


Accounts

Total ● ● ●

Fuel	-10 EUR
ATM	-120 EUR
Salary	+1200 EUR
ATM	-300 EUR
Shopping	-100 EUR
Deposit	+200 EUR
Bill	-87 EUR
Bill	-25 EUR

Total: +758 EUR

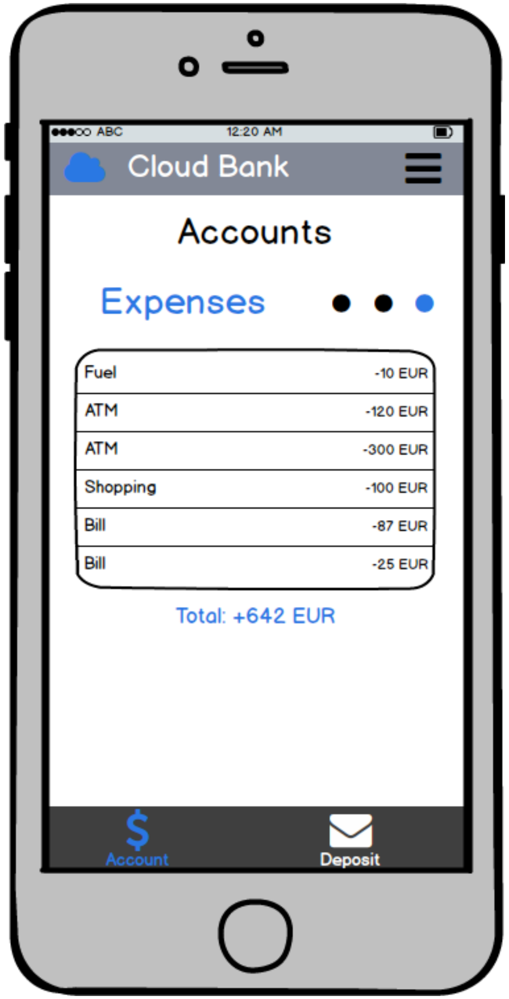


Accounts

Incoming ● ● ●

Salary	+1200 EUR
Deposit	+200 EUR

Incoming: +1400 EUR



Accounts

Expenses ● ● ●

Fuel	-10 EUR
ATM	-120 EUR
ATM	-300 EUR
Shopping	-100 EUR
Bill	-87 EUR
Bill	-25 EUR

Total: +642 EUR

Roadmap

- Navigation
- Tables
- **Forms**
- Search
- Tools
- Helps and Tutorials
- Feedback & Affordance

Forms

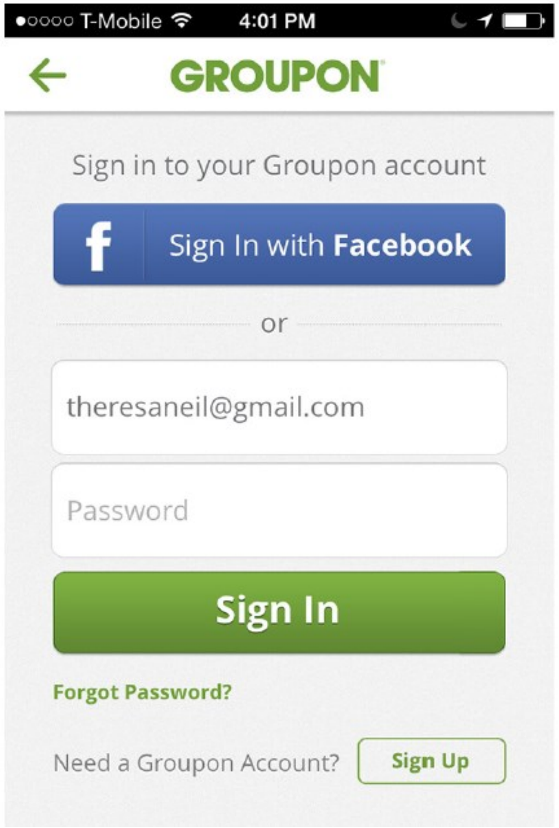
- Used for data entry and configuration features:
  - Sign In
  - Registration
  - Check-in
  - Comments
  - Users Profile
  - Share
  - Empty Datasets
  - Multi-step
  - Settings

Sign In
User Name
Password
Sign In
Register | Forgot Password
Checkout
Subtotal $0.00
Shipping $0.00
Estimated tax $0.00
Total $0.00
Shipping method
Shipping address
Payment method
Search
Criteria
Criteria
Criteria
Show 100 Results
Label
Label
Cancel
Done
Label

Sign In

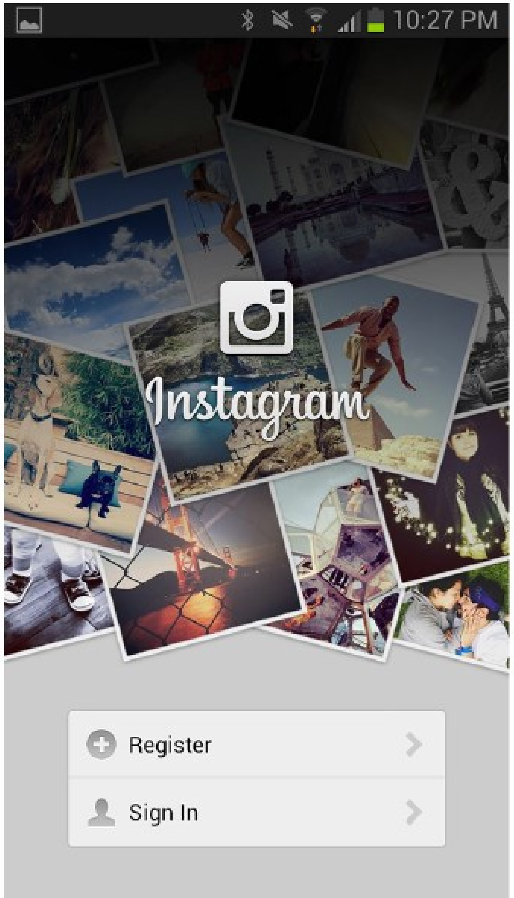
- Sign In forms require a minimal number of inputs:
  - username
  - password
  - command button
  - password help
  - option to register
  - social sign in [optional]

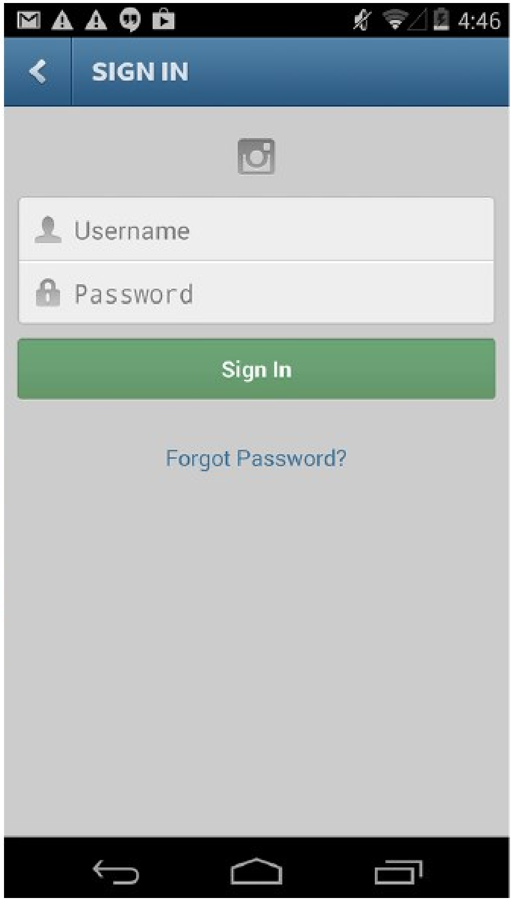
Some apps do this in a **single screen** (Groupon for iOS)



Sign In

Other apps (Instagram for Android) present the Sign In and Register options **up front**, then take the user to the appropriate form.

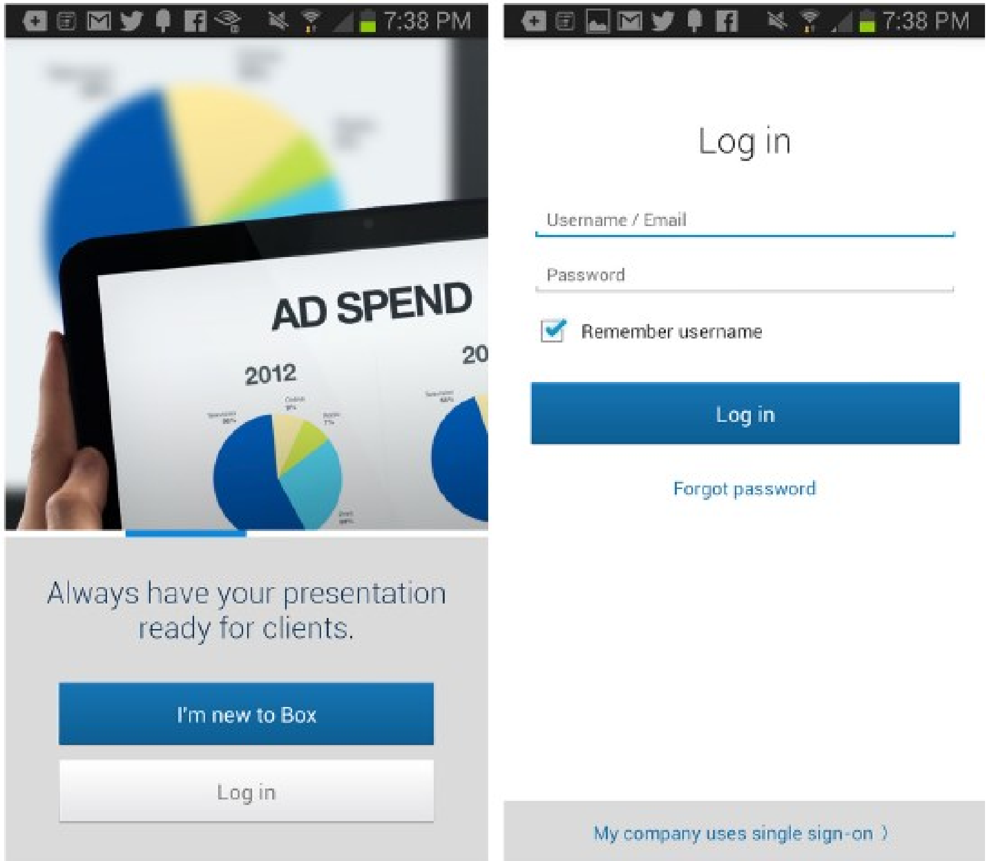




Sign In

Other apps (Box for Android), place the Sign Up and Log In options in context **within the promotional tour**.

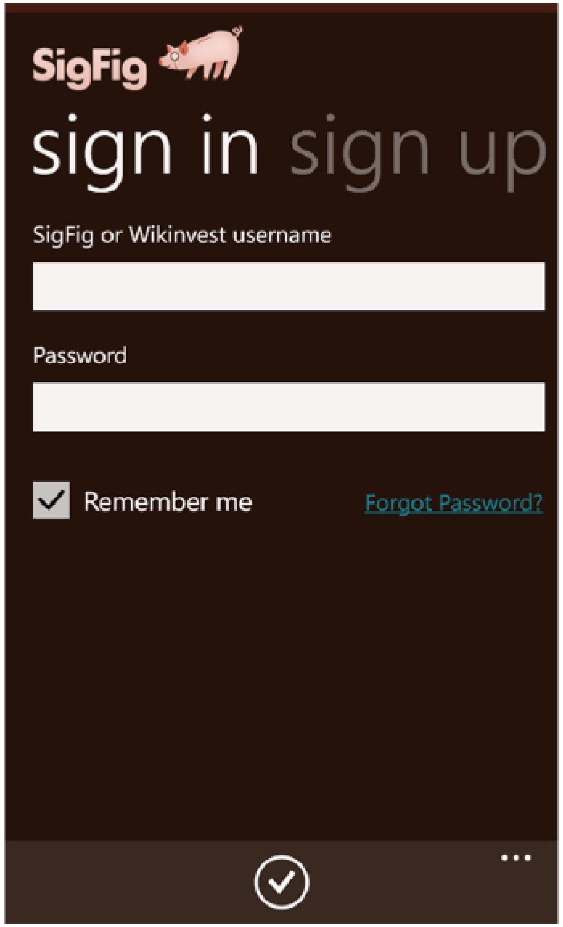
Prospective users may take action once they have been persuaded to use the app, and equally easy to simply log in.

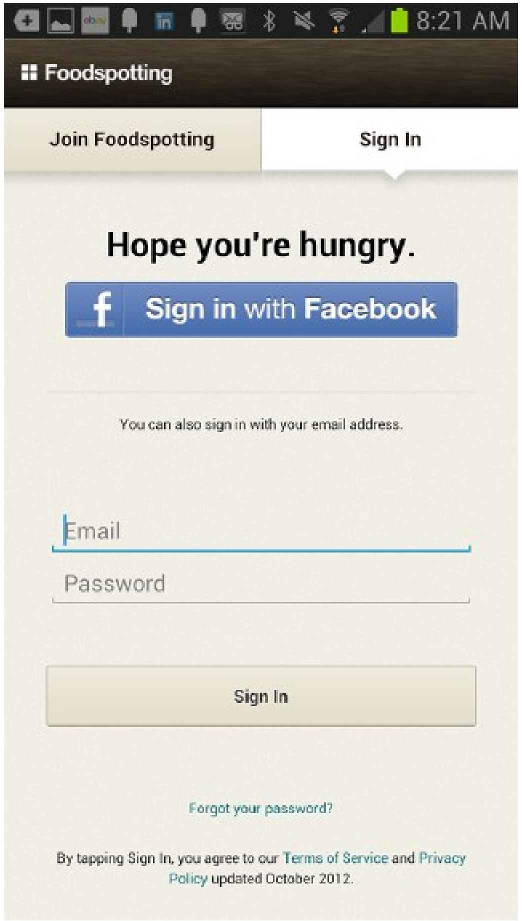


Always have your presentation ready for clients.

Sign In

Sign In and Sign Up on **tabs**. (Foodspotting for Android and SigFig for Windows Phone)





Hope you're hungry.

You can also sign in with your email address.

By tapping Sign In, you agree to our Terms of Service and Privacy Policy updated October 2012.

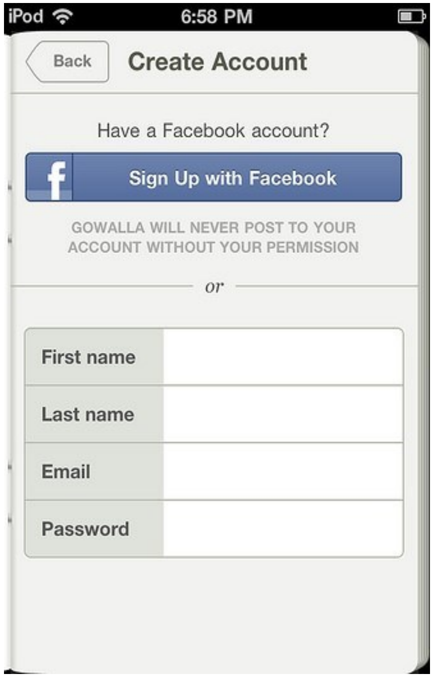
Registration

Do not force users to register if it is not stricty required!

- **Keep it short**, preferably one screen. Register button well visible.
- Eliminate the redundant Confirm Email and Confirm Password fields.

Nook for Android. Redundant Email and Password fields.

Tips: prompt users to double-check the email. Use Hide/Show options for checking the password.



Create Account

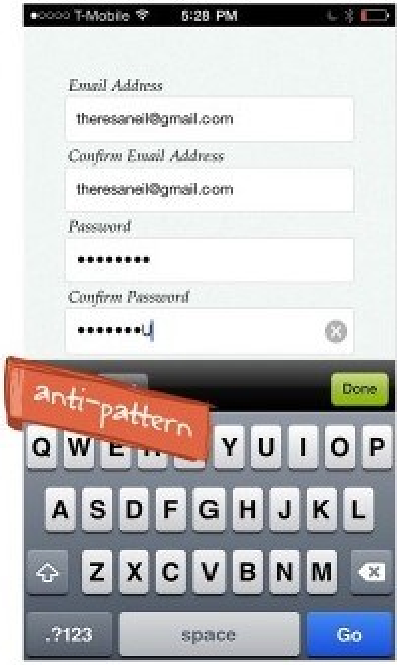
Have a Facebook account?

Sign Up with Facebook

GOWALLA WILL NEVER POST TO YOUR ACCOUNT WITHOUT YOUR PERMISSION

or

First name	
Last name	
Email	
Password	

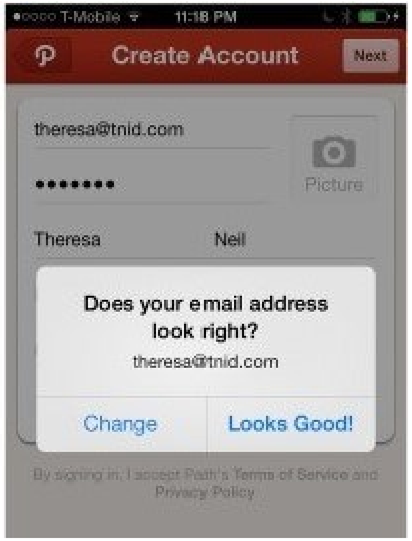


Email Address
theresaneil@gmail.com

Confirm Email Address
theresaneil@gmail.com

Password
••••••••

Confirm Password
••••••••



Create Account

theresa@tnid.com

•••••••

Theresa Neil

Does your email address look right?

theresa@tnid.com

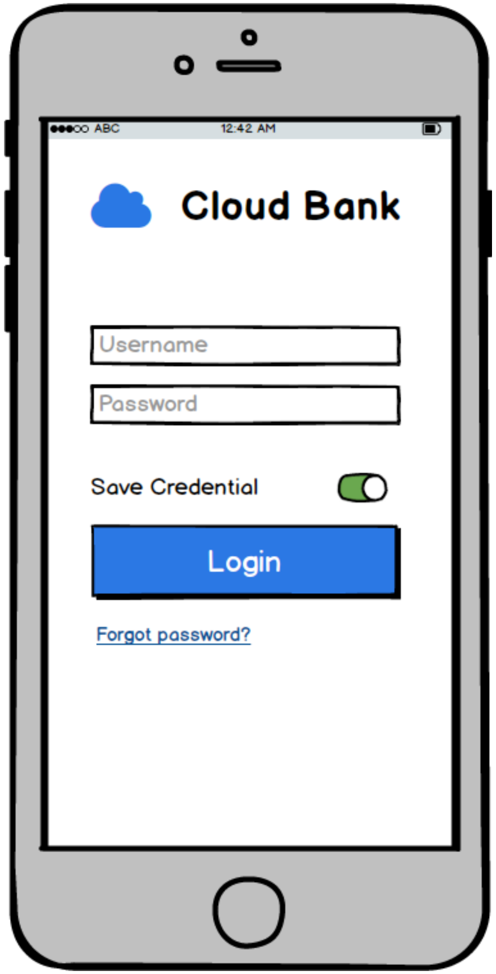
Change | Looks Good!

By signing in, I accept Path's Terms of Service and Privacy Policy

Exercise

- **We want to create a series of mockups for a mobile banking application for iOS devices.**
  - Insert a login feature that is shown when the app is opened. It should include facilities to recover the password (if forgotten) and an option to save credential for future access.
  - Each user must perform the login before using the app.
  - Clicking on Logout in the Toggle Menu makes the user come back in the Login page.

Solution



●●●○○ ABC

12:42 AM

Cloud Bank

Username

Password

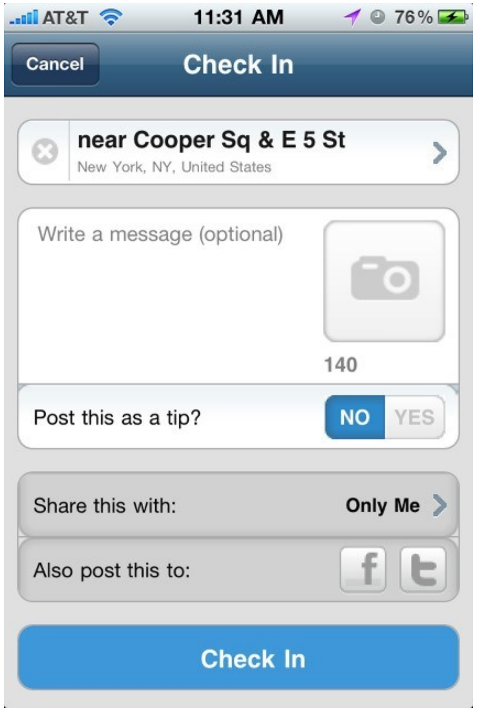
Save Credential

Login

Forgot password?

Check-in

- It allows people to use the GPS on their mobile devices to let friends know exactly where they are.
- Keep it **ultra-short**. Design for speed, and efficiency.
- **Eliminate unnecessary fields**.



near Cooper Sq & E 5 St
New York, NY, United States

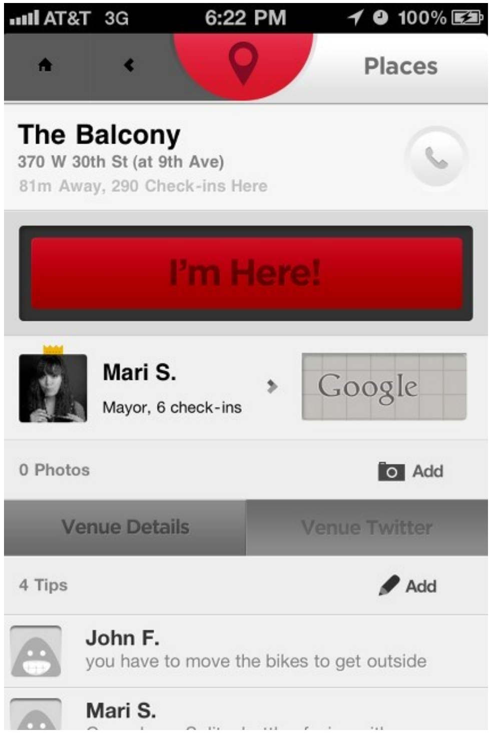
Write a message (optional)

140

Post this as a tip? NO YES

Share this with: Only Me

Also post this to:



The Balcony
370 W 30th St (at 9th Ave)
81m Away, 290 Check-ins Here

Mari S.
Mayor, 6 check-ins

0 Photos Add

4 Tips Add

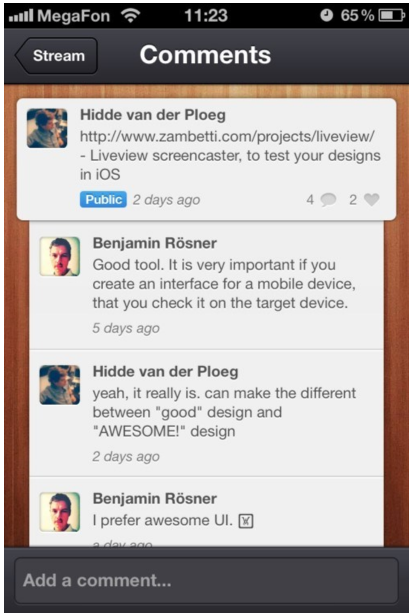
John F.
you have to move the bikes to get outside

Mari S.

Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Comments

- Feature used for inviting and allowing users to leave comment.
- **Always clarify** what is being commented!
- Show other people's **comments over time**.

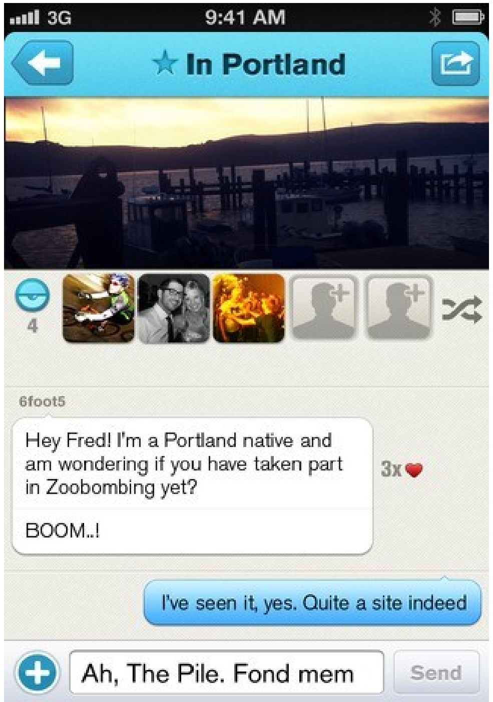


Hidde van der Ploeg
http://www.zambetti.com/projects/liveview/ - Liveview screencaster, to test your designs in iOS
2 days ago 4 2

Benjamin Rösner
Good tool. It is very important if you create an interface for a mobile device, that you check it on the target device.
5 days ago

Hidde van der Ploeg
yeah, it really is. can make the different between "good" design and "AWESOME!" design
2 days ago

Benjamin Rösner
I prefer awesome UI.
a day ago

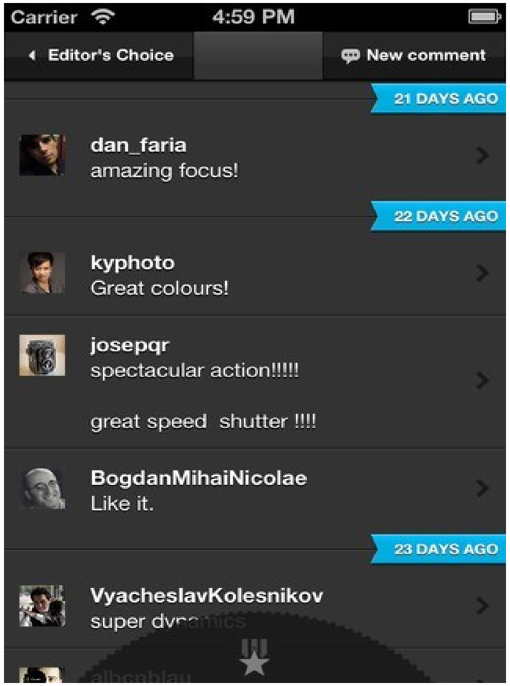


6foot5
Hey Fred! I'm a Portland native and am wondering if you have taken part in Zoobombing yet?

BOOM..!

I've seen it, yes. Quite a site indeed

Ah, The Pile. Fond mem



21 DAYS AGO

dan_faria
amazing focus!

22 DAYS AGO

kyphoto
Great colours!

josepqr
spectacular action!!!!!

great speed shutter !!!!

BogdanMihaiNicolae
Like it.

23 DAYS AGO

VyacheslavKolesnikov
super dynamics

albcnblau

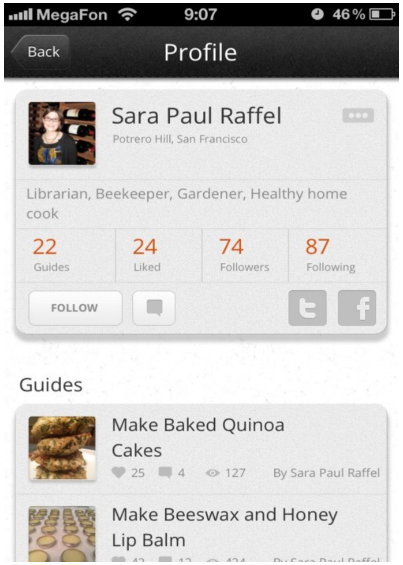
Credits: Ivano Malavolta
Design Patterns for Mobile Apps

How to show timeline?

- Within the current hour, show as *minutes ago*.
- Within the current day, show the time as number of *hours ago*.
- Within the last two days, shown the *day of the week*, and the *time range*, morning, afternoon, evening, night.
- Within the past week, show the *day of the week*.
- Within 12 months, show as *mm/DD*.
- Older than 12 months, show *only the year*.

User's Profile

- Put the **name** and the **picture in evidence**.
- Show their **contribution** to the app or to the social network.
- Provide **action controls**.



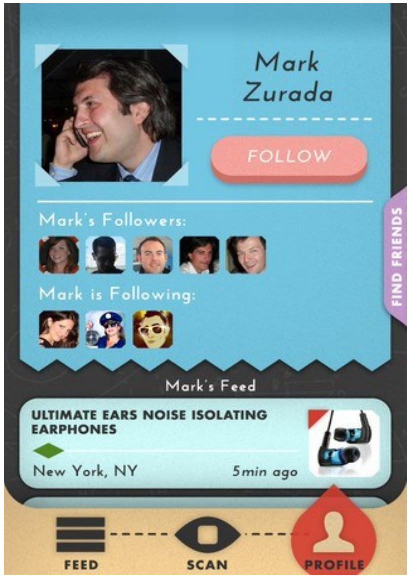
Sara Paul Raffel
Potrero Hill, San Francisco

Librarian, Beekeeper, Gardener, Healthy home cook

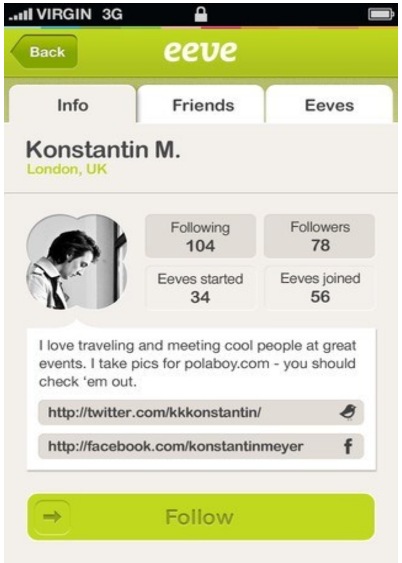
22	24	74	87
Guides	Liked	Followers	Following

Make Baked Quinoa Cakes
25 4 127 By Sara Paul Raffel

Make Beeswax and Honey Lip Balm



ULTIMATE EARS NOISE ISOLATING EARPHONES
New York, NY 5min ago



Konstantin M.
London, UK

Following	Followers
104	78
Eeves started	Eeves joined
34	56

I love traveling and meeting cool people at great events. I take pics for polaboy.com - you should check 'em out.

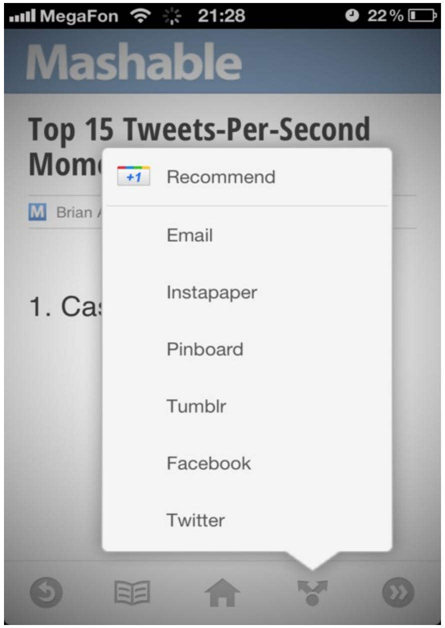
http://twitter.com/kkkonstantin/

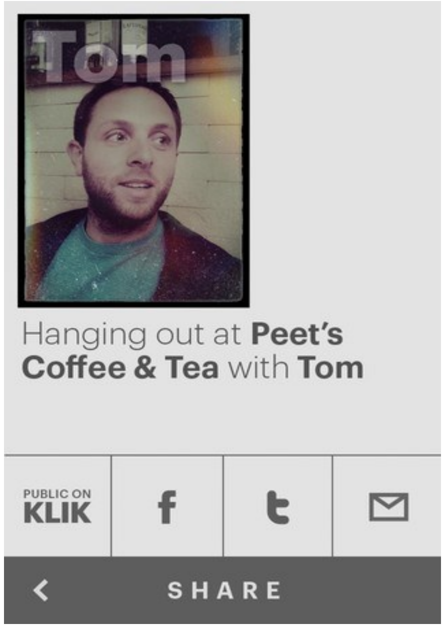
http://facebook.com/konstantinmeyer

Credits: Ivano Malavolta
Design Patterns for Mobile Apps

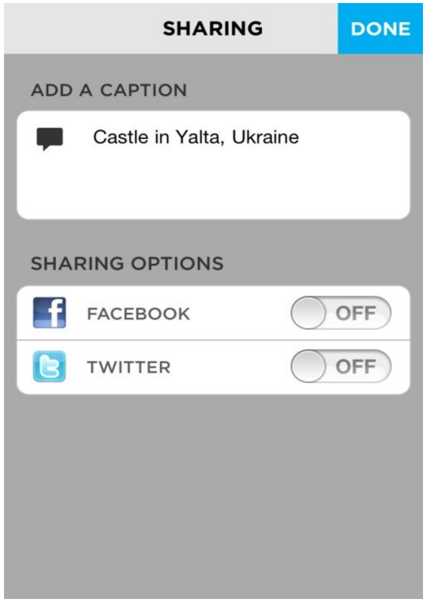
Share

- Always provide an **“off social” way to share** (e.g., by email).
- **Remark what is being shared** and keep track of past logins.





Hanging out at **Peet’s Coffee & Tea** with **Tom**



ADD A CAPTION

Castle in Yalta, Ukraine

SHARING OPTIONS

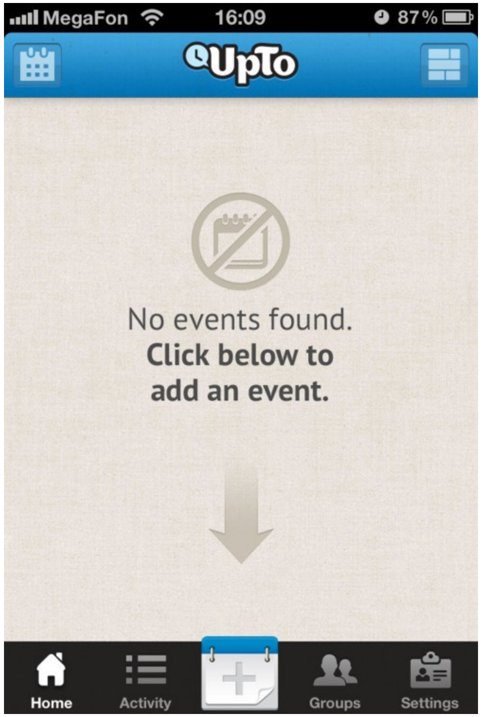
FACEBOOK OFF

TWITTER OFF

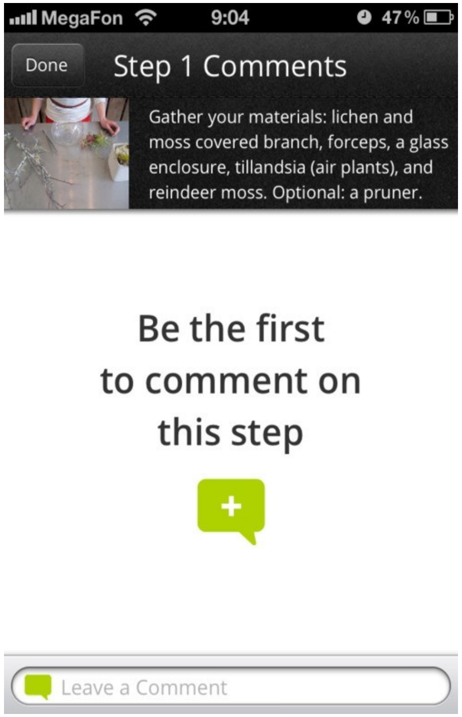
Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Empty Datasets

- **Avoid white-screens**, explain why the dataset is empty
- Call for action, only one!
- **Avoid error messages**.



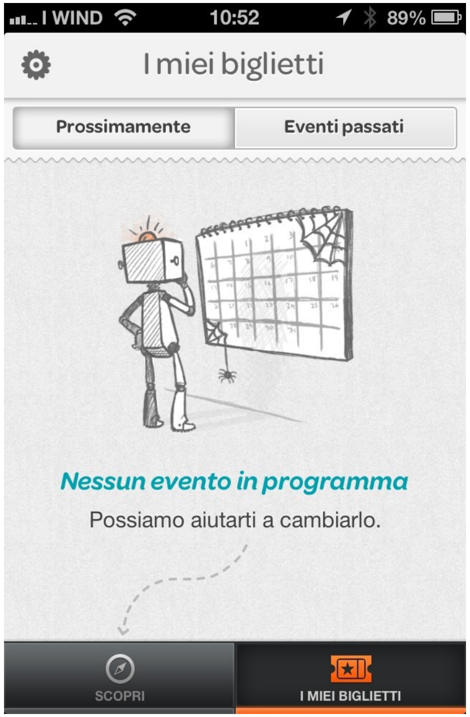
No events found. Click below to add an event.



Gather your materials: lichen and moss covered branch, forceps, a glass enclosure, tillandsia (air plants), and reindeer moss. Optional: a pruner.

Be the first to comment on this step

Leave a Comment



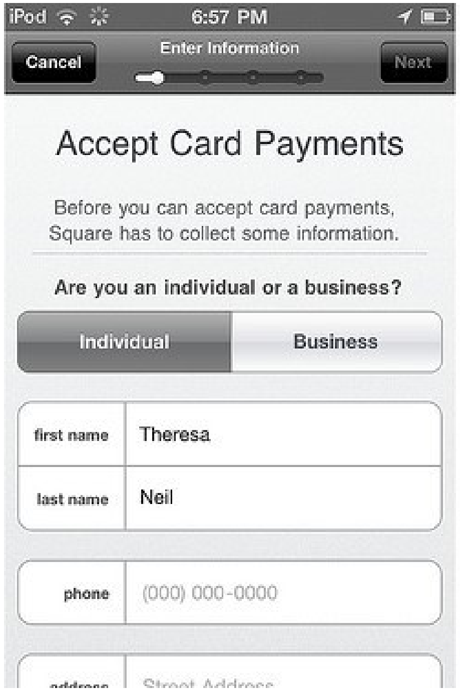
Nessun evento in programma

Possiamo aiutarti a cambiarlo.

Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Multi Steps

- Show the user **where they are** and **where they can go**.
- Often organized as **sequential workflows**.
- Minimize the number of pages and steps.



Accept Card Payments

Before you can accept card payments, Square has to collect some information.

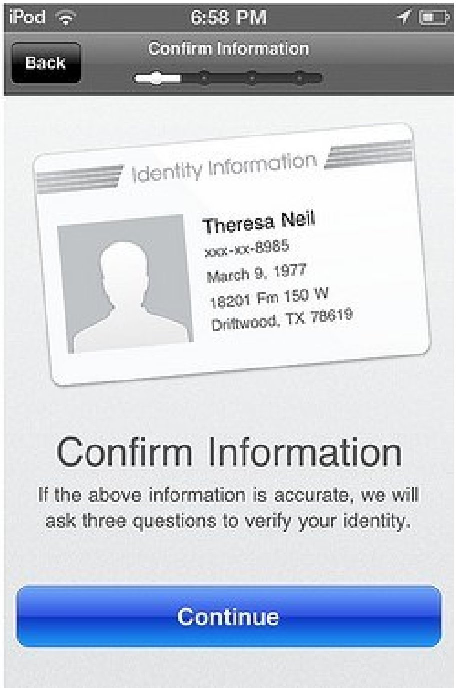
Are you an individual or a business?

first name Theresa

last name Neil

phone (000) 000-0000

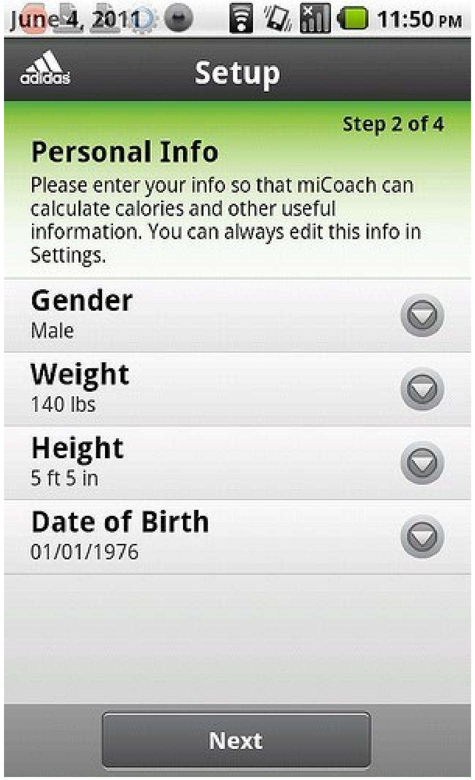
address Street Address



Theresa Neil
xxx-xx-8985
March 9, 1977
18201 Fm 150 W
Driftwood, TX 78619

Confirm Information

If the above information is accurate, we will ask three questions to verify your identity.



Step 2 of 4

Personal Info

Please enter your info so that miCoach can calculate calories and other useful information. You can always edit this info in Settings.

Gender
Male

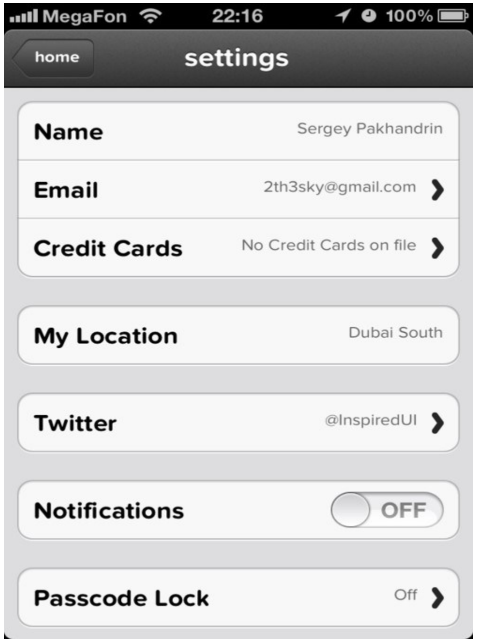
Weight
140 lbs

Height
5 ft 5 in

Date of Birth
01/01/1976

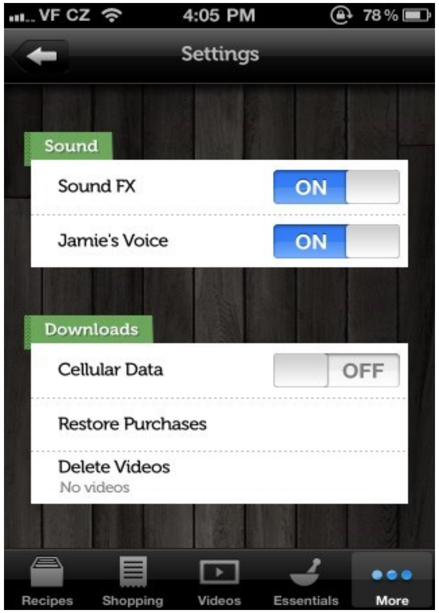
Settings

- Put them inside the app.
- **Clear** and **grouped**! Easy to be understood!



settings

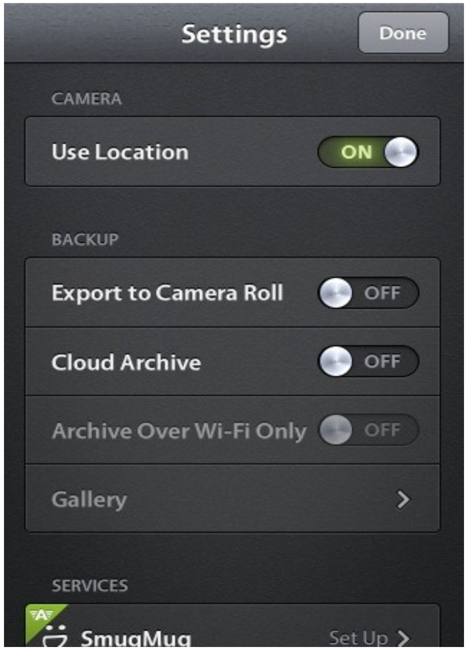
Name: Sergey Pakhandrin
Email: 2th3sky@gmail.com ›
Credit Cards: No Credit Cards on file ›
My Location: Dubai South
Twitter: @InspiredUI ›
Notifications: OFF
Passcode Lock: Off ›



Settings

Sound
Sound FX: ON
Jamie's Voice: ON

Downloads
Cellular Data: OFF
Restore Purchases
Delete Videos
No videos



Settings

CAMERA
Use Location: ON

BACKUP
Export to Camera Roll: OFF
Cloud Archive: OFF
Archive Over Wi-Fi Only: OFF
Gallery ›

SERVICES
SmugMug: Set Up ›

Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Roadmap

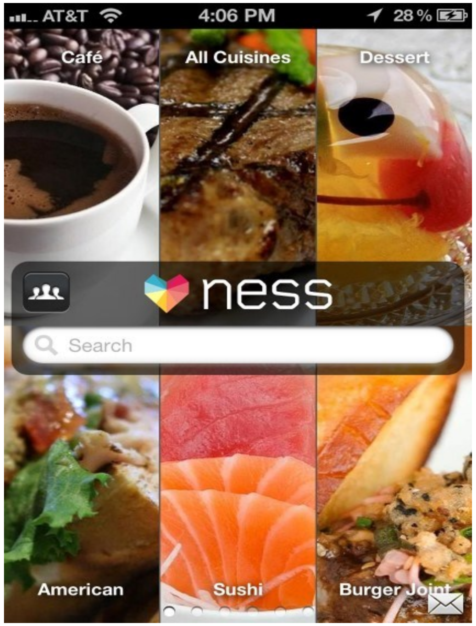
- Navigation
- Tables
- Forms
- **Search**
- Tools
- Helps and Tutorials
- Feedback & Affordance

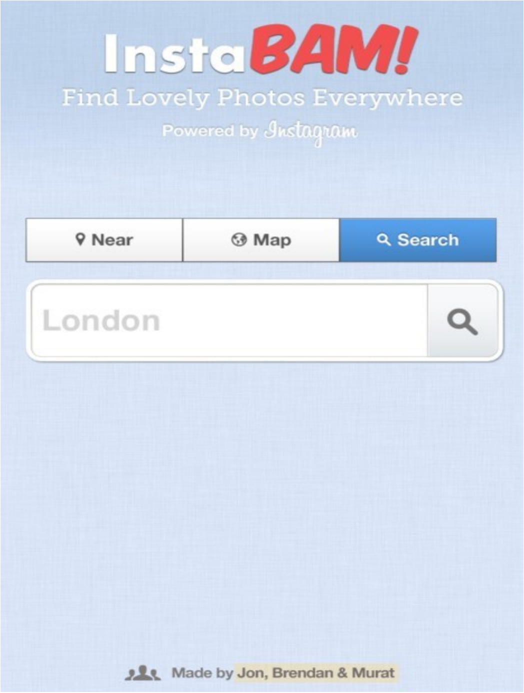
Search

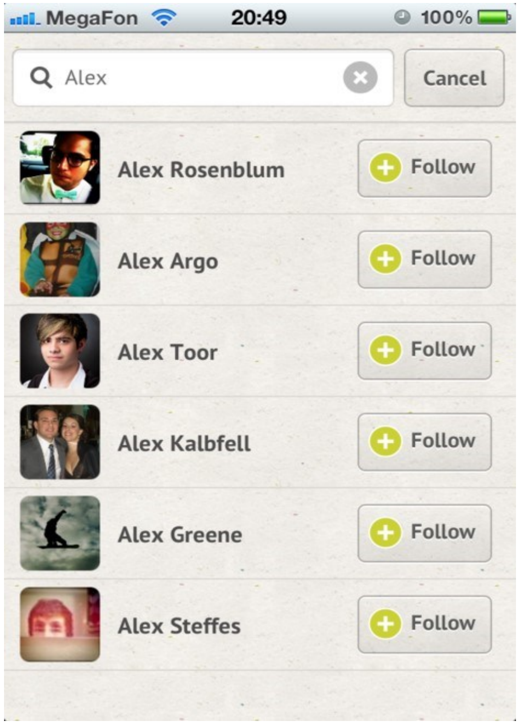
- Explicit Search
- Dynamic Search
- Search form
- Search Results

Explicit Search

- Offer a **clear button** in the field.
- Provide an **option to cancel** the search.
- **Use feedback** to show the search is being performed.



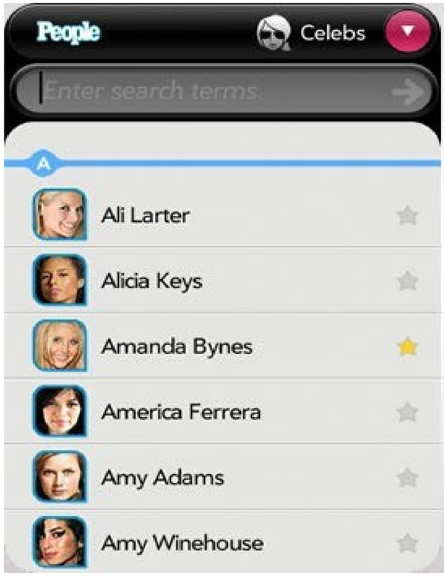




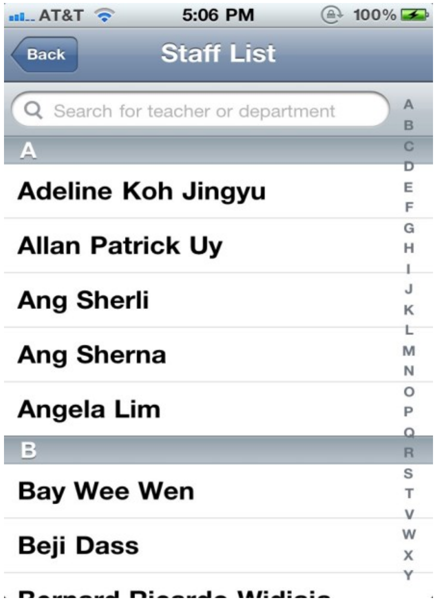
Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Dynamic Search

- **Automatically filters** a given list of items dinamically, during typing.
- Works well for constrained data sets, like an address book or personal media library.



Ali Larter
Alicia Keys
Amanda Bynes
America Ferrera
Amy Adams
Amy Winehouse


AT&T
5:06 PM
100%
Back
Staff List
Search for teacher or department
A B C D E F G H I J K L M N O P Q R S T V W X Y

A

Adeline Koh Jingyu
Allan Patrick Uy
Ang Sherli
Ang Sherna
Angela Lim

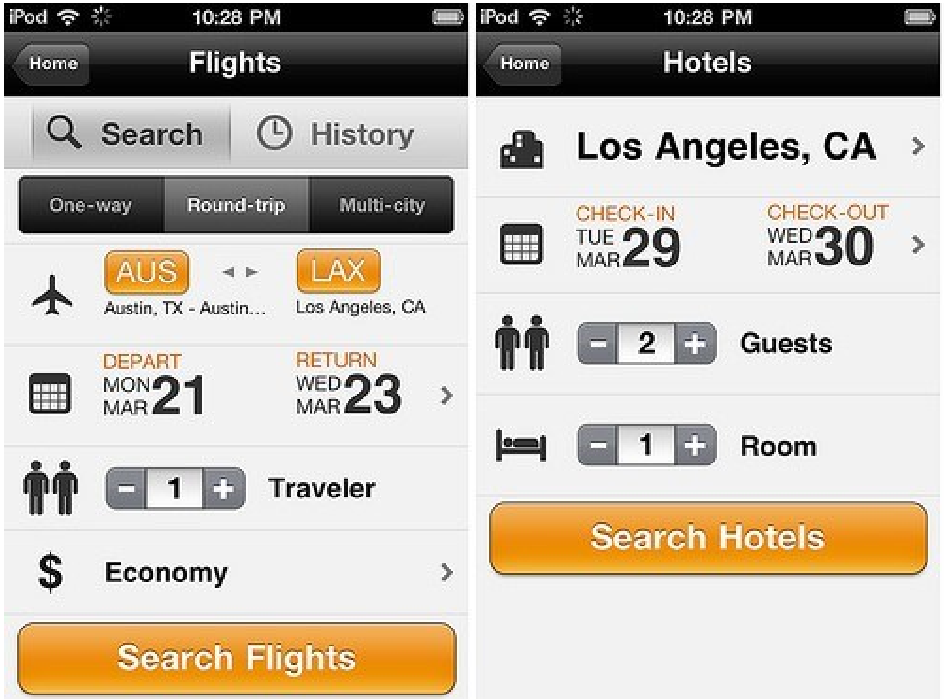
B

Bay Wee Wen
Beji Dass

Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Search form

- **Minimize** the number of input fields.
- Follow form design best practices (alignment, labels, size)
- Use only when strictly needed!



iPod 10:28 PM

Home Flights

Search History

One-way Round-trip Multi-city

AUS ◂ ▸ LAX

Austin, TX - Austin... Los Angeles, CA

DEPART MON MAR 21 RETURN WED MAR 23 ›

− 1 + Traveler

$ Economy ›

Search Flights

iPod 10:28 PM

Home Hotels

Los Angeles, CA ›

CHECK-IN TUE MAR 29 CHECK-OUT WED MAR 30 ›

− 2 + Guests

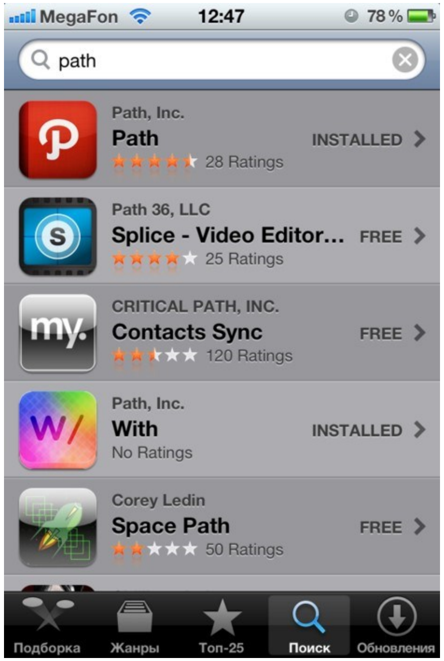
− 1 + Room

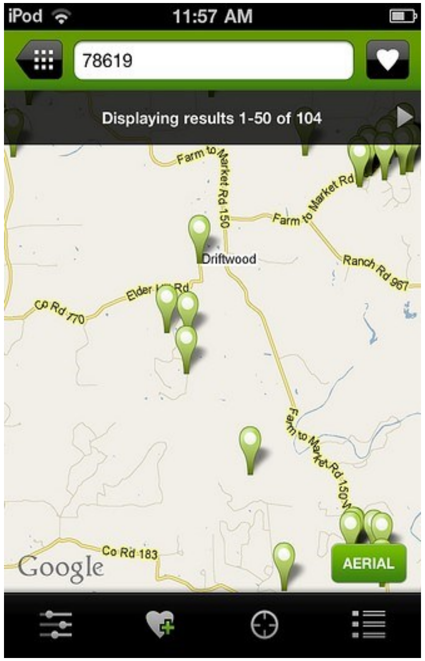
Search Hotels

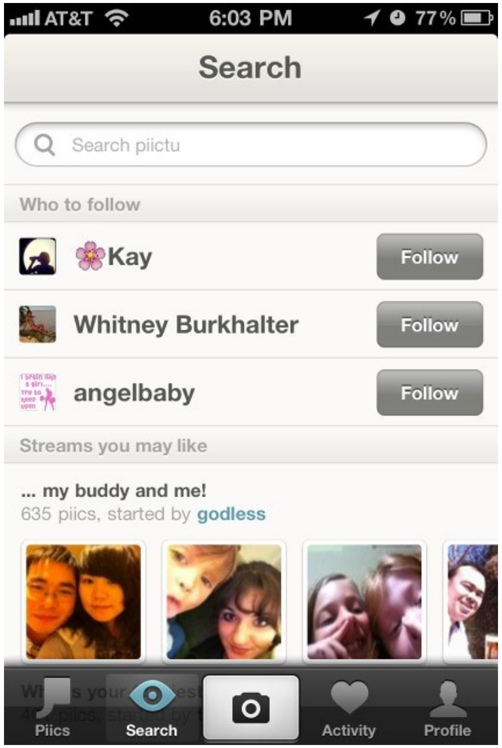
Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Search Results

- **Scroll down** to analyze the results.
- Apply a **reasonable default sort order**.
- Call for action.







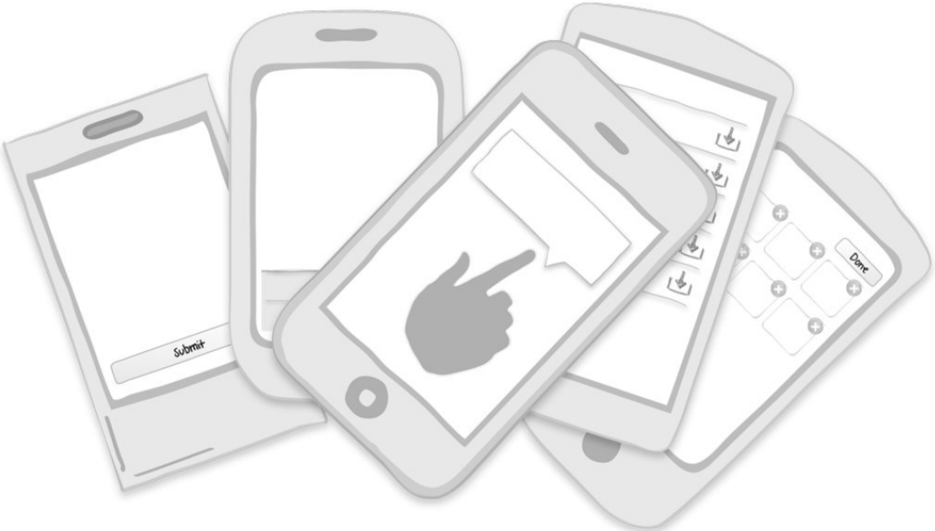
Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Roadmap

- Navigation
- Tables
- Forms
- Search
- **Tools**
- Helps and Tutorials
- Feedback & Affordance

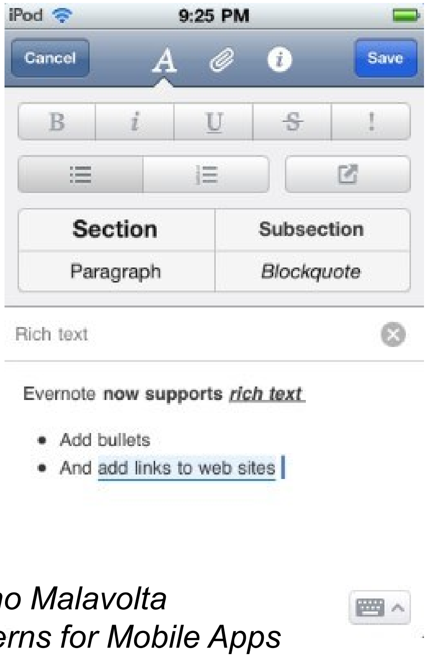
Tools

- Buttons & Controls
  - Toolbar
  - Contextual Buttons
  - Inline Actions
  - Call to Action Buttons
  - Multi-state Button
  - Actions on Maps



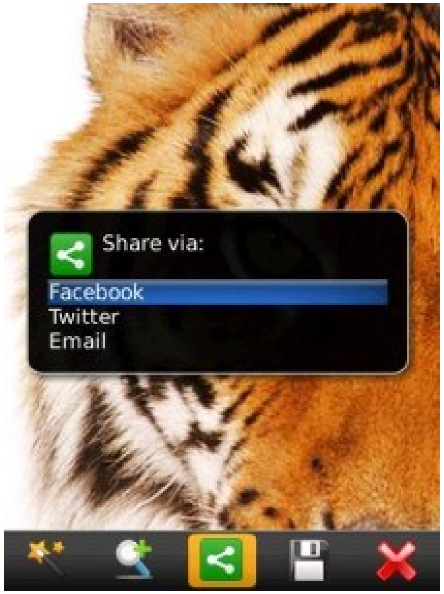
Toolbar

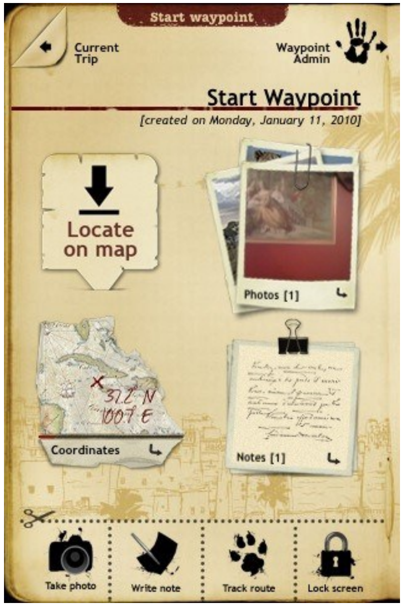
- Contain **screen level actions**, they are generally displayed at the bottom of the screen. **Different** from the tab bar!
- Choose icons that are easy to recognize, or use labels plus icons!



Evernote now supports *rich text*

- Add bullets
- And add links to web sites

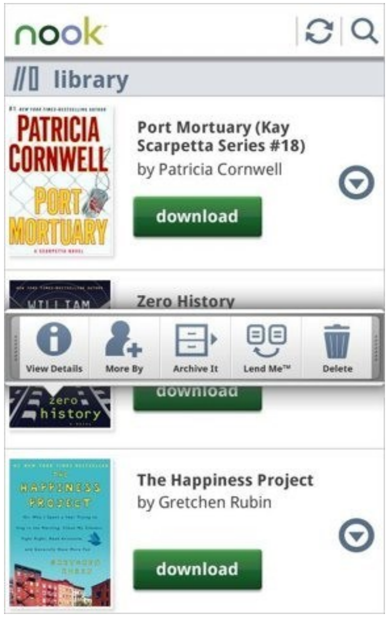




Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Contextual Buttons

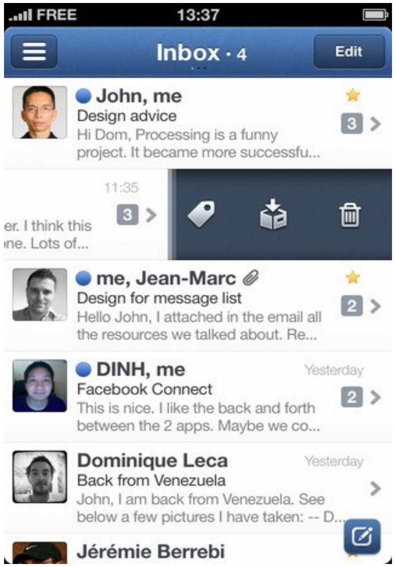
- If buttons are necessary, they should be displayed in **proximity to the actionable object**.
- Choose a familiar icon or use a text label.



Port Mortuary (Kay Scarpetta Series #18)
by Patricia Cornwell

Zero History

The Happiness Project
by Gretchen Rubin



John, me
Design advice
Hi Dom, Processing is a funny project. It became more successfu...

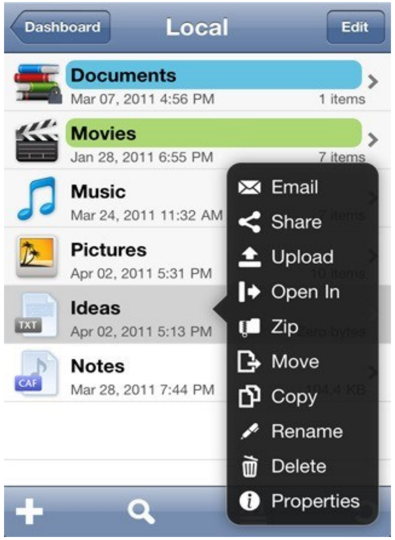
11:35
er. I think this ne. Lots of...

me, Jean-Marc
Design for message list
Hello John, I attached in the email all the resources we talked about. Re...

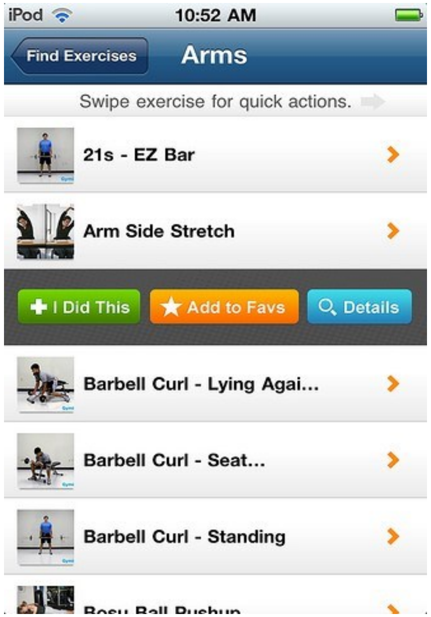
DINH, me — Yesterday
Facebook Connect
This is nice. I like the back and forth between the 2 apps. Maybe we co...

Dominique Leca — Yesterday
Back from Venezuela
John, I am back from Venezuela. See below a few pictures I have taken: -- D...

Jérémie Berrebi



Documents — Mar 07, 2011 4:56 PM — 1 items
Movies — Jan 28, 2011 6:55 PM — 7 items
Music — Mar 24, 2011 11:32 AM
Pictures — Apr 02, 2011 5:31 PM
Ideas — Apr 02, 2011 5:13 PM
Notes — Mar 28, 2011 7:44 PM



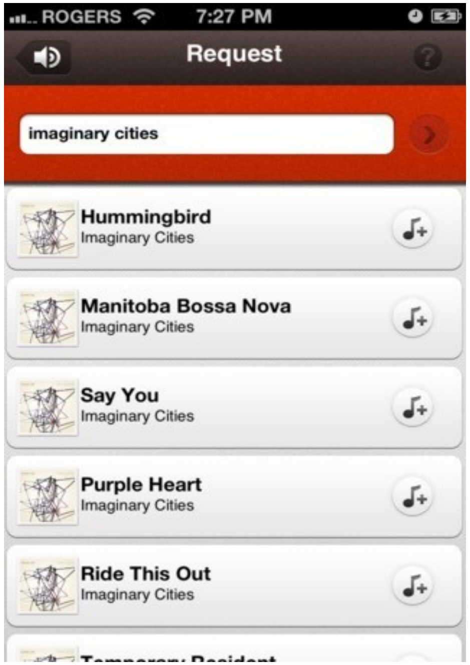
Swipe exercise for quick actions.

21s - EZ Bar
Arm Side Stretch
Barbell Curl - Lying Agai...
Barbell Curl - Seat...
Barbell Curl - Standing
Bosu Ball Pushup

Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Inline Actions

- They should be in **proximity to the actionable object**.
- Choose a familiar icon or use a text label.
- Max 1 to 2 Inline Actions per object!.



imaginary cities

Hummingbird
Imaginary Cities

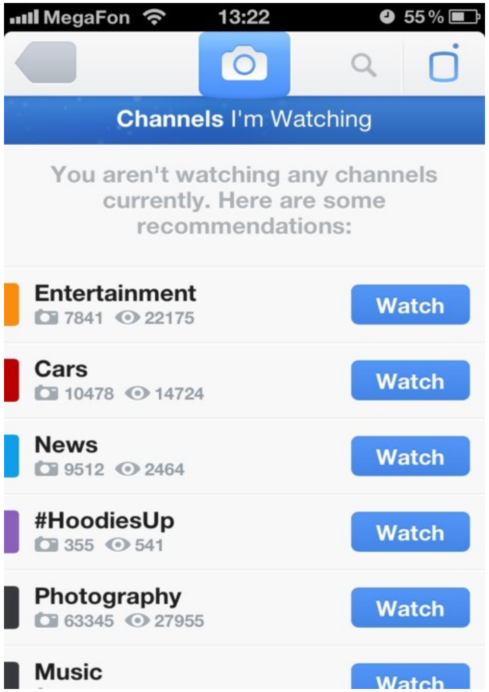
Manitoba Bossa Nova
Imaginary Cities

Say You
Imaginary Cities

Purple Heart
Imaginary Cities

Ride This Out
Imaginary Cities

Temporary Resident



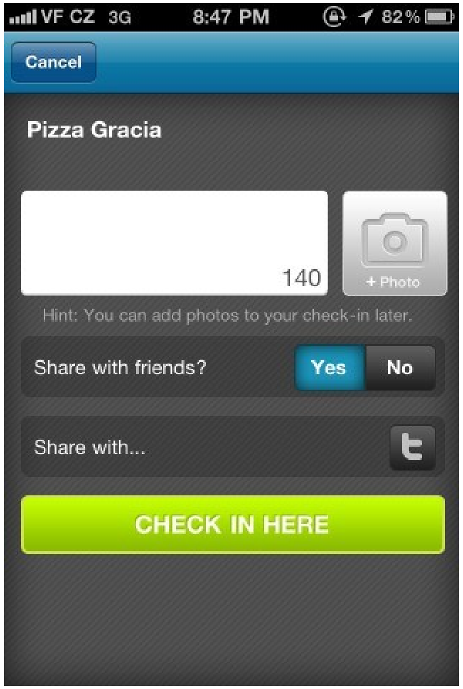
You aren't watching any channels currently. Here are some recommendations:

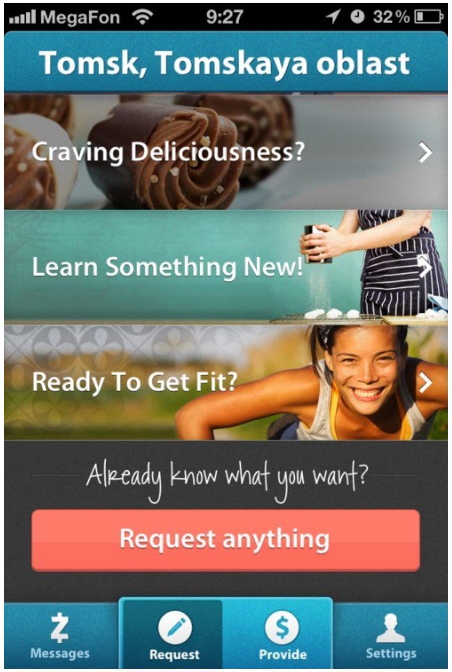
Entertainment	7841 22175	Watch
Cars	10478 14724	Watch
News	9512 2464	Watch
#HoodiesUp	355 541	Watch
Photography	63345 27955	Watch
Music		Watch

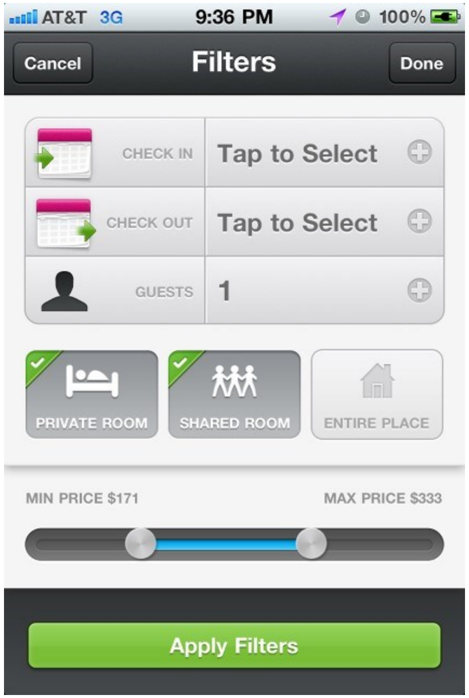
Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Call to Action Buttons

- **Don’t hide the main call to action** in a menu or disguise it as an unrecognizable icon in a toolbar.
- **Good contrast** and **clear label**!



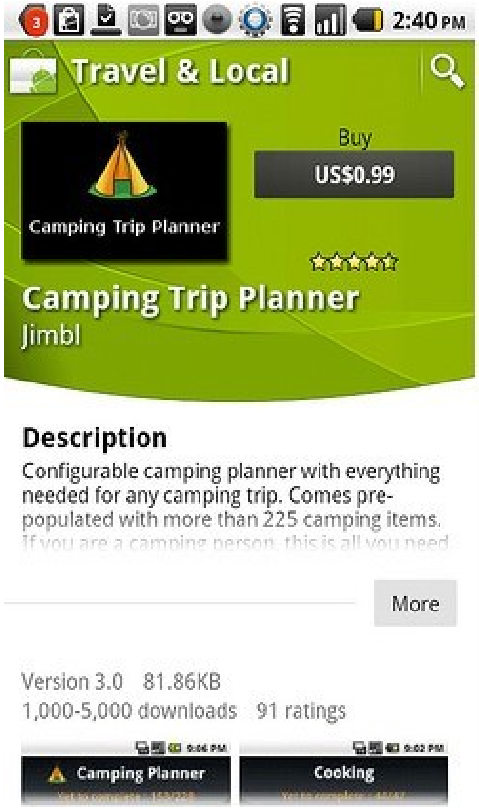




Credits: Ivano Malavolta
Design Patterns for Mobile Apps

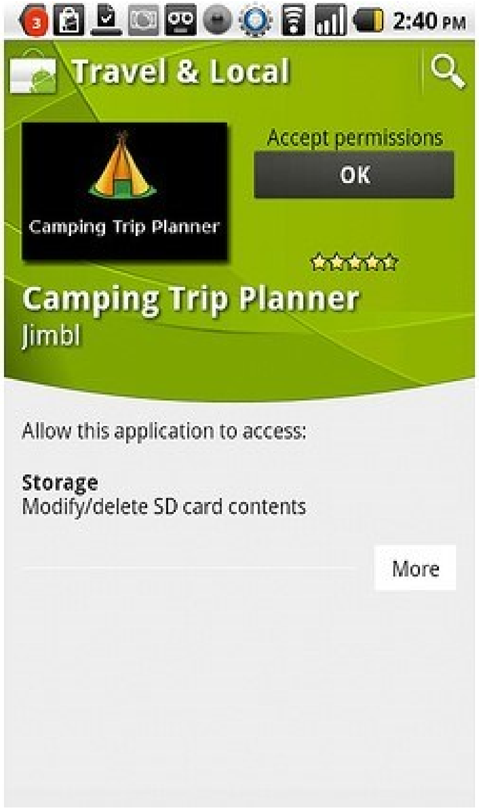
Multi-state Buttons

- Multi-State Buttons work well for a series of tightly correlated actions that will to be performed in succession.



Configurable camping planner with everything needed for any camping trip. Comes pre-populated with more than 225 camping items. If you are a camping person, this is all you need

Version 3.0 81.86KB
1,000-5,000 downloads 91 ratings



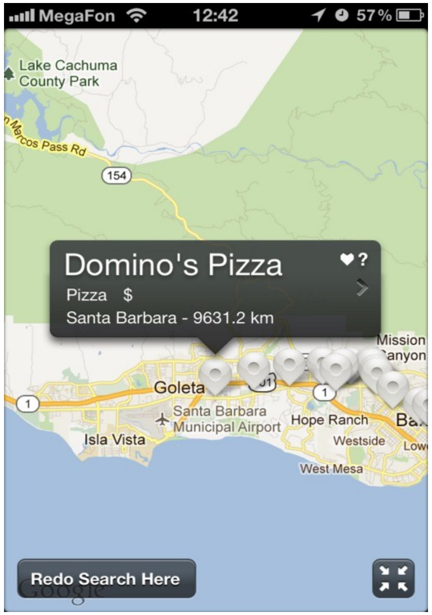
Allow this application to access:

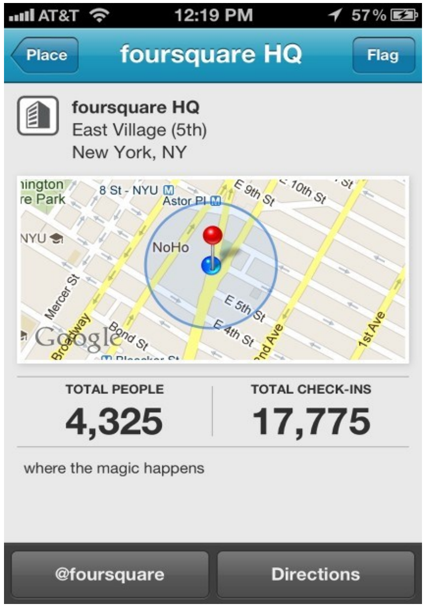
Storage
Modify/delete SD card contents

Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Actions on Maps

- Provide visible markers (avoiding “terrain-mode”).
- Use as **much screen** as possible
- Can be small if the location is not the main item.

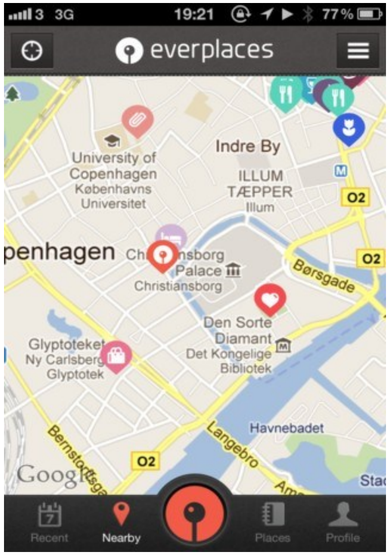




foursquare HQ
East Village (5th)
New York, NY

TOTAL PEOPLE	TOTAL CHECK-INS
4,325	17,775

where the magic happens



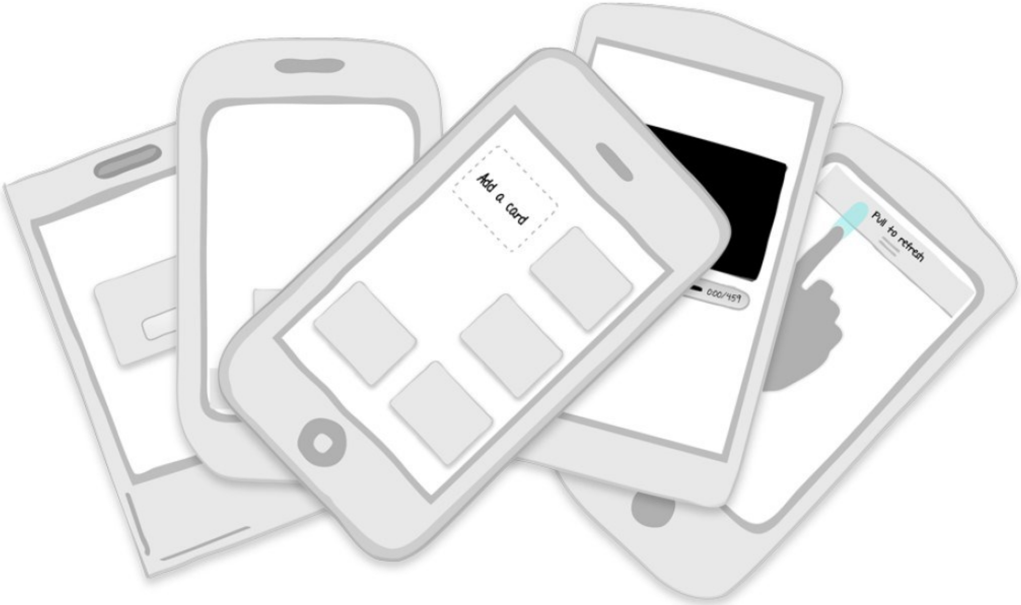
Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Roadmap

- Navigation
- Tables
- Forms
- Search
- Tools
- **Helps and Tutorials**
- Feedback & Affordance

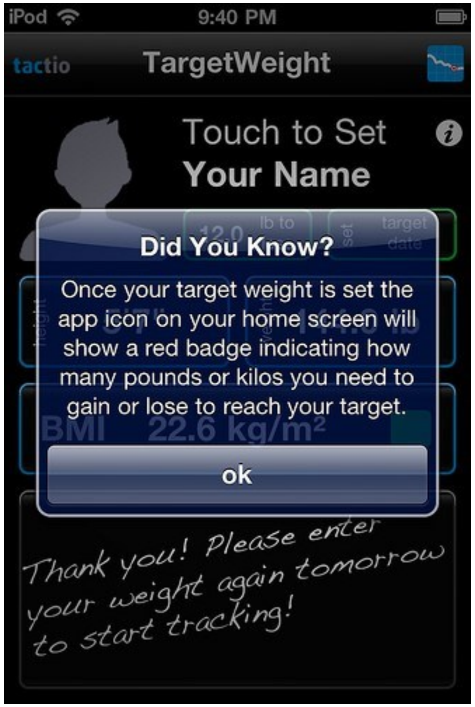
Helps and Tutorials

- Helpful tips displayed the first time a user launches an app.
  - Dialog
  - Tips
  - Tour
  - Video
  - Transparency



Dialog

- Keep **dialog content short**.
- Make sure there is an alternate way to access instructions from within the application.

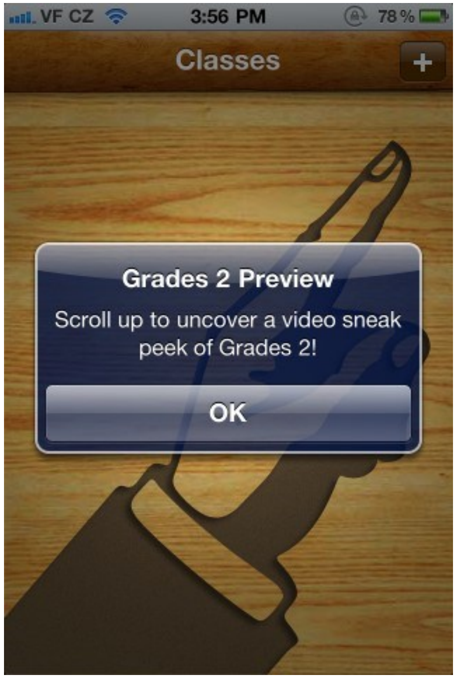


Did You Know?

Once your target weight is set the app icon on your home screen will show a red badge indicating how many pounds or kilos you need to gain or lose to reach your target.

ok

Thank you! Please enter your weight again tomorrow to start tracking!



Grades 2 Preview

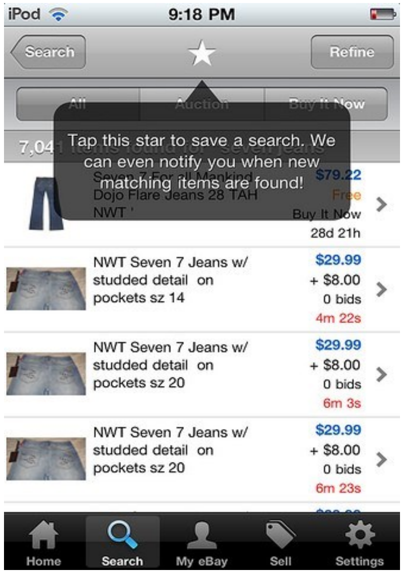
Scroll up to uncover a video sneak peek of Grades 2!

OK

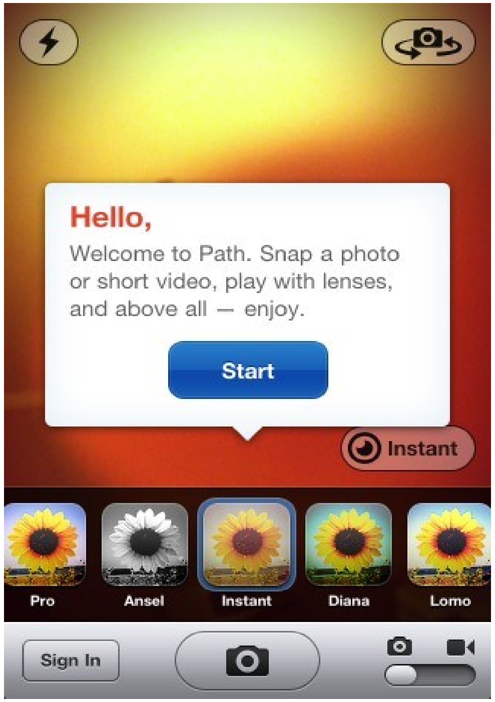
Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Tips

- Place tips in **proximity to the feature** they refer to.
- Keep the content short.
- **Remove the tip once interaction begins.**

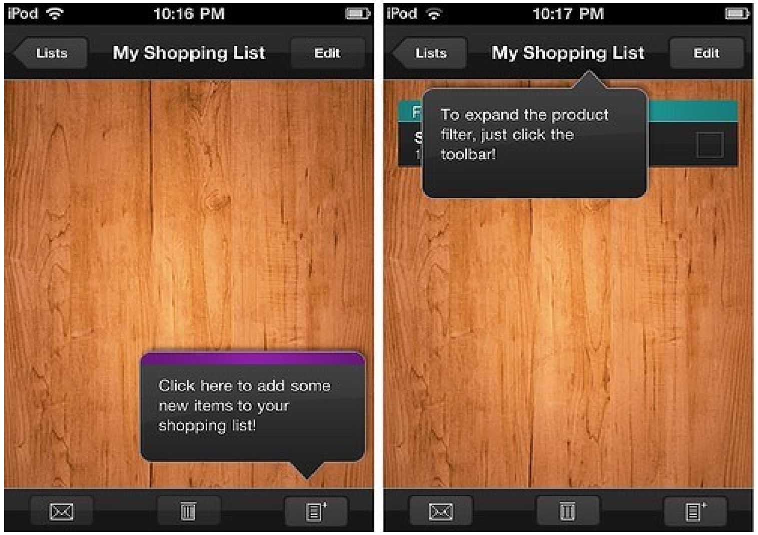


Tap this star to save a search. We can even notify you when new matching items are found!



Hello,

Welcome to Path. Snap a photo or short video, play with lenses, and above all — enjoy.



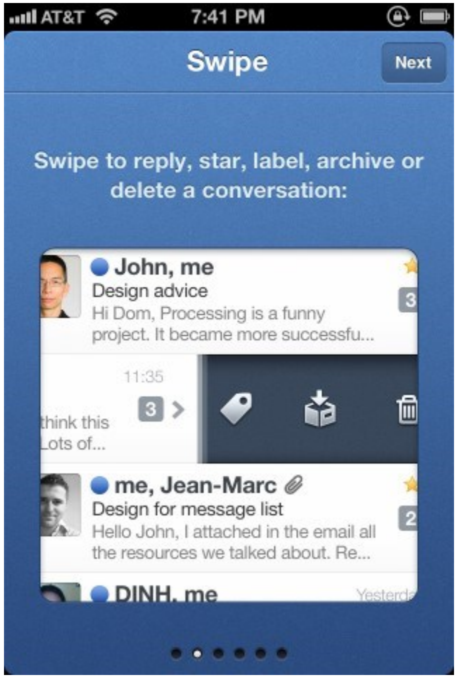
Click here to add some new items to your shopping list!

To expand the product filter, just click the toolbar!

Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Tour

- A tour should **highlight key features** of the application, preferably from a (user) goal perspective.
- Keep it short and visually engaging.



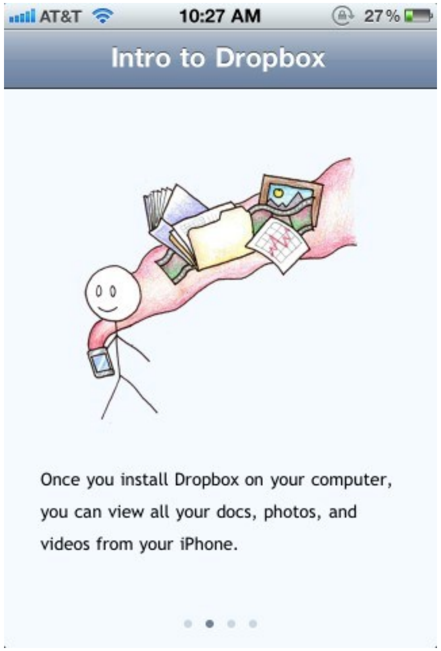
Swipe to reply, star, label, archive or delete a conversation:

John, me
Design advice
Hi Dom, Processing is a funny project. It became more successfu...

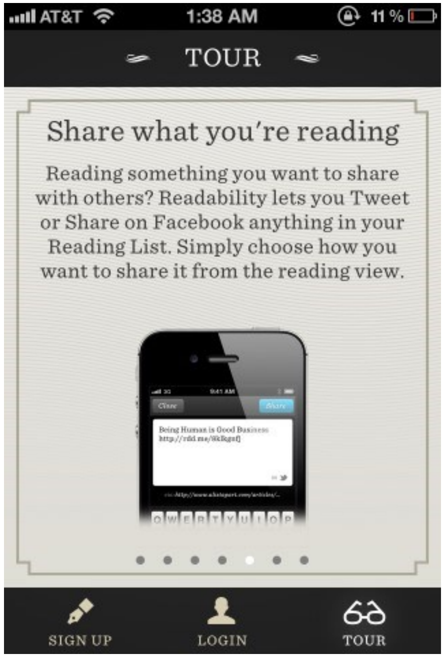
11:35
think this
Lots of...

me, Jean-Marc
Design for message list
Hello John, I attached in the email all the resources we talked about. Re...

DINH, me
Yesterd



Once you install Dropbox on your computer, you can view all your docs, photos, and videos from your iPhone.



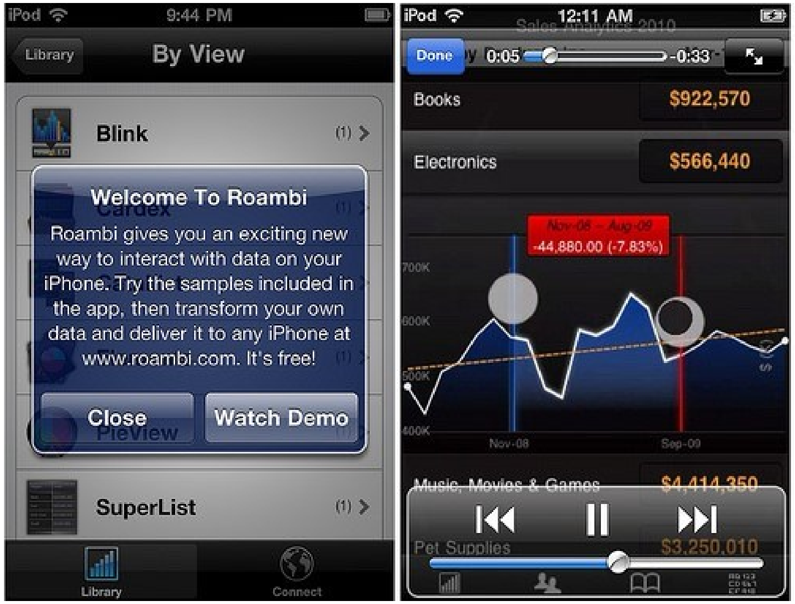
Share what you're reading

Reading something you want to share with others? Readability lets you Tweet or Share on Facebook anything in your Reading List. Simply choose how you want to share it from the reading view.

Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Video

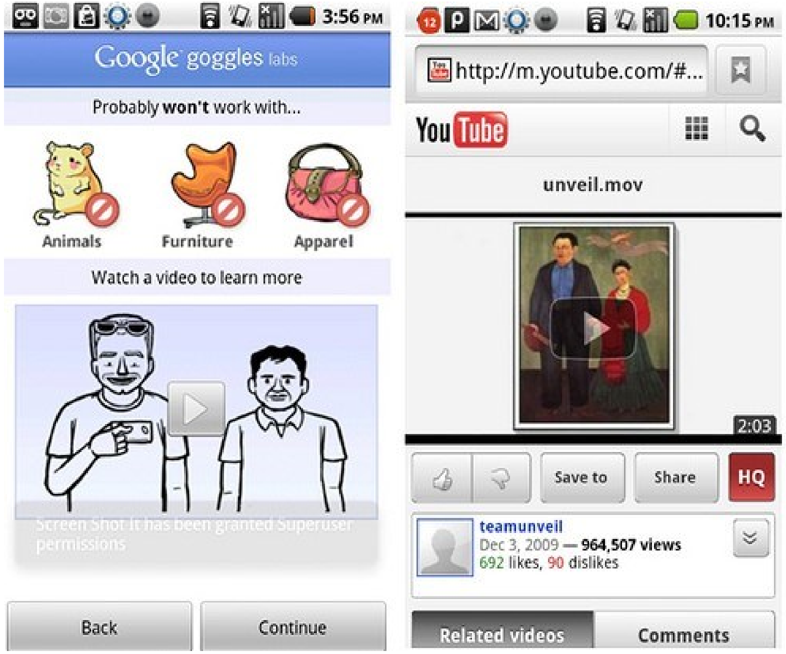
- Demos and screencasts should showcase **key features** or show **how to use the application**.
  - Common video features (pause, volume controls, etc.) should be provided.



Welcome To Roambi

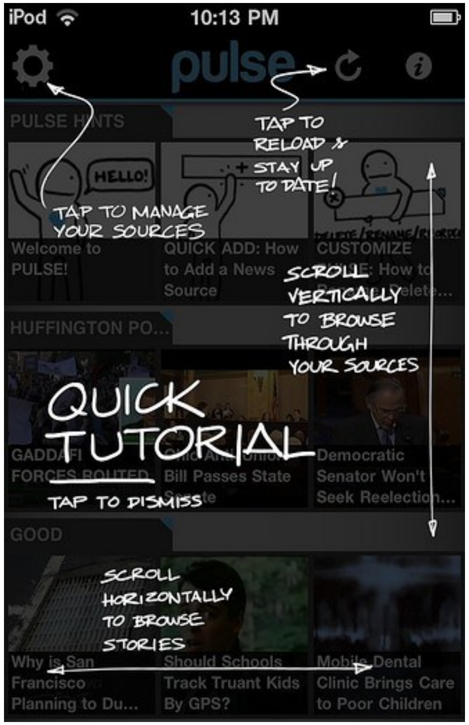
Roambi gives you an exciting new way to interact with data on your iPhone. Try the samples included in the app, then transform your own data and deliver it to any iPhone at www.roambi.com. It's free!

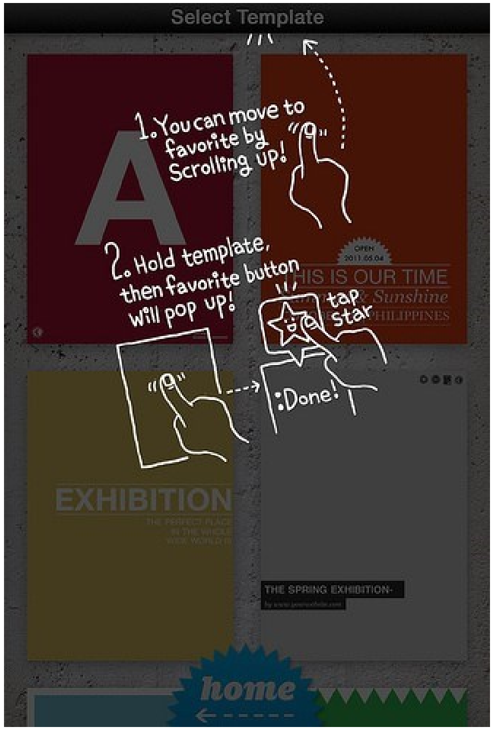
Close | Watch Demo



Transparency

- Transparencies are not meant to compensate for poor screen designs!
- Remove the Transparency once interaction begins.


iPod
10:13 PM
pulse
TAP TO MANAGE YOUR SOURCES
TAP TO RELOAD & STAY UP TO DATE!
SCROLL VERTICALLY TO BROWSE THROUGH YOUR SOURCES
QUICK TUTORIAL
TAP TO DISMISS
SCROLL HORIZONTALLY TO BROWSE STORIES
PULSE HINTS
HELLO!
Welcome to PULSE!
QUICK ADD: How to Add a News Source
CUSTOMIZE
HUFFINGTON PO...
GADDAFI FORCES ROUTED
Bill Passes State Senate
Democratic Senator Won't Seek Reelection...
GOOD
Why is San Francisco Planning to Du...
Should Schools Track Truant Kids By GPS?
Mobile Dental Clinic Brings Care to Poor Children


Select Template
1. You can move to favorite by Scrolling up!
2. Hold template, then favorite button will pop up!
tap star
:Done!
A
THIS IS OUR TIME
EXHIBITION
THE SPRING EXHIBITION
home

Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Roadmap

- Navigation
- Tables
- Forms
- Search
- Tools
- Helps and Tutorials
- **Feedback & Affordance**

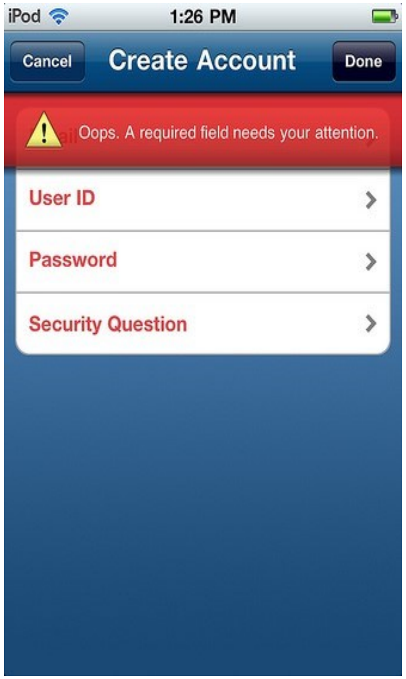
Feedback & Affordance

- Feedback
  - Errors
  - Confirmation
  - System Status
- Affordance
  - Tap
  - Flick
  - Drag

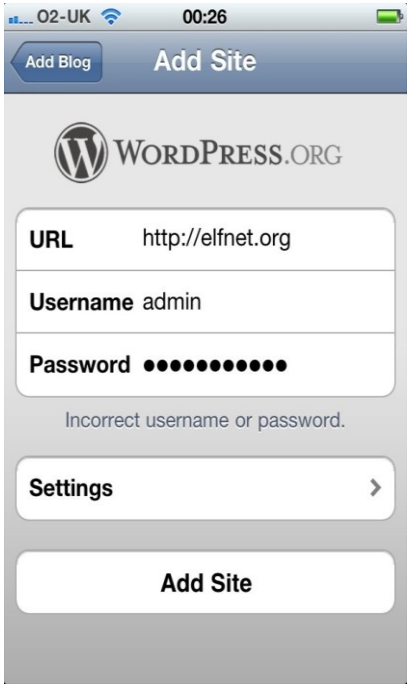
Email is required
Register
Email
User Name
Password
Registration complete
Register
Email
User Name
Password
Submitting...

Feedback: Errors

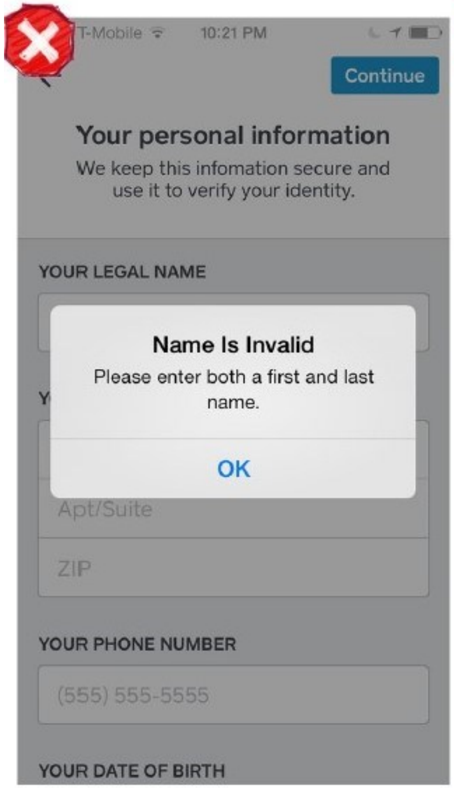
- Use **plain language** that offers a solution for resolving the issue.
  - make the error **visible**.
  - use **in-screen messaging** instead of modal dialogs.



Oops. A required field needs your attention.

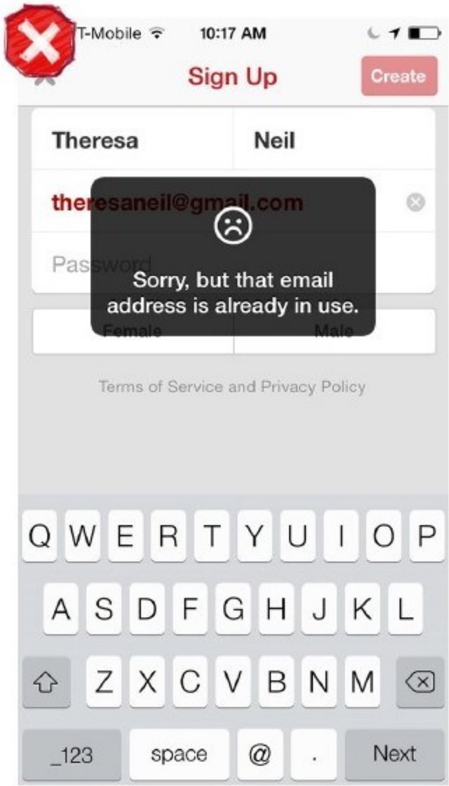


URL http://elfnet.org
Username admin
Password ●●●●●●●●●●●
Incorrect username or password.



Your personal information
We keep this infomation secure and use it to verify your identity.

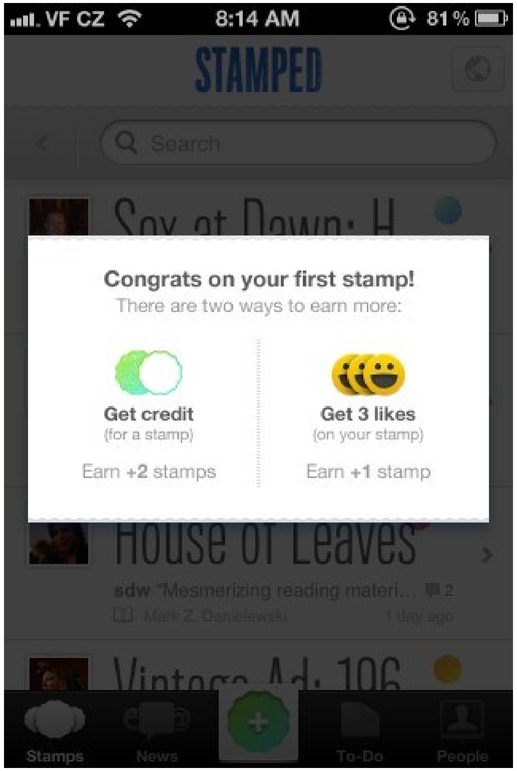
Name Is Invalid
Please enter both a first and last name.



Theresa Neil
theresaneil@gmail.com
Sorry, but that email address is already in use.

Feedback: Confirmation

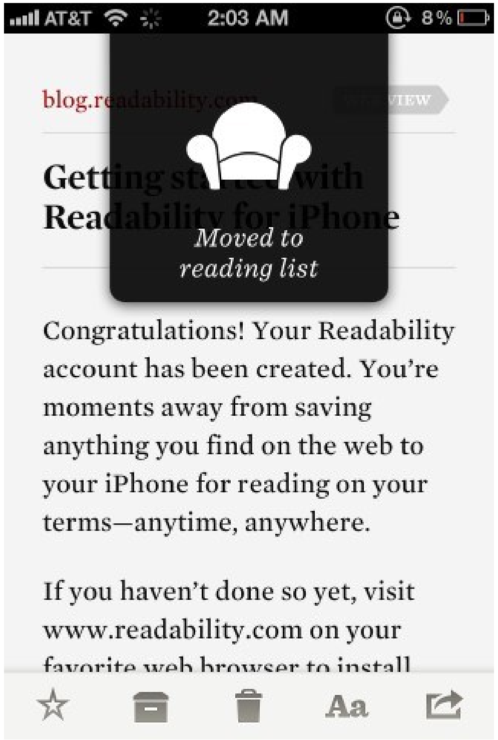
- Provide confirmation when an action is taken.
  - don't break the user's flow!



Congrats on your first stamp!
There are two ways to earn more:

Get credit
(for a stamp)
Earn **+2** stamps

Get 3 likes
(on your stamp)
Earn **+1** stamp



Moved to reading list

Getting started with Readability for iPhone

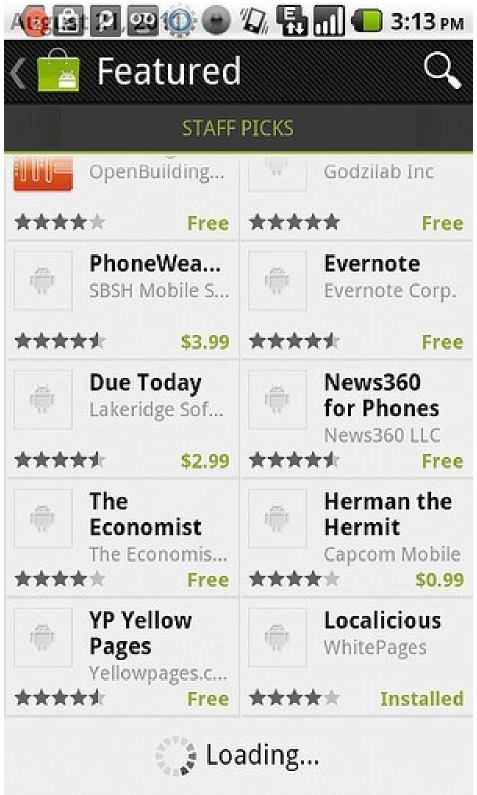
Congratulations! Your Readability account has been created. You're moments away from saving anything you find on the web to your iPhone for reading on your terms—anytime, anywhere.

If you haven't done so yet, visit www.readability.com on your favorite web browser to install

Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Feedback: System Status

- Provide feedback about the system's status.
  - Offer a cancel option for potentially lengthy operations.



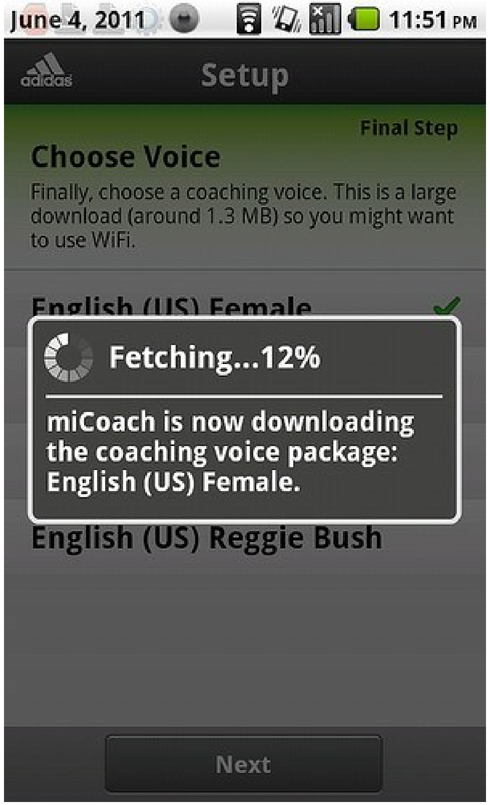
3:13 PM

Featured

STAFF PICKS

OpenBuilding... ★★★★☆ Free	Godzilab Inc ★★★★★ Free
PhoneWea... SBSH Mobile S... ★★★★½ $3.99	Evernote Evernote Corp. ★★★★½ Free
Due Today Lakeridge Sof... ★★★★½ $2.99	News360 for Phones News360 LLC ★★★★½ Free
The Economist The Economis... ★★★★☆ Free	Herman the Hermit Capcom Mobile ★★★★☆ $0.99
YP Yellow Pages Yellowpages.c... ★★★★½ Free	Localicious WhitePages ★★★★☆ Installed

Loading...



June 4, 2011 11:51 PM

Setup

Final Step

Choose Voice

Finally, choose a coaching voice. This is a large download (around 1.3 MB) so you might want to use WiFi.

English (US) Female ✓

Fetching...12%

miCoach is now downloading the coaching voice package: English (US) Female.

English (US) Reggie Bush

Next

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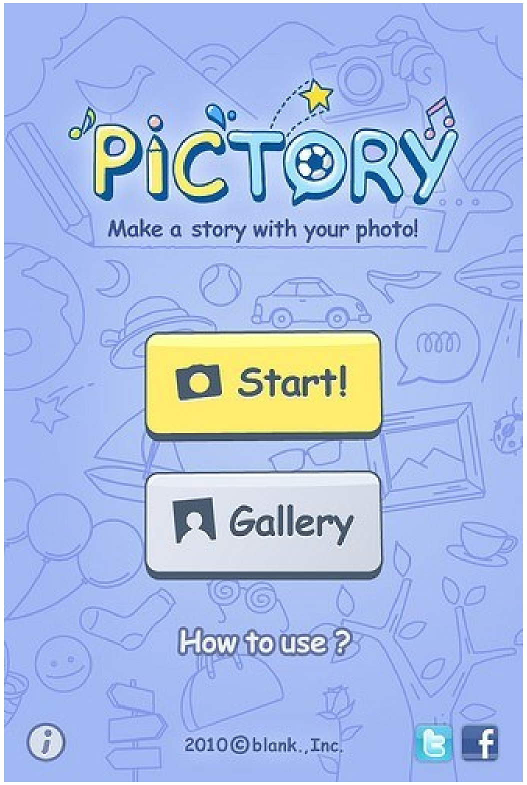
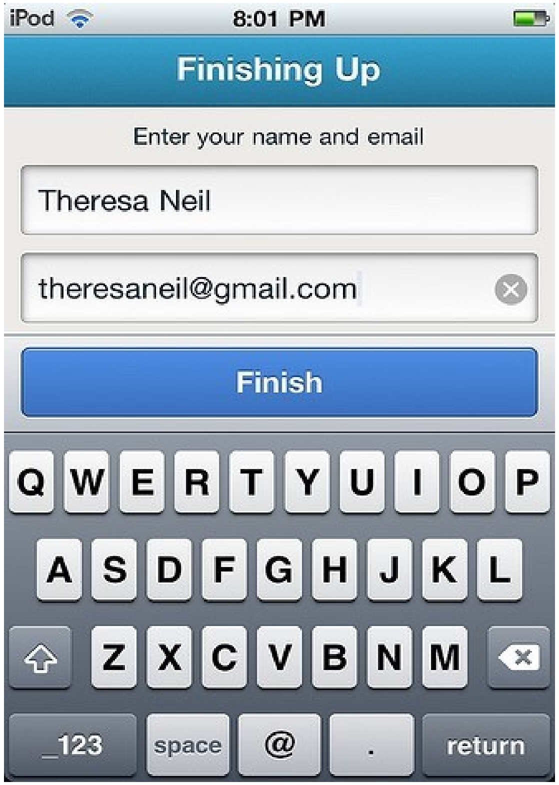
Affordance: Tap

- Use common visual design techniques to indicate tappable controls.
- Apply 3D effects (for example, shadows) judiciously.





Enter your name and email

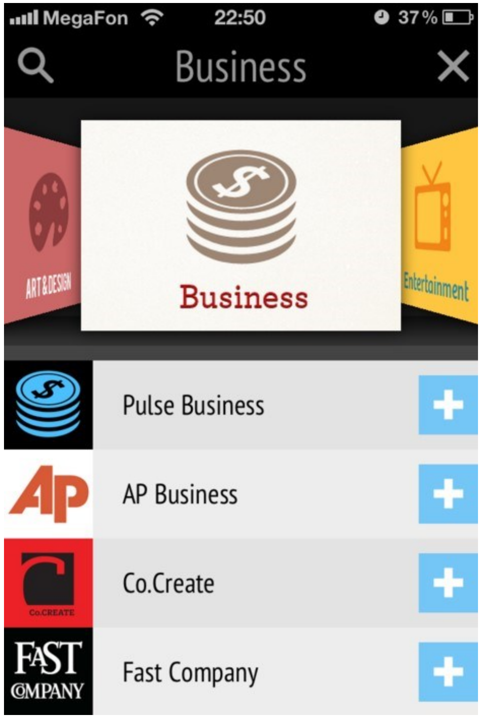
Theresa Neil

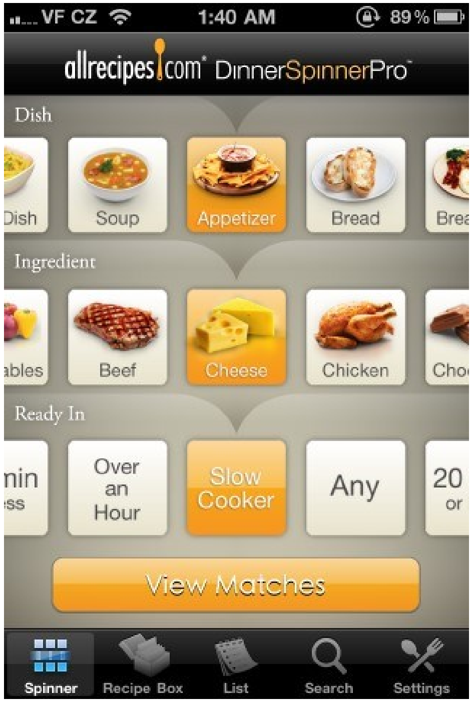
theresaneil@gmail.com

Credits: *Ivano Malavolta*
Design Patterns for Mobile Apps

Affordance: Flick

- Use a page indicator.
- Show the edge of the next item.
- Avoid heavy weight scroll bars.

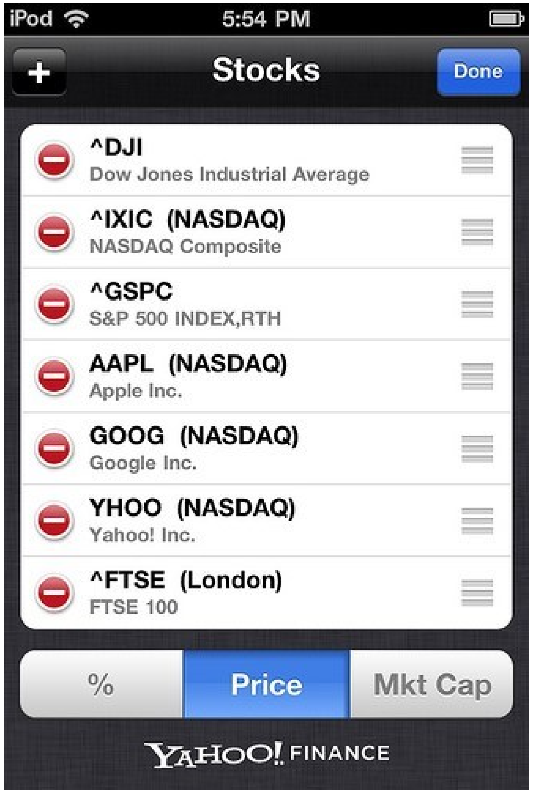




Credits: Ivano Malavolta
Design Patterns for Mobile Apps

Affordance: Drag

- Use a **recognizable icon** for the handle.
- Consider to help the users to let they know this feature is available.



iPod 5:54 PM

+ Stocks Done

^DJI
Dow Jones Industrial Average

^IXIC (NASDAQ)
NASDAQ Composite

^GSPC
S&P 500 INDEX,RTH

AAPL (NASDAQ)
Apple Inc.

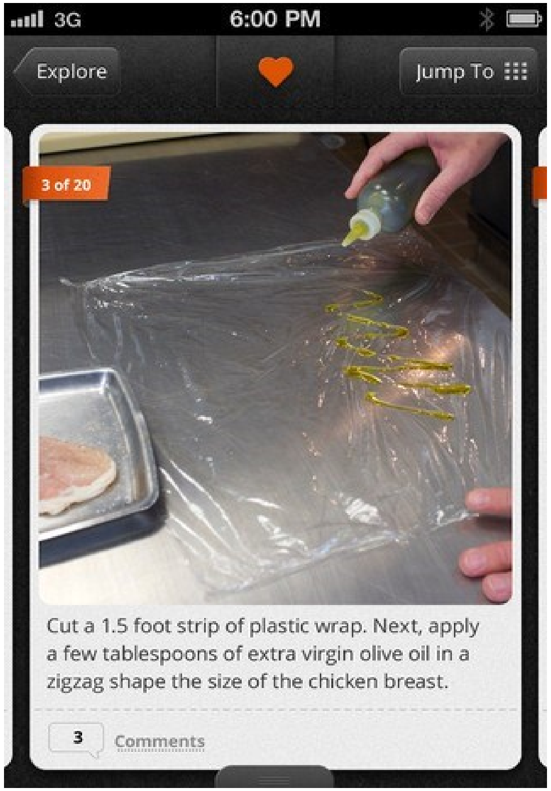
GOOG (NASDAQ)
Google Inc.

YHOO (NASDAQ)
Yahoo! Inc.

^FTSE (London)
FTSE 100

% | Price | Mkt Cap

YAHOO! FINANCE



3G 6:00 PM

Explore Jump To

3 of 20

Cut a 1.5 foot strip of plastic wrap. Next, apply a few tablespoons of extra virgin olive oil in a zigzag shape the size of the chicken breast.

3 Comments

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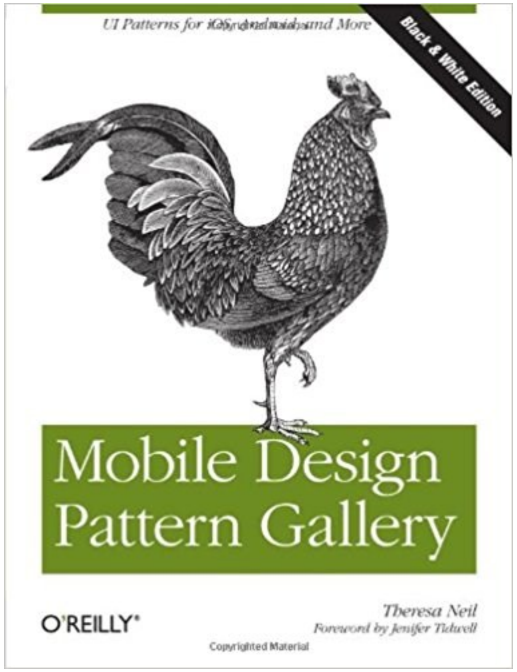
Exercise

- **We want to create a series of mockups for a mobile banking application for iOS devices.**
  - Starting from the previous exercices, design a complete prototype of the banking application through Balsamiq.
  - Include a view for the deposit and a page for modifying the profile of logged users.

Bibliography

1. T. Neil: *Mobile Design Pattern Gallery* , 2nd Edition (2015)
2. I. Malavolta: Design Patterns for Mobile Apps (slides)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O'REILLY
Theresa Neil
Foreword by Jenifer Tidwell
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