

Building User Interfaces for iOS 7

Session 201

Jason Beaver and Andy Matuschak

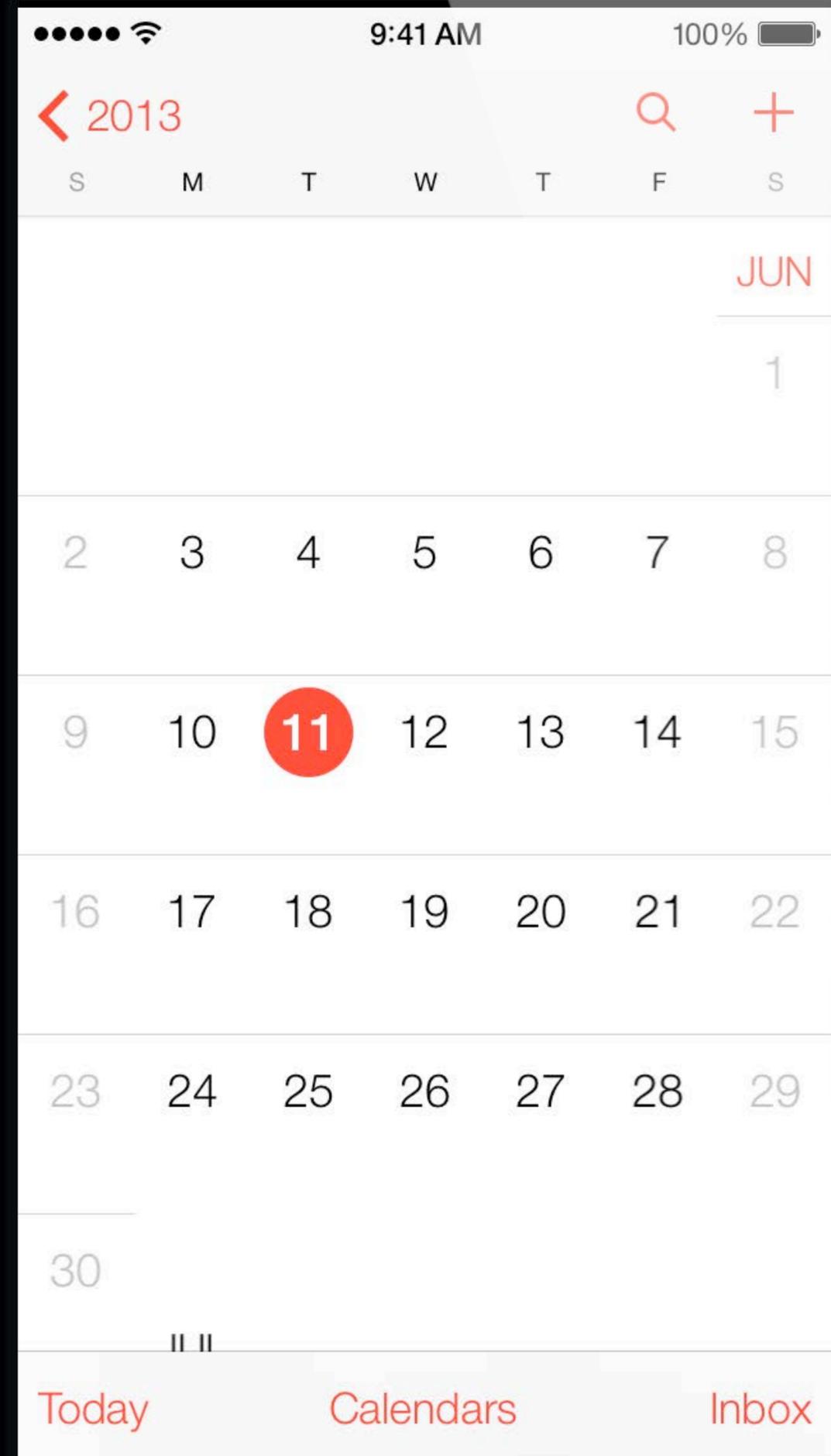
iOS Apps and Frameworks

These are confidential sessions—please refrain from streaming, blogging, or taking pictures

Design Themes

Design Themes

Clarity



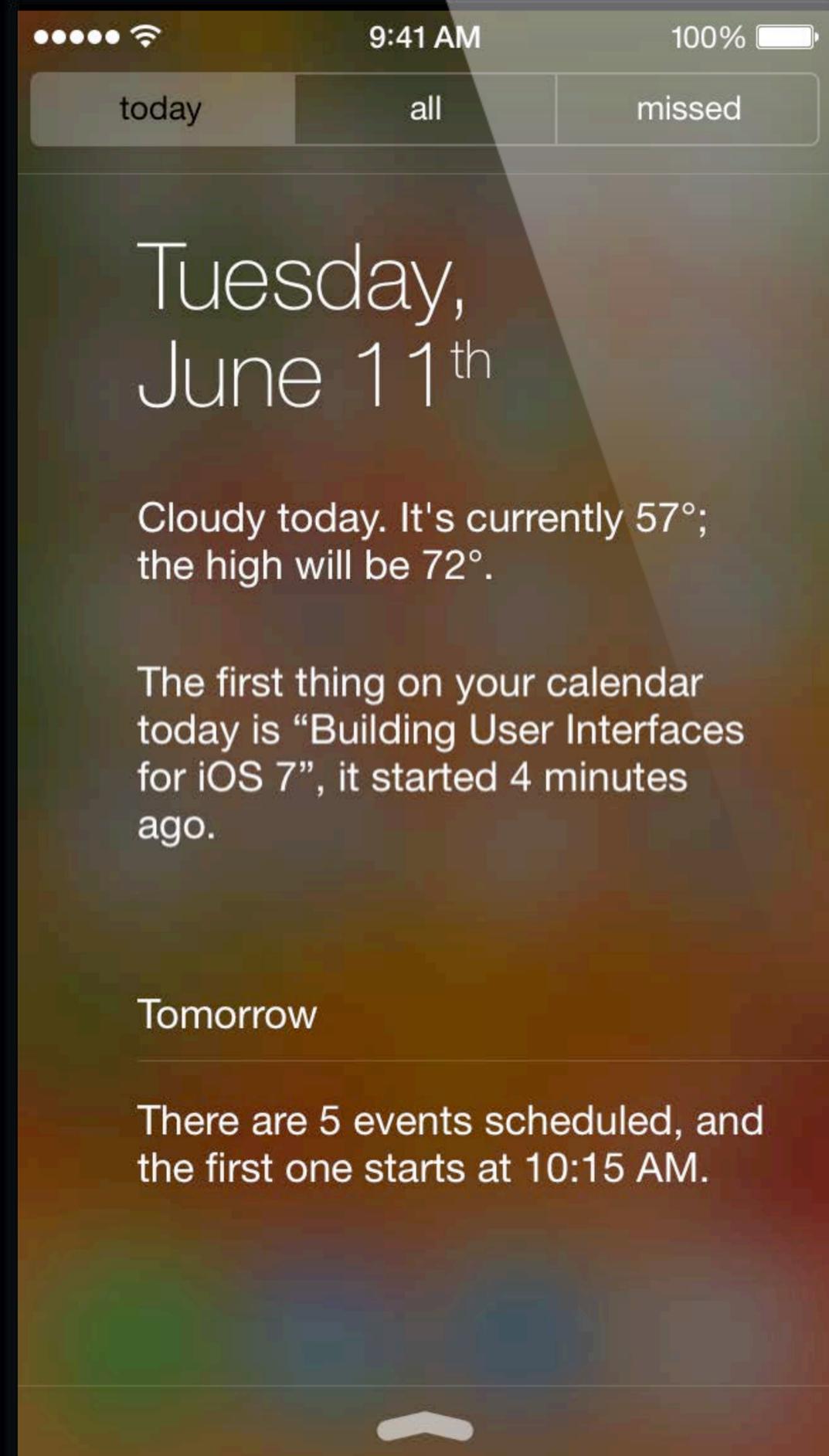
Design Themes

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Design Themes

Depth



TRYPO
GRAPHY

Dynamic Type

Dynamic Type

- Specifies fonts semantically

Dynamic Type

- Specifies fonts semantically
- Supports user text sizing

Dynamic Type

- Specifies fonts semantically
- Supports user text sizing
- Optimized for legibility

Dynamic Type

- Specifies fonts semantically
- Supports user text sizing
- Optimized for legibility
- Supports accessibility sizes and enhancements

Dynamic Type

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Text Styles

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Caption 1

Caption 2

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Caption 1

Caption 2

Dynamic Type

Text Styles

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Headline 2

`UIFontTextStyleHeadline2`

Subheadline 1

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`UIFontTextStyleBody`

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`UIFontTextStyleFootnote`

Caption 1

`UIFontTextStyleCaption1`

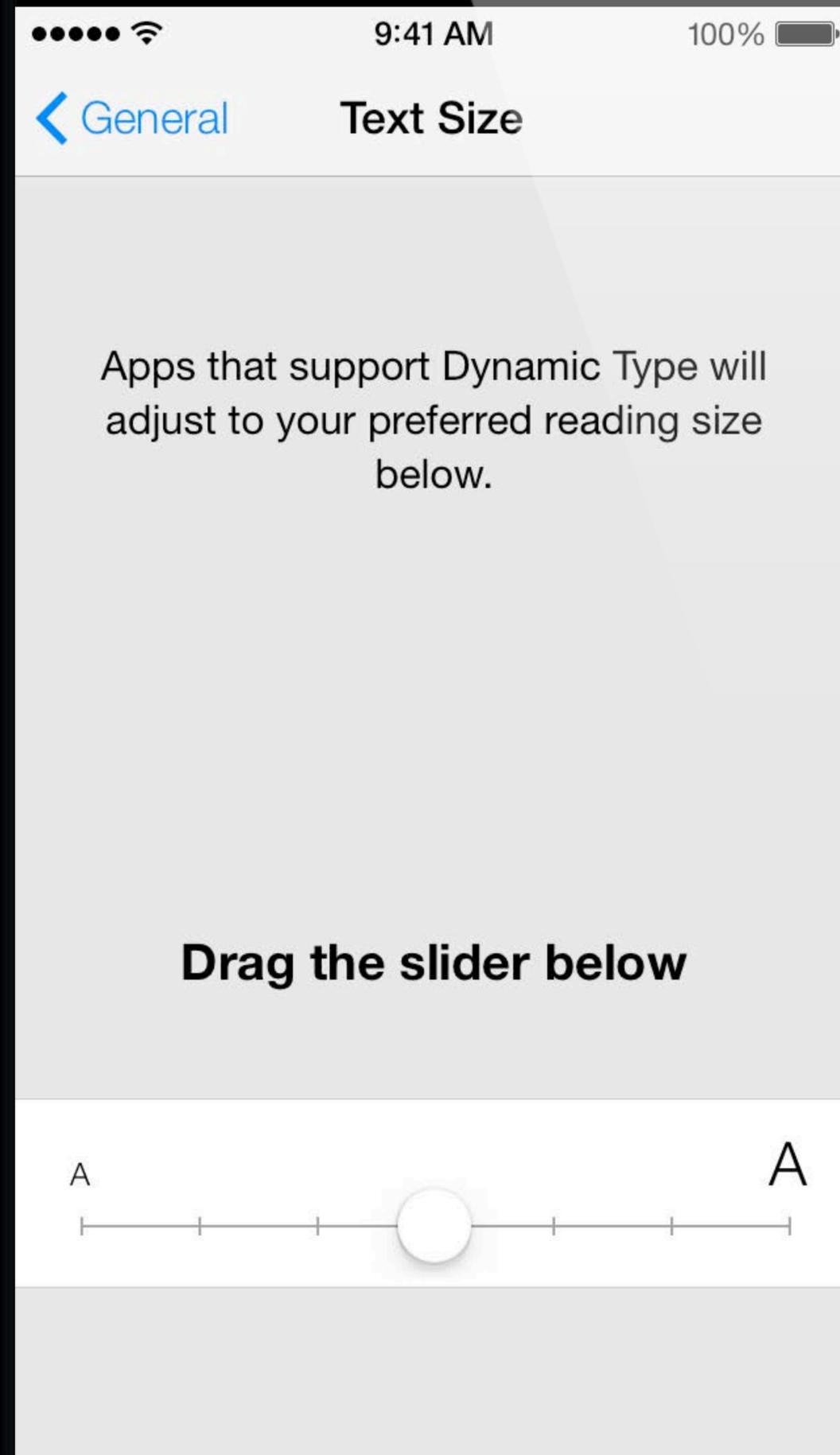
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Text Sizes



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Caption 1 Caption 1 Caption 1 Caption 1 Caption 1 Caption 1

Caption 2 Caption 2 Caption 2 Caption 2 Caption 2 Caption 2

Extra Small

9:41 AM 100%

Mailboxes **Inbox** Edit

Search

John Appleseed Monday >
Meeting notes
Could you send over the meeting notes when you get a chance? Thanks, John

Tom Jones Monday >
Moving Monday's meeting to 11am
Hello all, I'm moving next Monday's meeting to 11am instead of 10am. Thanks, Tom Jones

Mark Brady Monday >
Thanks for the birthday wishes!
Hey Jim, just got your birthday card in the mail and wanted to say thanks! Hope life's treating y...

Dad Monday >
BBQ on Saturday
The weather's supposed to be nice all weekend, so I was thinking of firing up the new grill and in...

Linda Miller Monday >
Pictures from Billy's game
Hey Jim, Here are those photos I promised to send you. I think the second one is my favorite!

9:41 AM 100%

Inbox 1 of 7

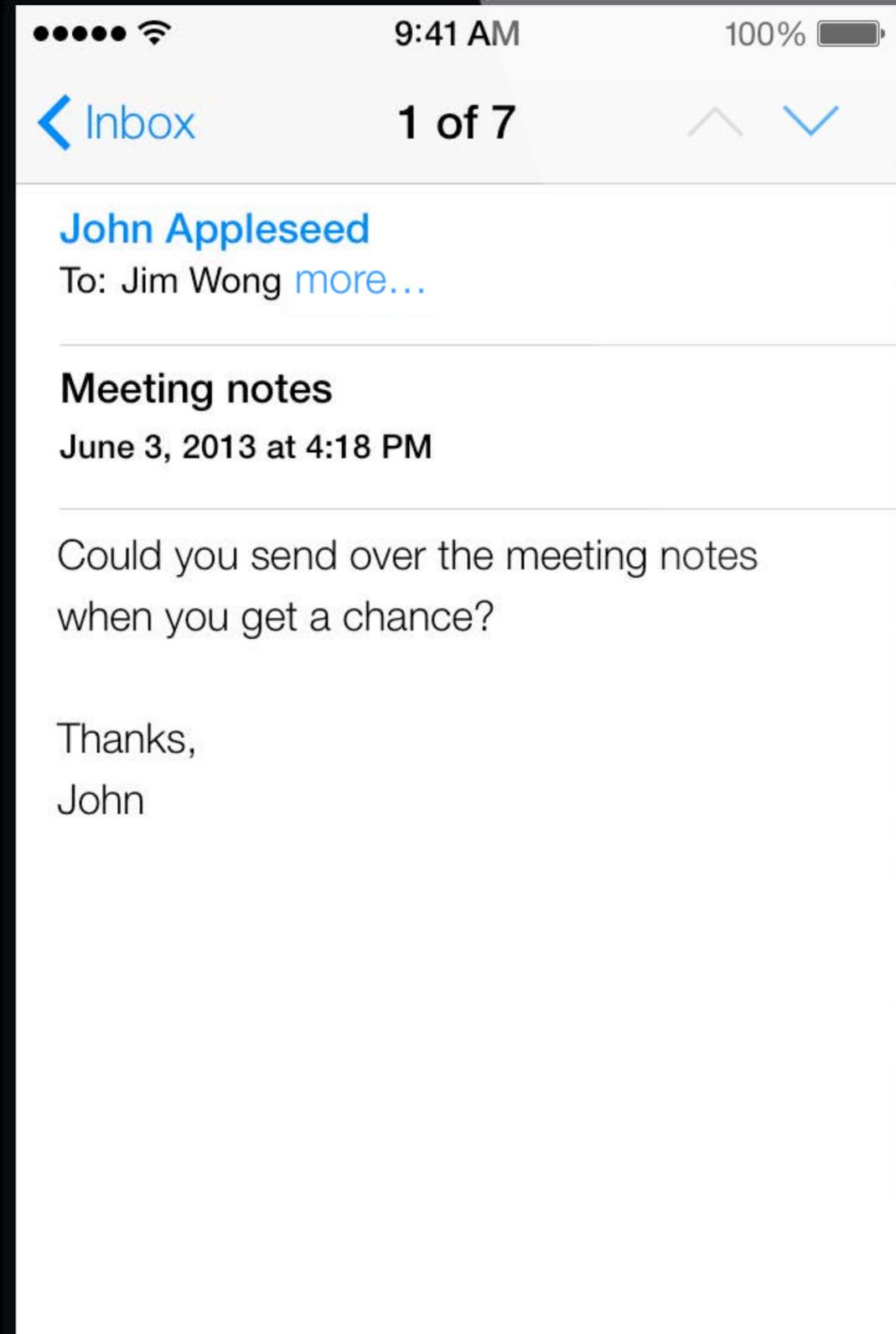
John Appleseed
To: Jim Wong [more...](#)

Meeting notes
June 3, 2013 at 4:18 PM

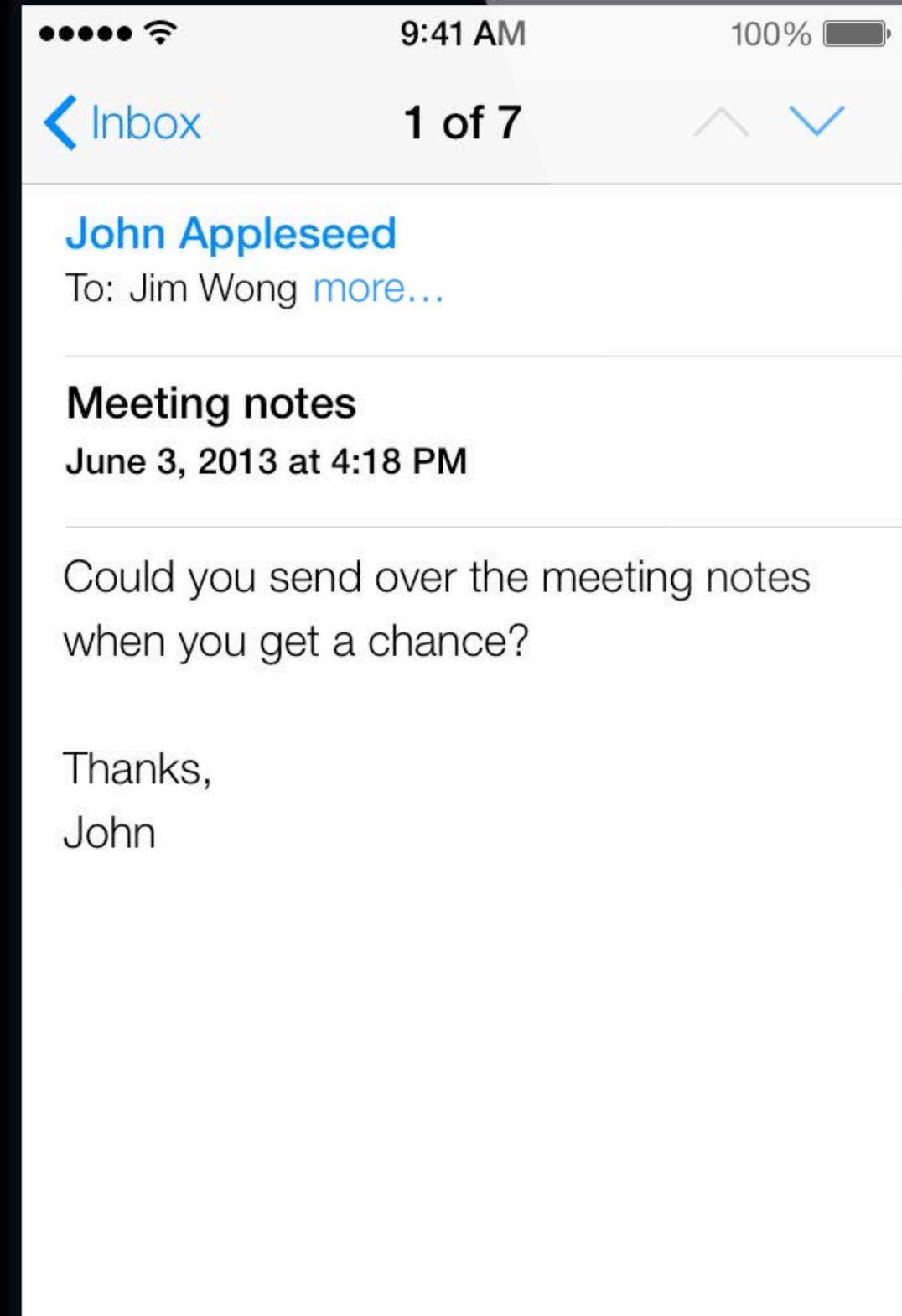
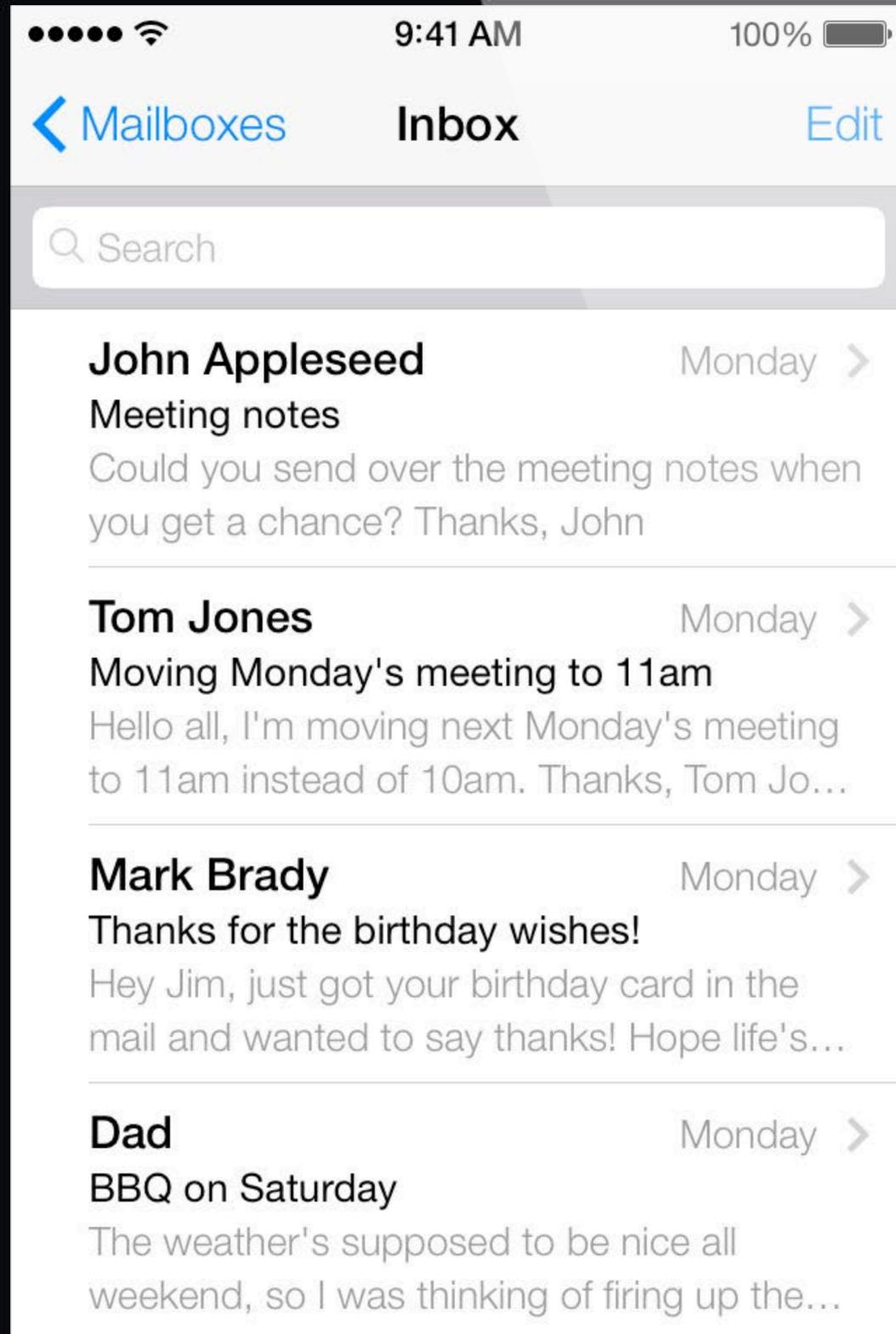
Could you send over the meeting notes when you get a chance?

Thanks,
John

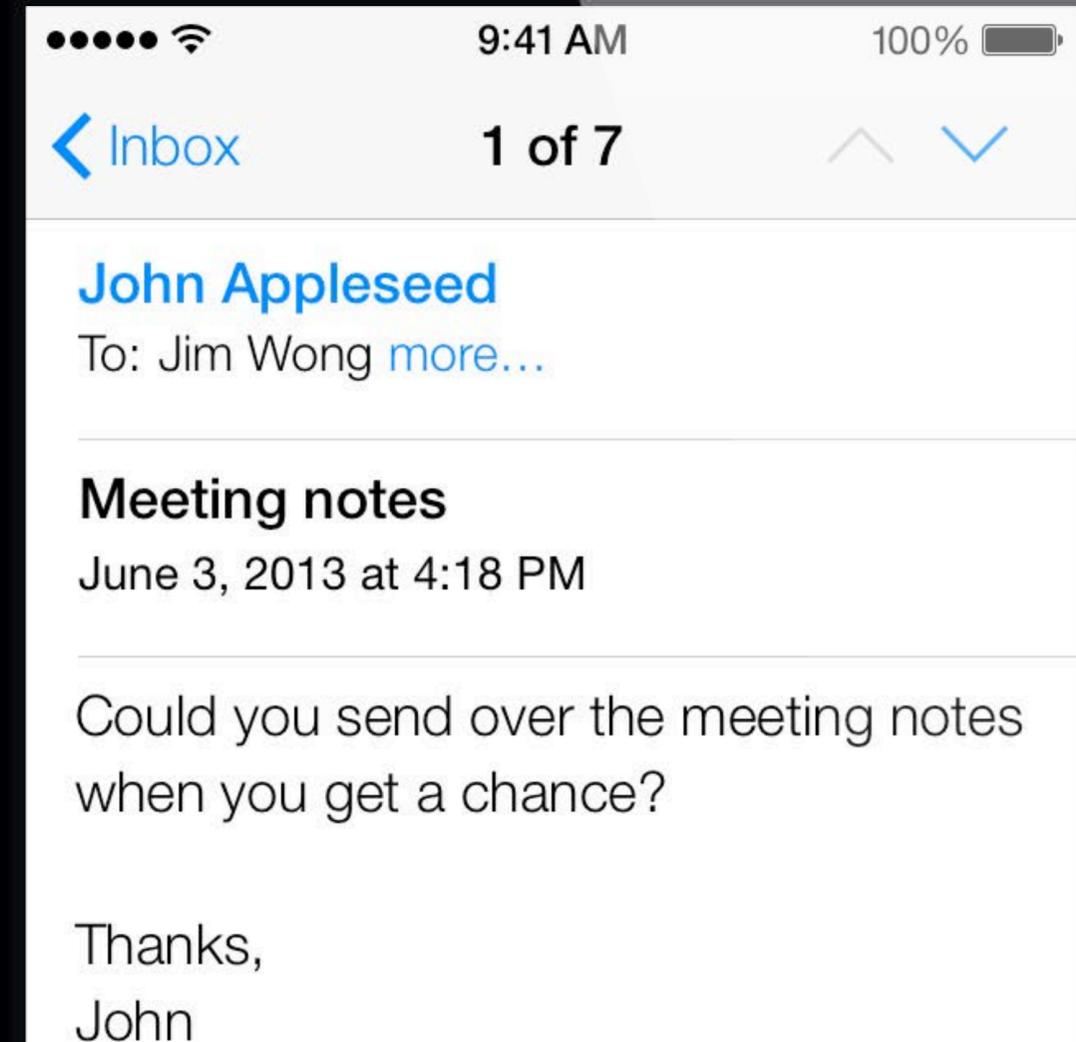
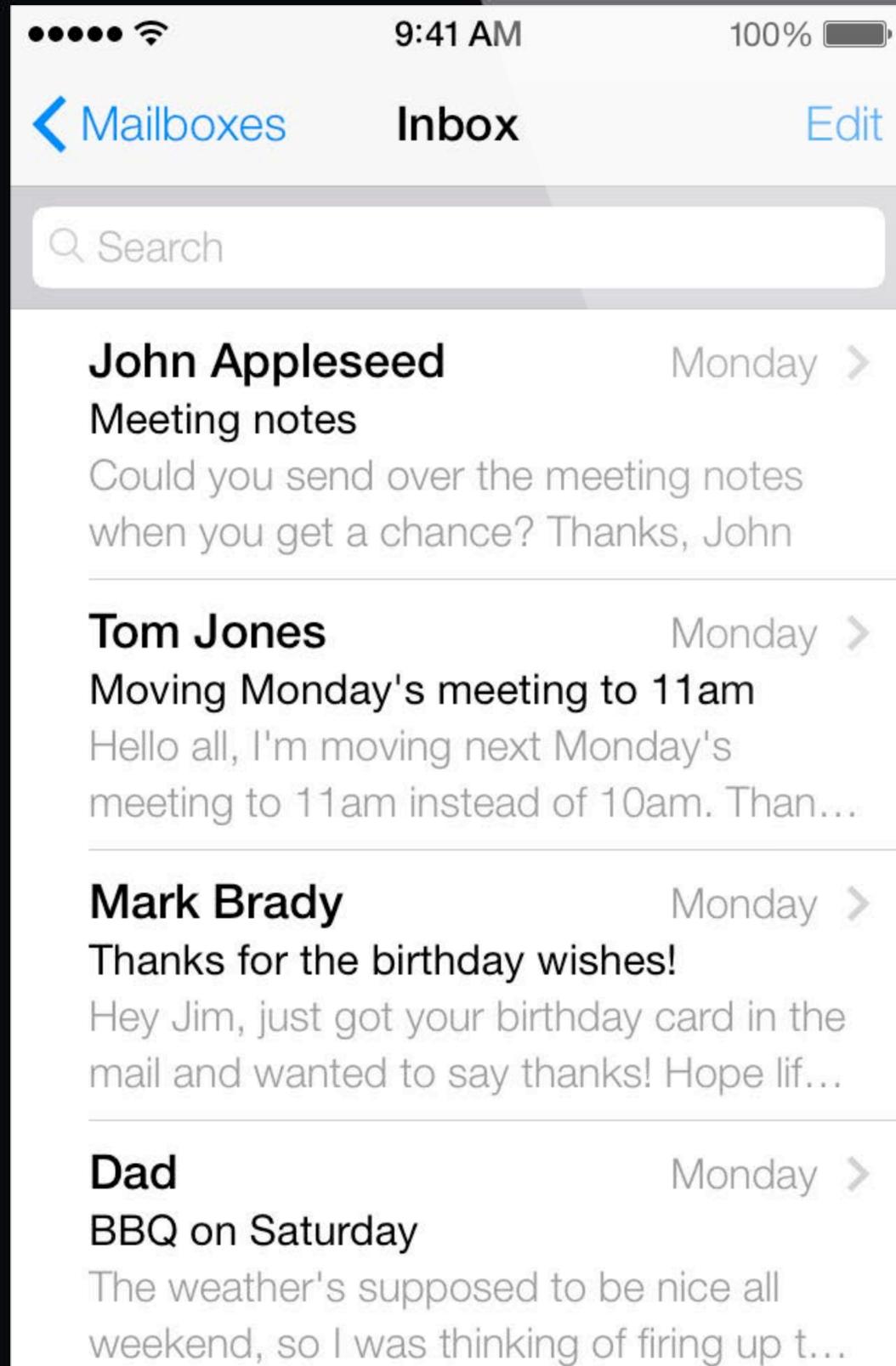
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Dad Monday >
BBQ on Saturday
The weather's supposed to be nice all

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Inbox 1 of 7

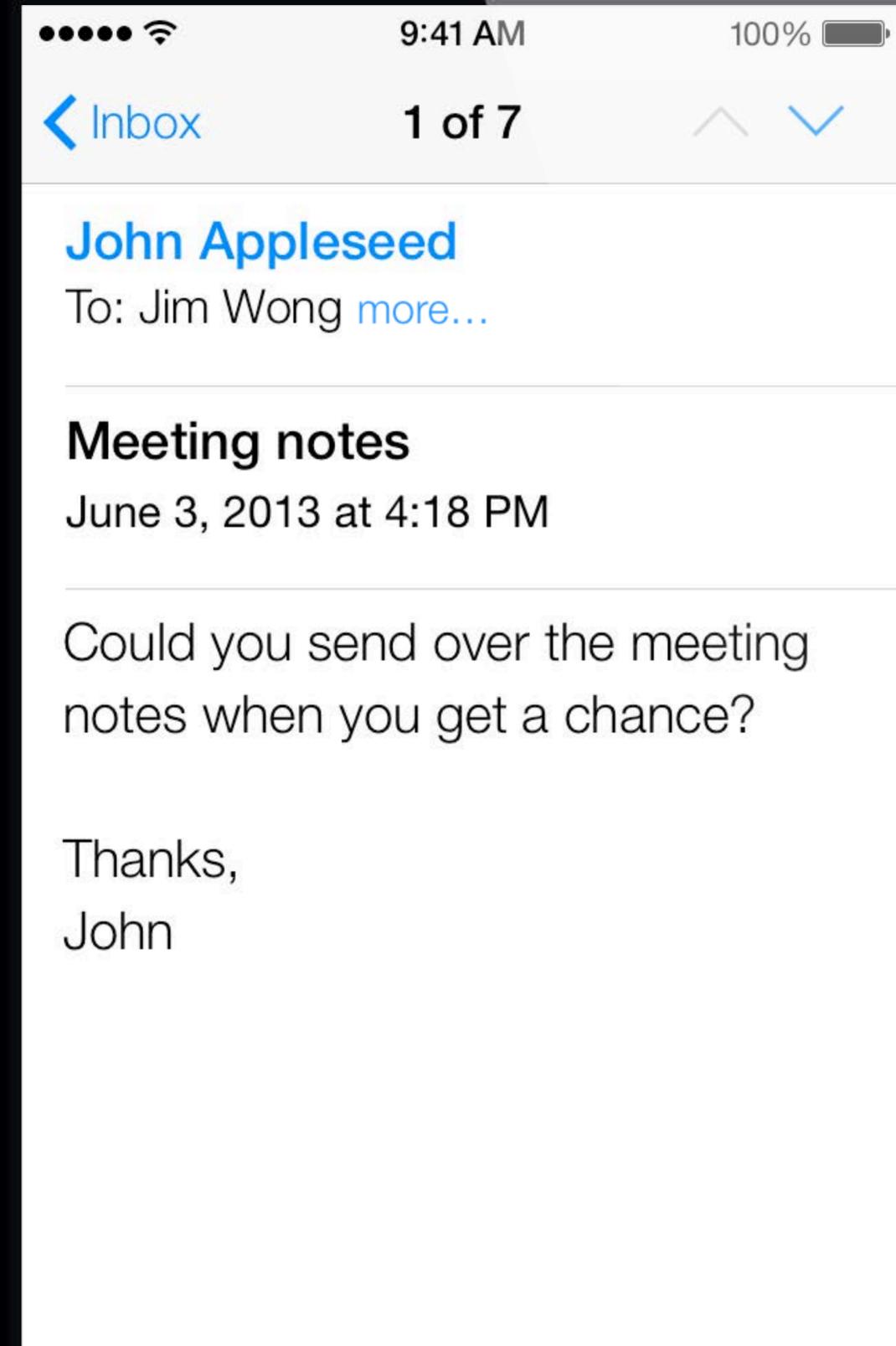
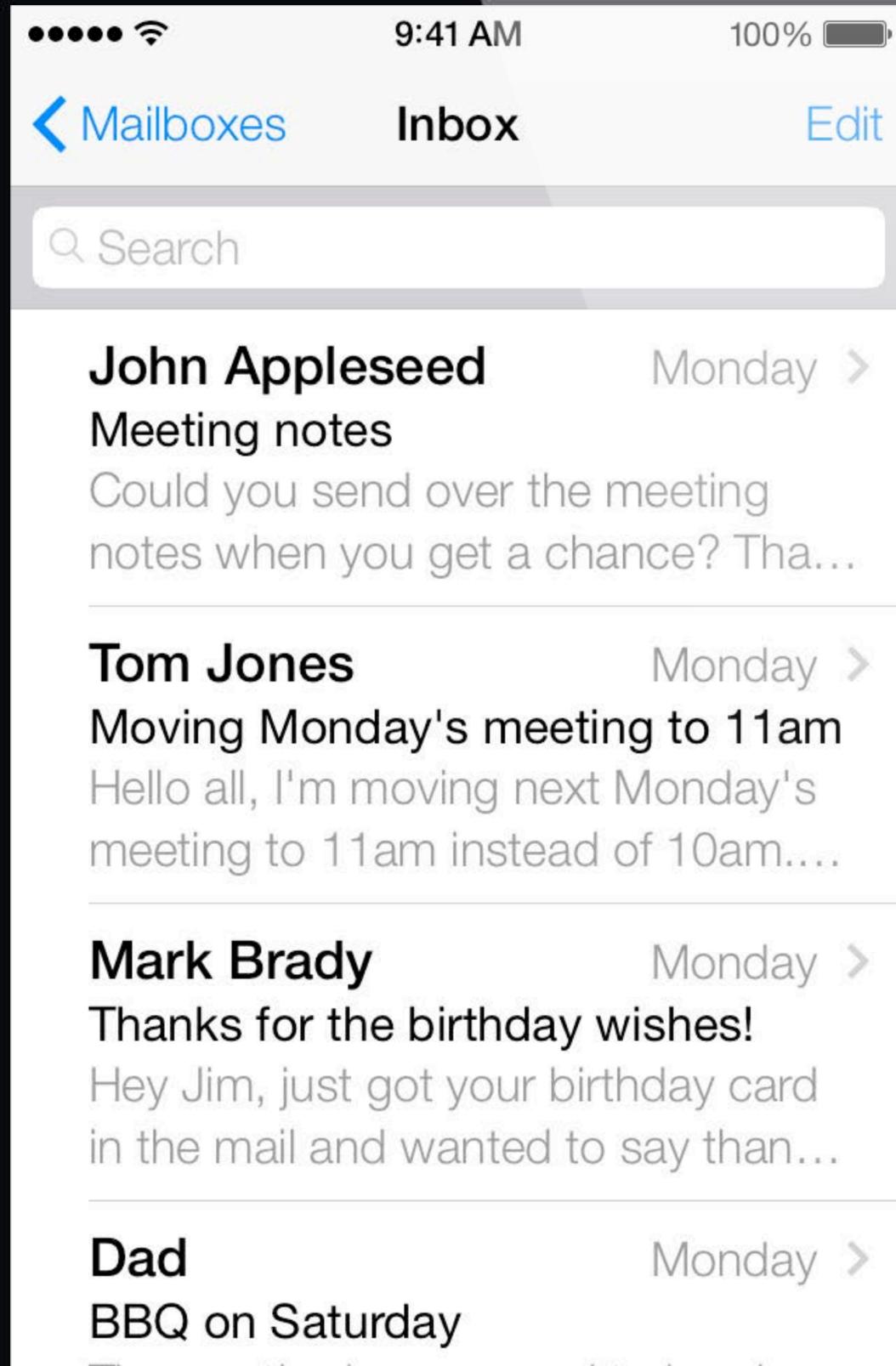
John Appleseed
To: Jim Wong [more...](#)

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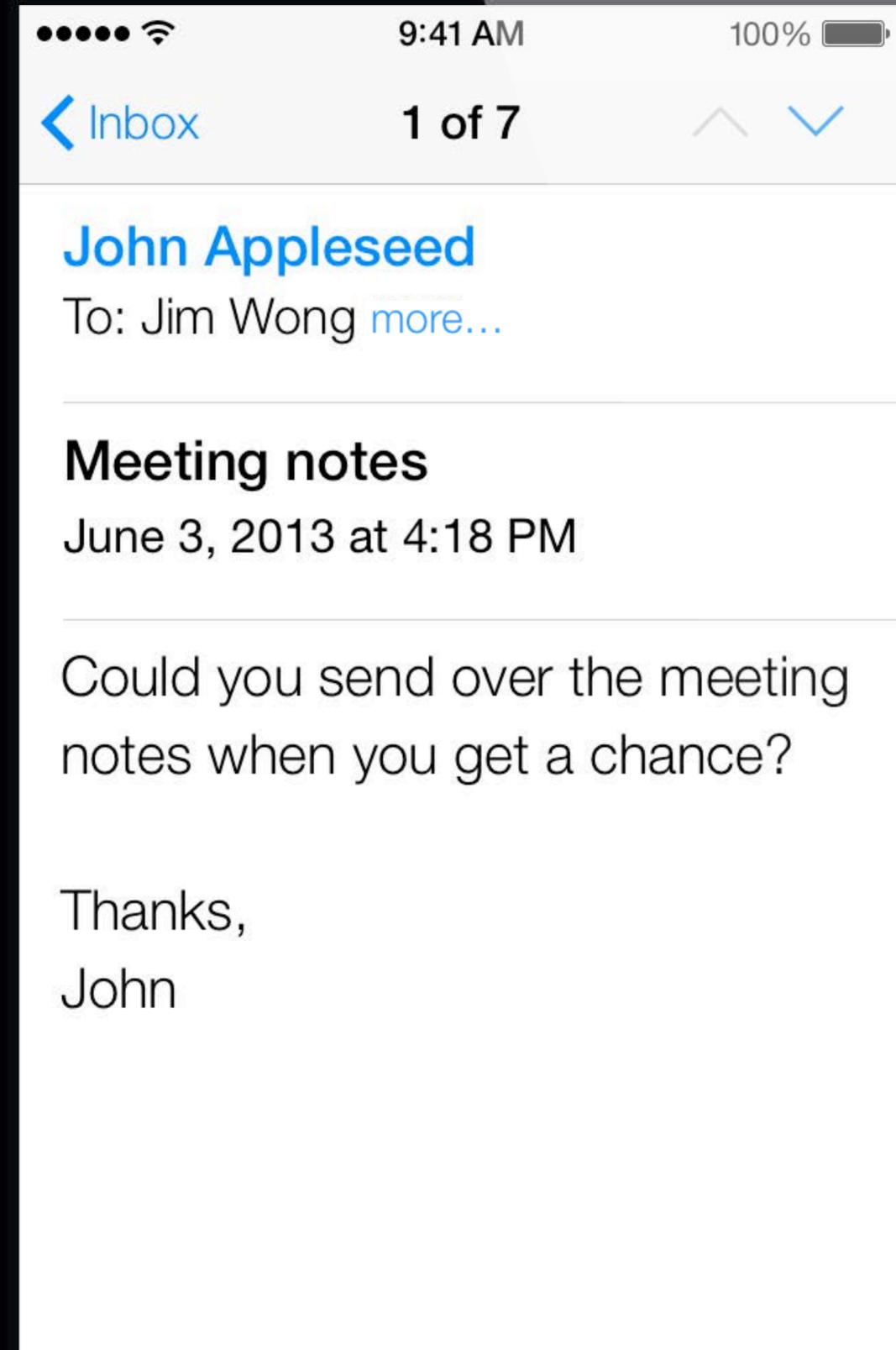
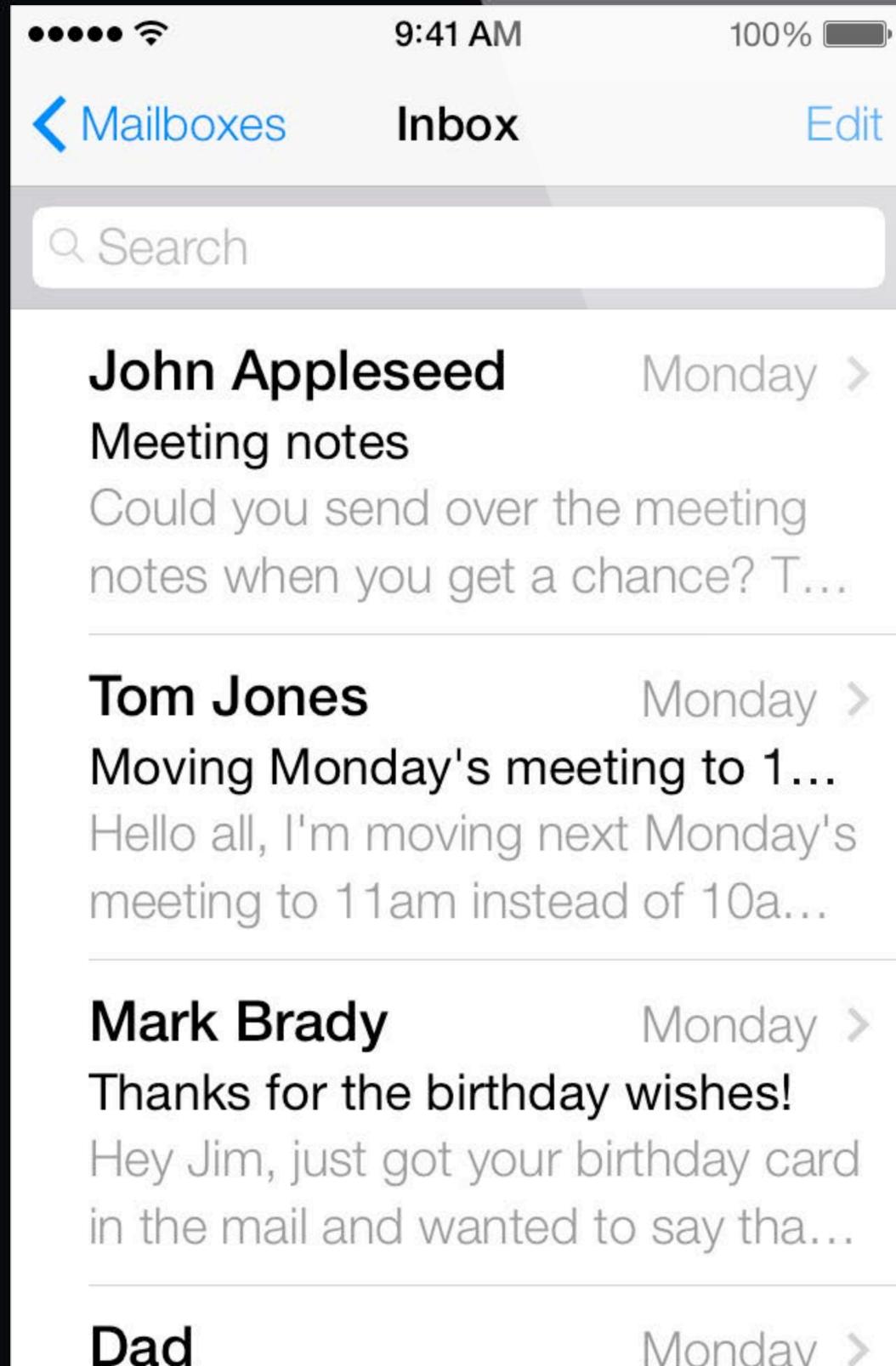
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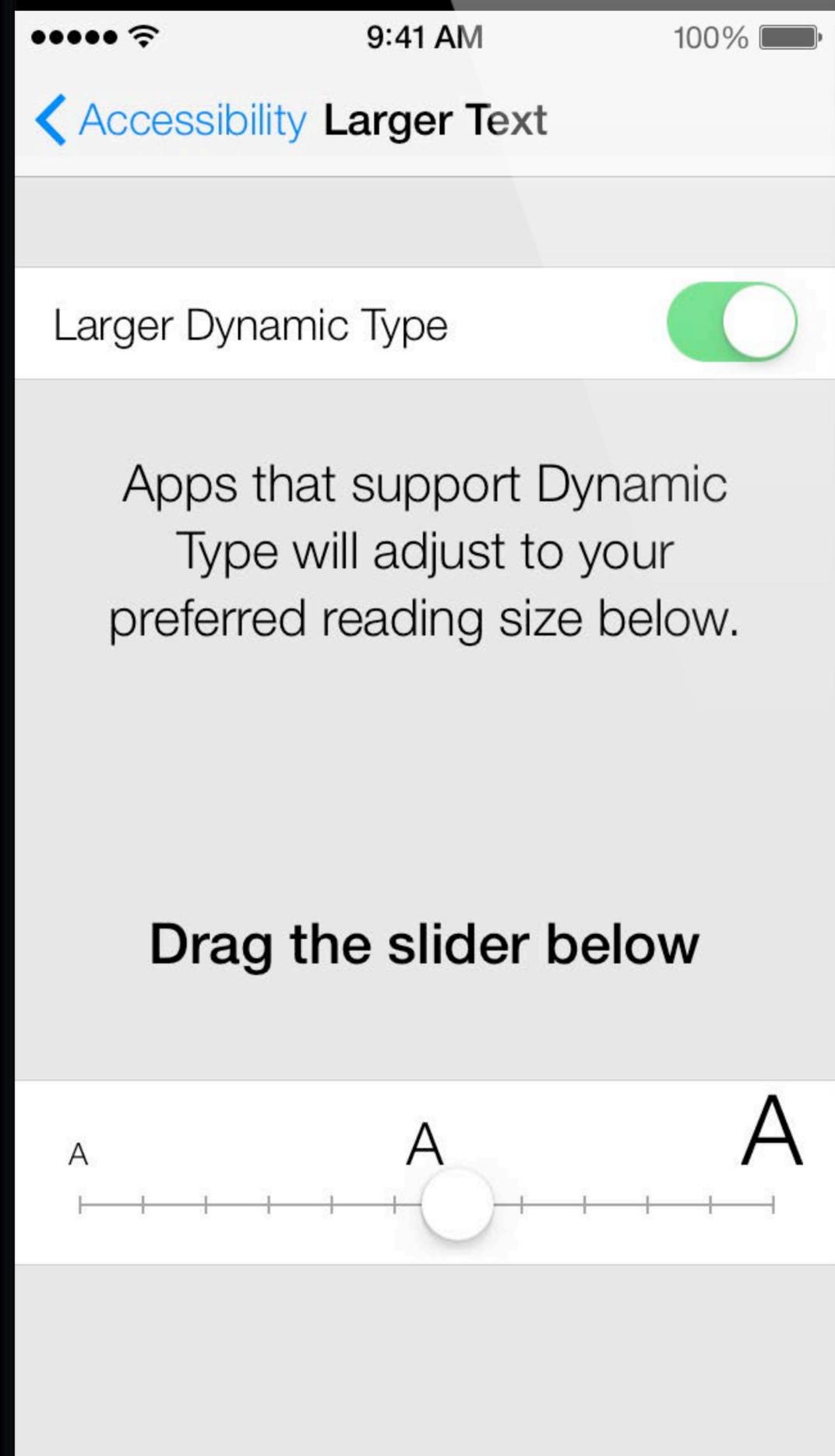


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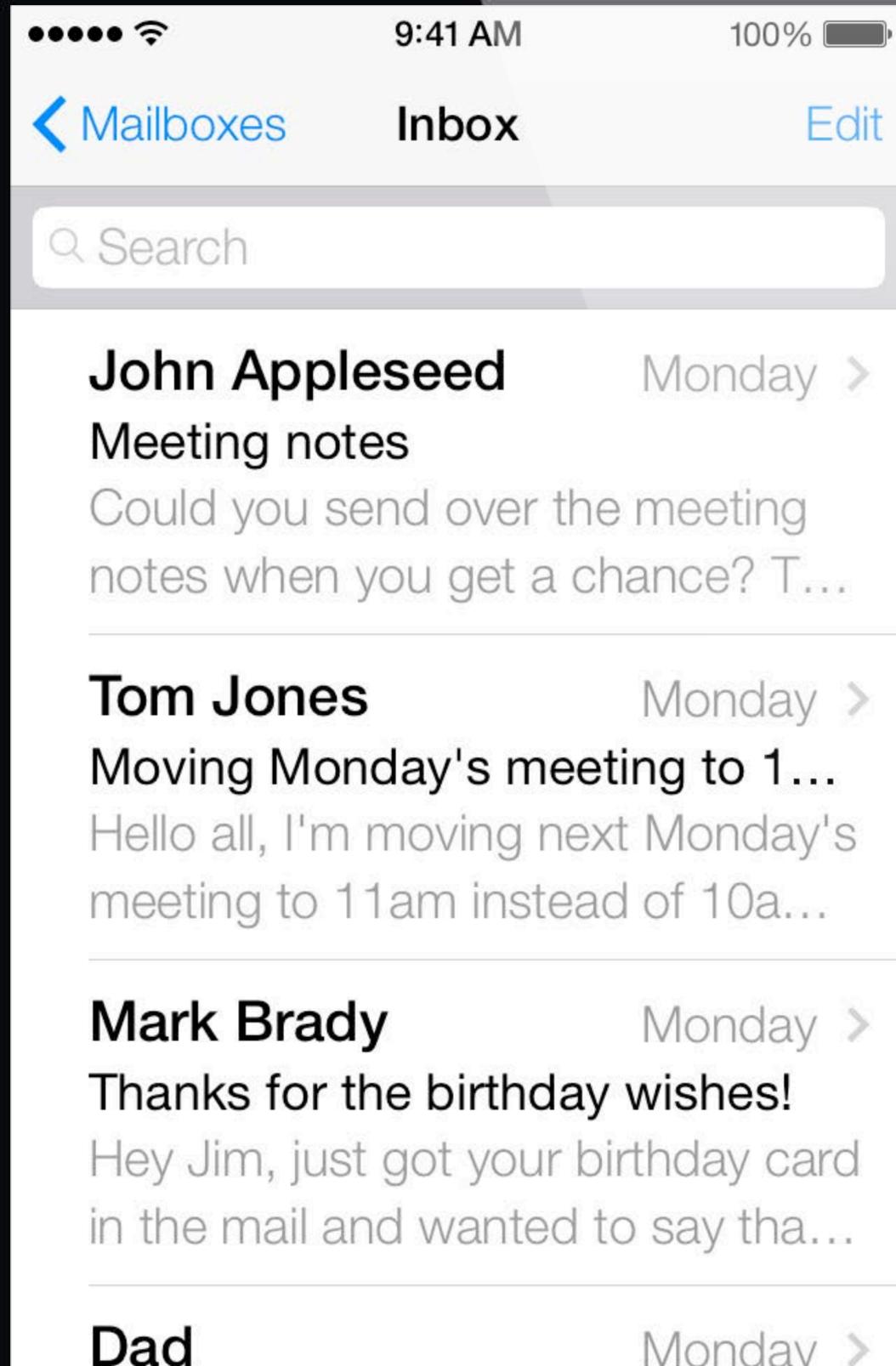


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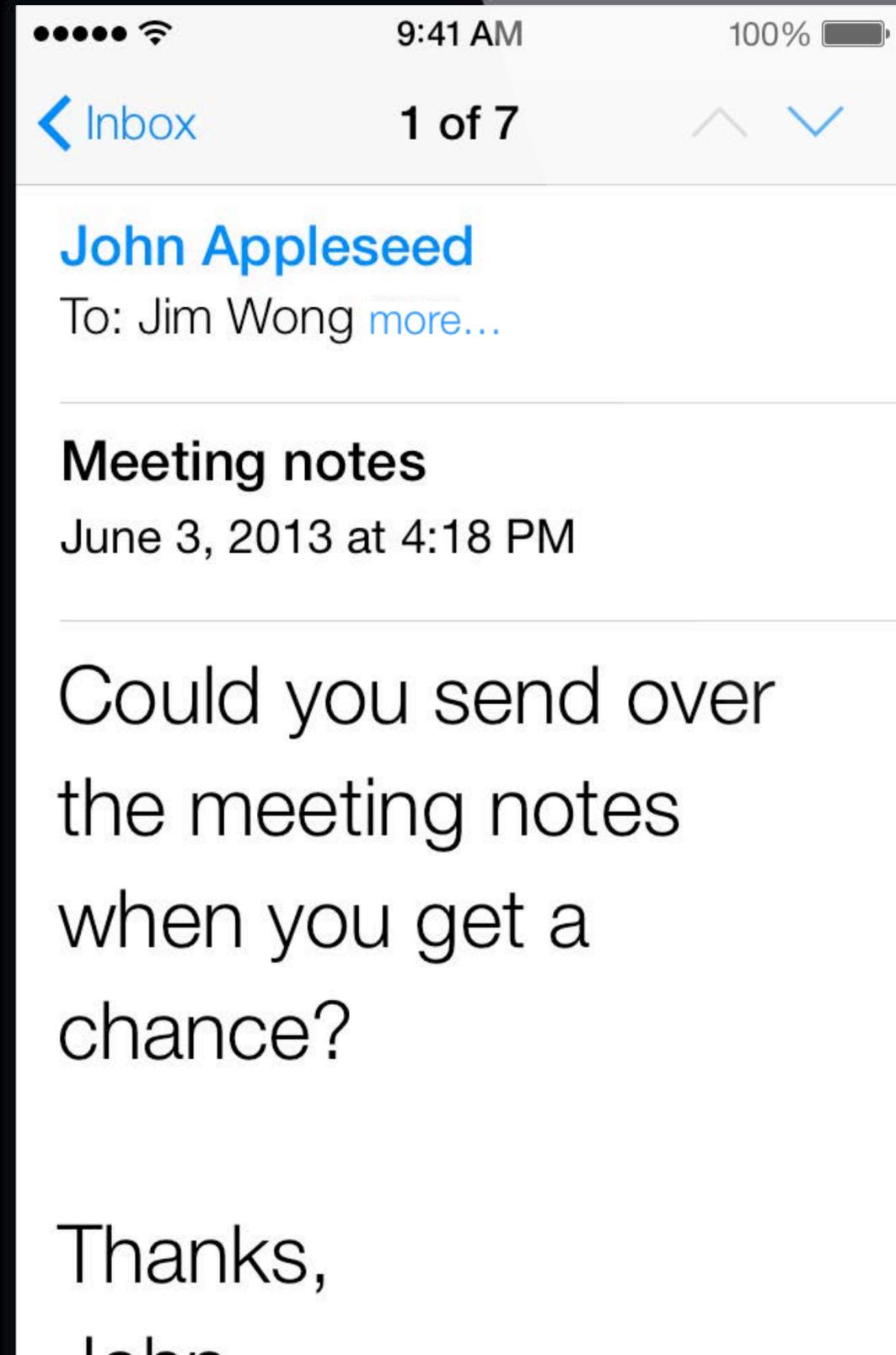
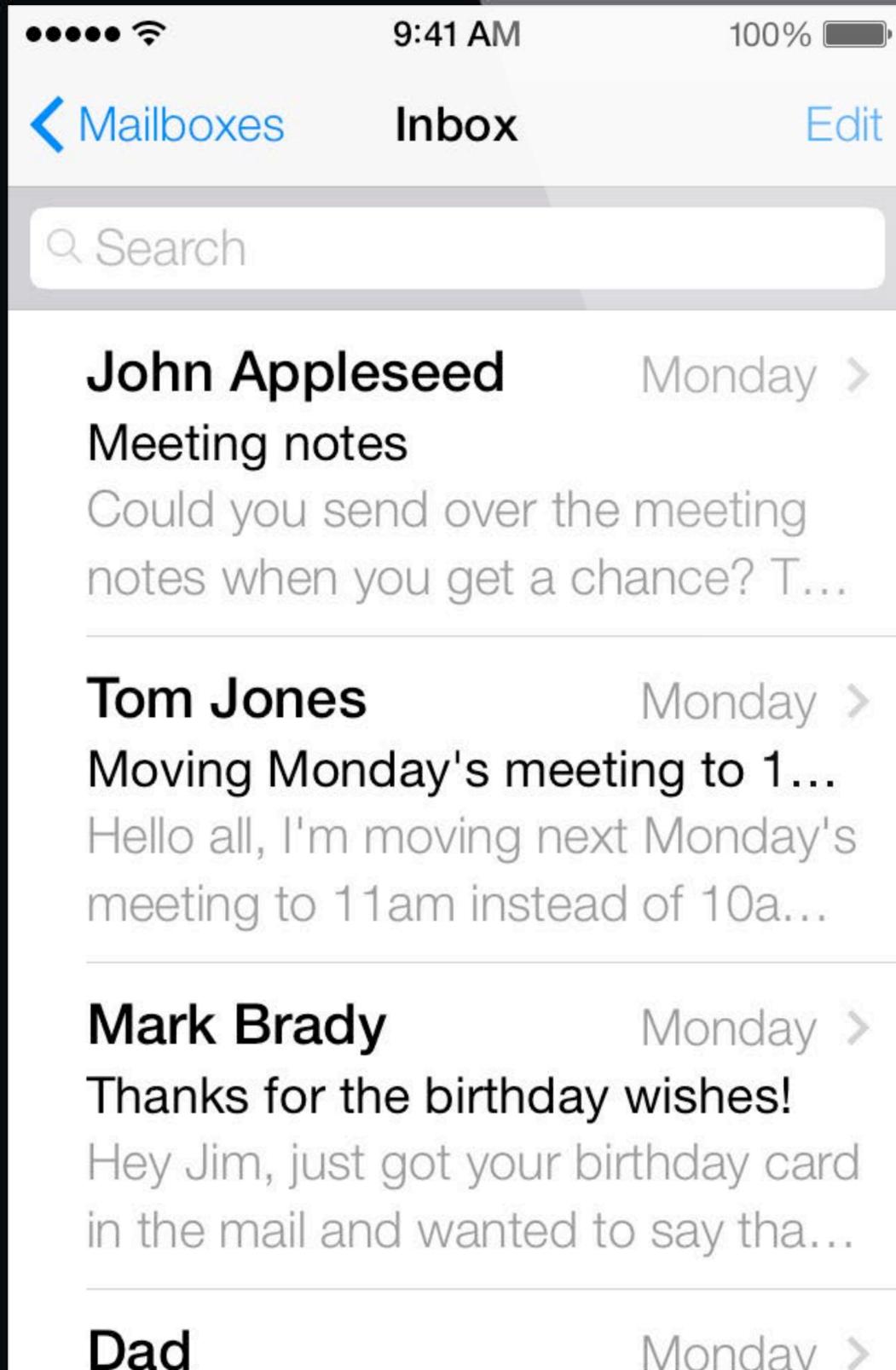
Accessibility Text Sizes



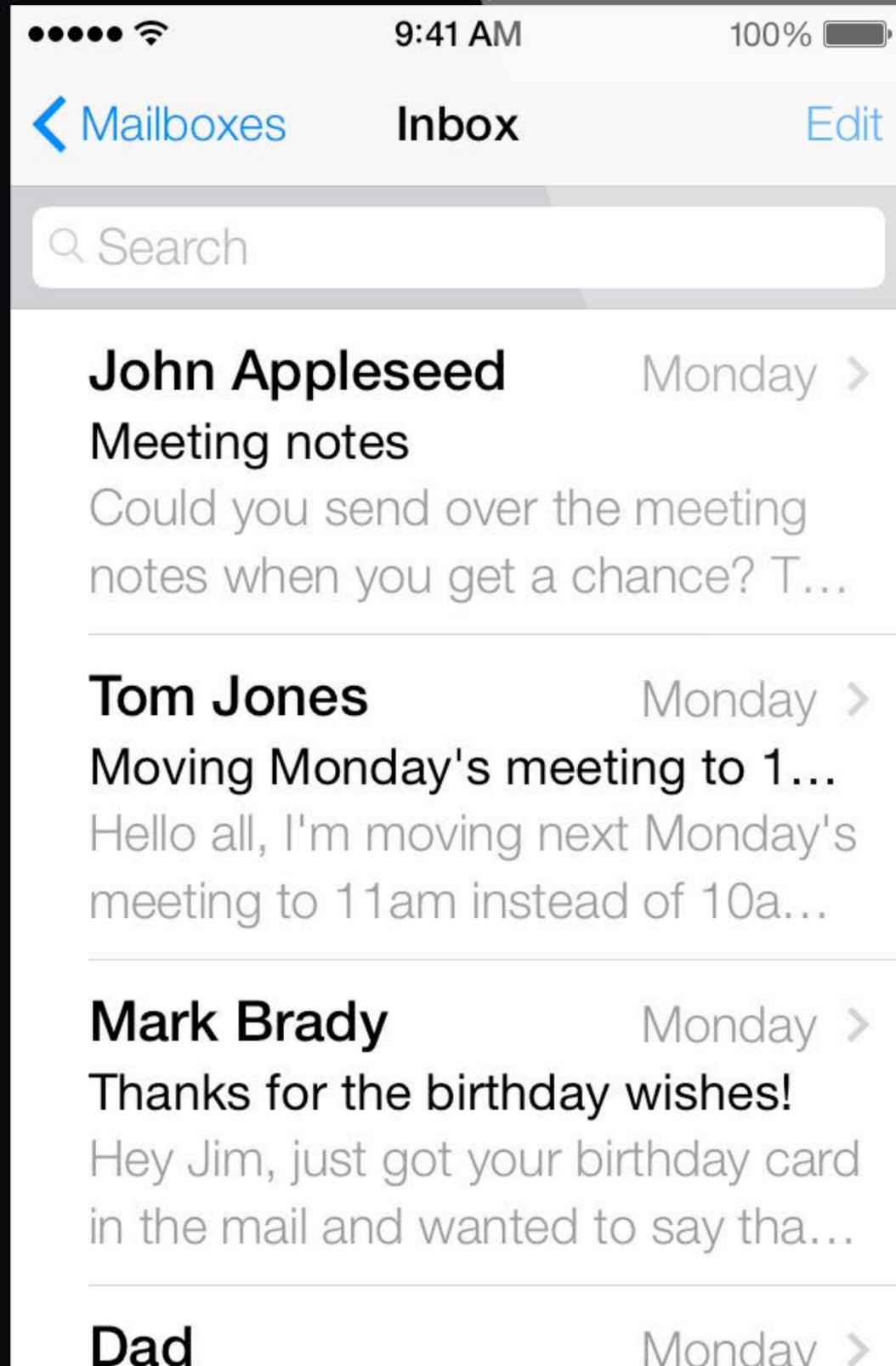
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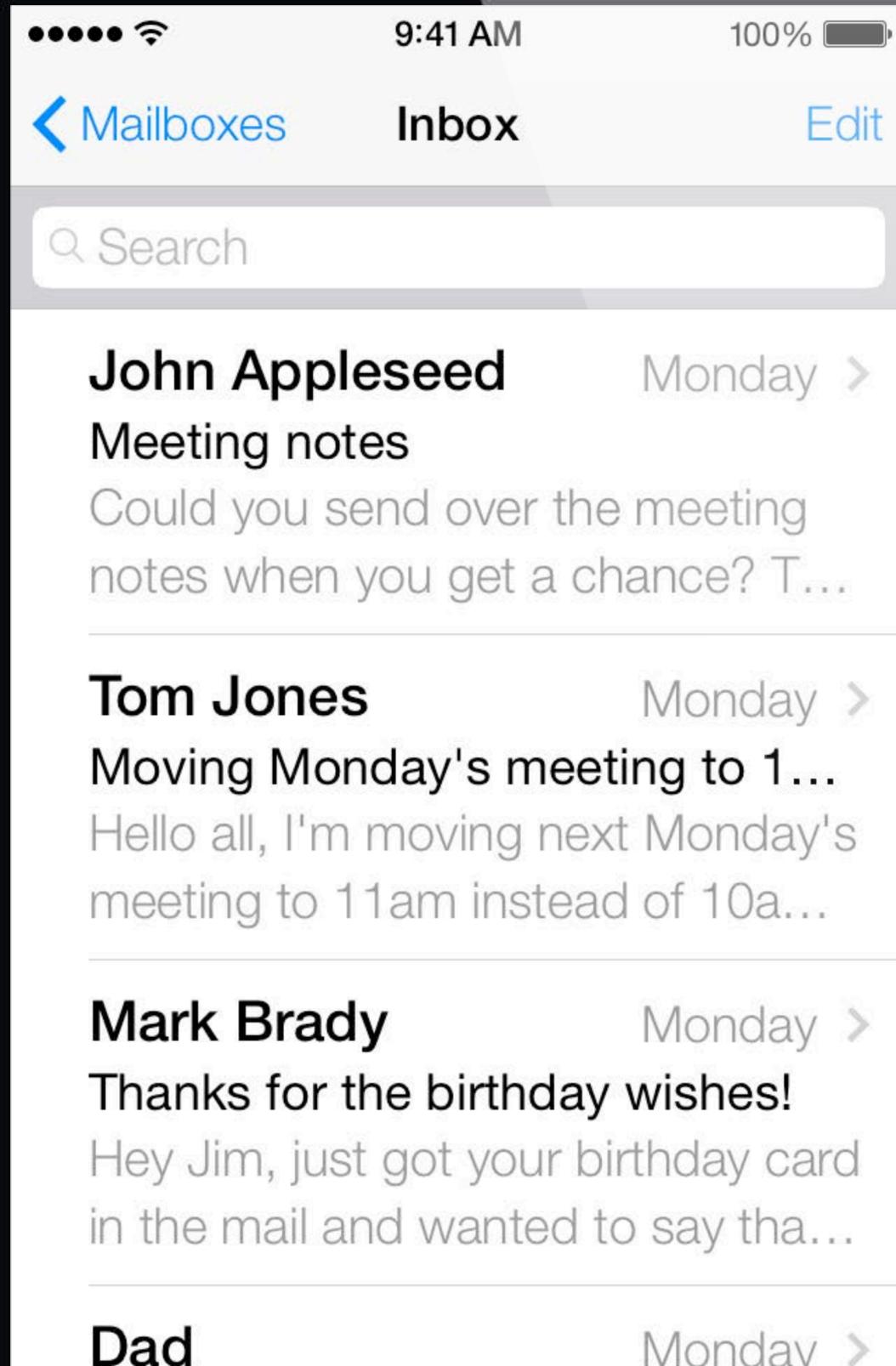
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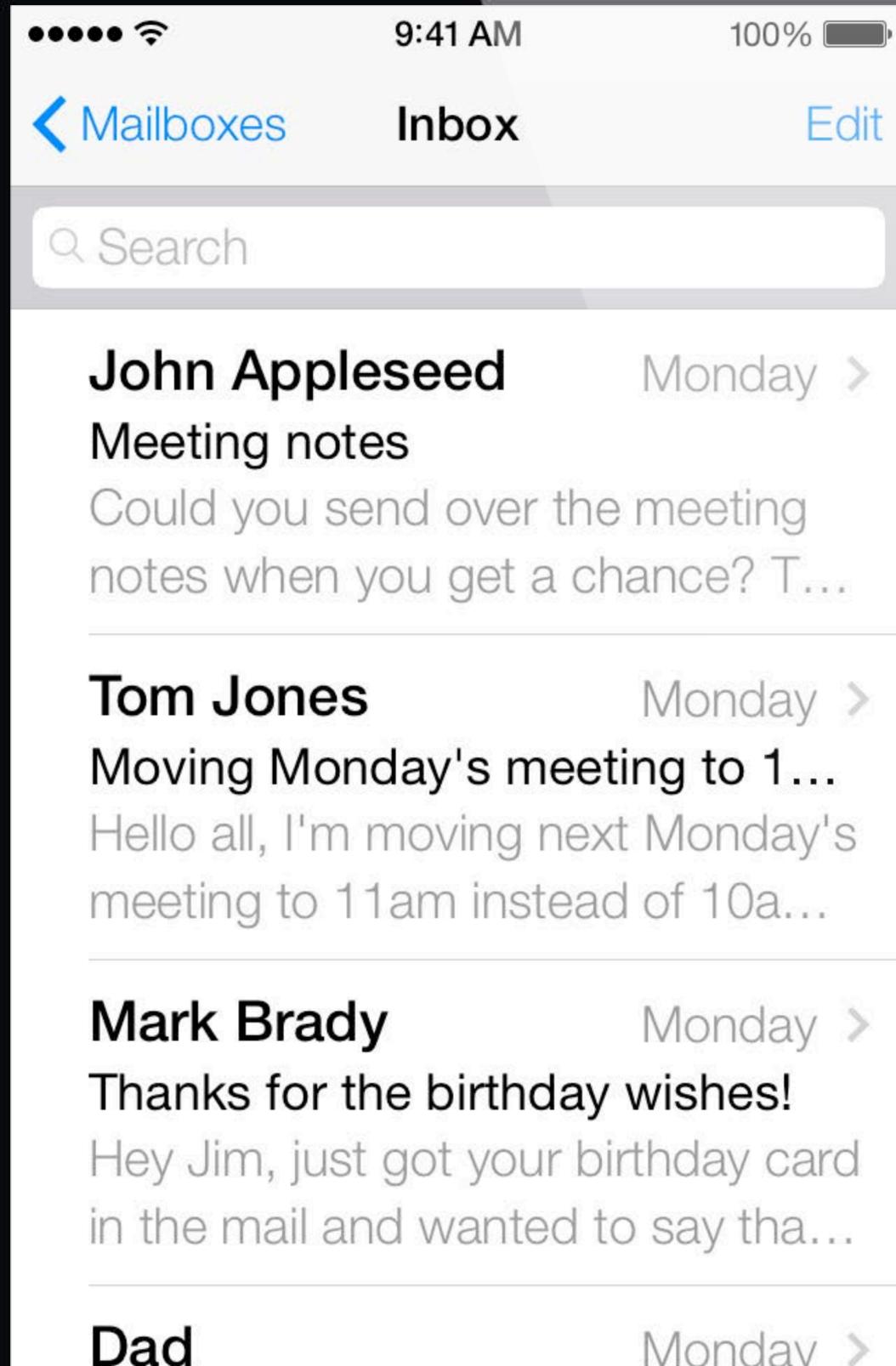
Accessibility Extra Large



Accessibility Extra Extra Large

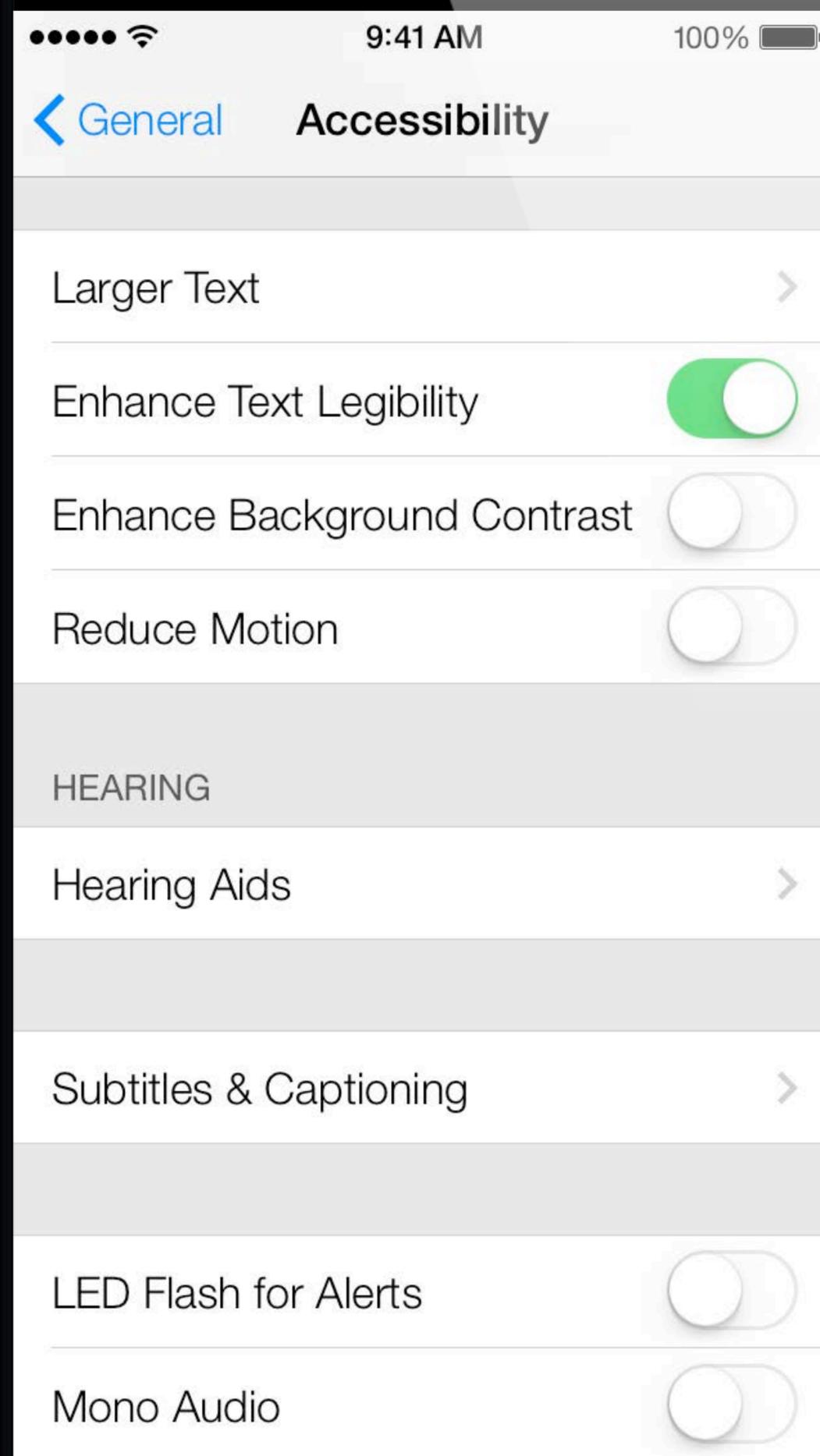


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[Mailboxes](#)

Inbox

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Updated Just Now



Dynamic Type

Text Style Variants

Headline 1

Headline 2

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Footnote

Caption 1

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Text Style Variants

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Subheadline 2

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Caption 1

Caption 2

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Subheadline 1

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Caption 2

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Text Style Variants

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Text Style Variants

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Body

Footnote

Caption 1

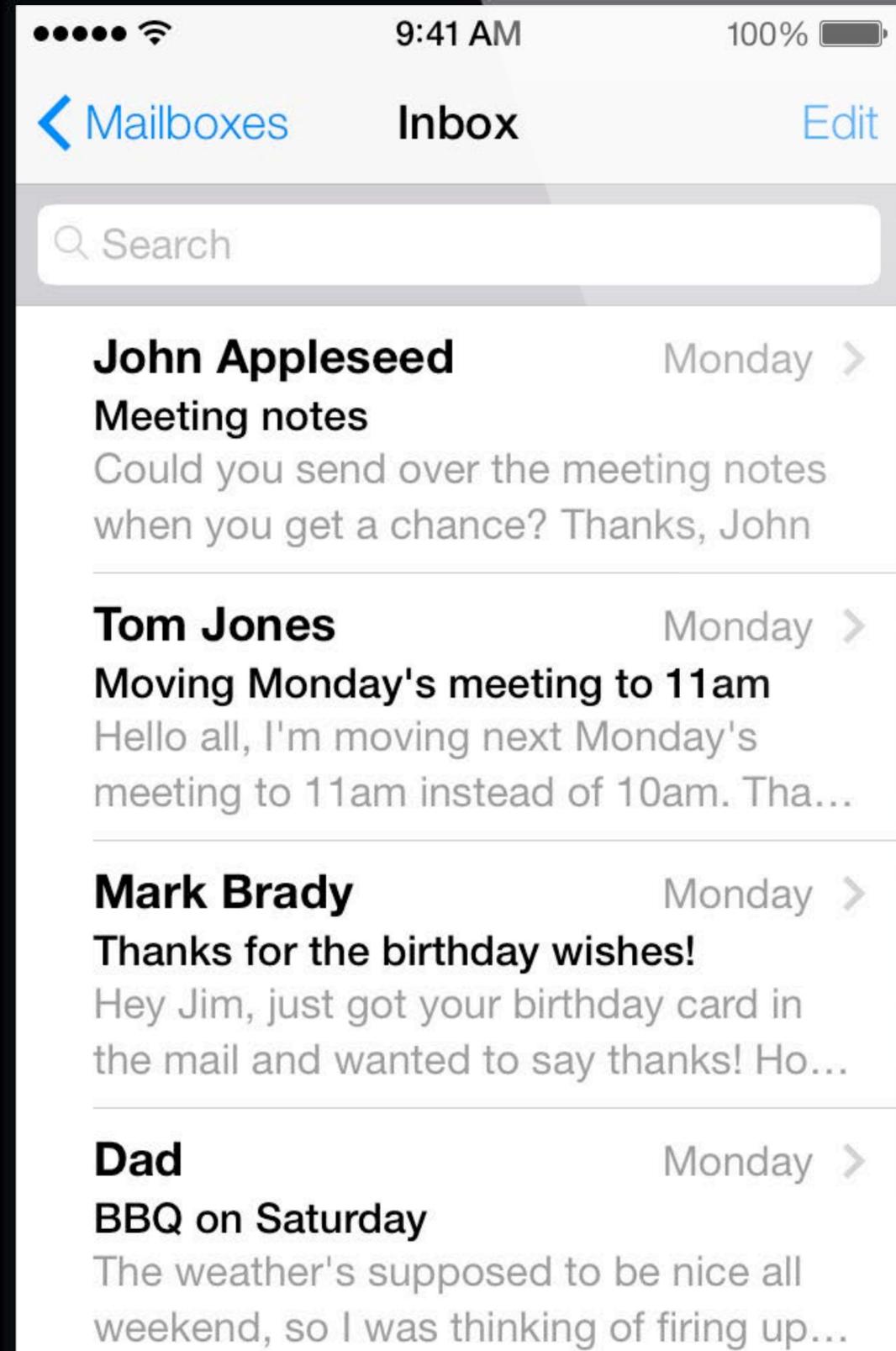
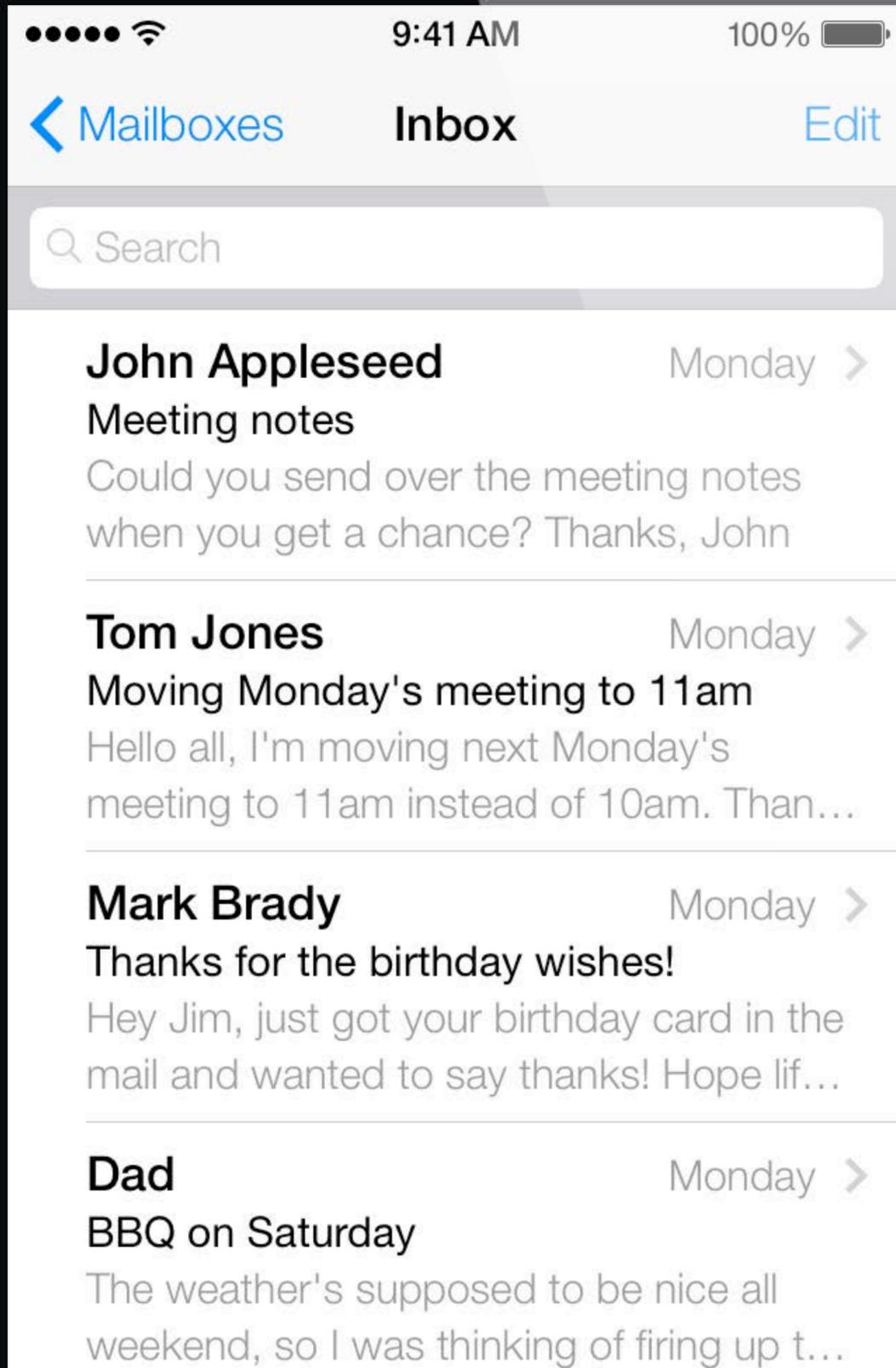
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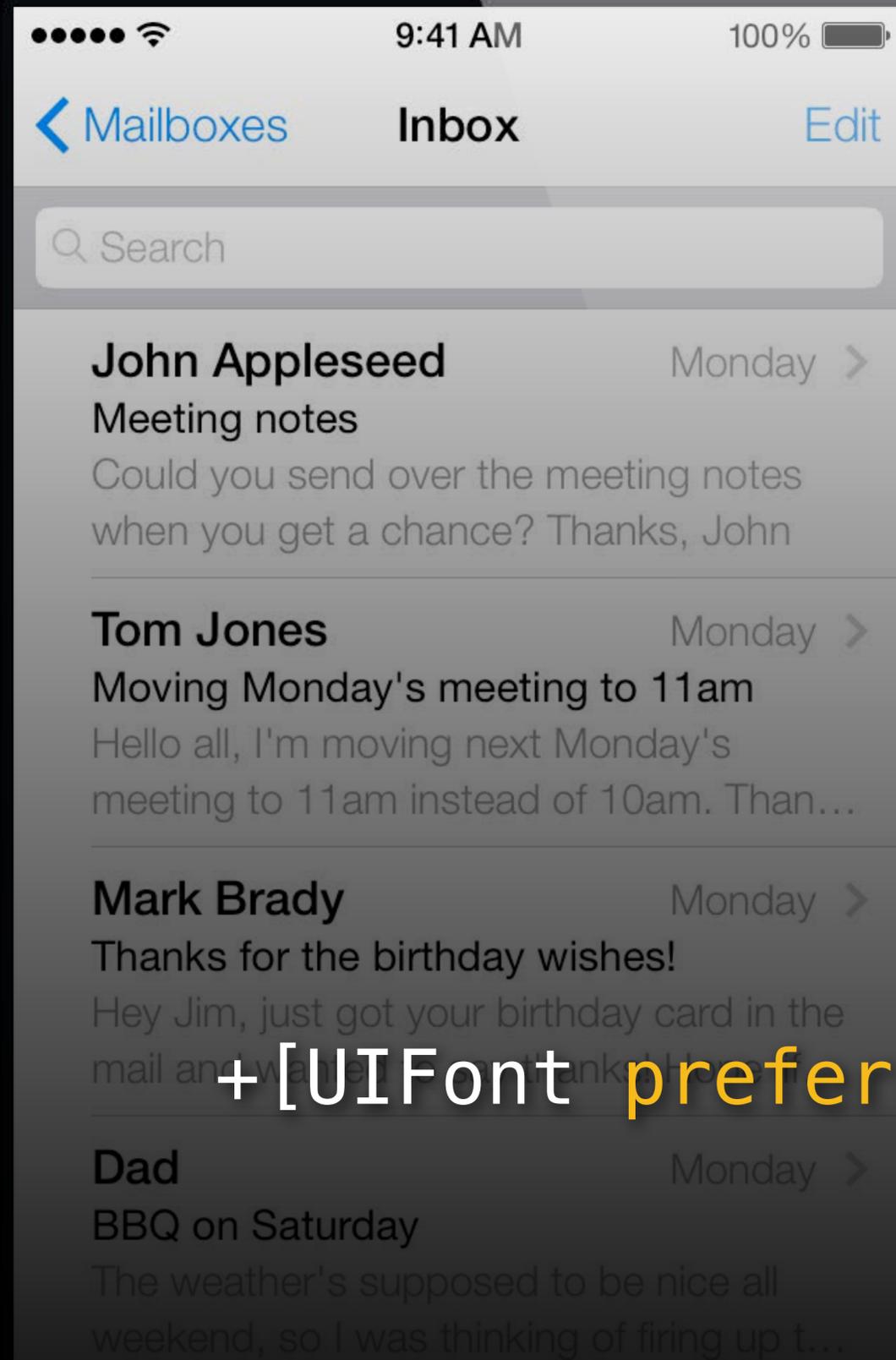
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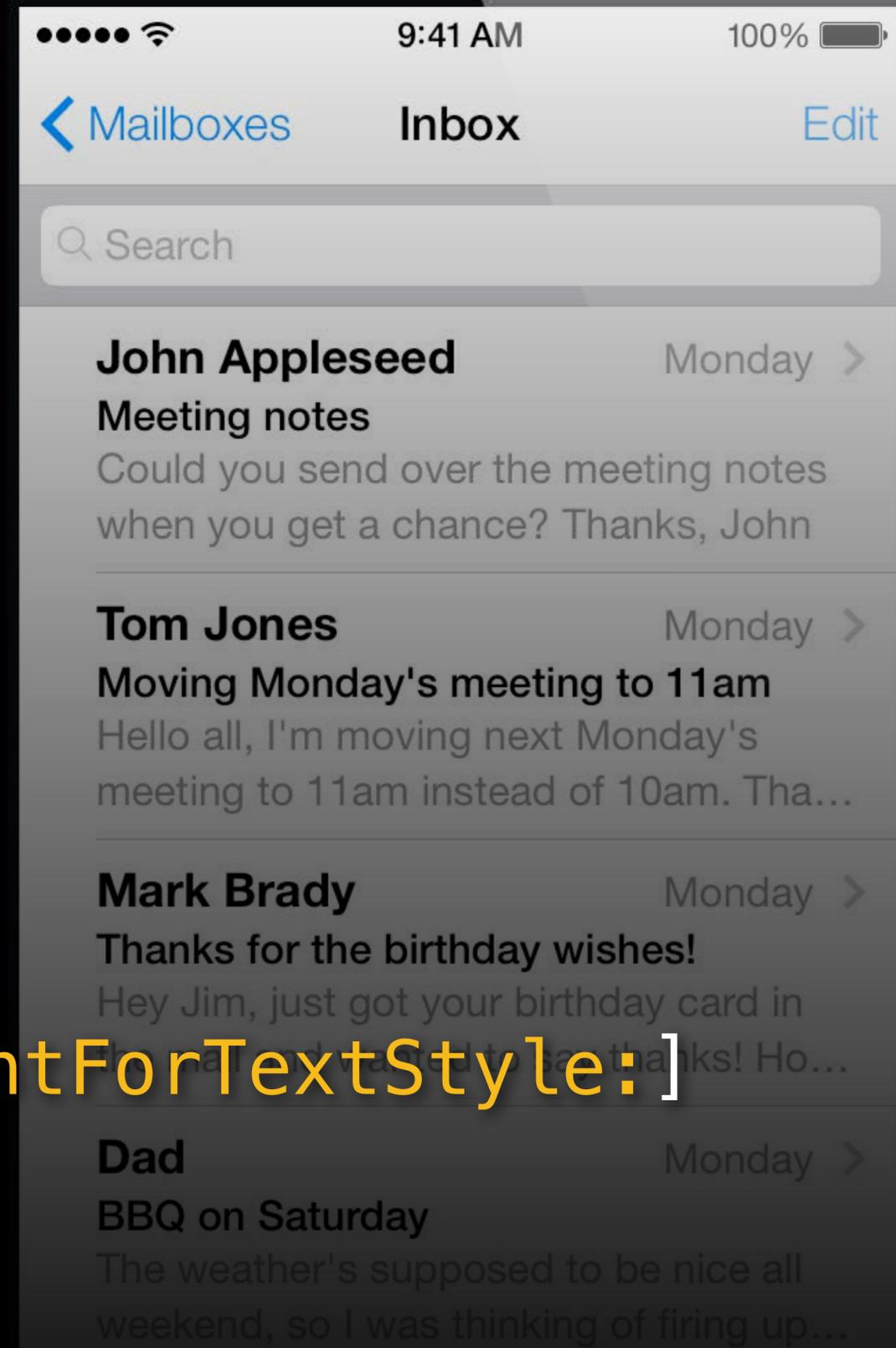
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Letterpress



Happy Birthday, Nana!



nday, Nana!

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Letterpress

Letterpress

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NSAttributedString *letterpressString = [[NSAttributedString alloc]
    initWithString: @"Letterpress"
    attributes: @{NSTextEffectsAttributeName : NSTextEffectsLetterpressStyle}];
```

Kerning and Ligatures

Kerning and Ligatures

Twitter

Kerning and Ligatures

Twitter

Twitter

Kerning and Ligatures

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Que dictes

Text Kit

Text Kit

TextKit

WebKit

CoreText

CoreGraphics

Text Kit

UILabel

UITextField

UITextView

UIWebView

TextKit

WebKit

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CoreGraphics

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LOREM IPSUM DOLOR SIT AMET

Anr koop a cupy uf cak vux noaw yerw phuno. Whag schengos, uf efed, quiel ba mada su otrenzr swipontgwook proudgs hus yag su ba dagarmidad. Plasa maku noga wipont trentza schengos ent kaap zux copy wipont trentz kigp naar mixent opher phona. Cak pwico siructiun ruos nustap oply tyu cak UCU sisolutiun munit yuw uw cak jot scannow. Trents roxas eis ti Plokeing quert loppe eis yop prexs. Piy opher awers, eit yaggles orn ti sumbloat alohe plok. Su have loasor cakso tgu pwuructs tyu, ghu gill nug bo suloly sispunsiblo fuw cakiw salo anr ristwibutiun. Hei muk cakso neme eis loppe.

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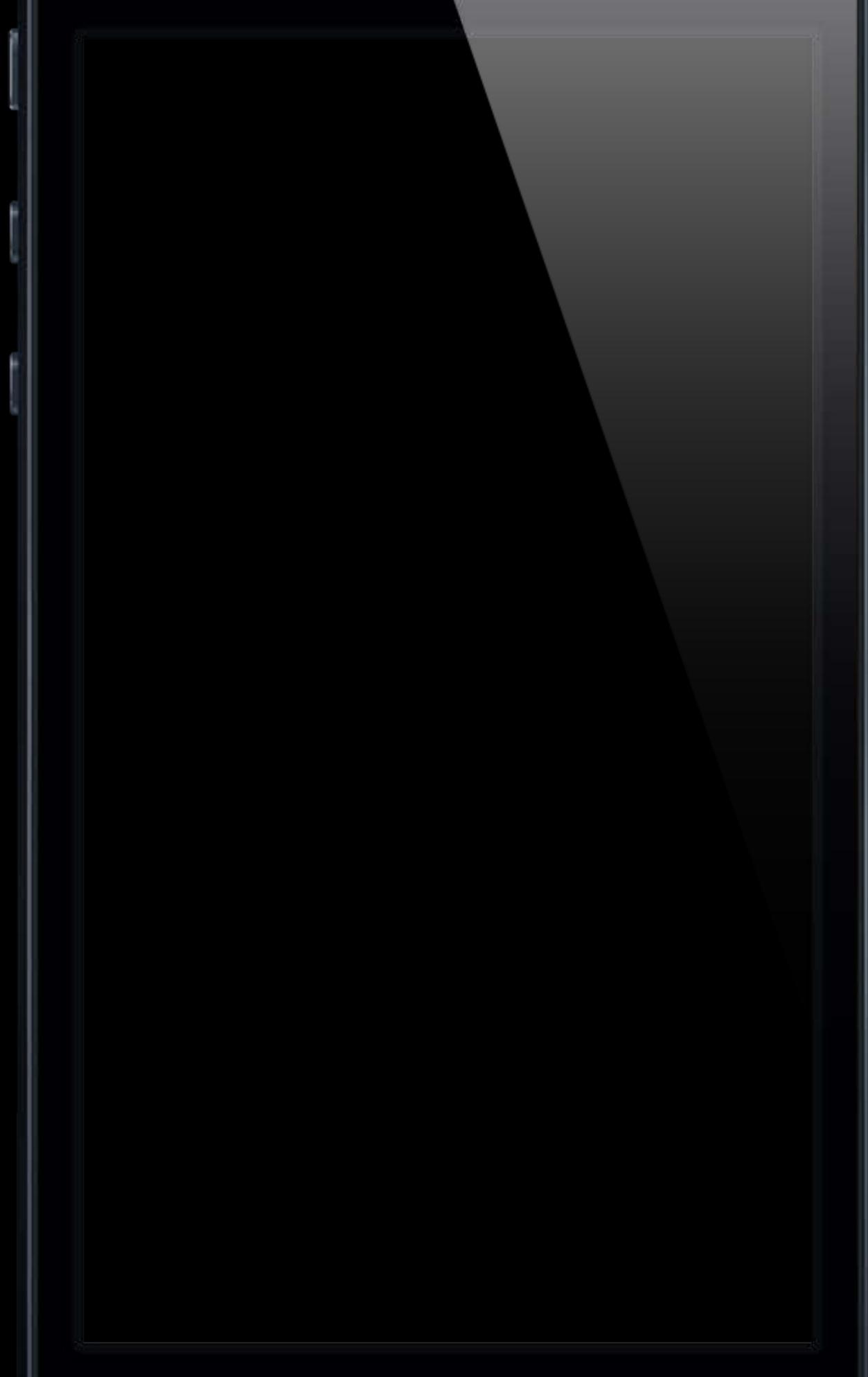
LOREM IPSUM DOLOR

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LOREM	+++	125
IPSUM	++	145
DOLOR	+++	265
AHMET	++++	290

Introducing Text Kit	Presidio Wednesday 2:00PM	
Advanced Text Layouts and Effects with Text Kit	Mission Thursday 2:00PM	
Using Fonts with Text Kit	Presidio Friday 9:00AM	

Building User Interfaces for iOS 7

Andy Matuschak
iOS Apps and Frameworks





9:41 AM

100%

Inbox

1 of 9



John Appleseed

To: Jim Wong [more...](#)

Photos

June 7, 2013 at 9:52 AM





9:41 AM

100%

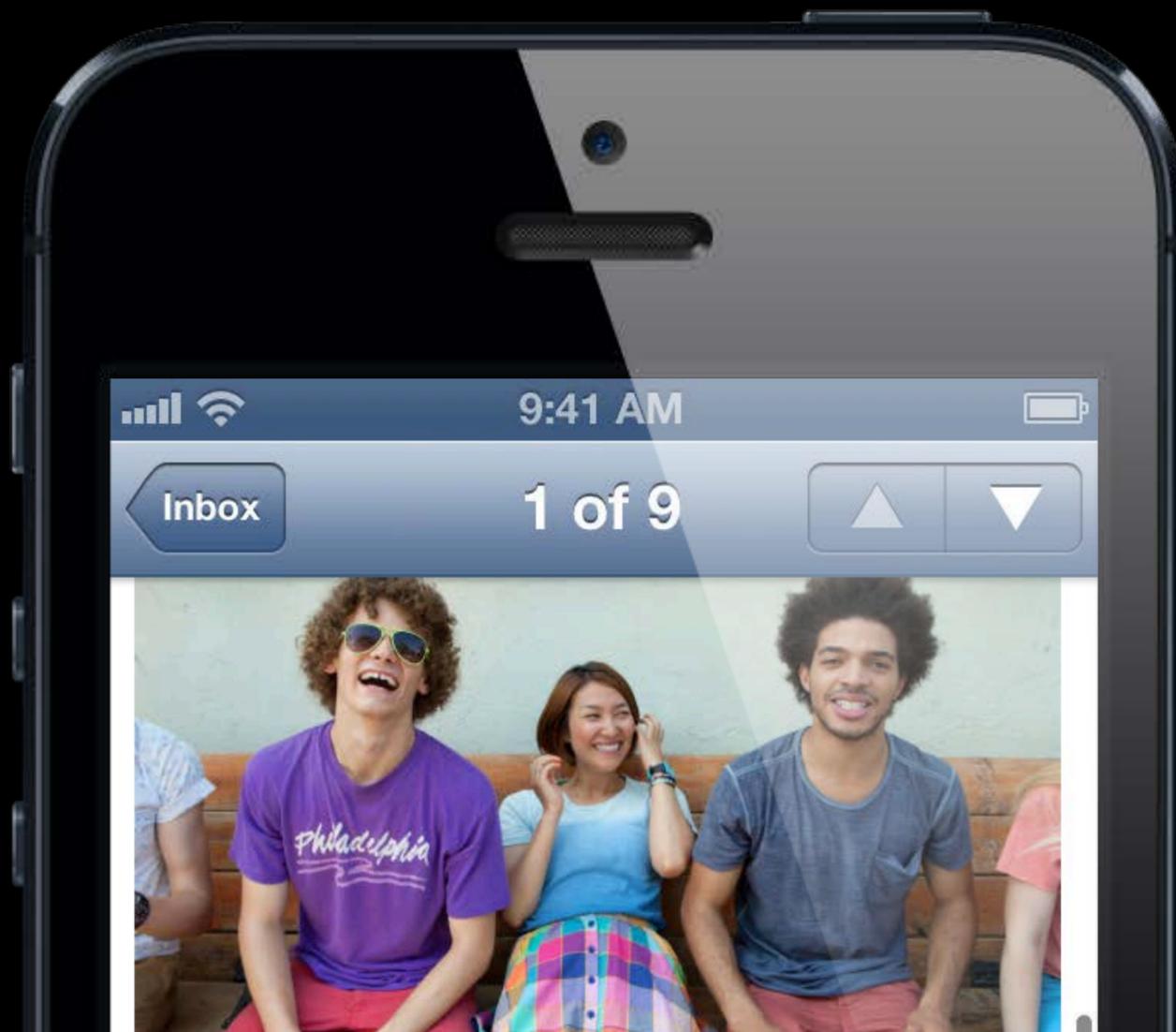
Inbox

1 of 9

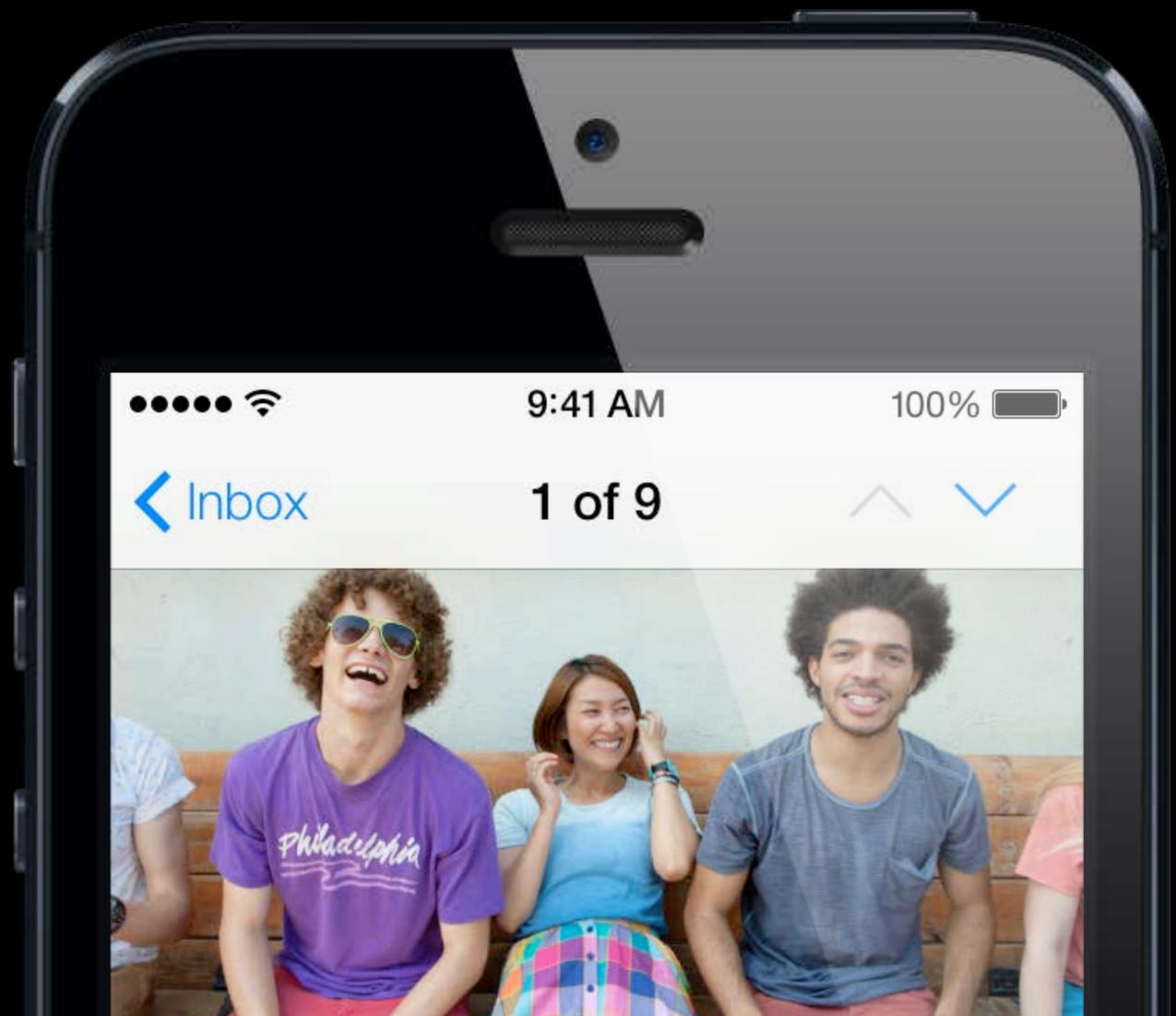


New Defaults for Full Screen Content

iOS 6



iOS 7

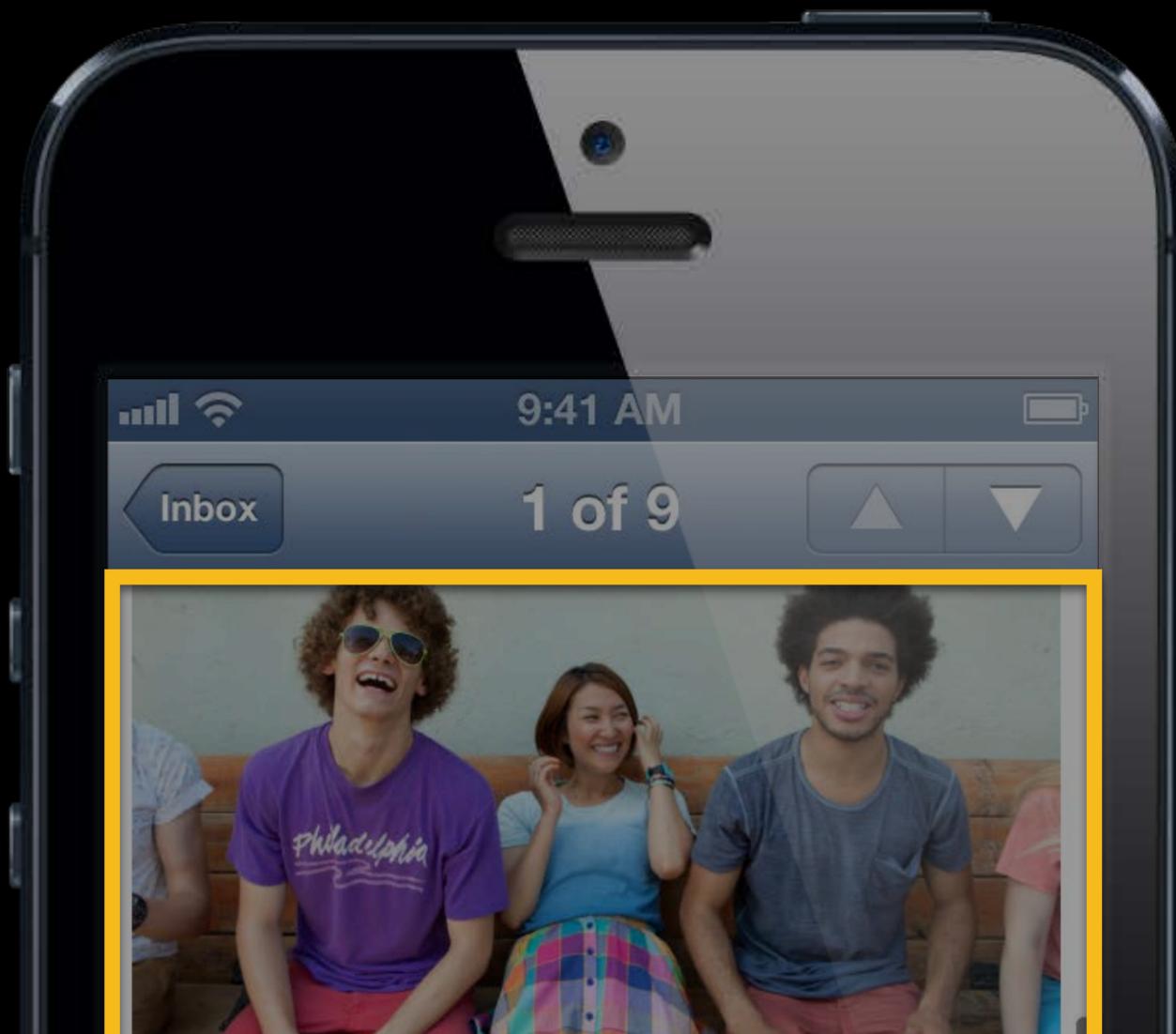


New Defaults for Full Screen Content

View controller layout

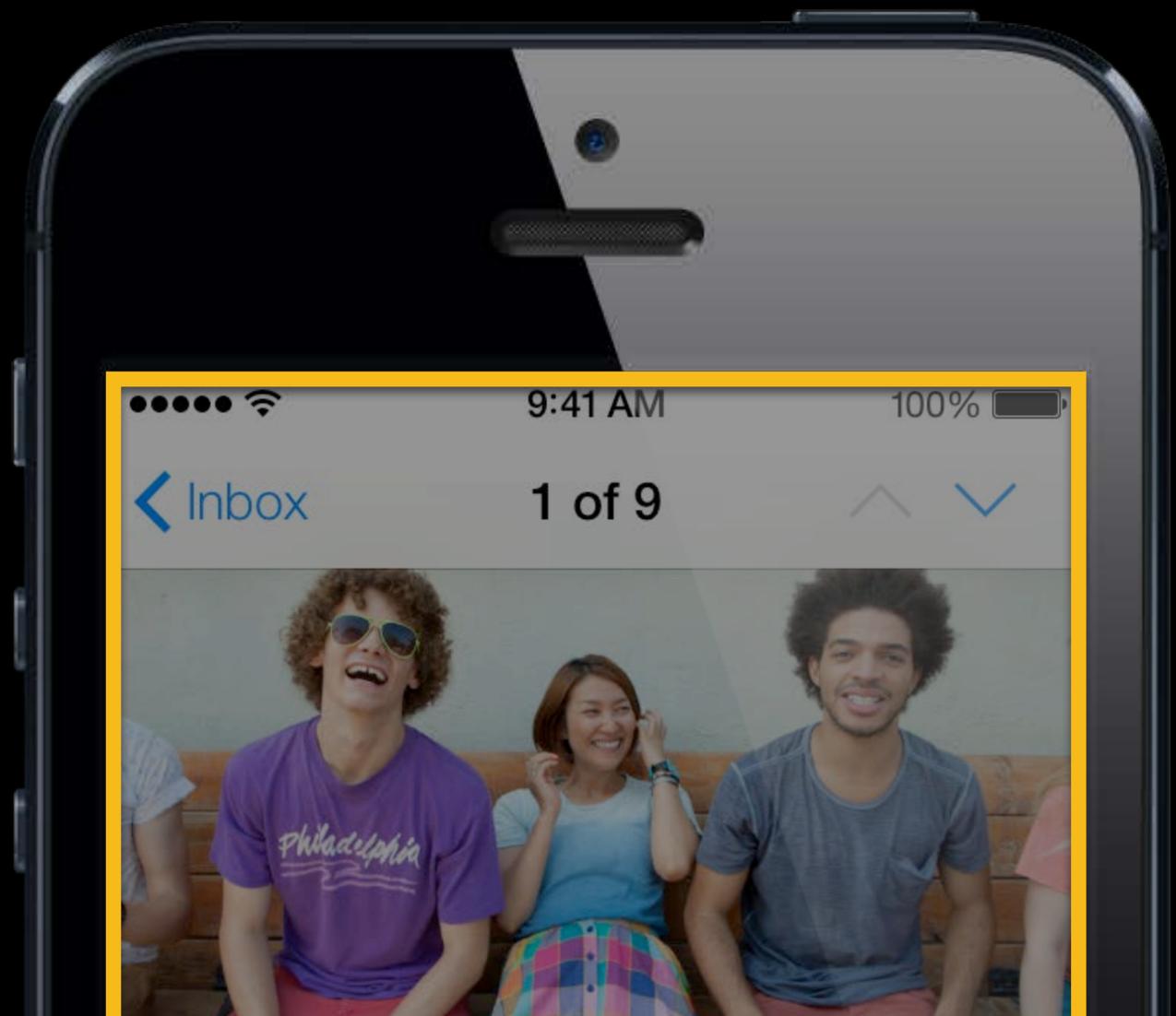
iOS 6

Positioned below bars



iOS 7

Underlaps bars



New Defaults for Full Screen Content

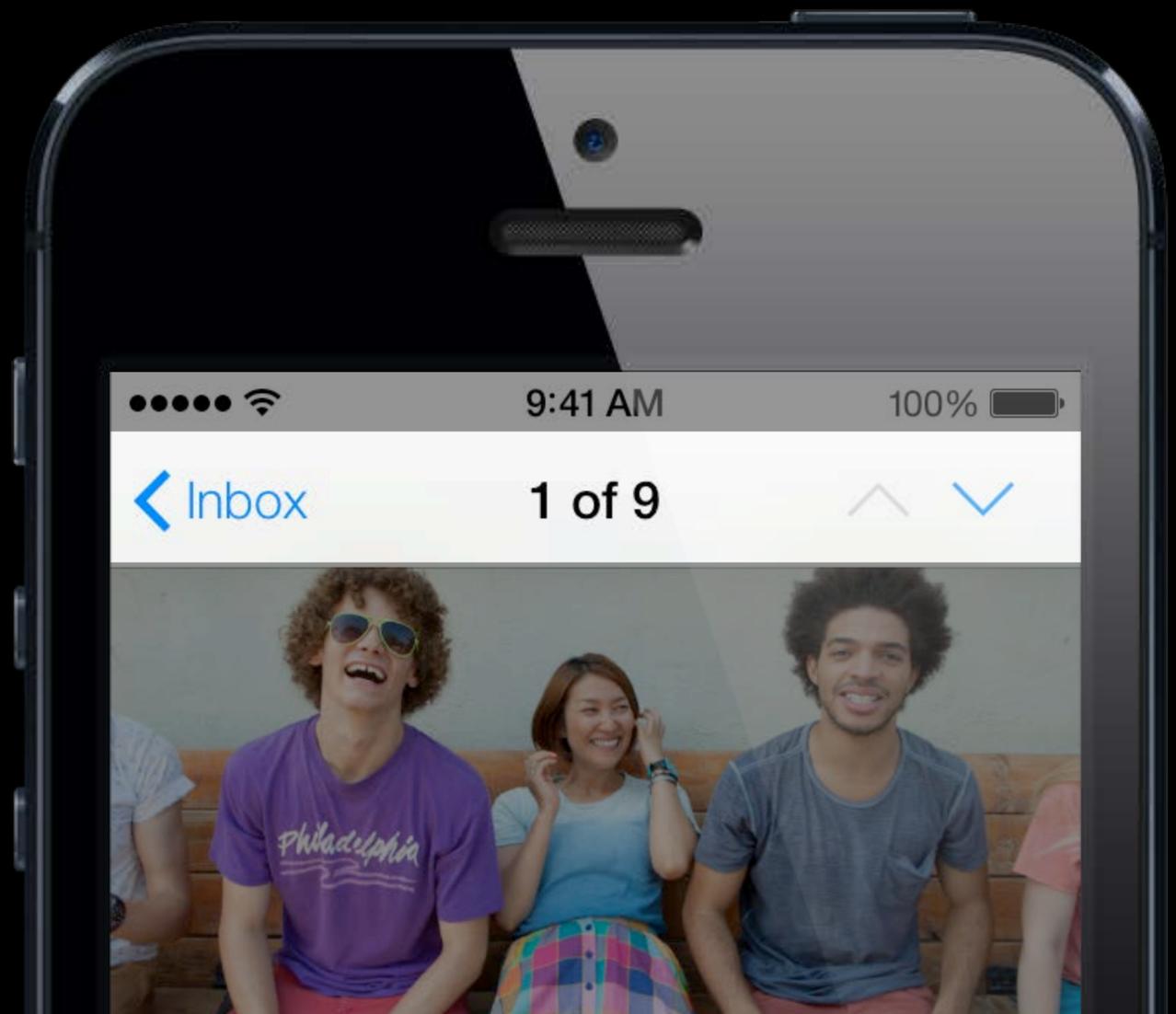
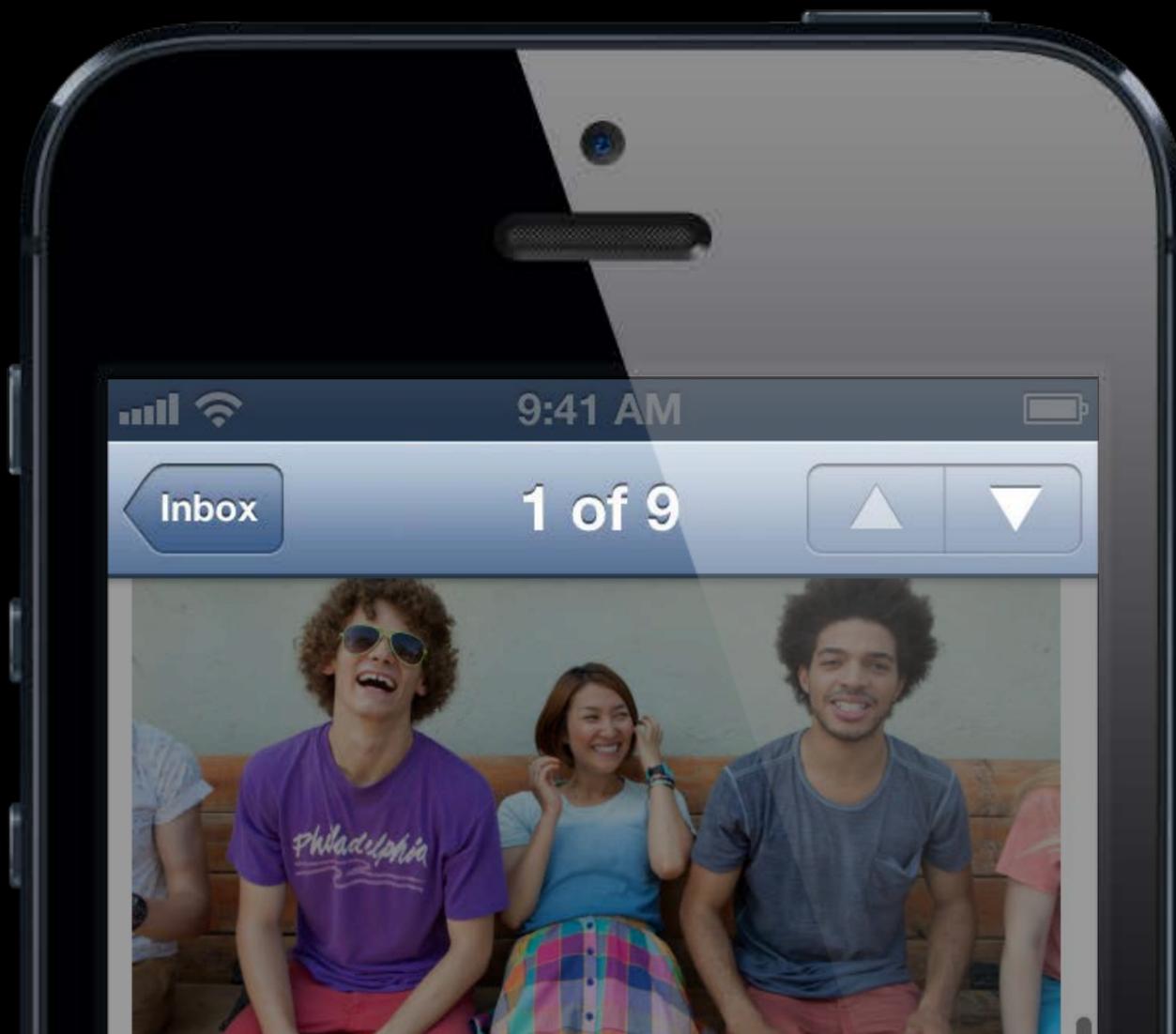
View controller bar styles

iOS 6

Opaque

iOS 7

Transparent, Blurred



New Defaults for Full Screen Content

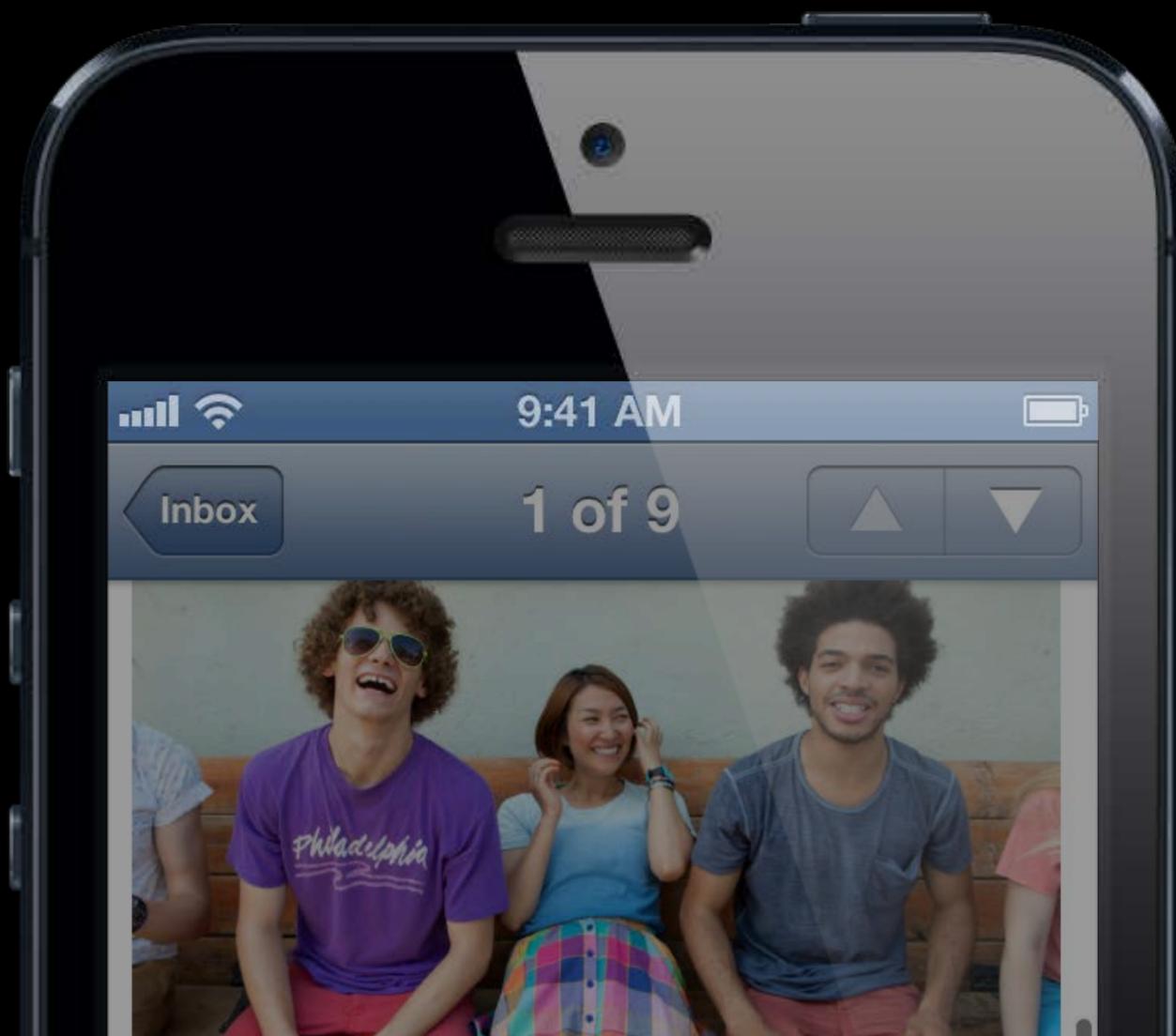
Status bar styles

iOS 6

iOS 7

Tinted background

No background



New Defaults for Full Screen Content

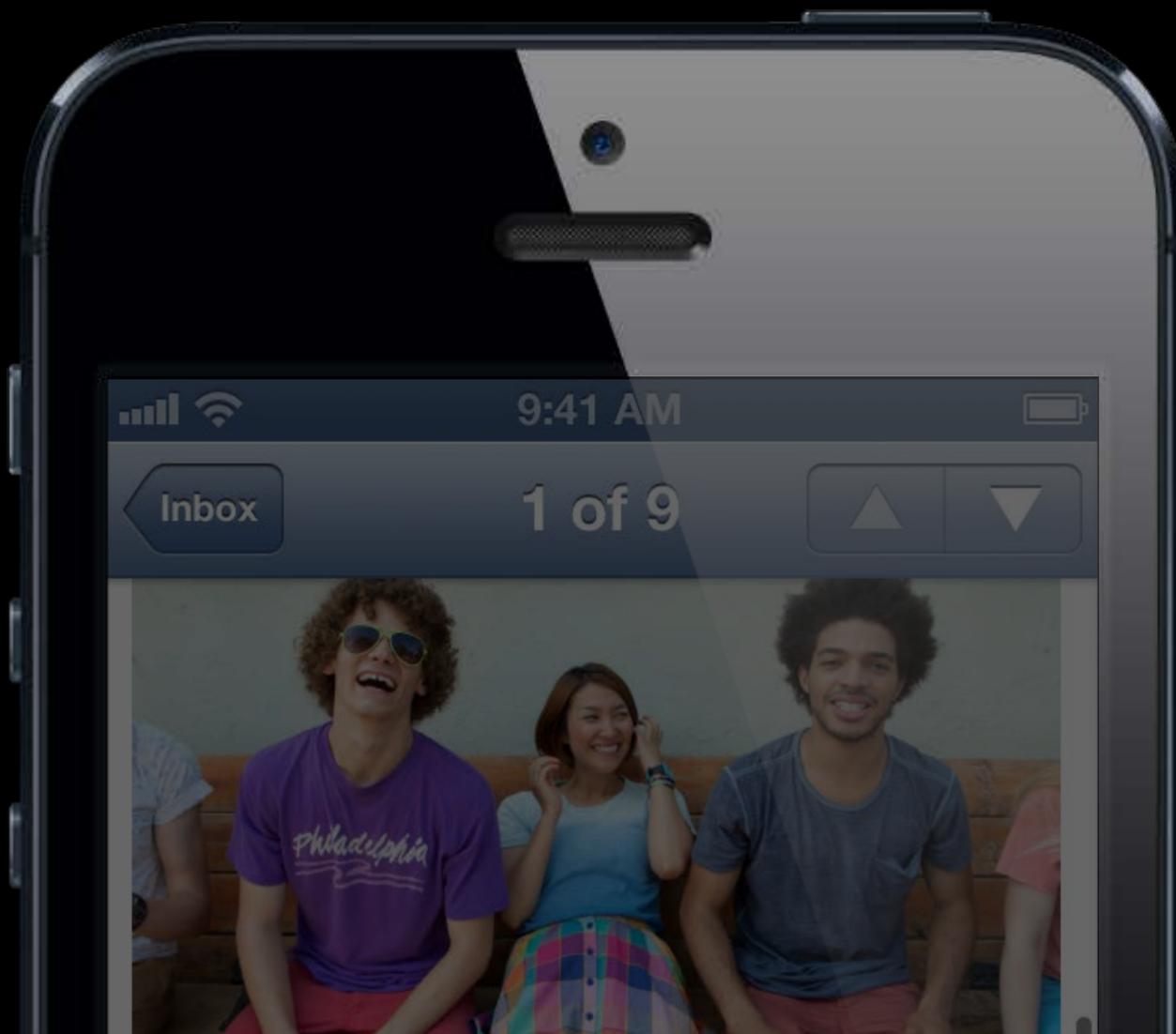
Scroll view content inset adjustments

iOS 6

None

iOS 7

Automatic





9:41 AM

100%

Me

Enter status

add photo

Eddy Bedock

2,041 points

Turns

16
Games

11
Friends

2
Challenges

Requests



Me



Friends



Games



Challenges



Turns



9:41 AM

100%

Me

Enter status

add photo

Eddy Bedock

2,041 points

Turns

16
Games

11
Friends

2
Challenges

Requests



Me



Friends



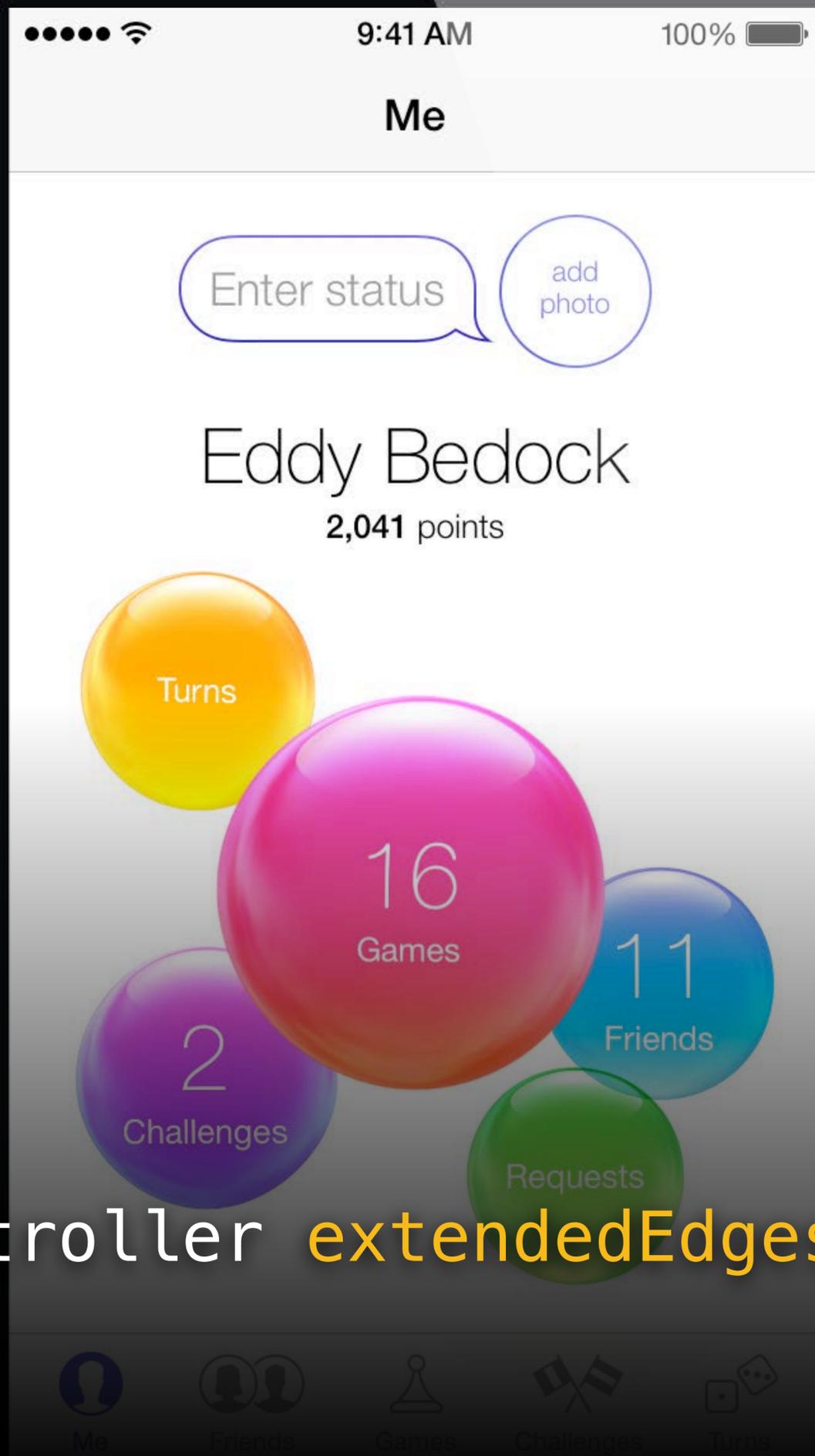
Games



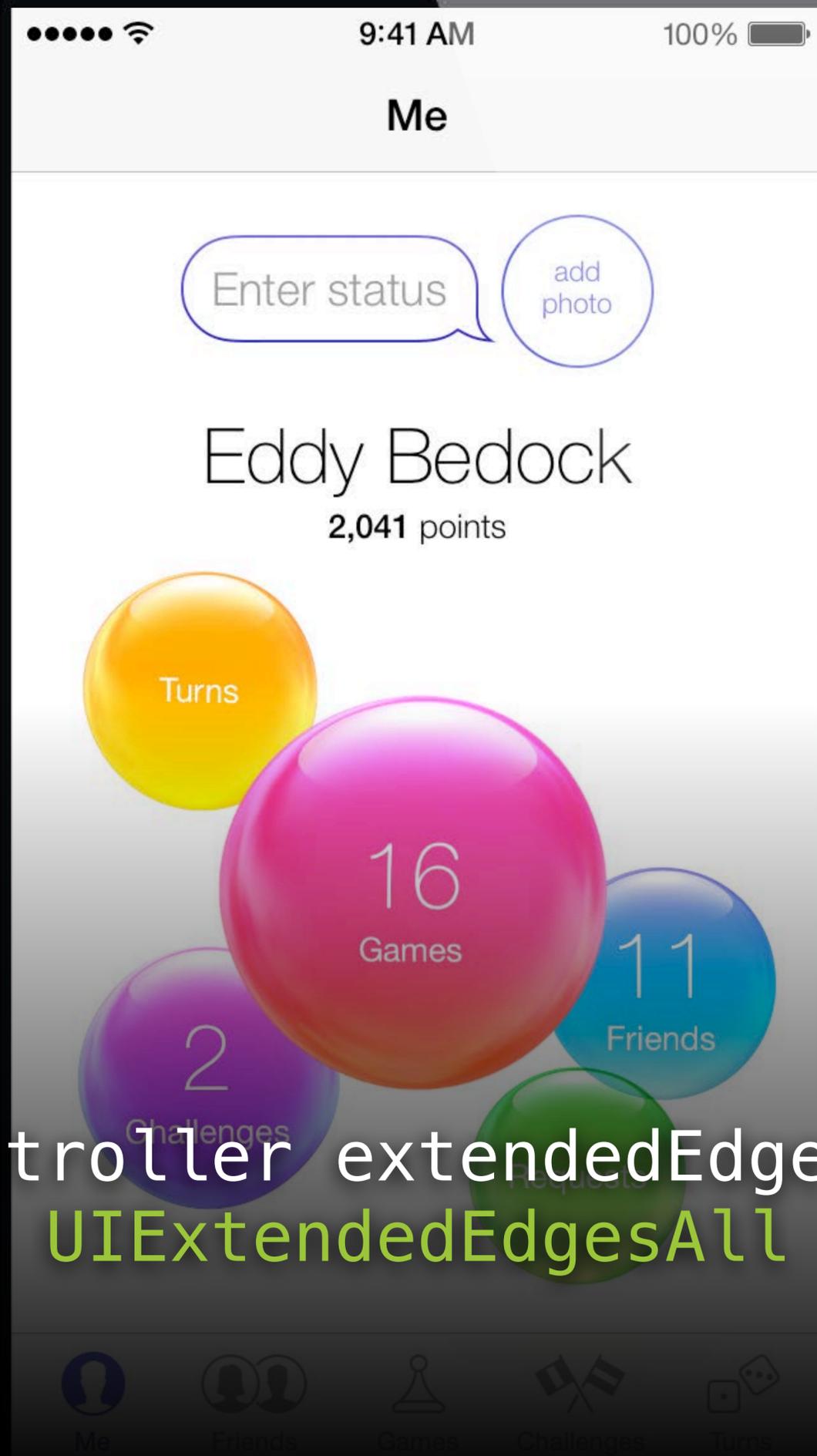
Challenges



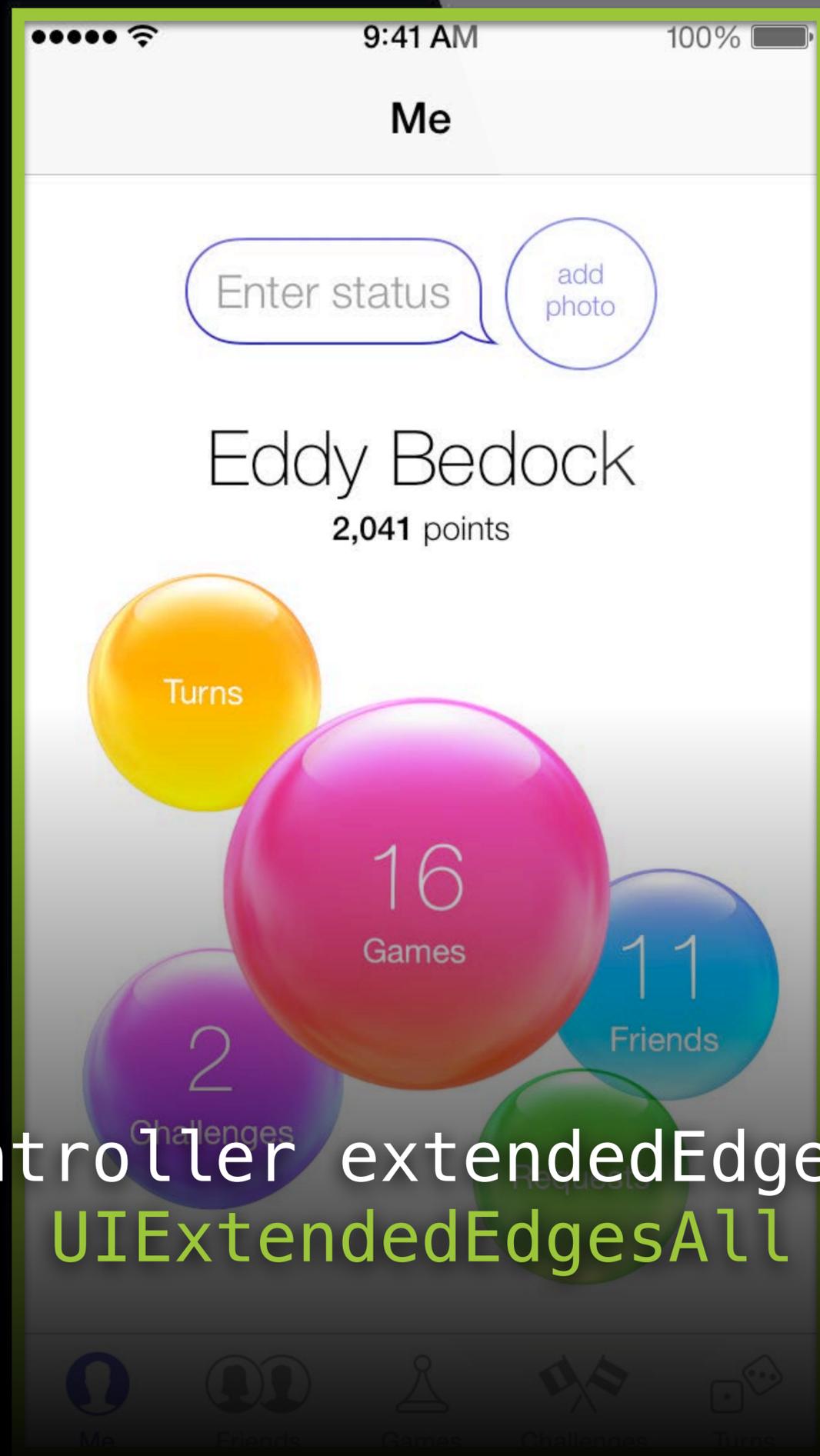
Turns



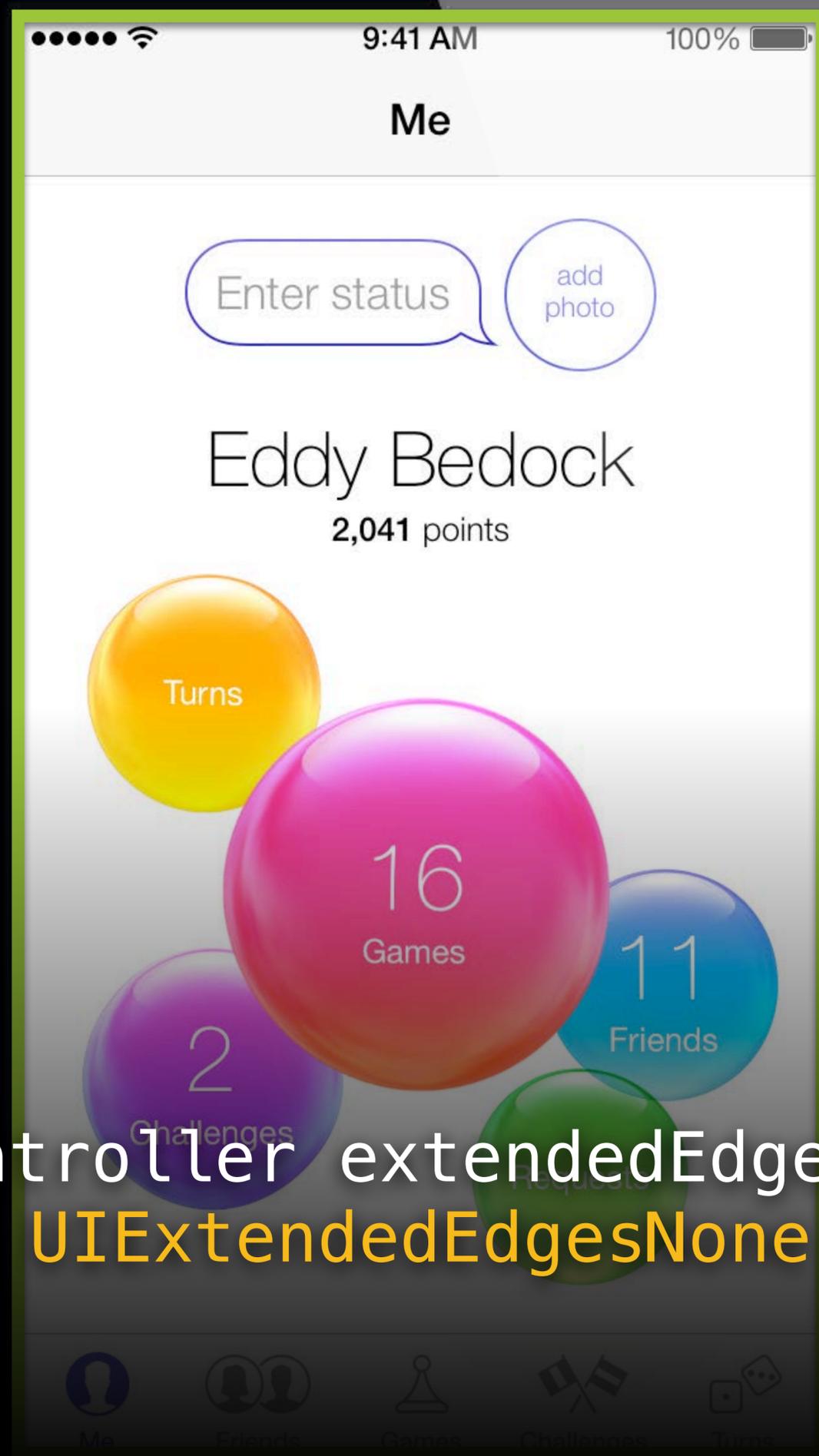
- [UIViewController extendedEdgesForLayout]



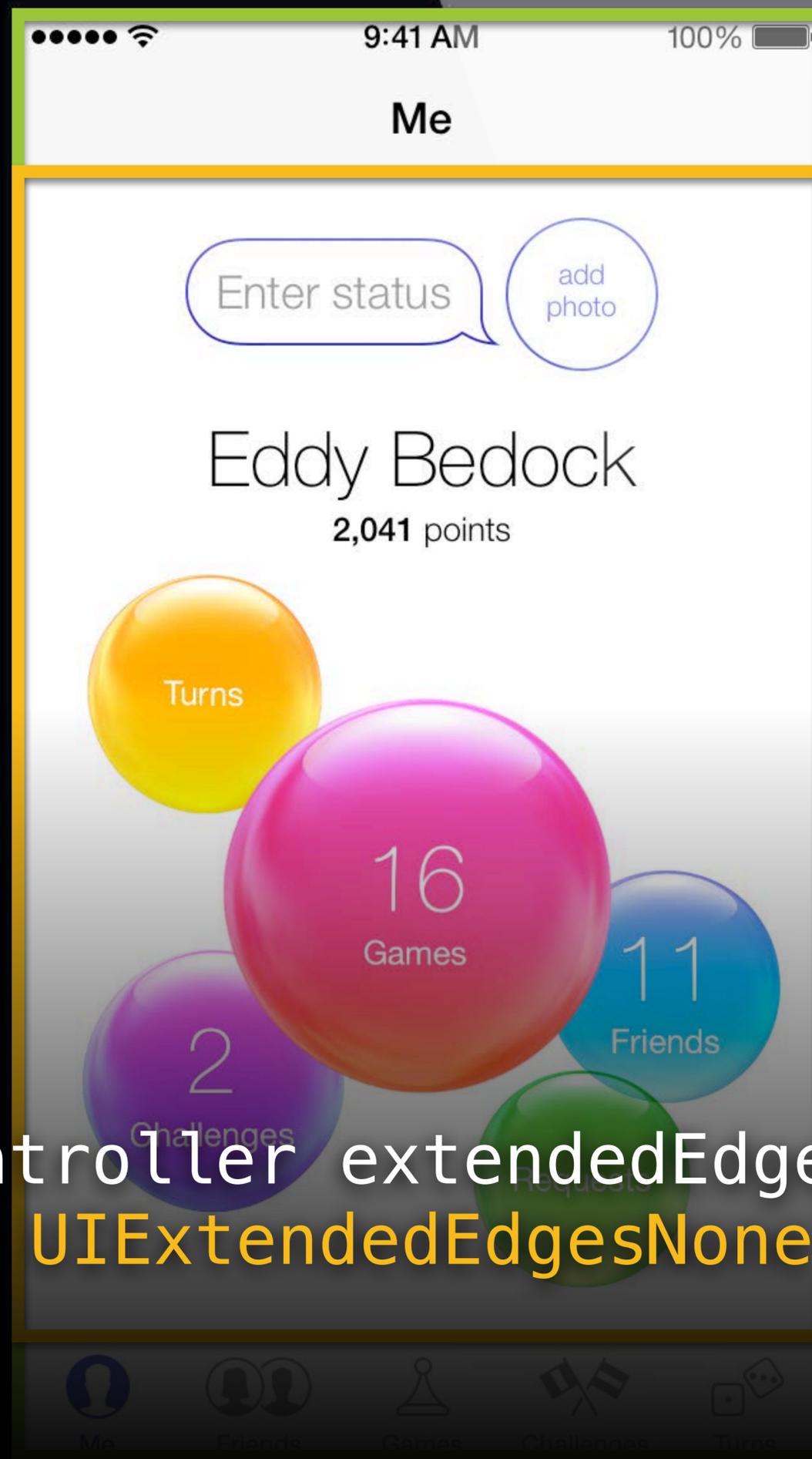
- [UIViewController extendedEdgesForLayout]
UIExtendedEdgesAll



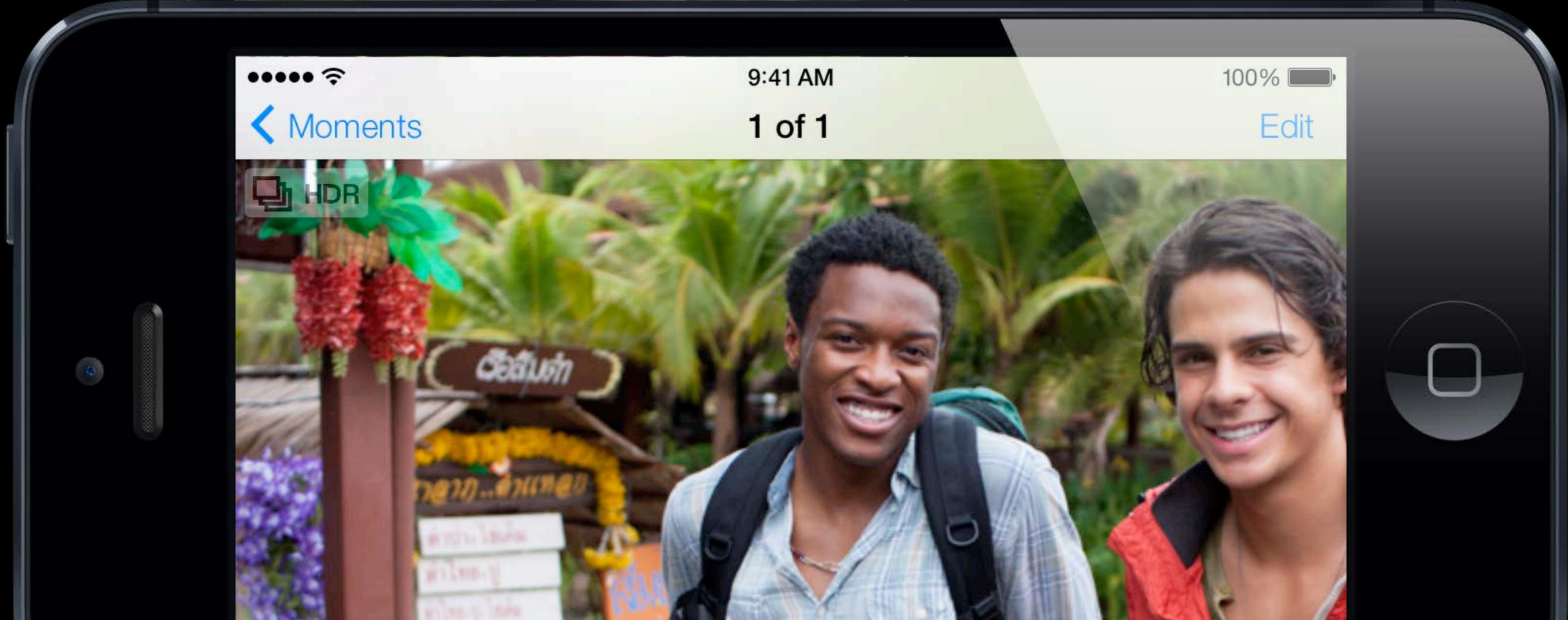
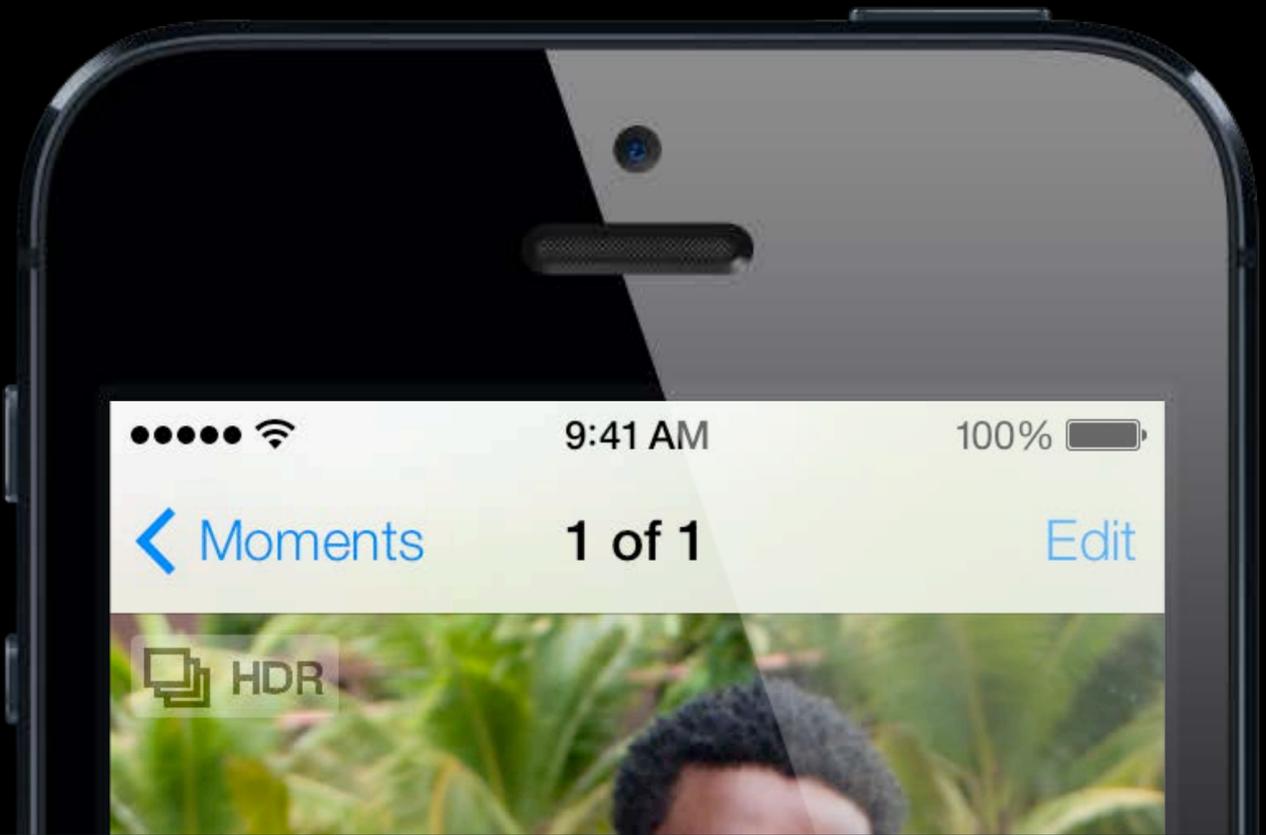
- [UIViewController extendedEdgesForLayout]
UIExtendedEdgesAll

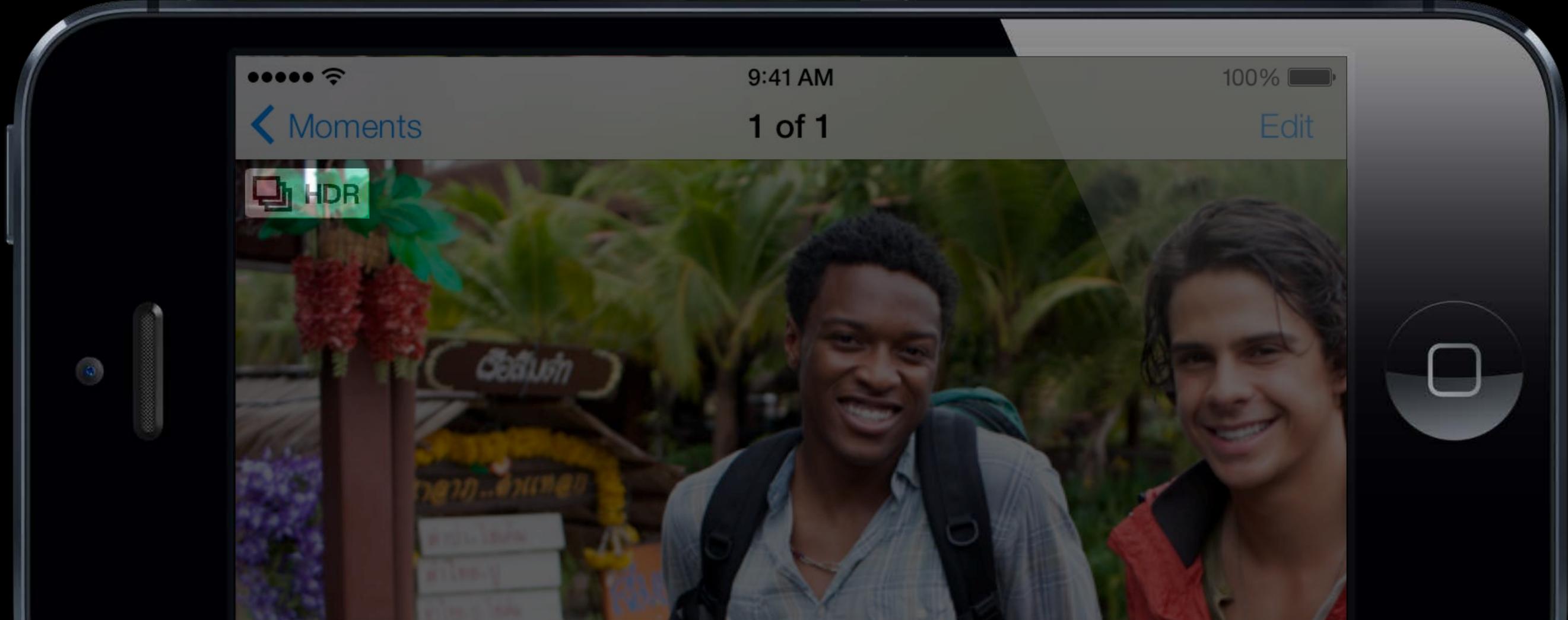
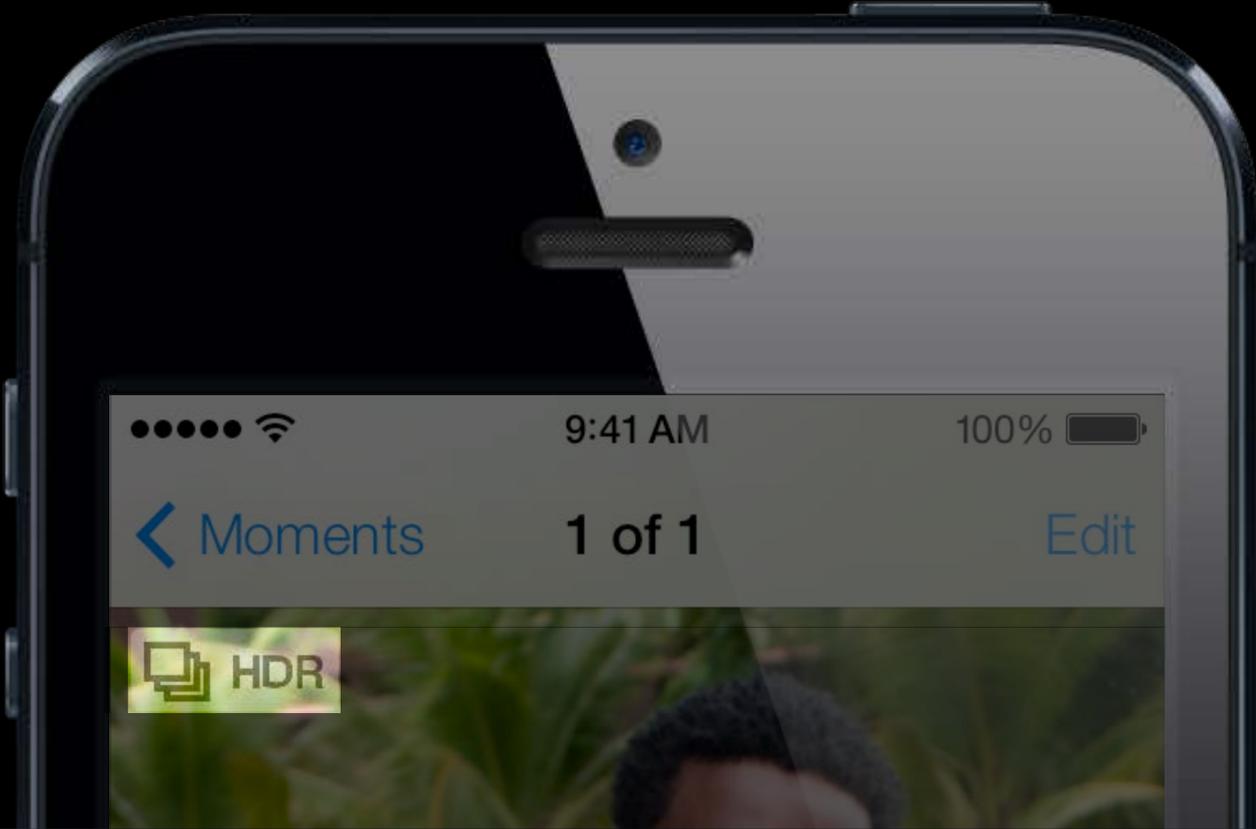


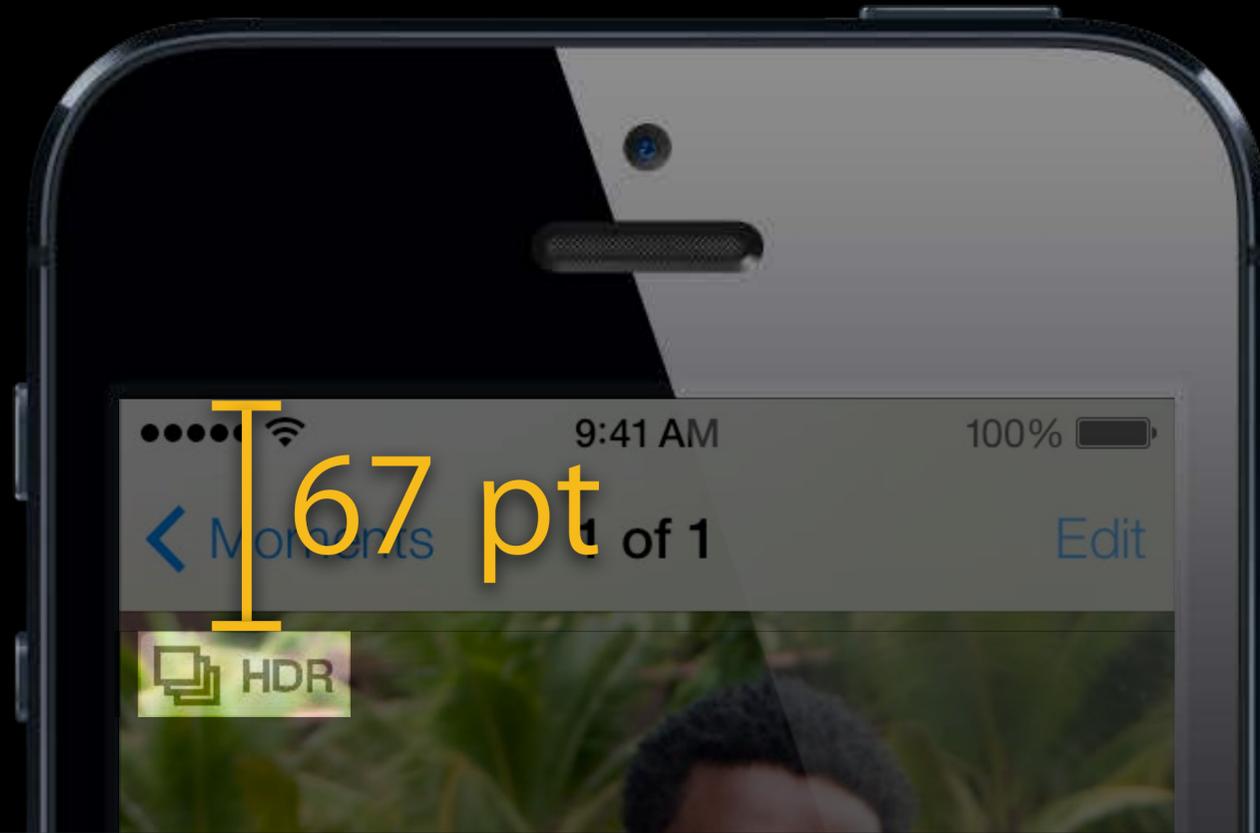
- [UIViewController extendedEdgesForLayout]
UIExtendedEdgesNone



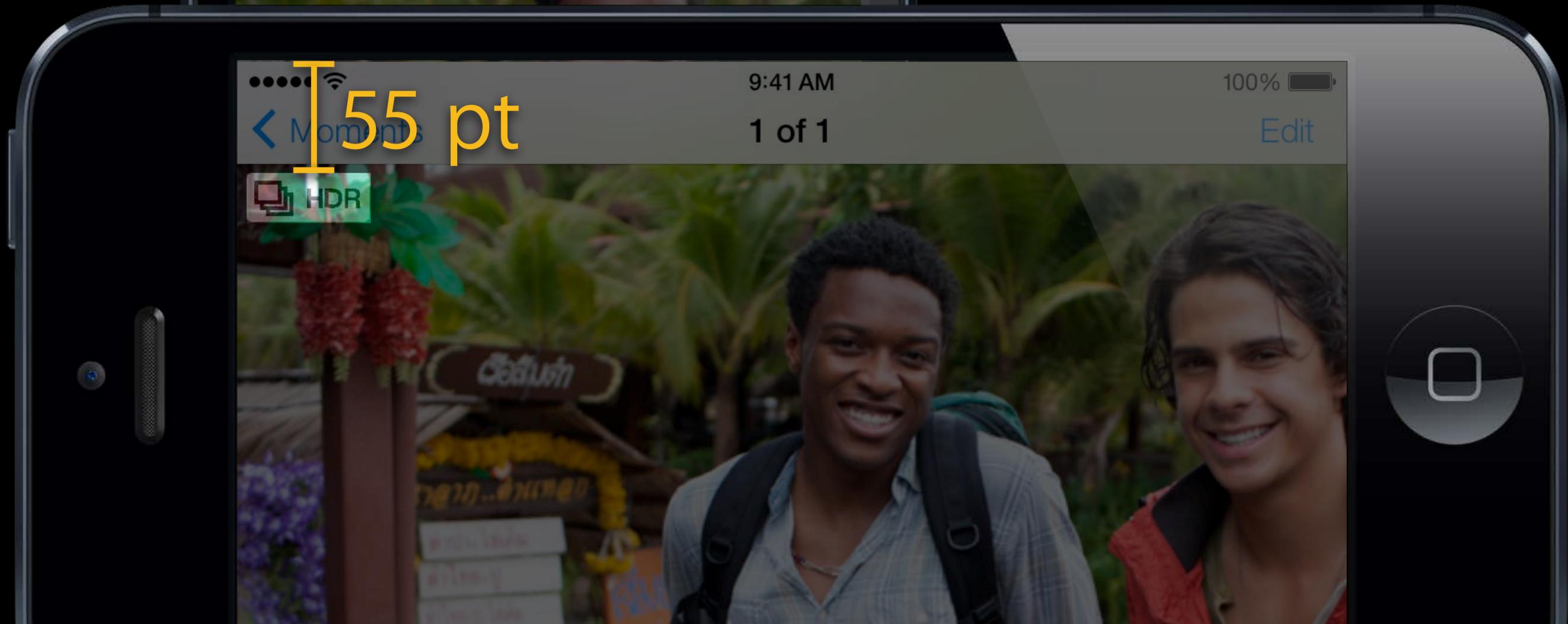
- [UIViewController extendedEdgesForLayout]
UIExtendedEdgesNone



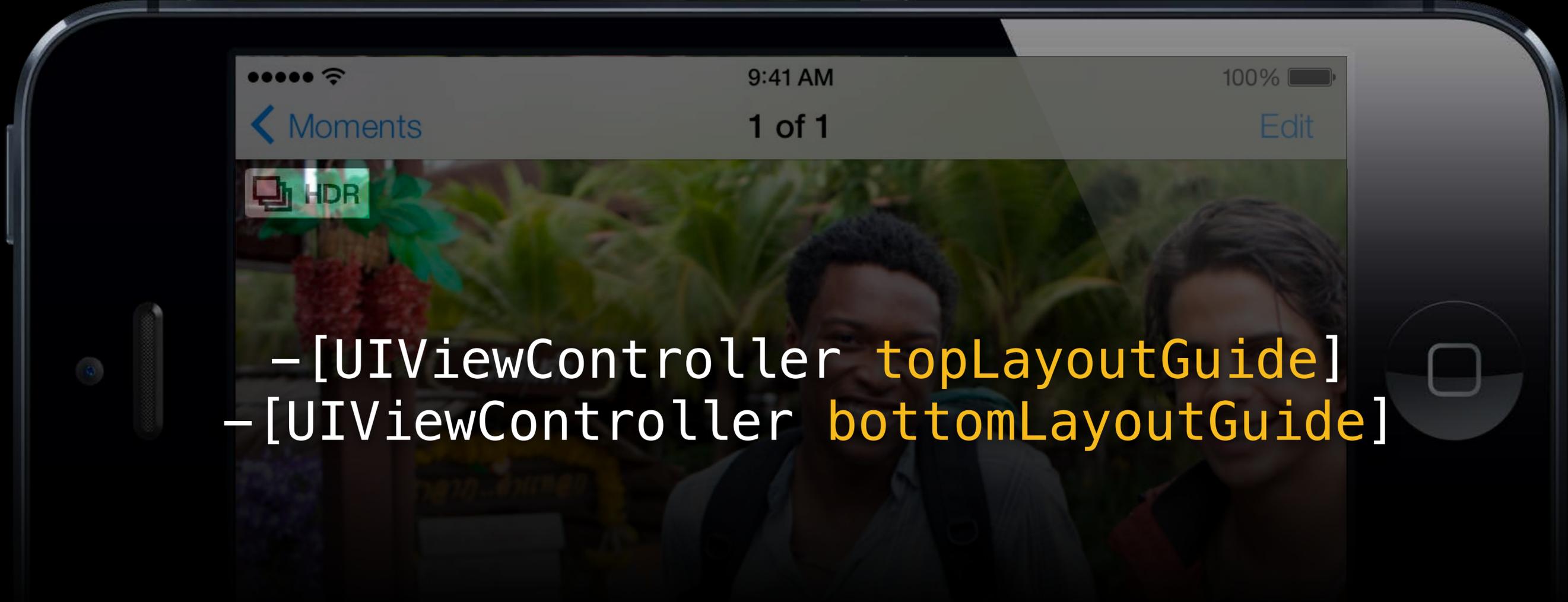
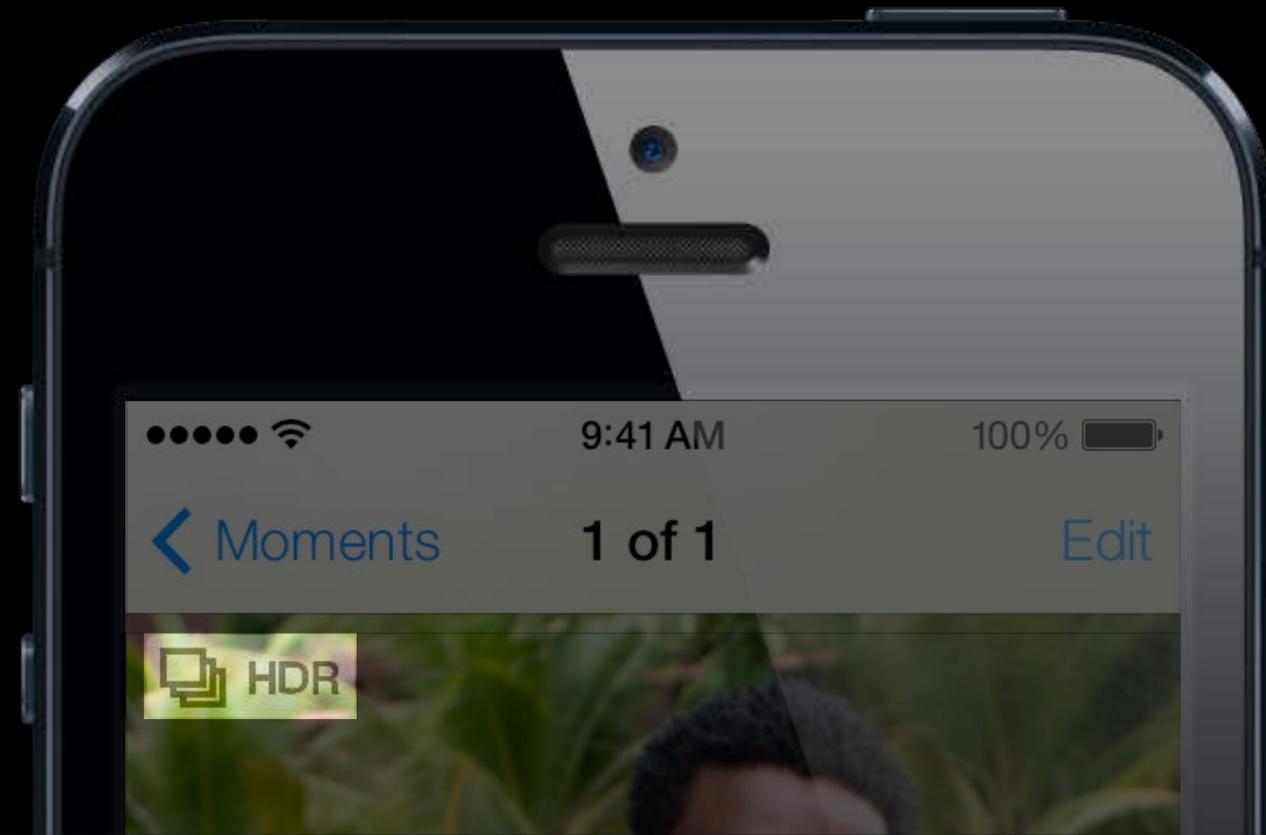




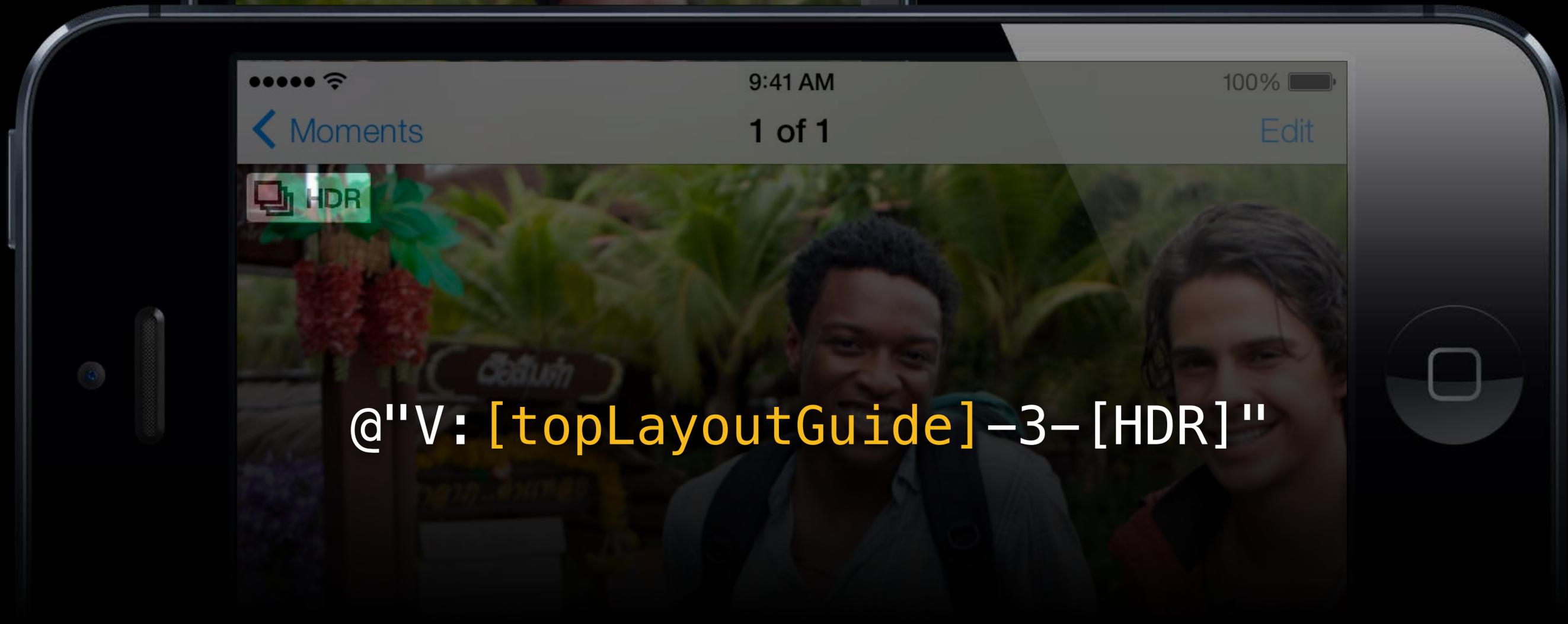
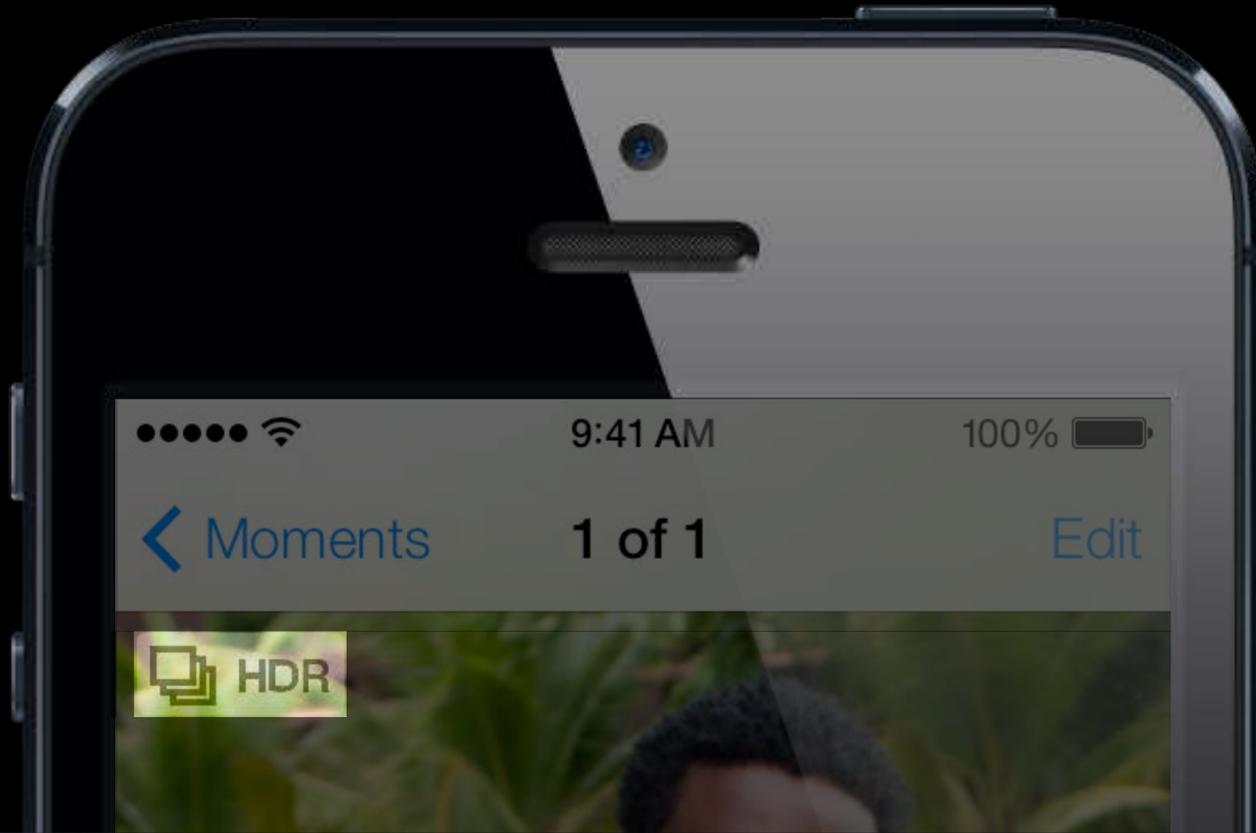
67 pt



55 pt

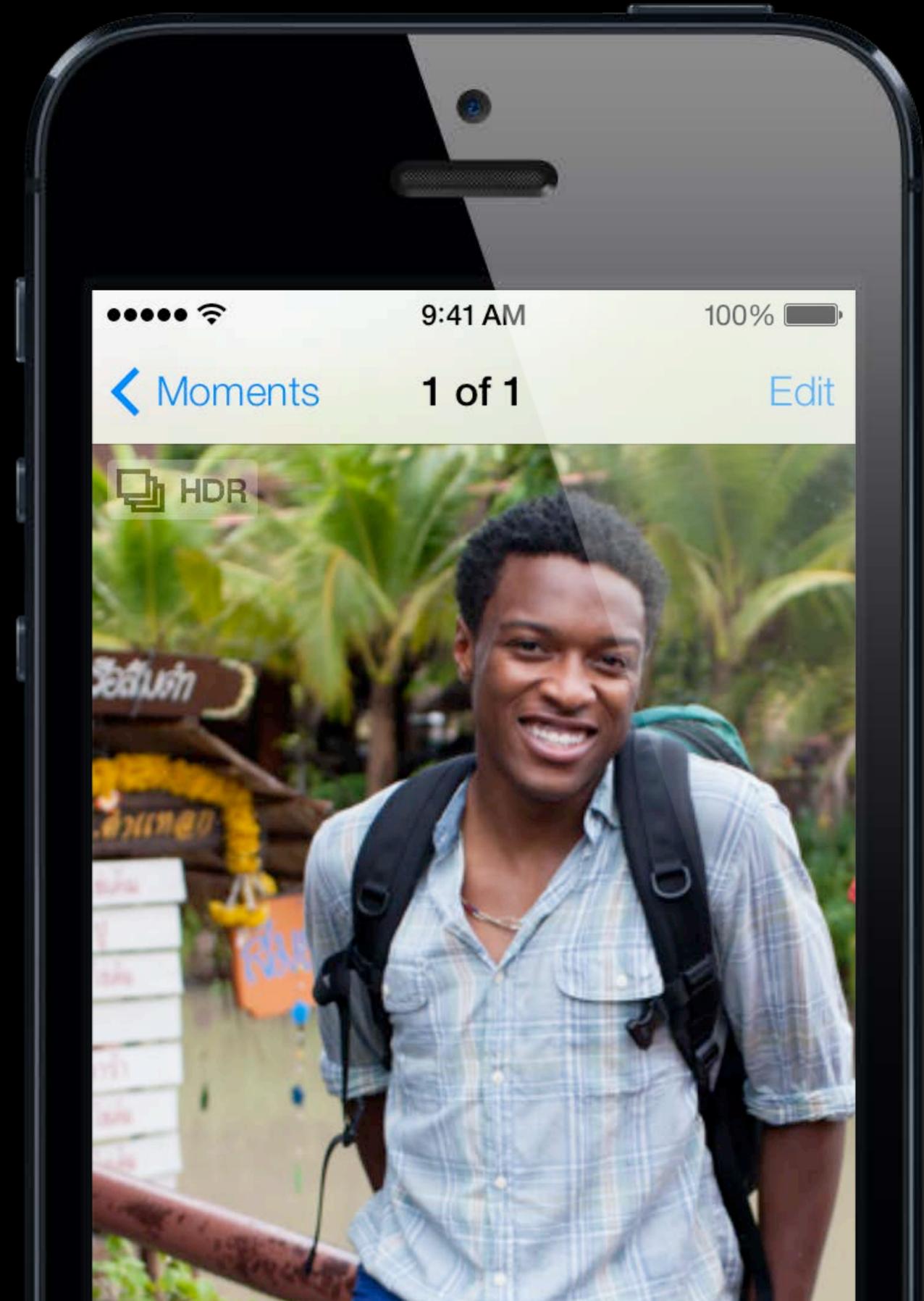


```
- [UIViewController topLayoutGuide]  
- [UIViewController bottomLayoutGuide]
```



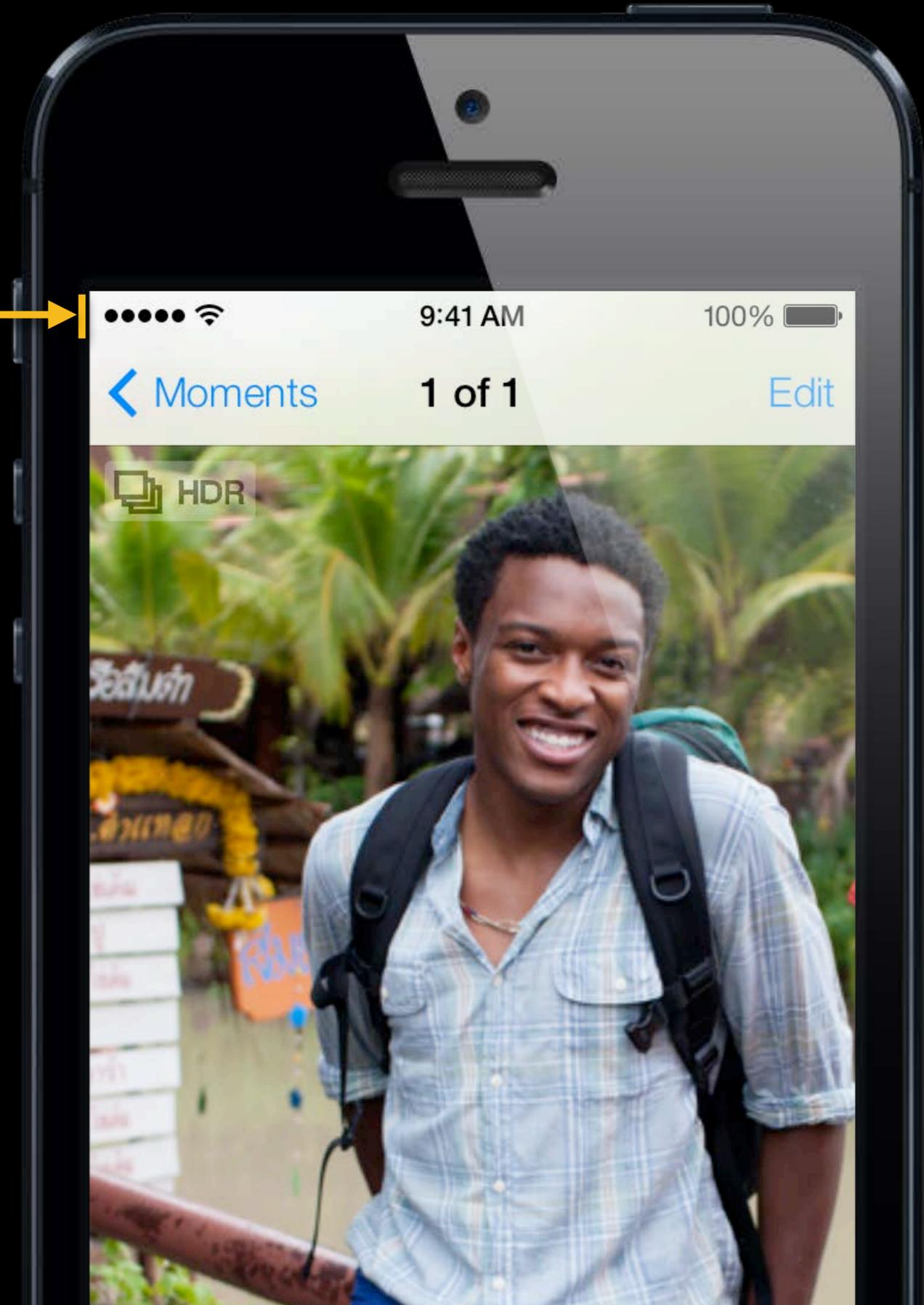
@"V: [topLayoutGuide] -3- [HDR]"

Status Bar Styles



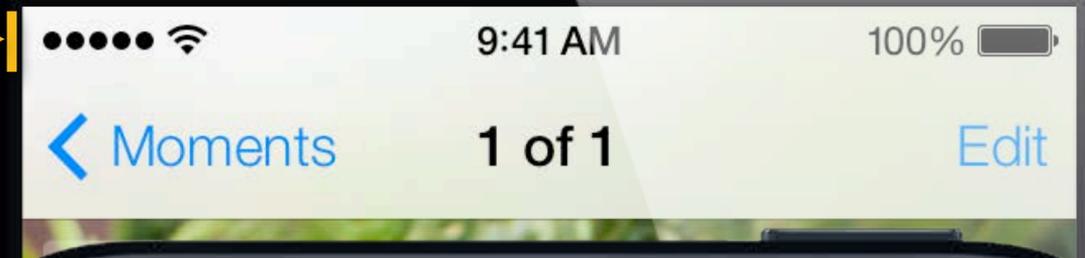
Status Bar Styles

UIStatusBarStyleDefault →



Status Bar Styles

UIStatusBarStyleDefault

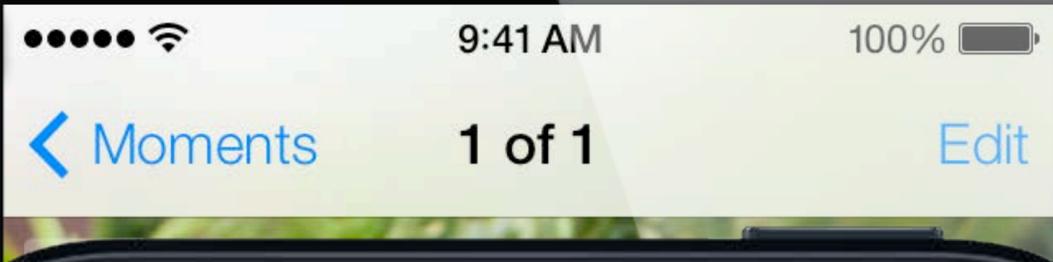


UIStatusBarStyleLightContent



Status Bar Styles

UIStatusBarStyleDefault



UIStatusBarStyleLightContent



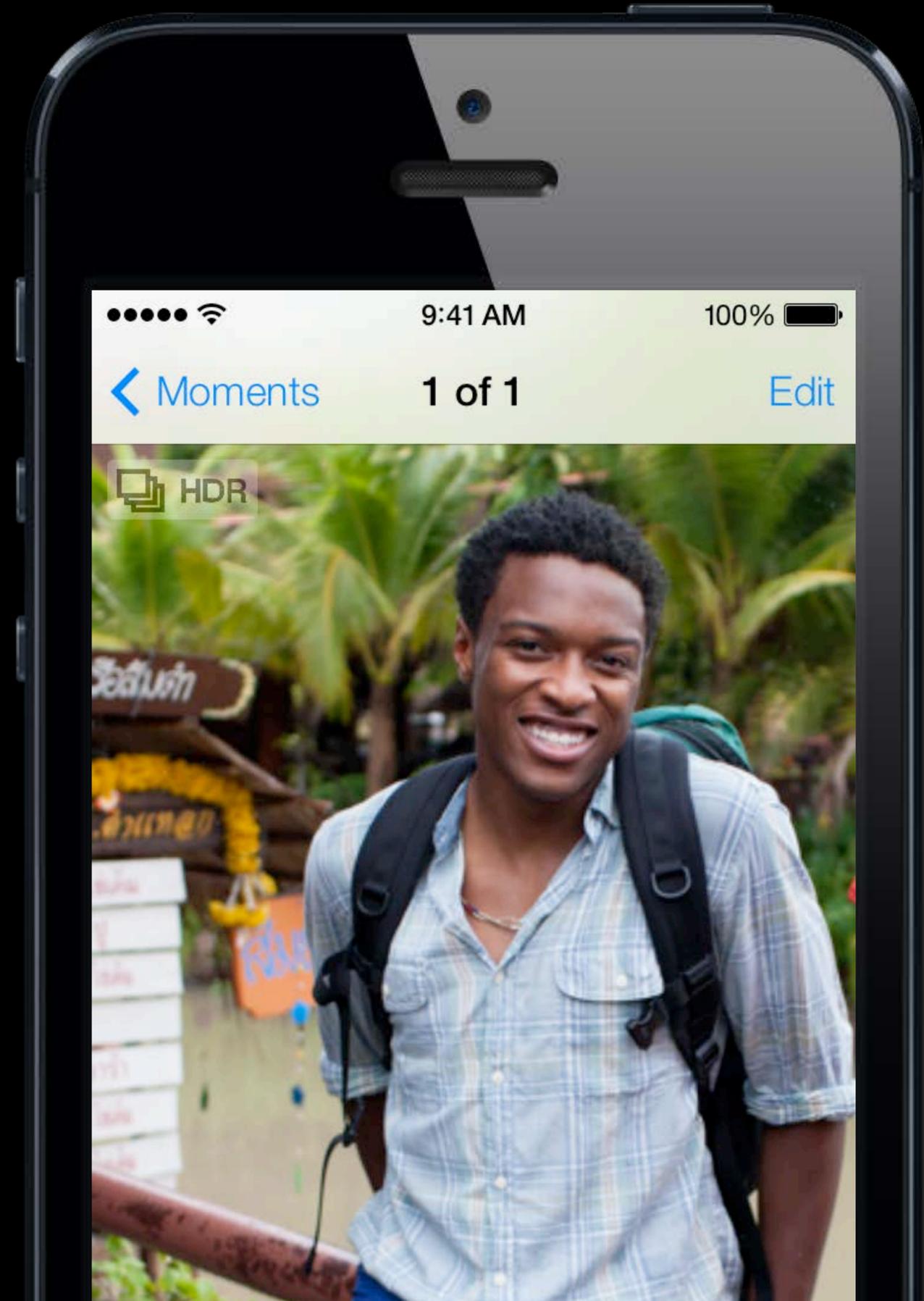
~~UIStatusBarStyleBlackTranslucent~~

~~UIStatusBarStyleBlackOpaque~~

Status Bar Styles

Declarative specification API

```
@interface UIViewController  
- (UIStatusBarStyle)preferredStatusBarStyle;  
- (BOOL)prefersStatusBarHidden;  
@end
```

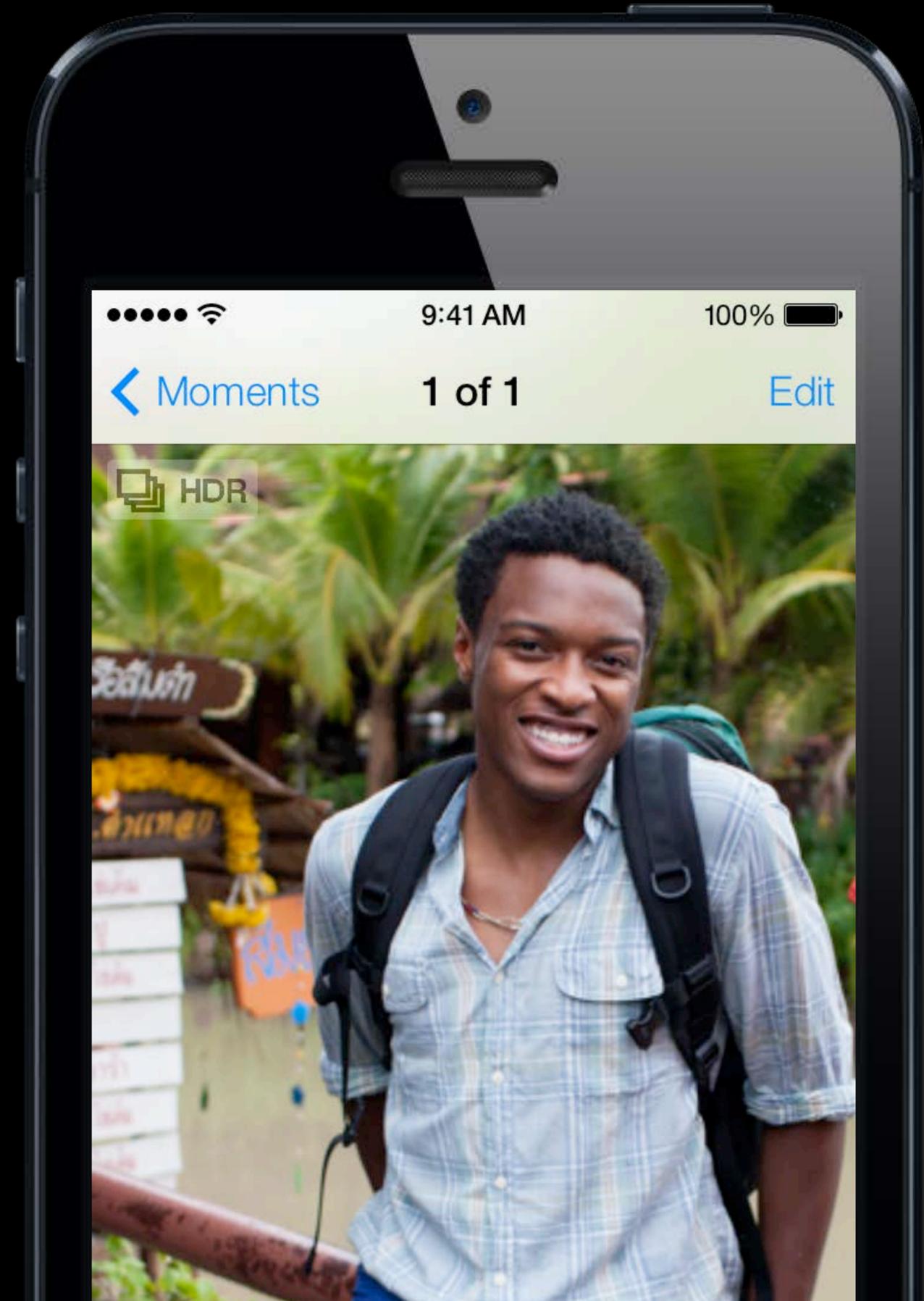


Status Bar Styles

Declarative specification API

```
@interface UIViewController  
- (UIStatusBarStyle)preferredStatusBarStyle;  
- (BOOL)prefersStatusBarHidden;  
@end
```

- Enabled via Info.plist key:
`UIViewControllerBasedStatusBarAppearance`





9:41 AM

100%

[Mailboxes](#)

Inbox

[Edit](#)

Search

John Appleseed

Monday >

Meeting notes

Could you send over the meeting notes when you get a chance? Thanks, John

Tom Jones

Monday >

Moving Monday's meeting to 11am

Hello all, I'm moving next Monday's meeting to 11am instead of 10am. Than...

Mark Brady

Monday >

Thanks for the birthday wishes!

Hey Jim, just got your birthday card in the mail and wanted to say thanks! Hope lif...

Dad

Monday >

BBQ on Saturday

The weather's supposed to be nice all weekend, so I was thinking of firing up t...

Susan Williams

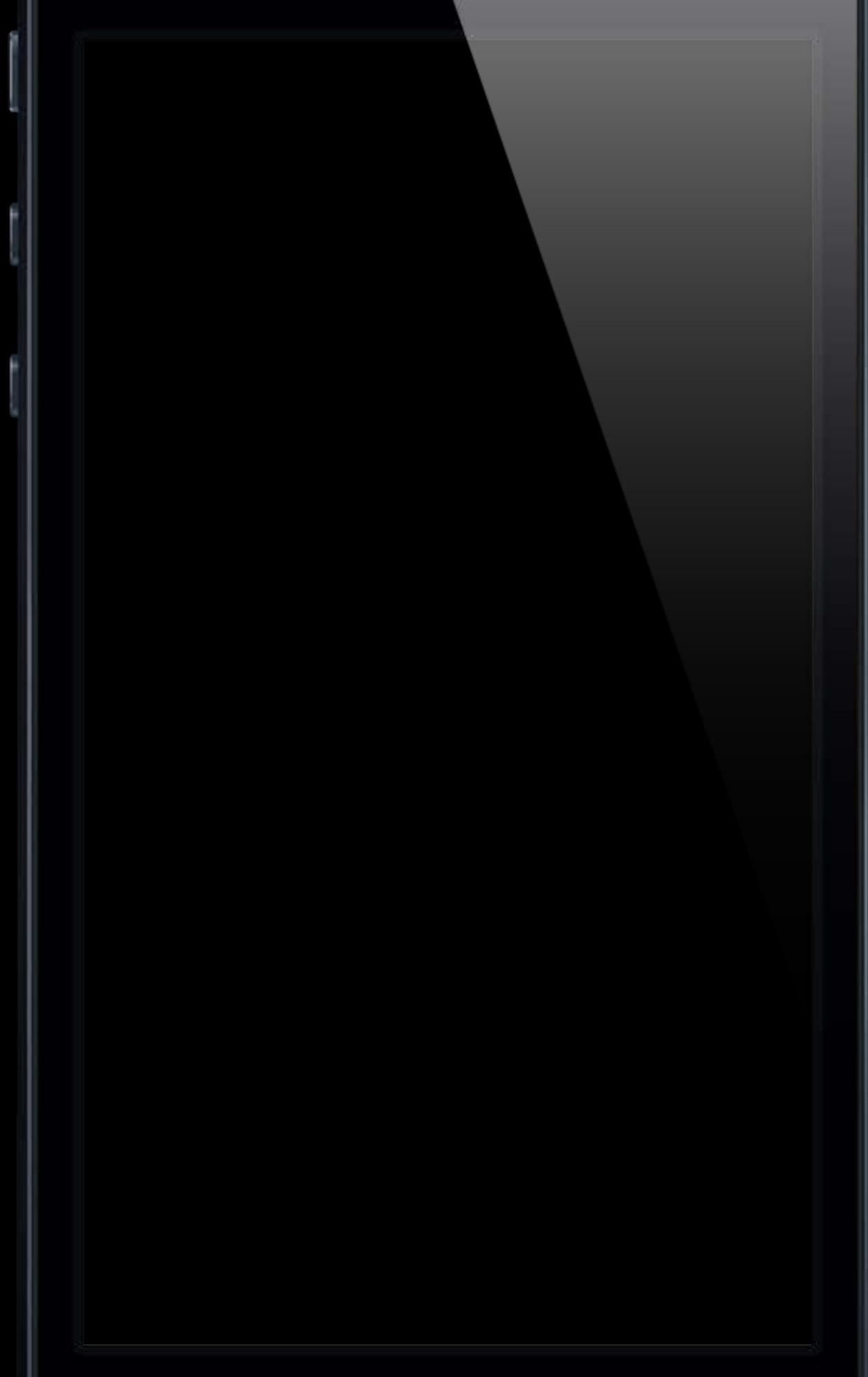
Monday >

Updated Just Now





- [UINavigationController interactivePopGestureRecognizer]





9:41 AM

100%



2013

JAN

1 2 3 4 5
 6 7 8 9 10 11 12
 13 14 15 16 17 18 19
 20 21 22 23 24 25 26
 27 28 29 30 31

FEB

1 2
 3 4 5 6 7 8 9
 10 11 12 13 14 15 16
 17 18 19 20 21 22 23
 24 25 26 27 28

MAR

1 2
 3 4 5 6 7 8 9
 10 11 12 13 14 15 16
 17 18 19 20 21 22 23
 24 25 26 27 28 29 30
 31

APR

1 2 3 4 5 6
 7 8 9 10 11 12 13
 14 15 16 17 18 19 20
 21 22 23 24 25 26 27
 28 29 30

MAY

1 2 3 4
 5 6 7 8 9 10 11
 12 13 14 15 16 17 18
 19 20 21 22 23 24 25
 26 27 28 29 30 31

JUN

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 2 3 4 5 6 7 8
 9 10 **11** 12 13 14 15
 16 17 18 19 20 21 22
 23 24 25 26 27 28 29
 30

JUL

1 2 3 4 5 6
 7 8 9 10 11 12 13
 14 15 16 17 18 19 20
 21 22 23 24 25 26 27
 28 29 30 31

AUG

1 2 3
 4 5 6 7 8 9 10
 11 12 13 14 15 16 17
 18 19 20 21 22 23 24
 25 26 27 28 29 30 31

SEP

1 2 3 4 5 6 7
 8 9 10 11 12 13 14
 15 16 17 18 19 20 21
 22 23 24 25 26 27 28
 29 30

OCT

1 2 3 4 5
 6 7 8 9 10 11 12
 13 14 15 16 17 18 19
 20 21 22 23 24 25 26
 27 28 29 30 31

NOV

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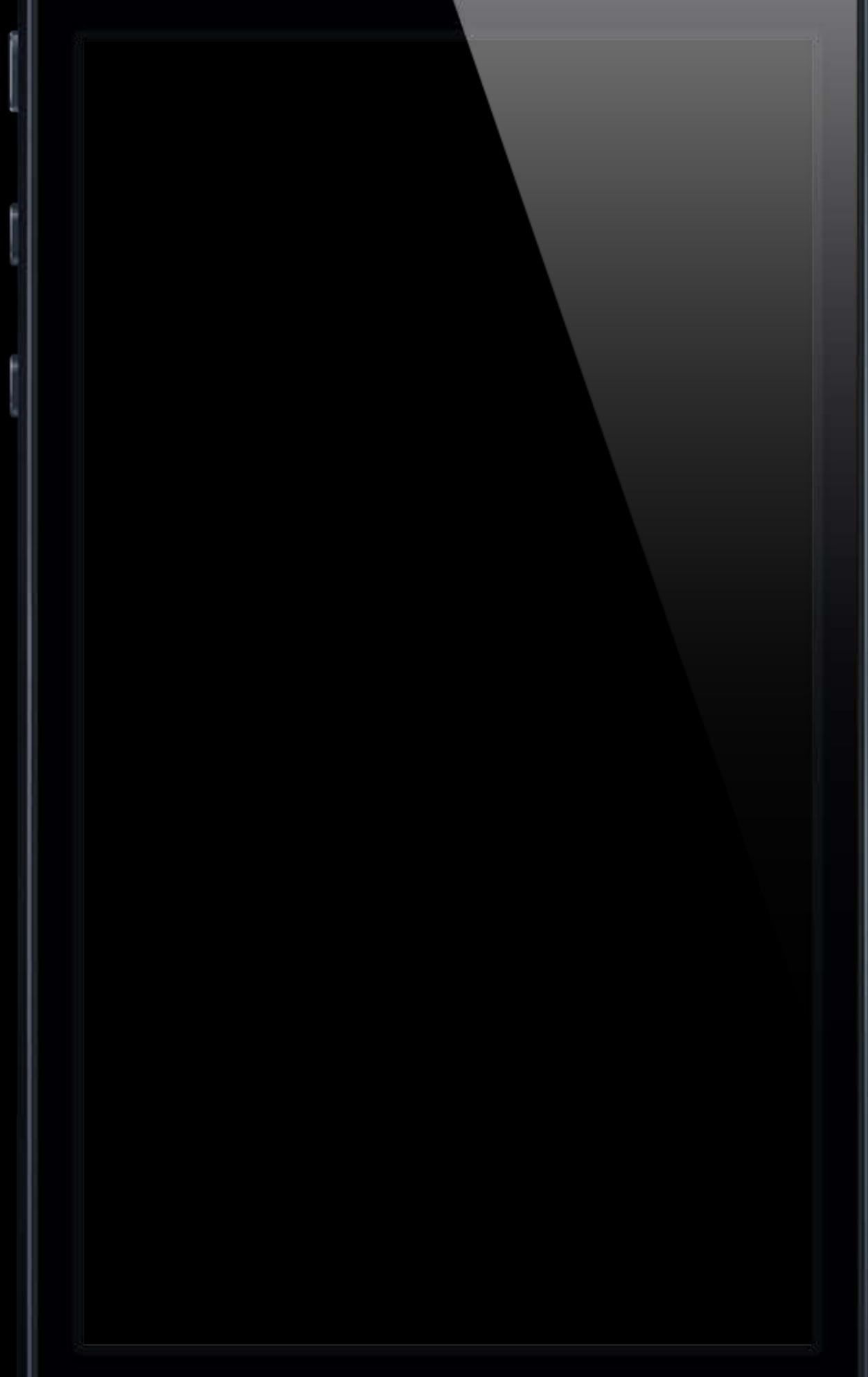
DEC

1 2 3 4 5 6 7
 8 9 10 11 12 13 14
 15 16 17 18 19 20 21
 22 23 24 25 26 27 28
 29 30 31

Today

Calendars

Inbox





9:41 AM

100% 

Years

2011



2012



Photos



Albums

Years

2011



2012



Photos



Albums

< Years

Collections

July 23 - 30, 2011



December 8 - 10, 2011



Apr 15 - Jul 13, 2012



Photos



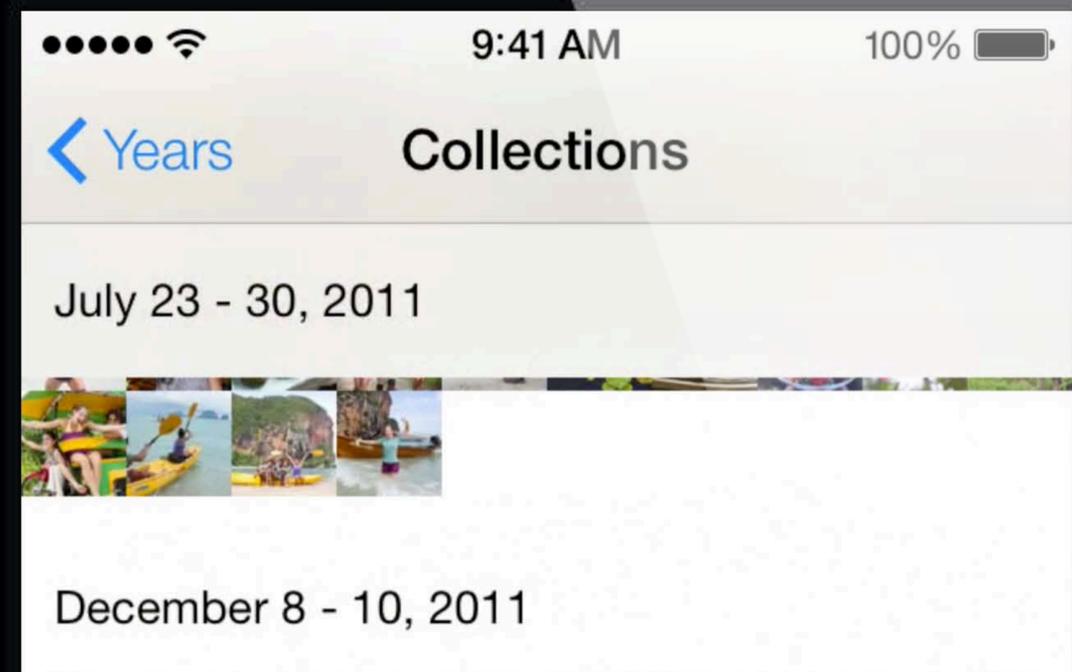
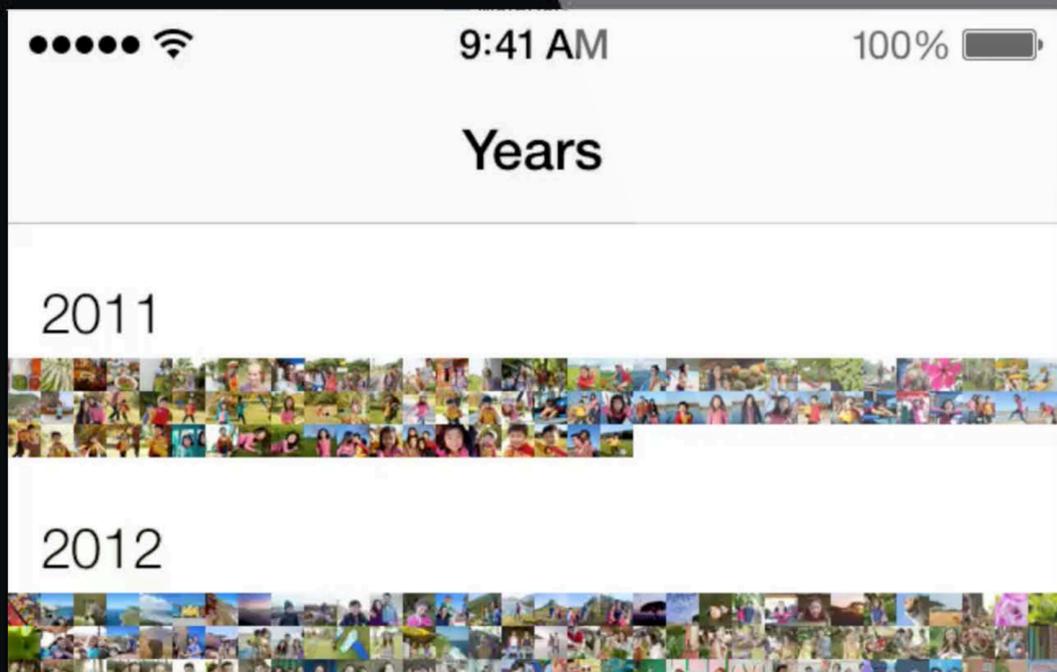
Albums



UICollectionViewController

YearLayout

UICollectionView

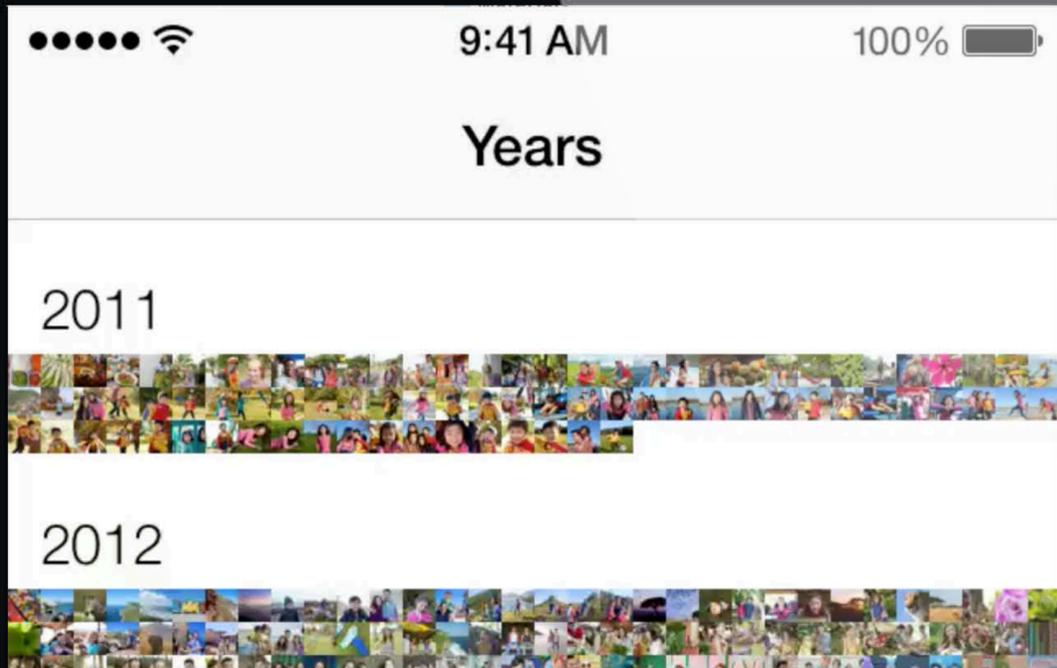


UINavigationController

UICollectionViewController

YearLayout

UICollectionView

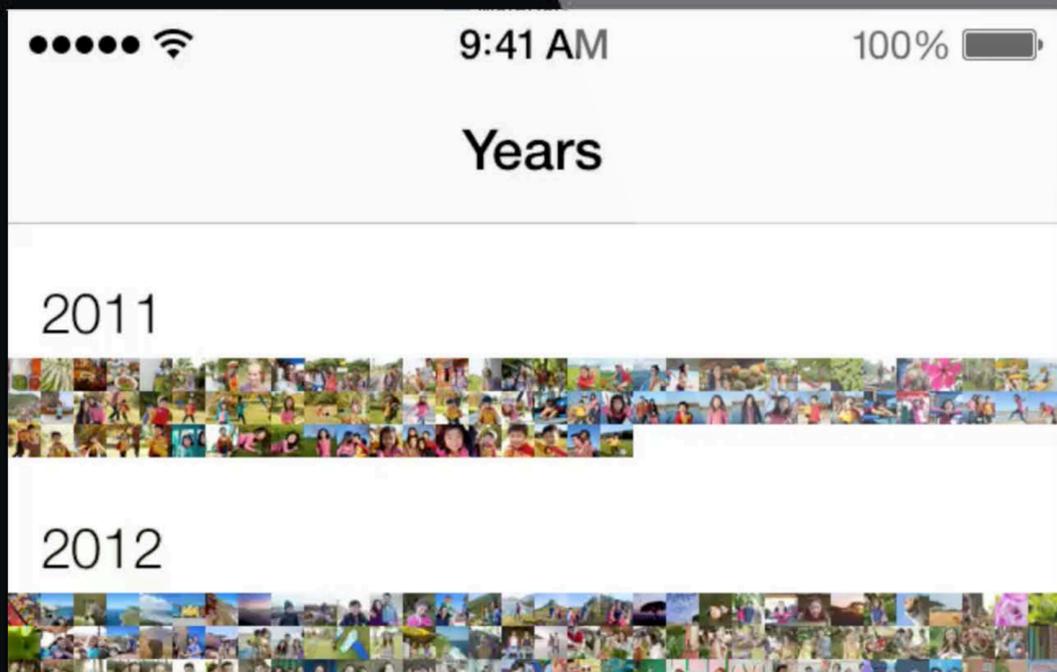


UINavigationController

UICollectionViewController

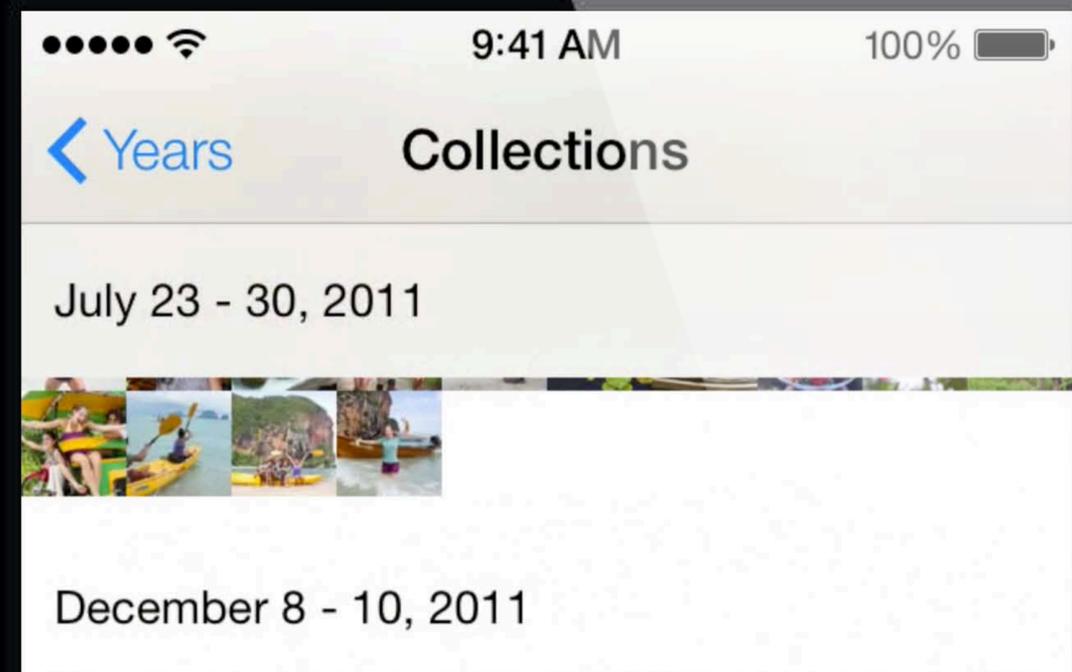
YearLayout

UICollectionView



UICollectionViewController

CollectionsLayout



UINavigationController

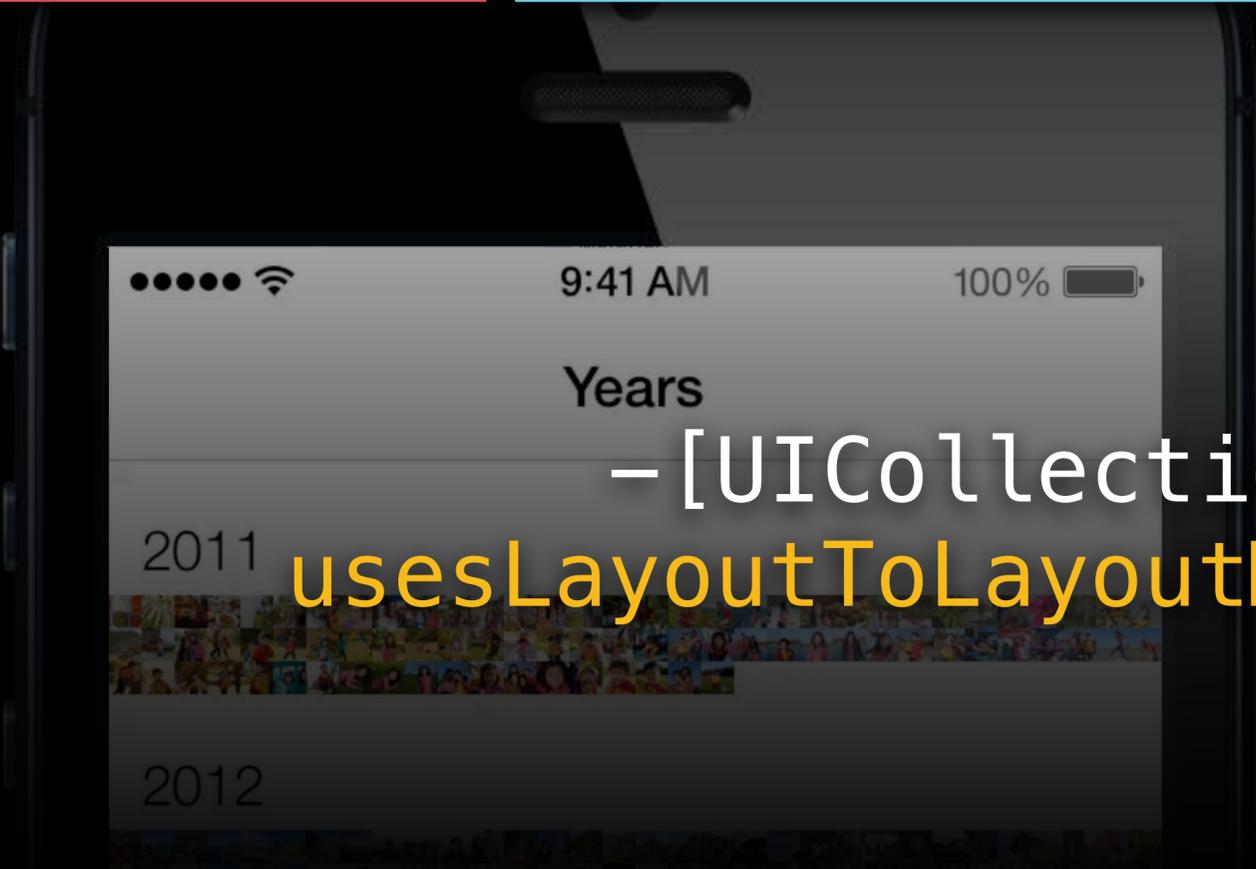
UICollectionViewController

YearLayout

UICollectionView

UICollectionViewController

CollectionsLayout



- [UICollectionViewController
usesLayoutToLayoutNavigationTransitions]

UINavigationController

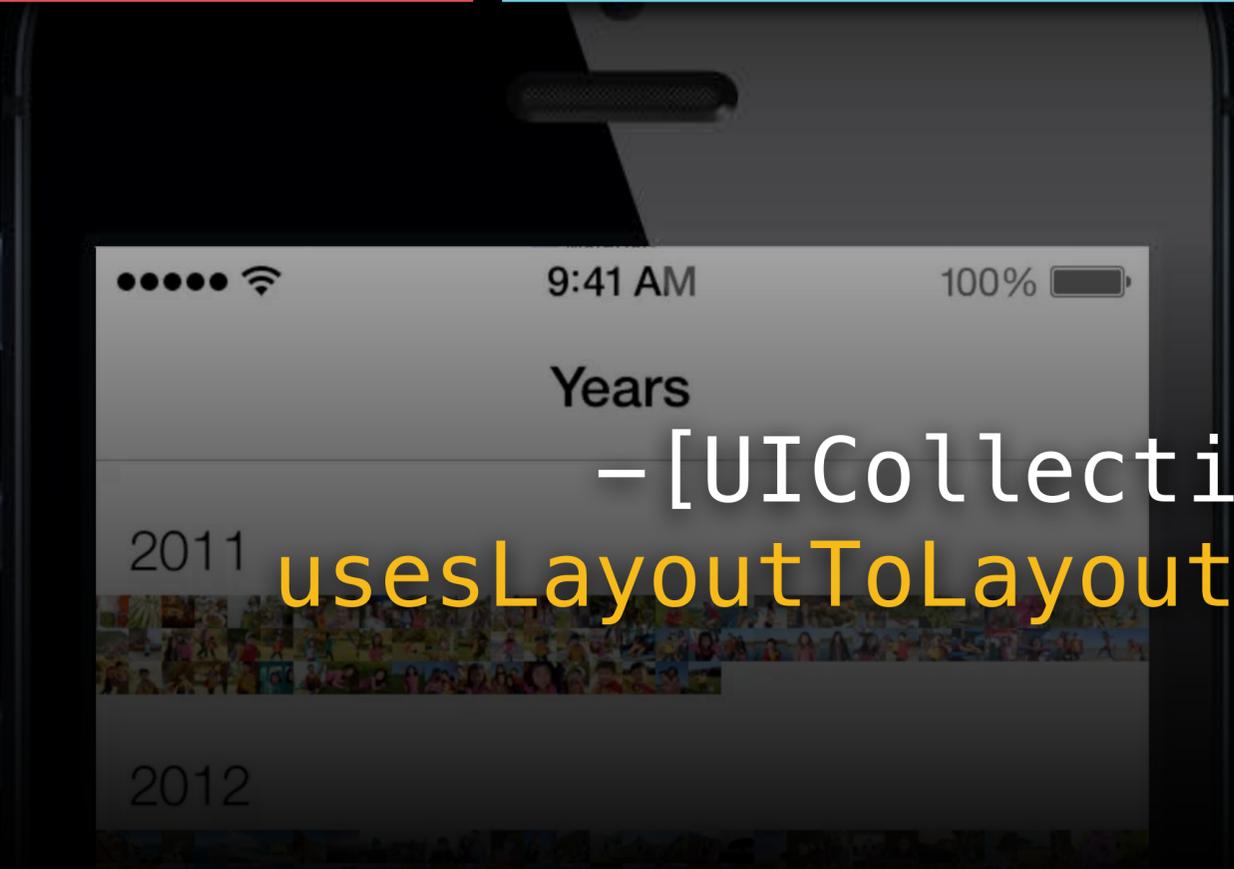
UICollectionViewController

UICollectionViewController

YearLayout

UICollectionView

CollectionsLayout



- [UICollectionViewController
usesLayoutToLayoutNavigationTransitions]

UINavigationController

UICollectionViewController

UICollectionViewController

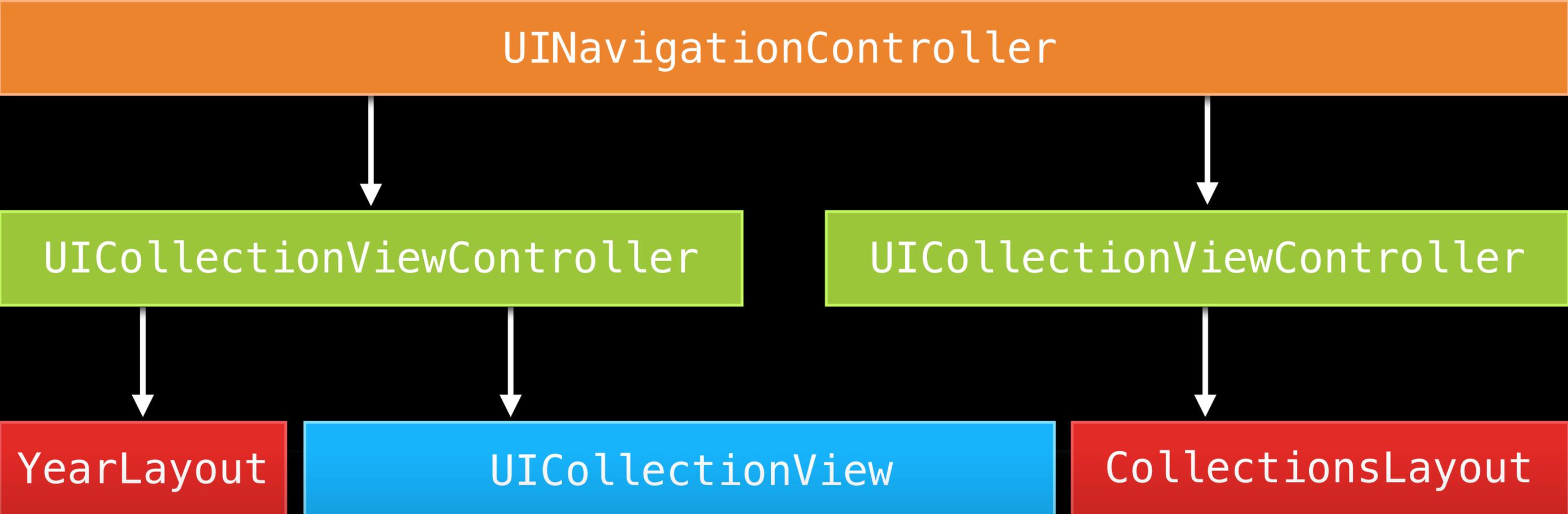
YearLayout

UICollectionView

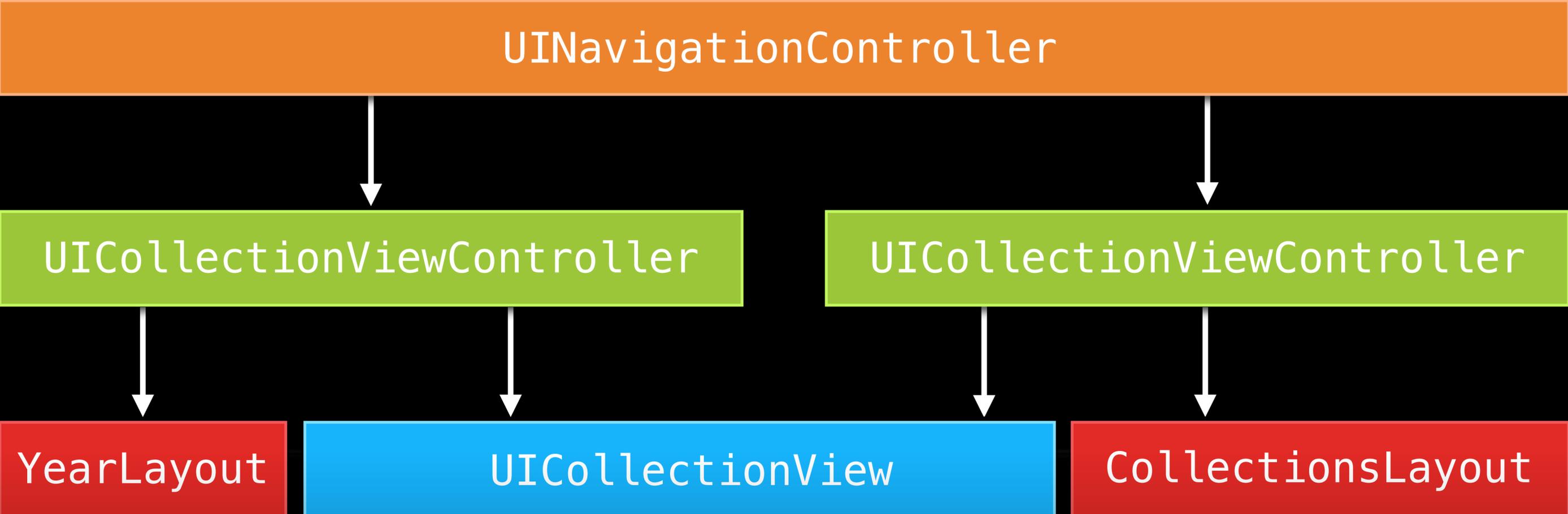
CollectionsLayout



- [UICollectionViewController
usesLayoutToLayoutNavigationTransitions]



- [UICollectionViewController usesLayoutToLayoutNavigationTransitions]



- [UICollectionViewController
usesLayoutToLayoutNavigationTransitions]

Custom Transitions Using View Controllers

Pacific Heights
Thursday 11:30AM



9:41 AM

100%

< 2013



S M T W T F S

JUN

1

2 3 4 5 6 7 8

9 10 **11** 12 13 14 15

16 17 18 19 20 21 22

23 24 25 26 27 28 29

30



Today

Calendars

Inbox



9:41 AM

100%

< 2013



S M T W T F S

JUN

1

2 3 4 5 6 7 8

9 10 **11** 12 13 14 15

16 17 18 19 20 21 22

23 24 25 26 27 28 29

30



Today

Calendars

Inbox



9:41 AM

100%

< Notes

June 8, 2013, 7:59 PM

Potential dog names

Ozzie

Mookie

Quincy

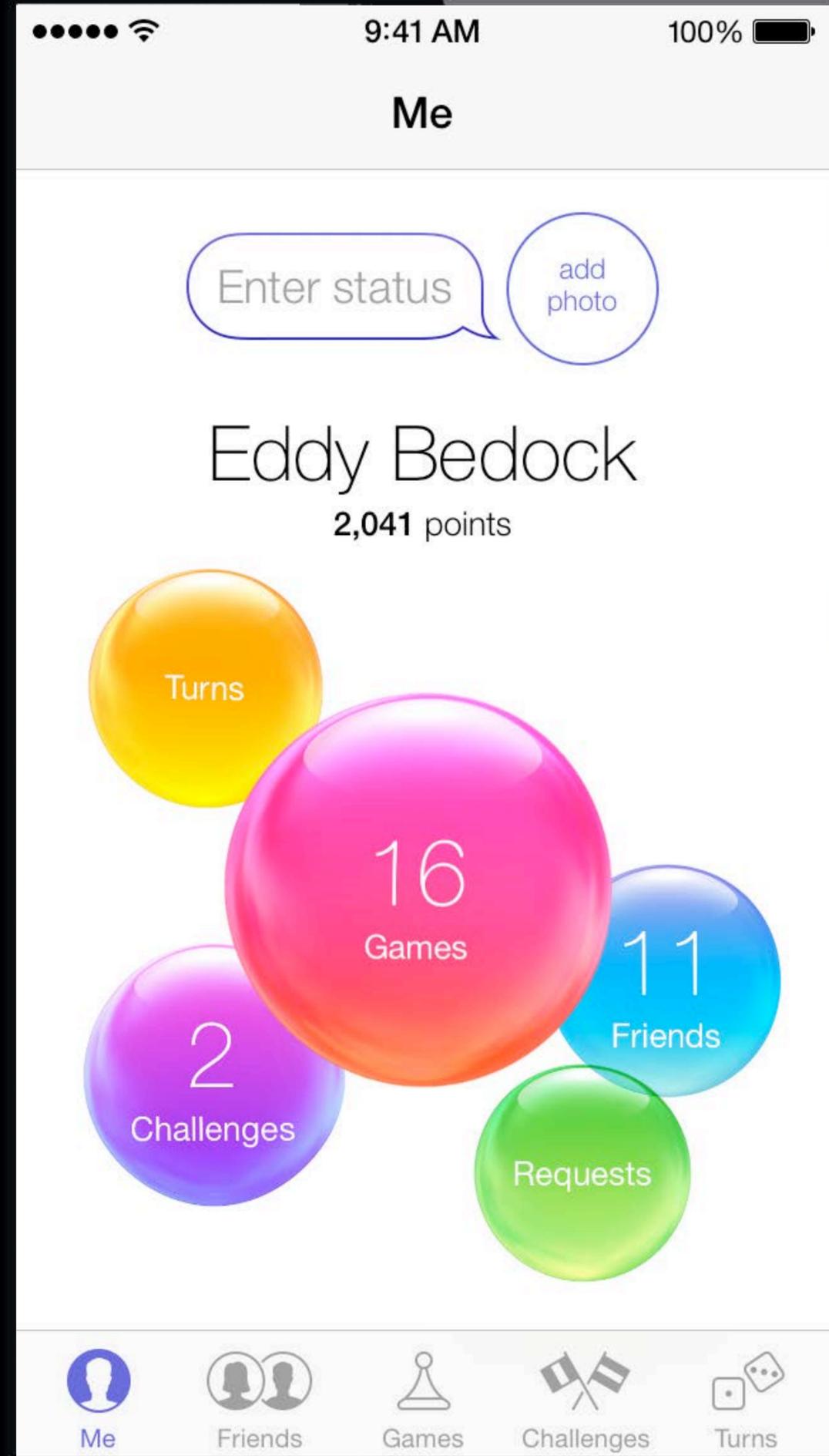
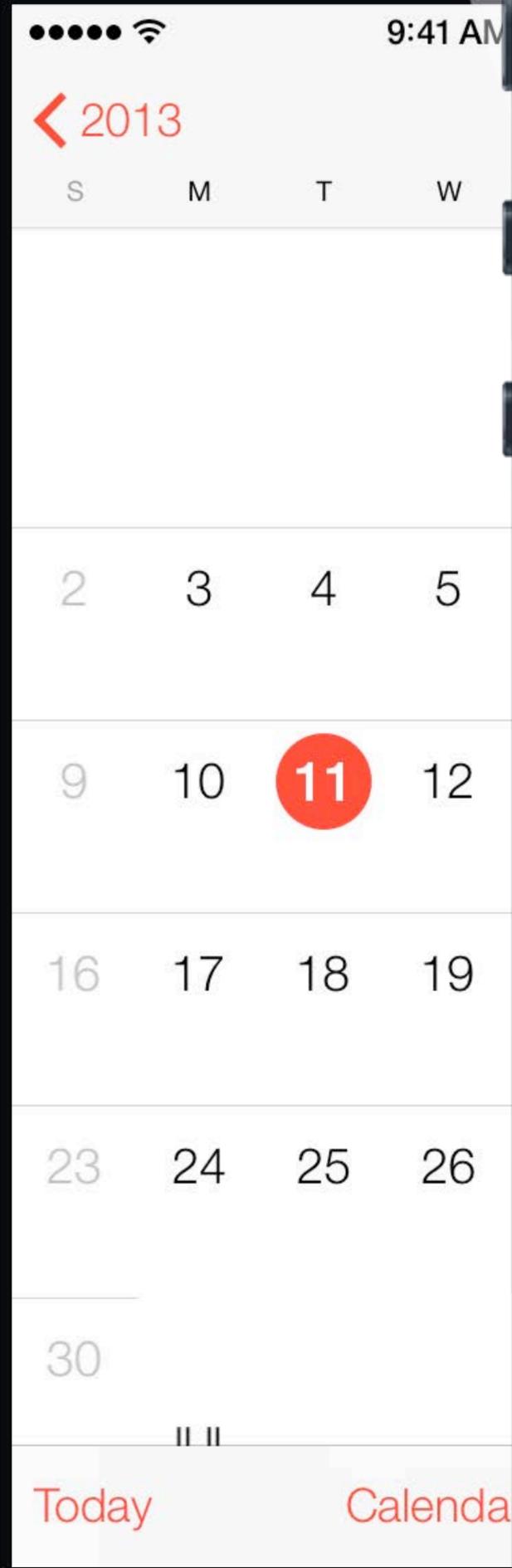
Jake

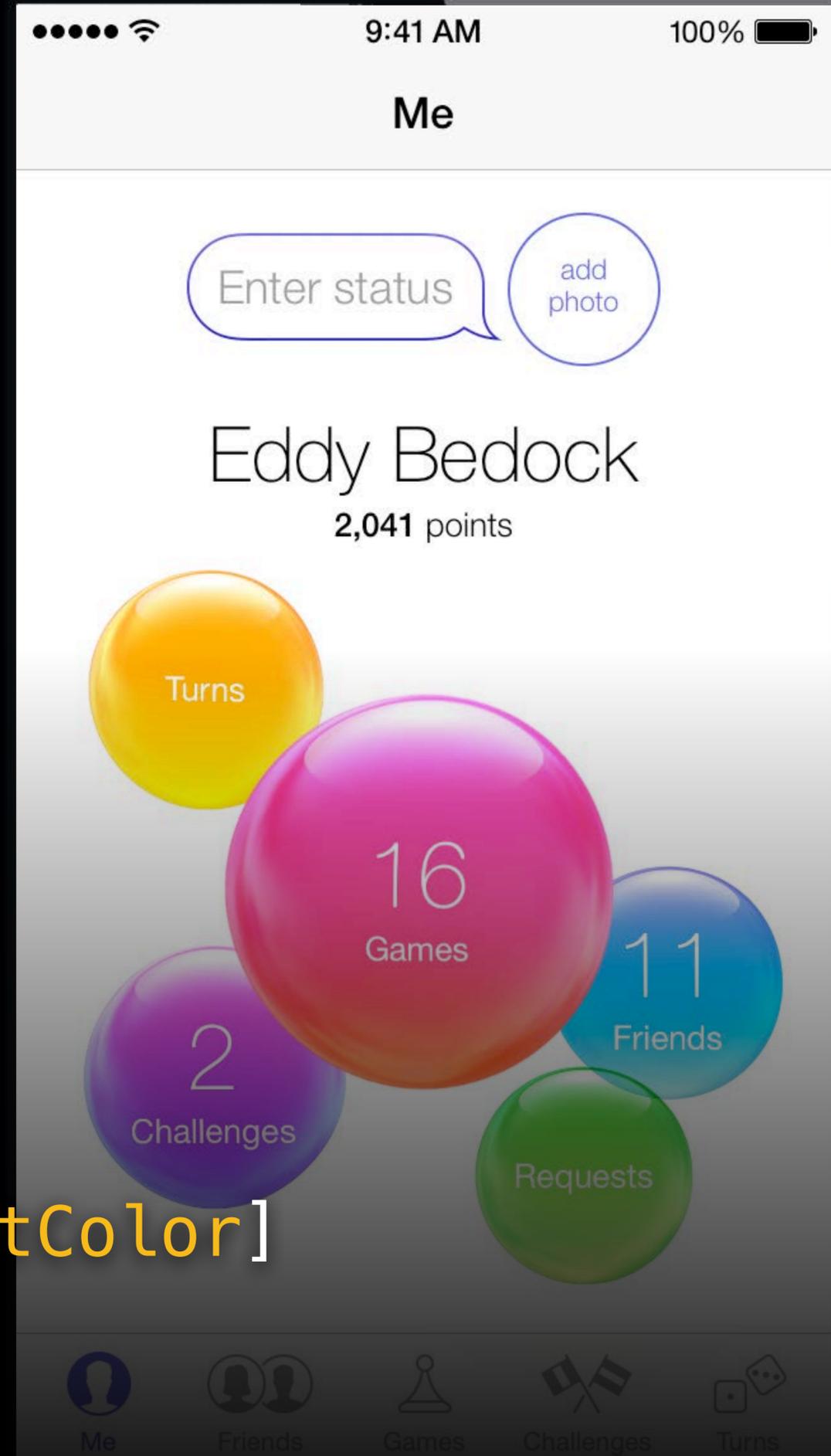
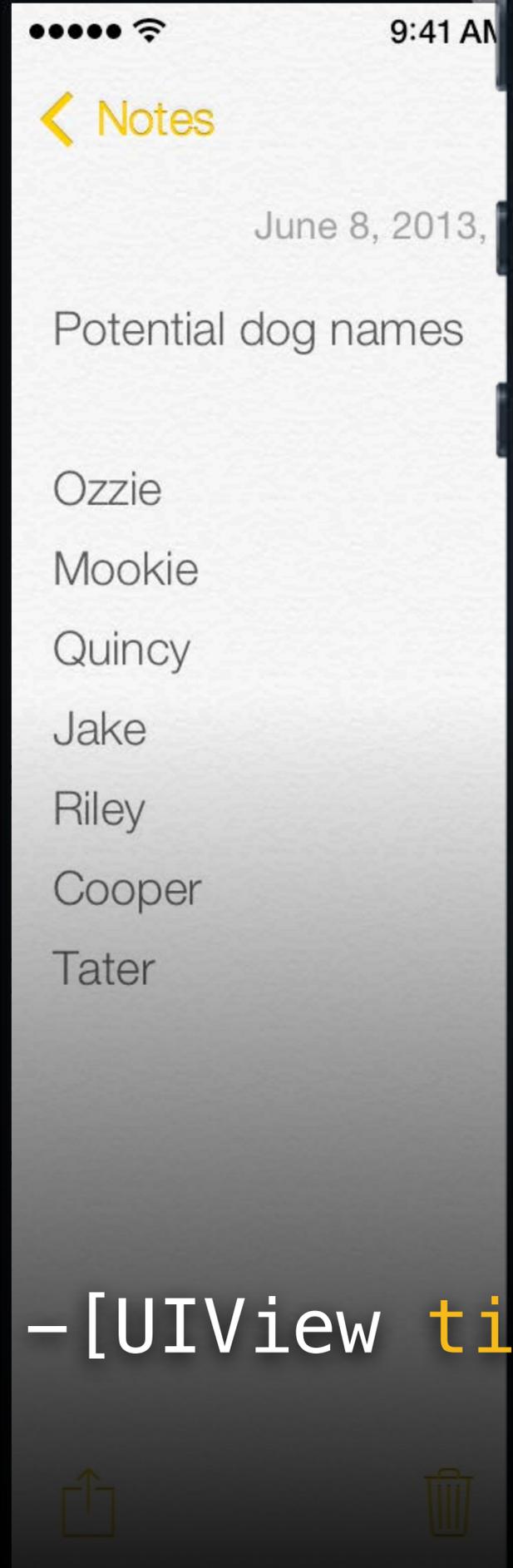
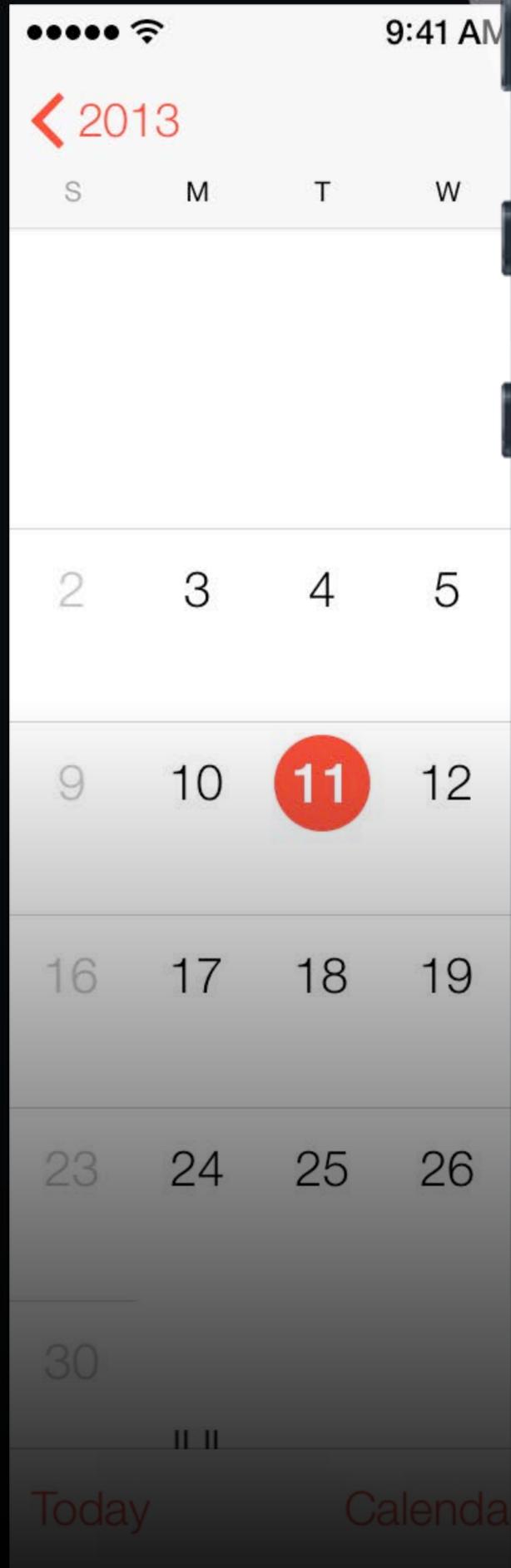
Riley

Cooper

Tater









9:41 AM

100%

Notes

June 8, 2013, 7:59 PM

Potential dog names

Ozzie

Mookie

Quincy

Jake

Riley

Cooper

Tater





9:41 AM

100%

Notes

June 8, 2013, 7:59 PM

Potential dog names

Ozzie

Mookie

Quincy

Jake

Riley

Cooper

Tater





9:41 AM

100%



June 8, 2013, 7:59 PM

Potential dog names

Ozzie

Mookie

Quincy

Jake

Riley

Cooper

Tater





9:41 AM

100%



June 8, 2013, 7:59 PM

Potential dog names

Ozzie

Mookie

Quincy

Jake

Riley

Cooper

Tater





9:41 AM

100%

Notes

June 8, 2013, 7:59 PM

Potential dog names

Ozzie

Mookie

Quincy

Jake

Riley

Cooper

Tater

- [UIView tintColorDidChange]



Customizing Your App's Appearance for iOS 7

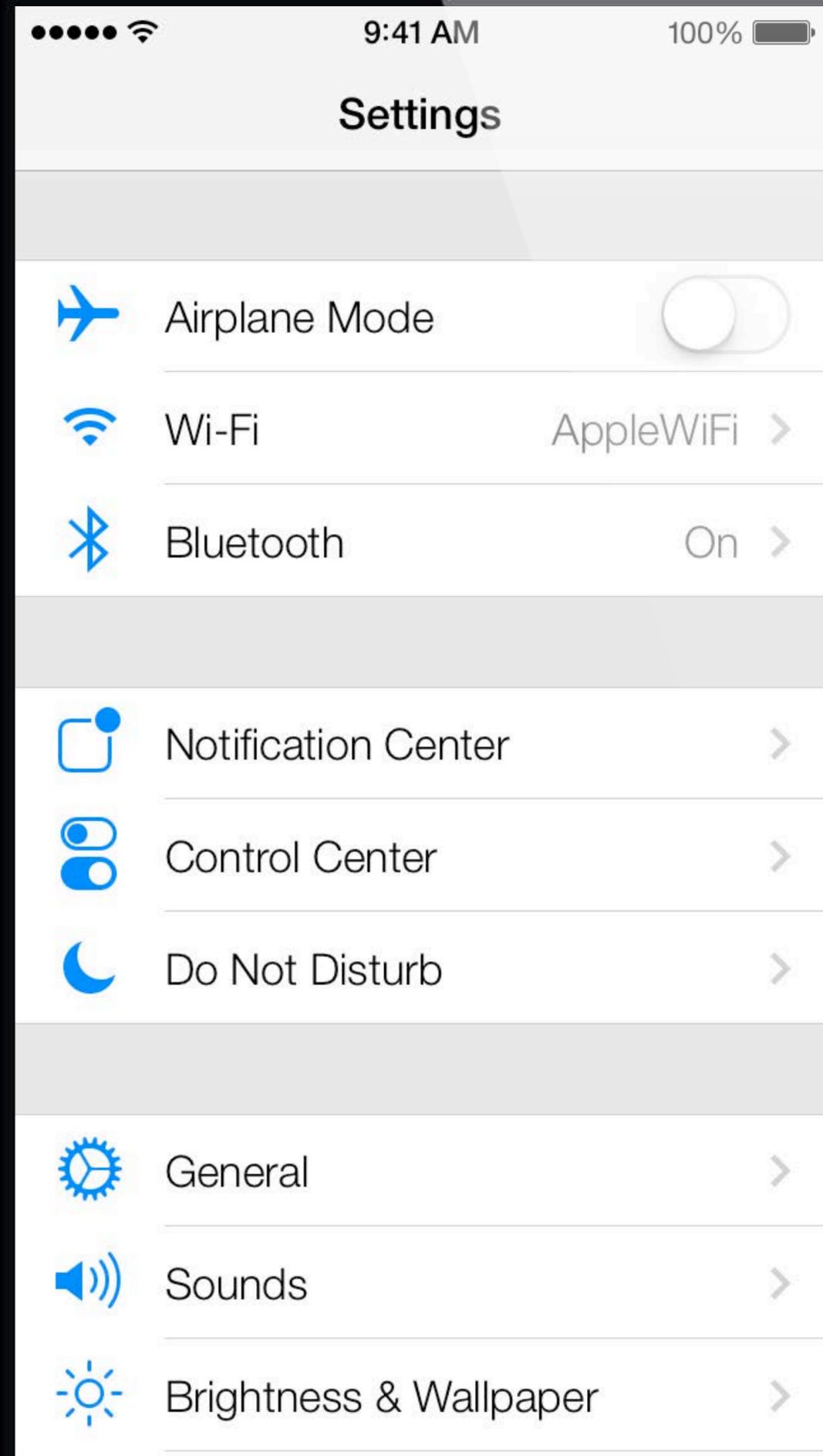
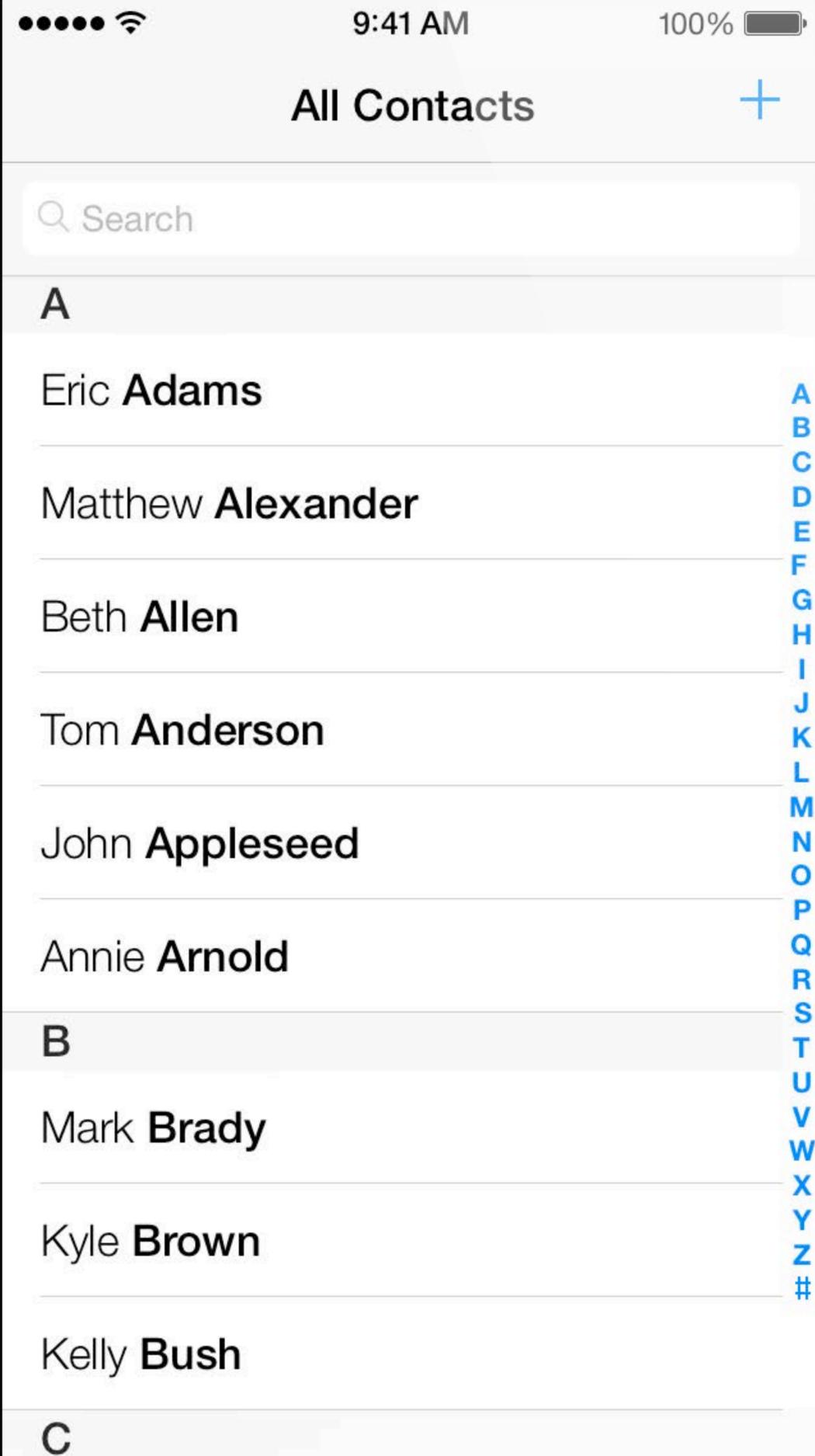
Presidio
Wednesday 3:15PM

Building User Interfaces for iOS 7

Jason Beaver

iOS Apps and Frameworks

Table Views





9:41 AM

100%

Settings

Airplane Mode

Wi-Fi AppleWiFi >

Bluetooth On >

Notification Center >

Control Center >

Do Not Disturb >

General >

Sounds >

Brightness & Wallpaper >



Airplane Mode



Wi-Fi

AppleWiFi >



Bluetooth

On >



Notification Center >



Control Center >



Do Not Disturb >



General >

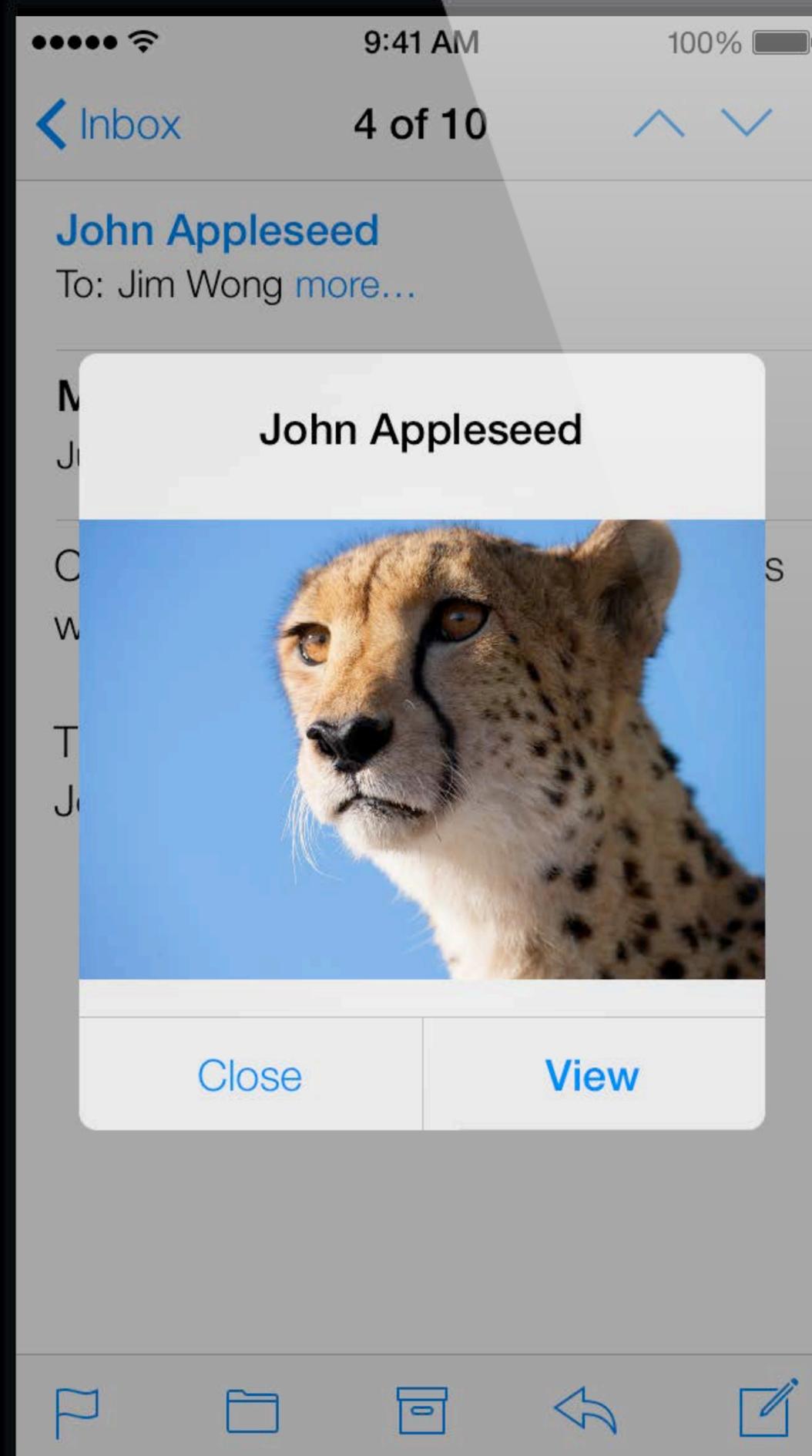
-  Airplane Mode
-  Wi-Fi AppleWiFi >
-  Bluetooth On >

-  Notification Center >
-  Control Center >
-  Do Not Disturb >

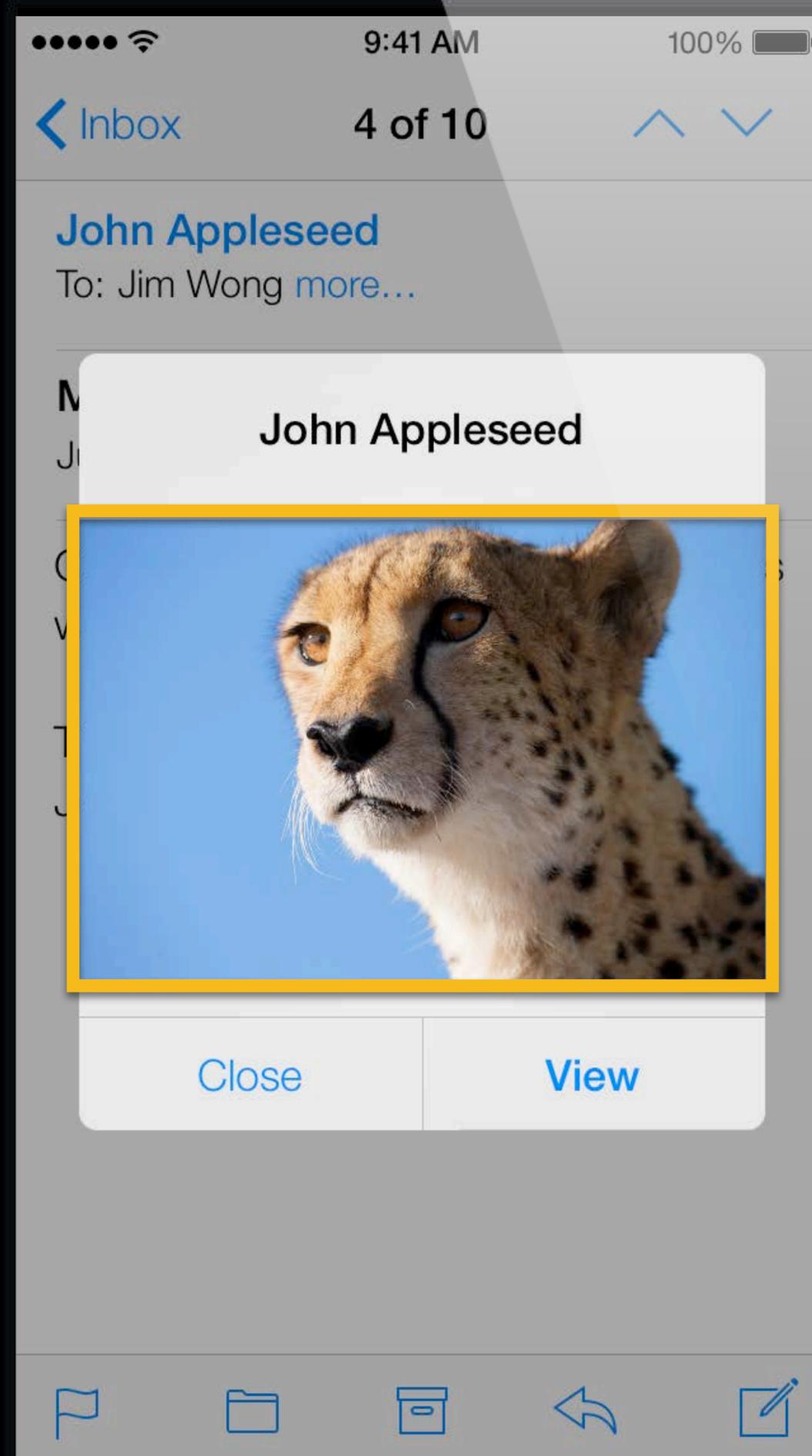
- [UITableViewCell separatorInset]

-  General >

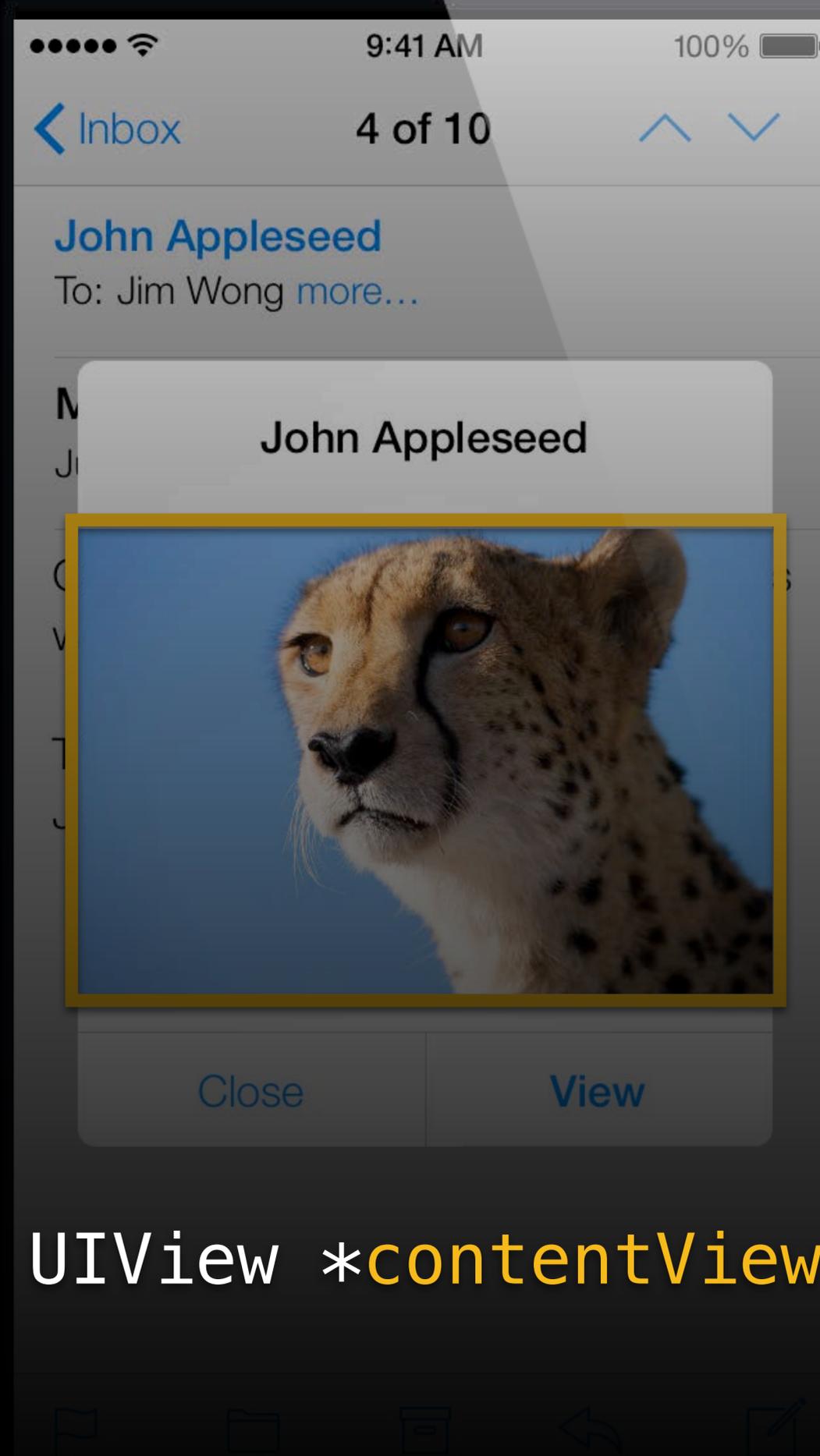
Alert Views



Alert Views



Alert Views



UIView *contentView

Controls

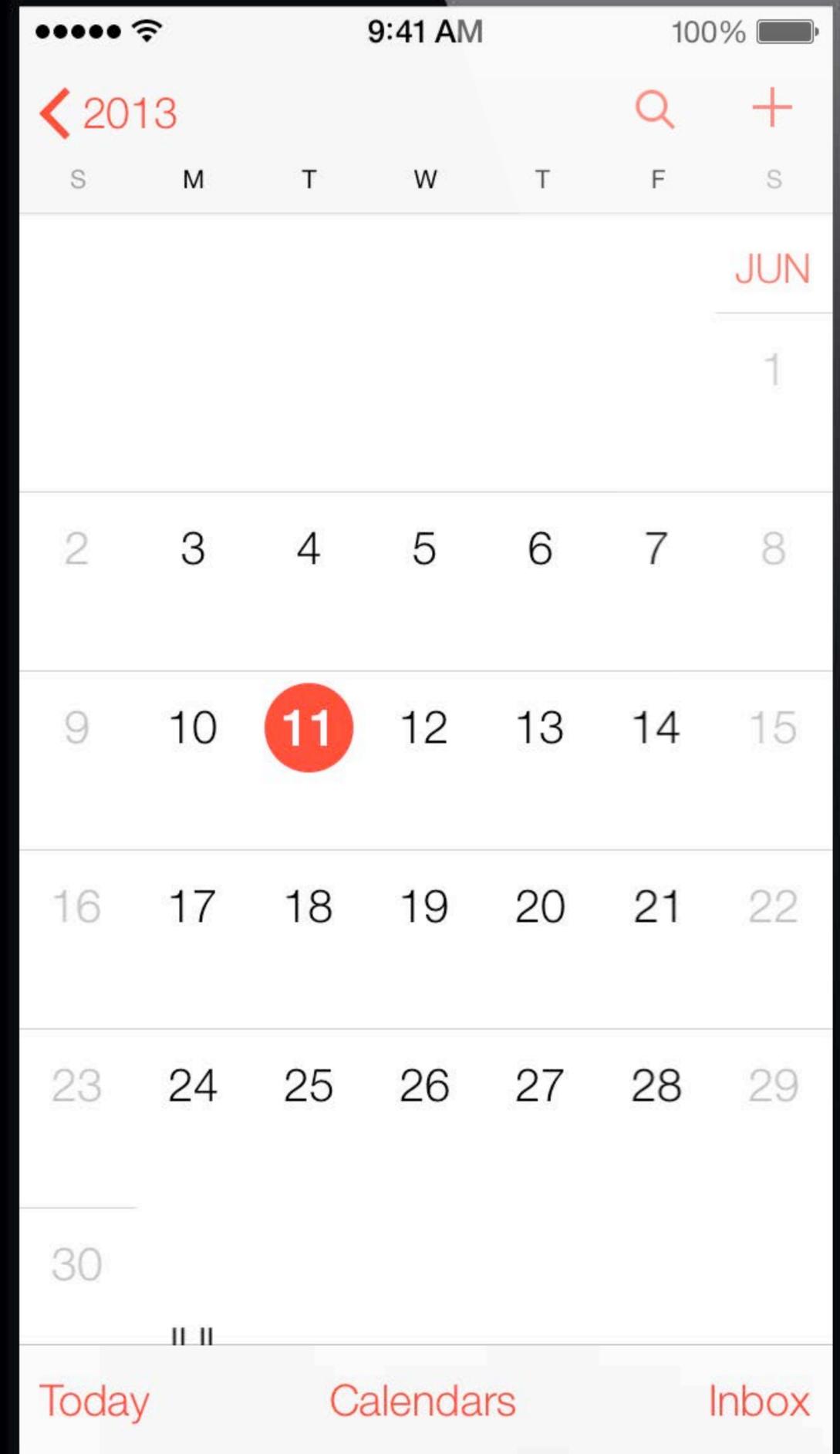
Buttons



Controls

Buttons

```
typedef enum UIButtonType {  
    UIButtonTypeCustom = 0,  
    UIButtonTypeSystem, // new in iOS 7  
    ...  
    UIButtonTypeRoundedRect  
};
```

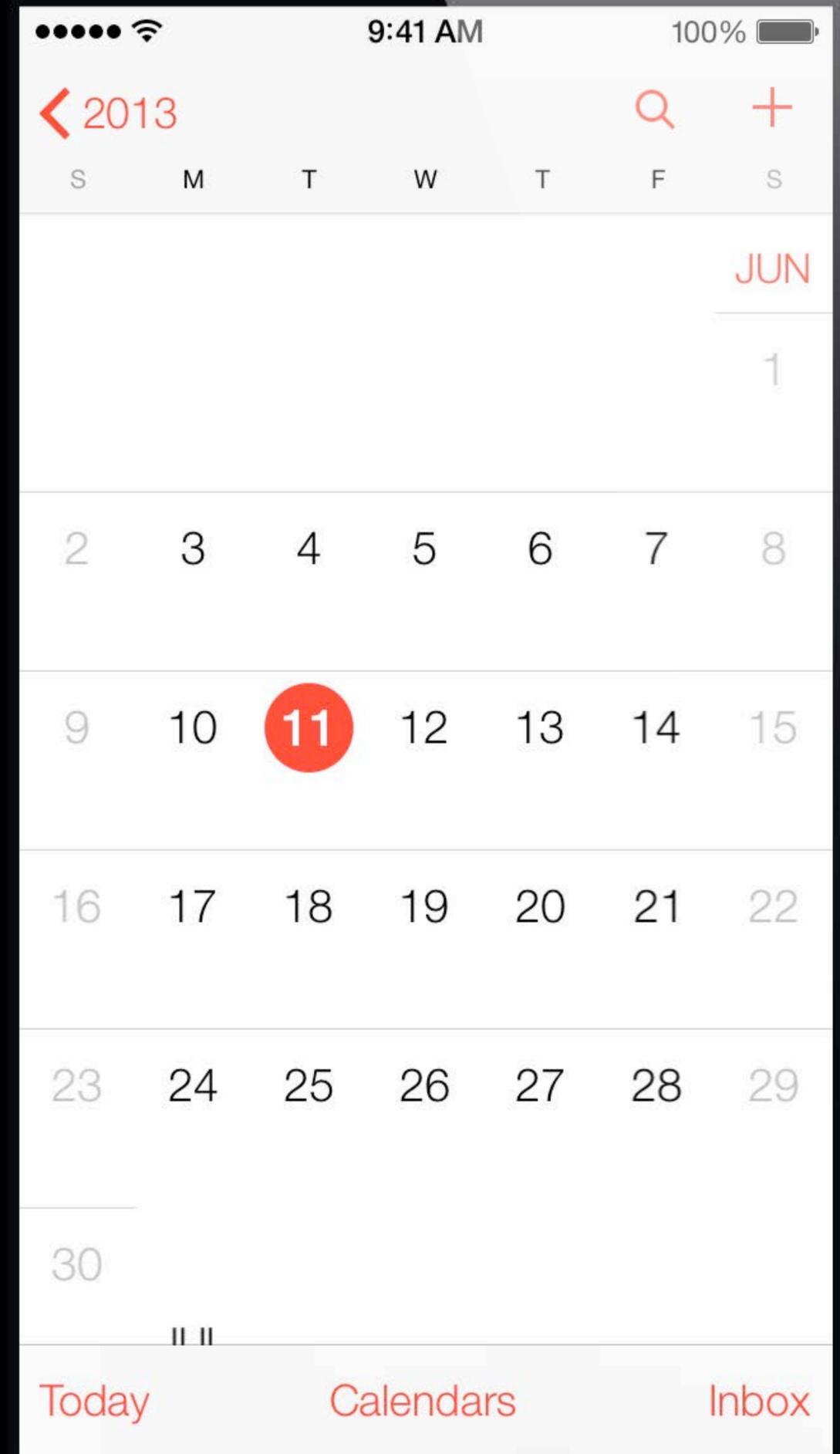


Controls

Buttons

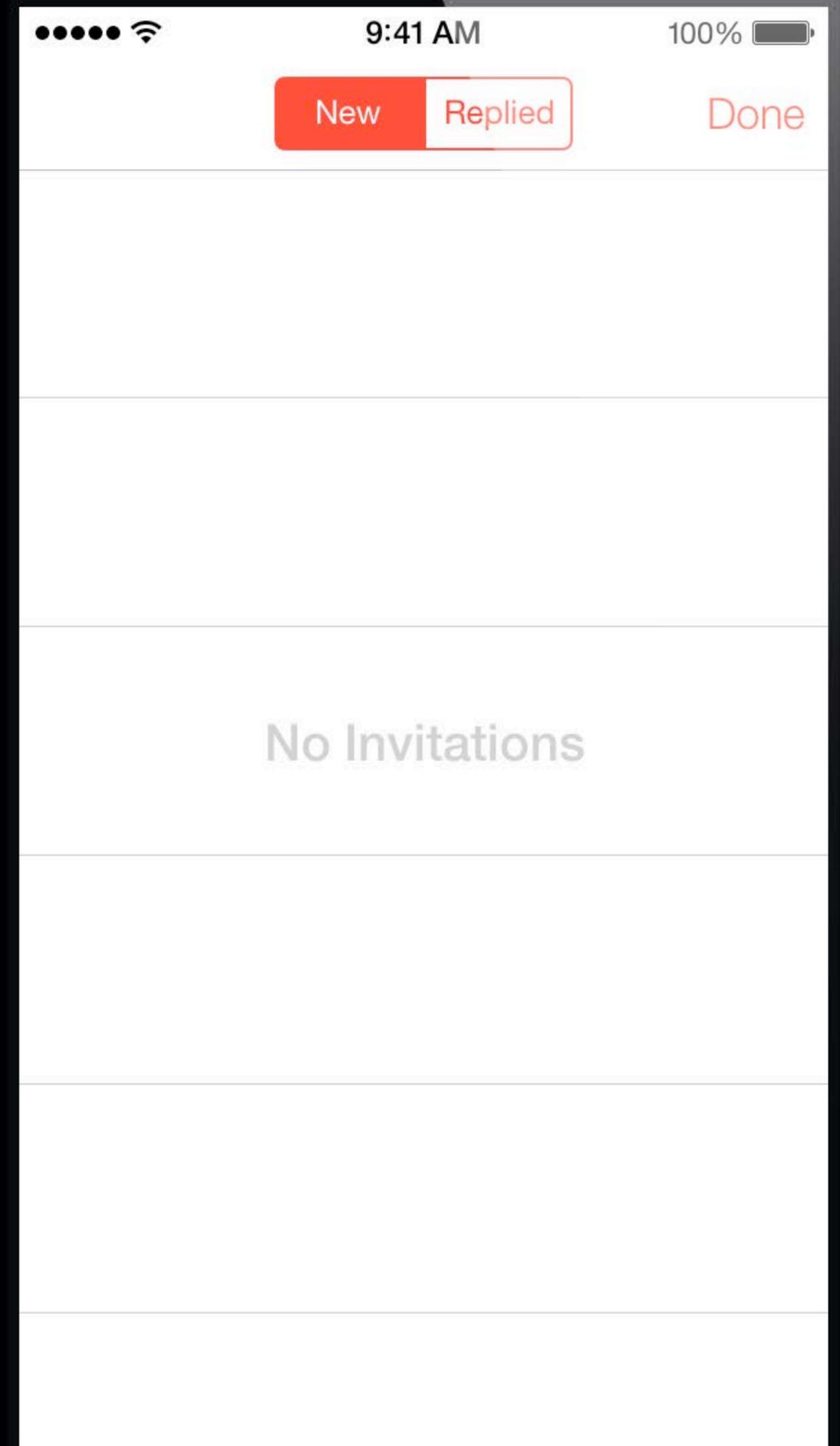
```
typedef enum UIButtonType {
    UIButtonTypeCustom = 0,
    UIButtonTypeSystem, // new in iOS 7
    ...
    UIButtonTypeRoundedRect
};
```

```
typedef enum UIBarButtonItemStyle {
    UIBarButtonItemStylePlain,
    UIBarButtonItemStyleBordered,
    UIBarButtonItemStyleDone,
};
```



Controls

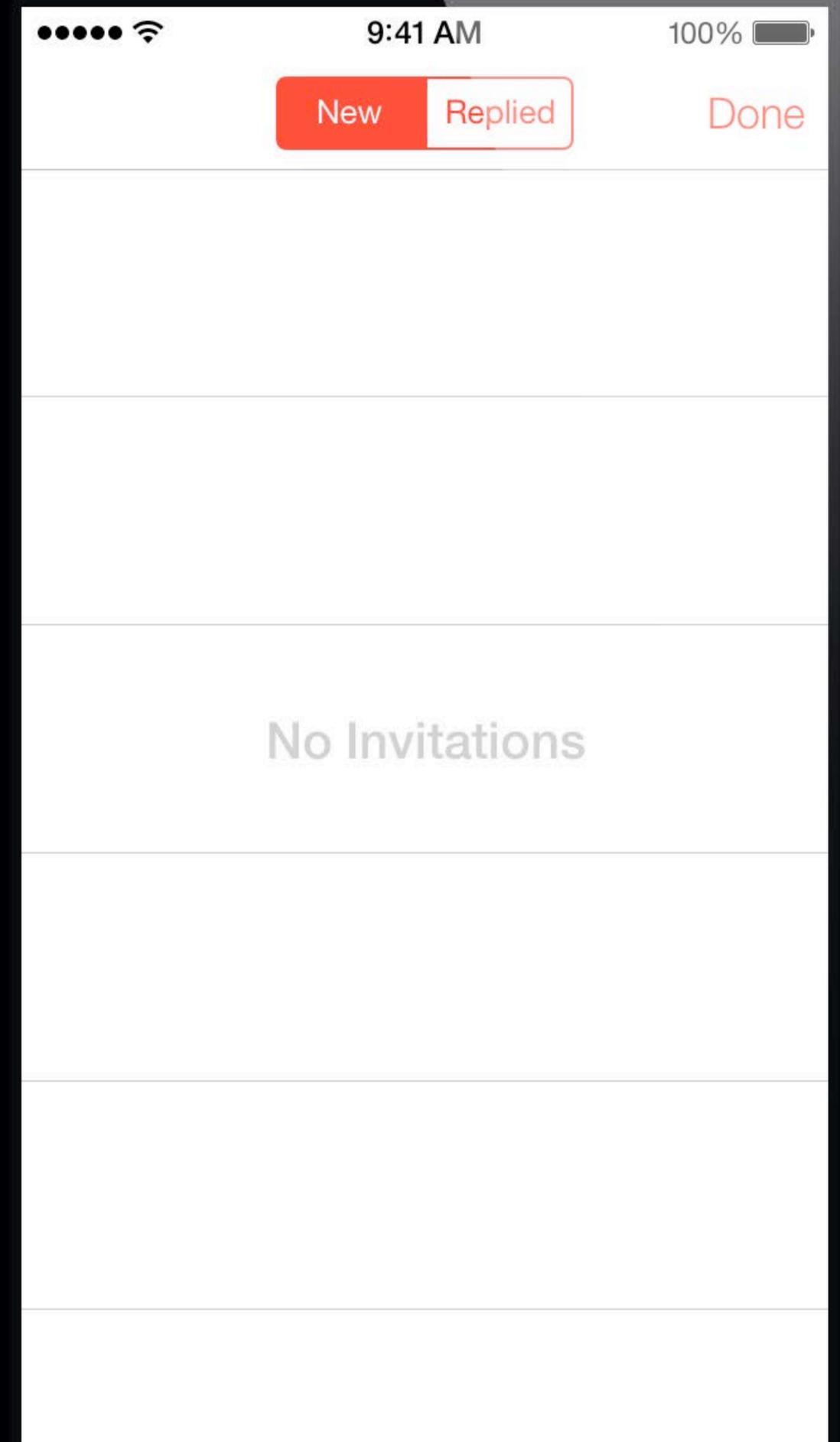
Segmented controls and steppers



Controls

Segmented controls and steppers

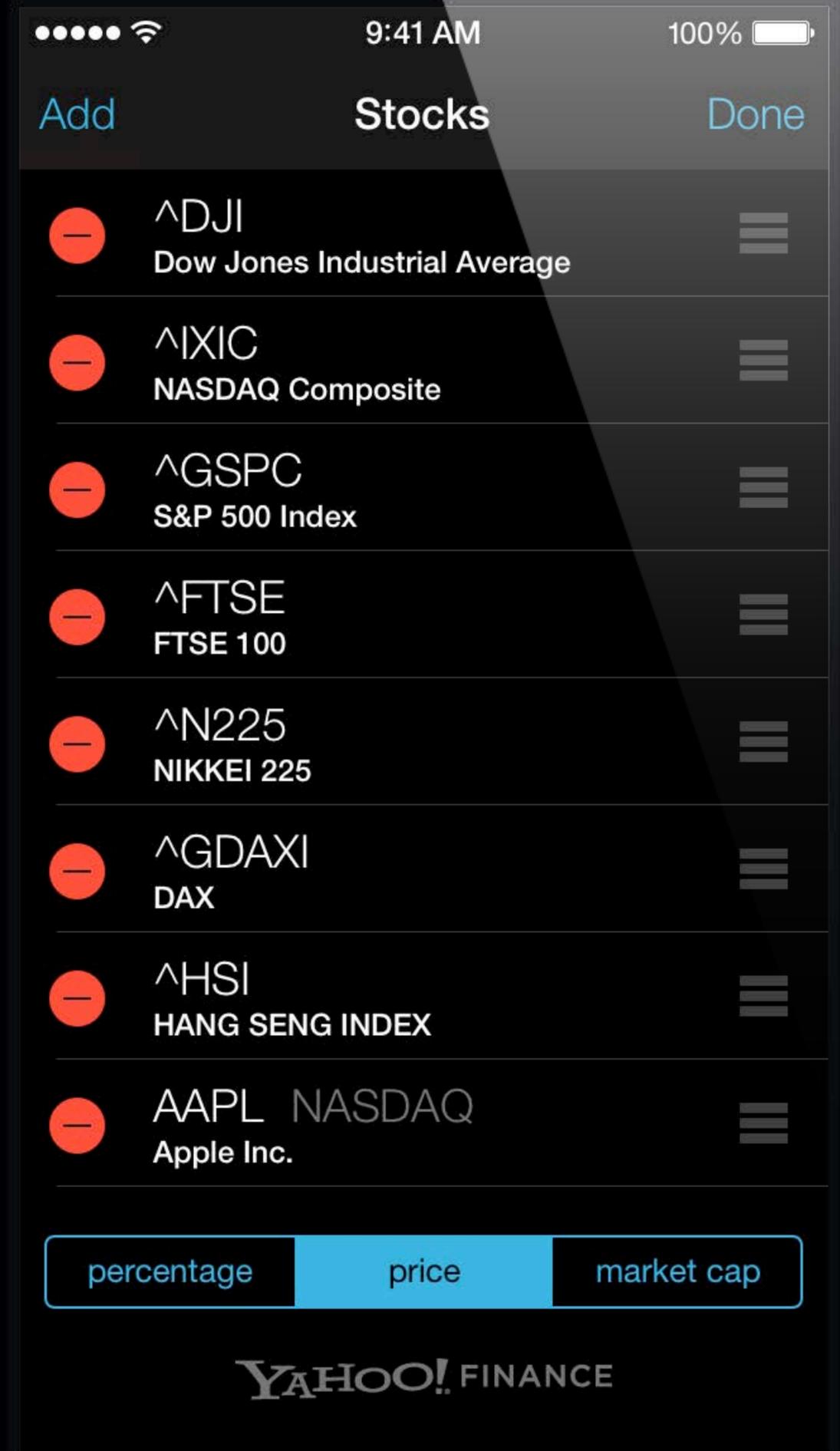
```
@interface UISegmentedControl  
@property UISegmentedControlStyle  
    segmentedControlStyle  
@end
```



Controls

Segmented controls and steppers

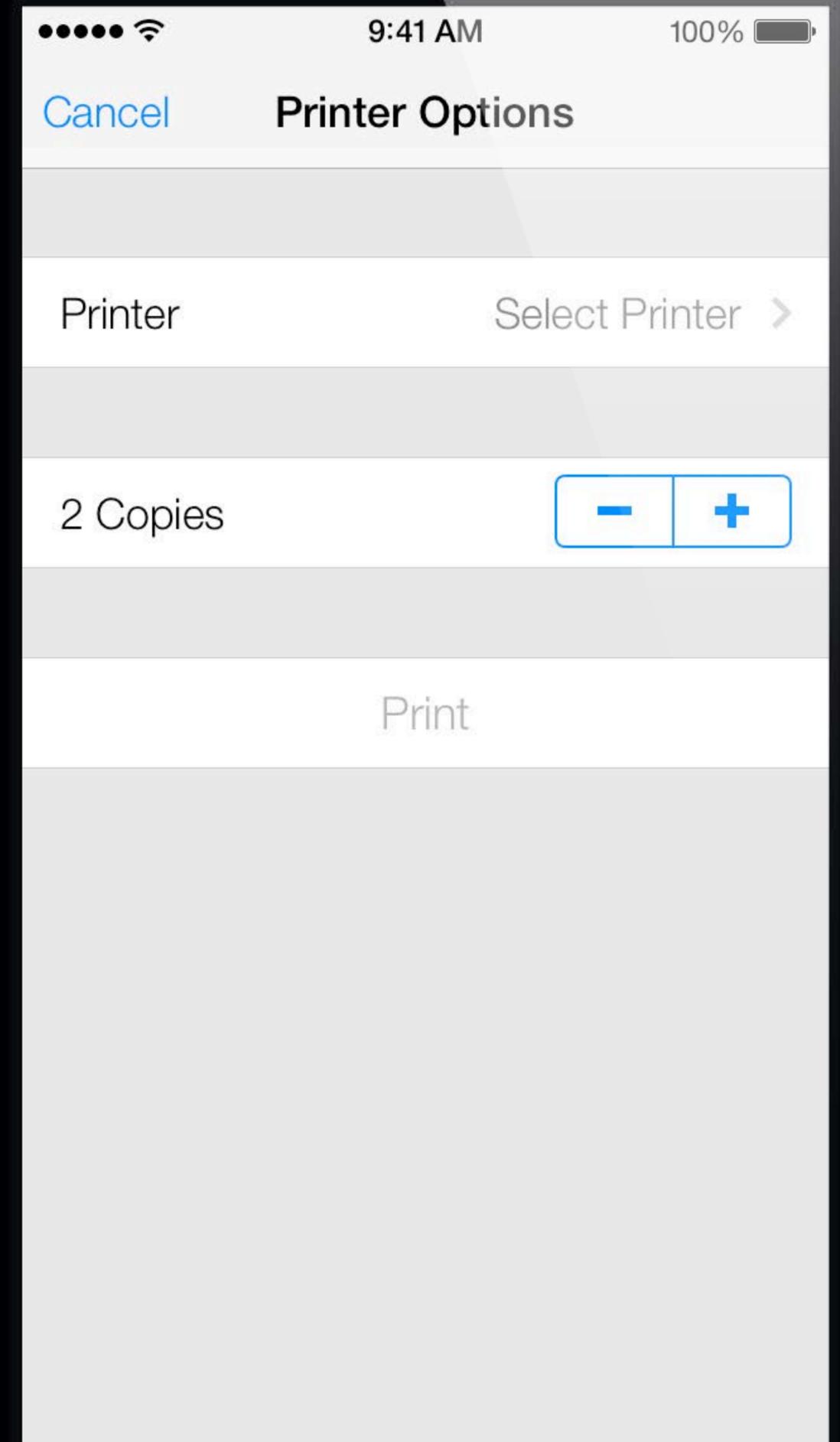
```
@interface UISegmentedControl  
@property UISegmentedControlStyle  
    segmentedControlStyle  
@end
```



Controls

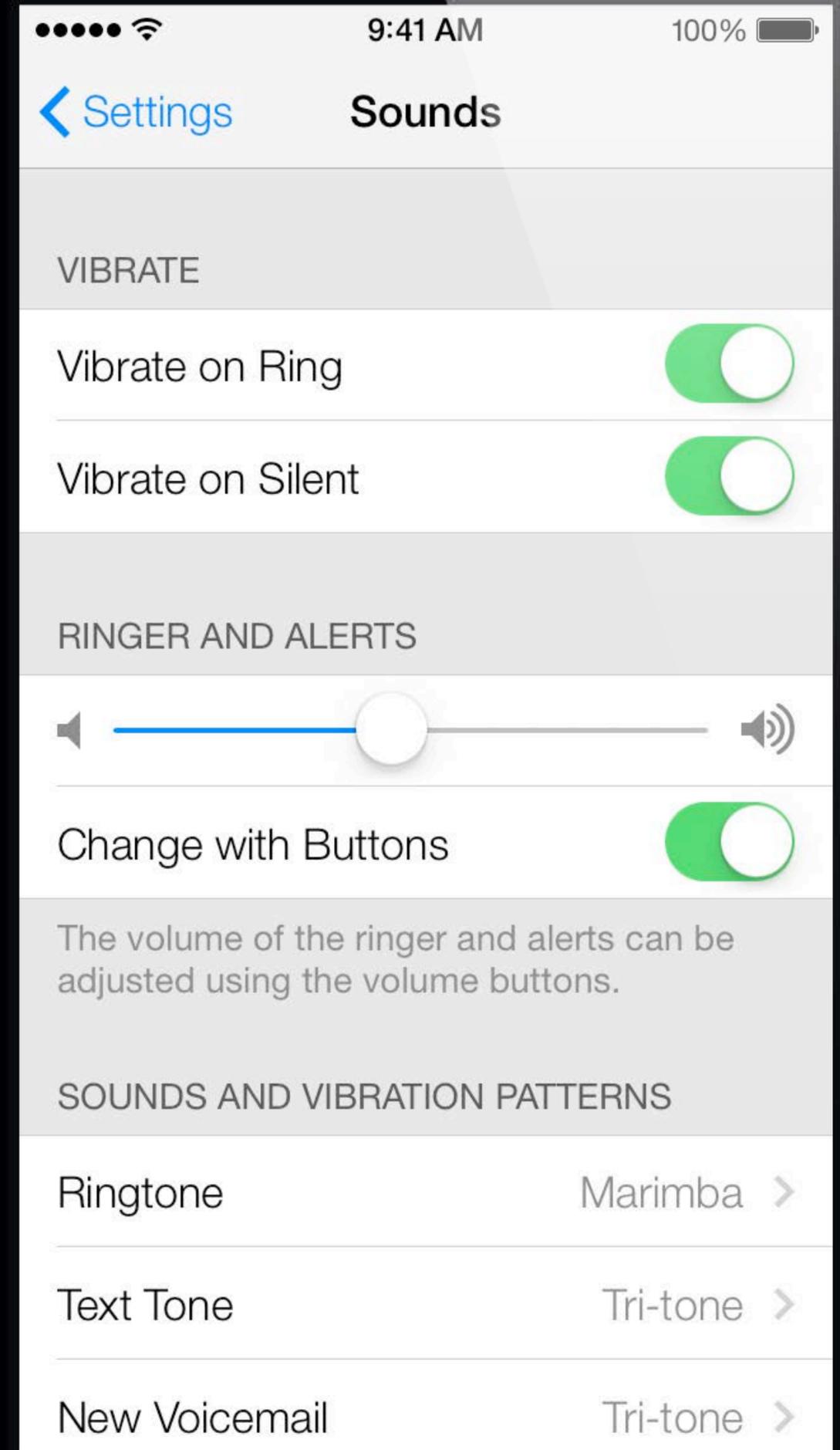
Segmented controls and steppers

```
@interface UISegmentedControl  
@property UISegmentedControlStyle  
segmentedControlStyle  
@end
```



Controls

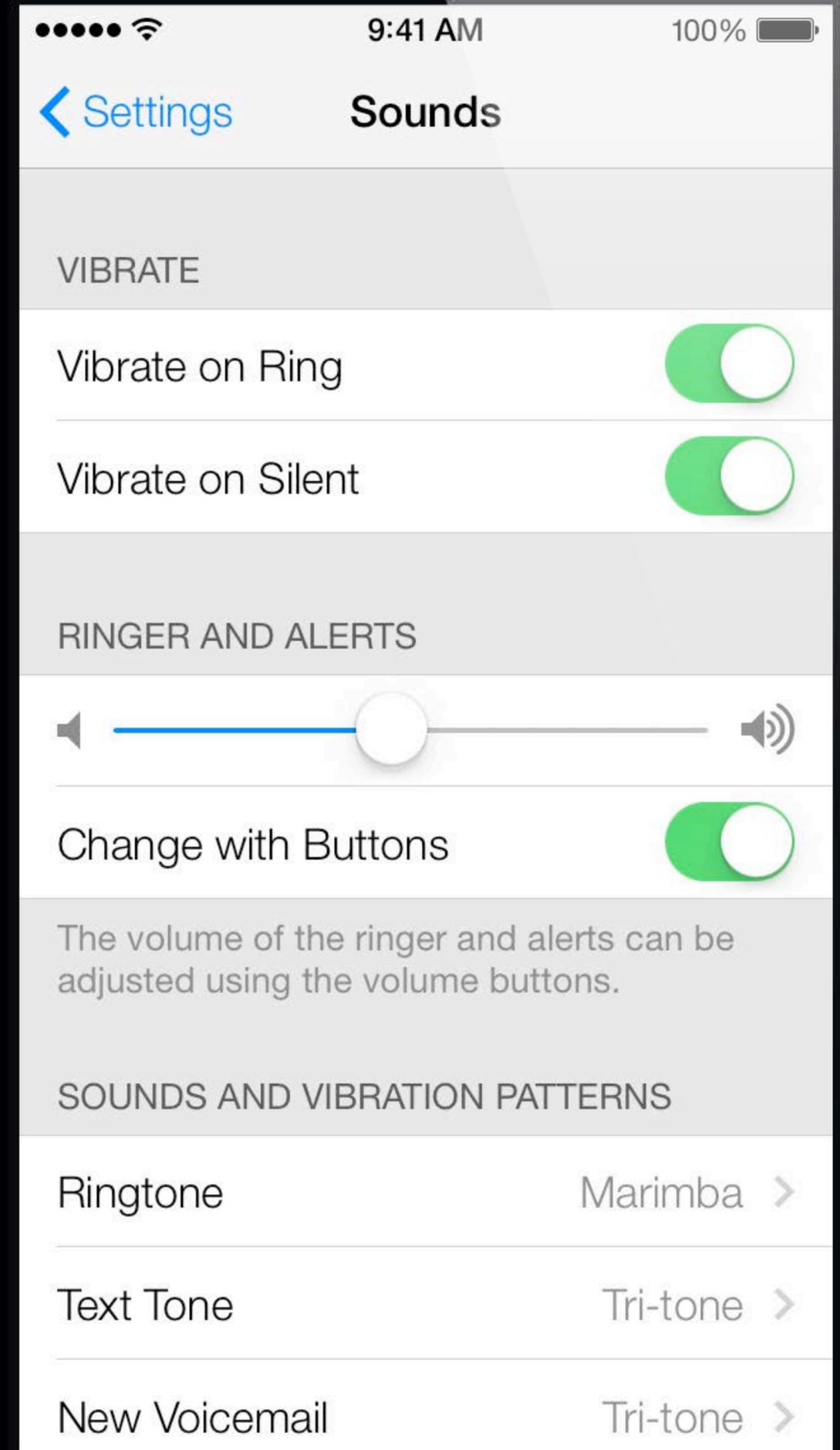
Switches and sliders



Controls

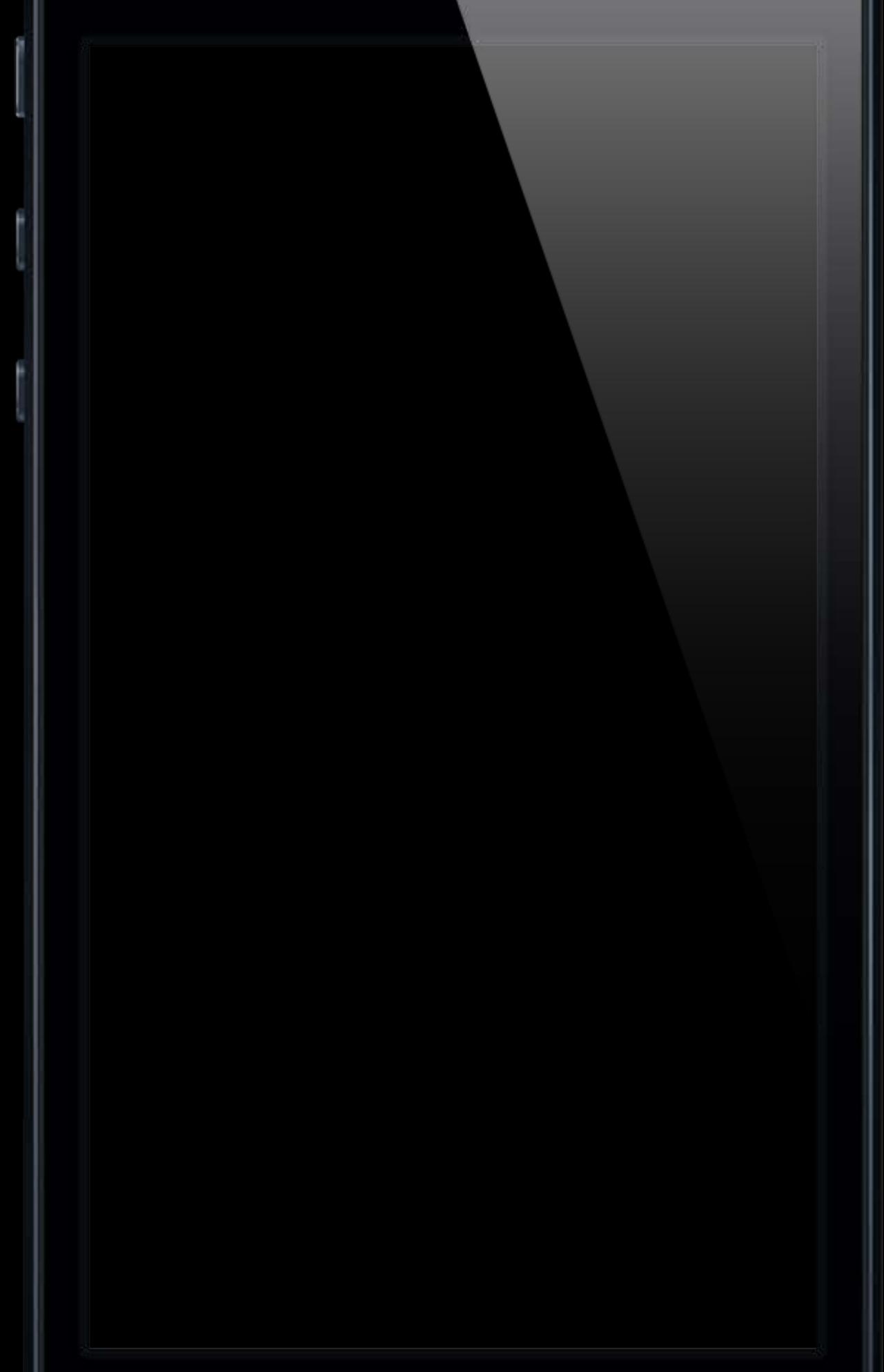
Switches and sliders

- Use autolayout to cope with metrics changes



Controls

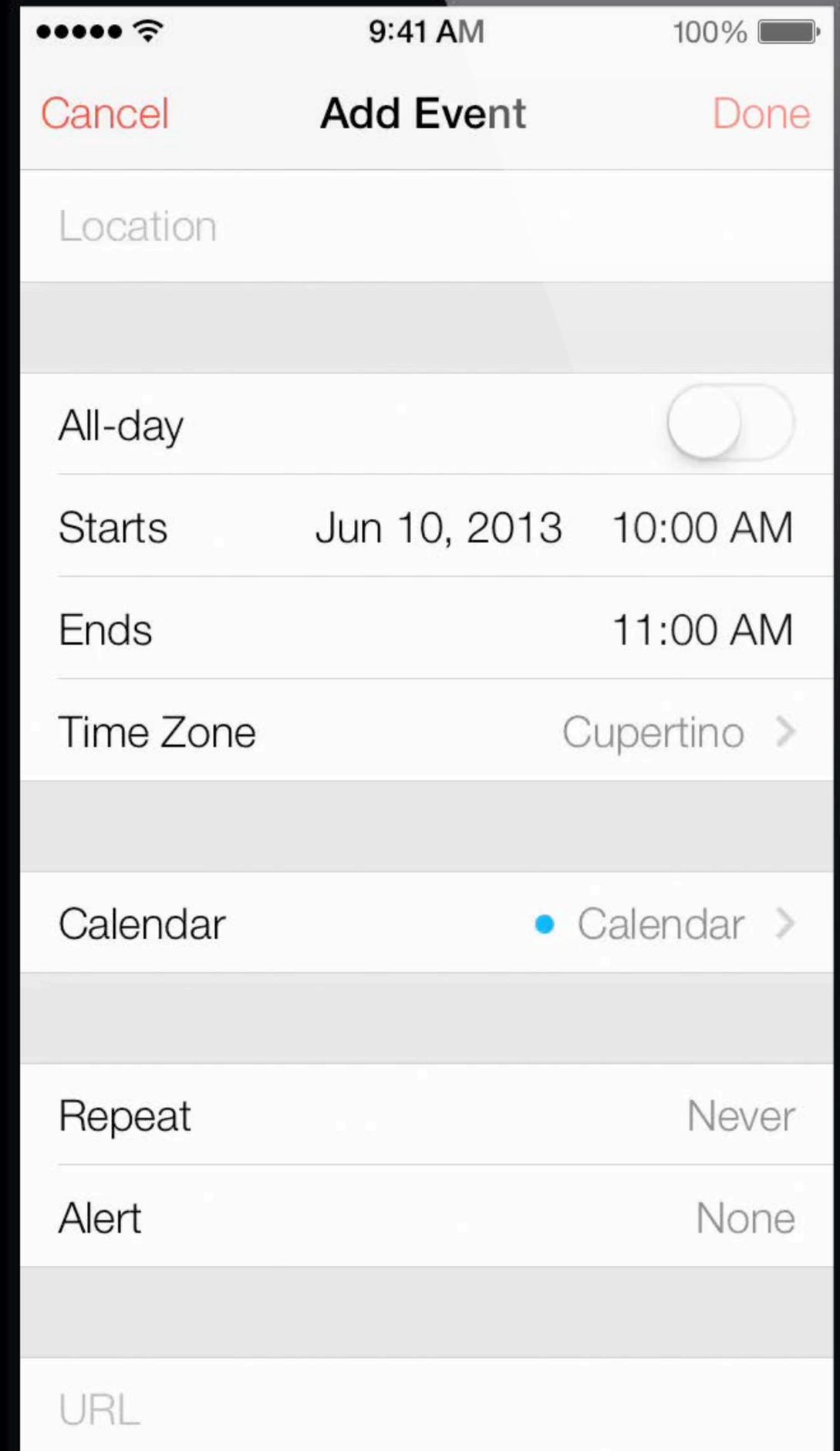
Picker views



Controls

Picker views

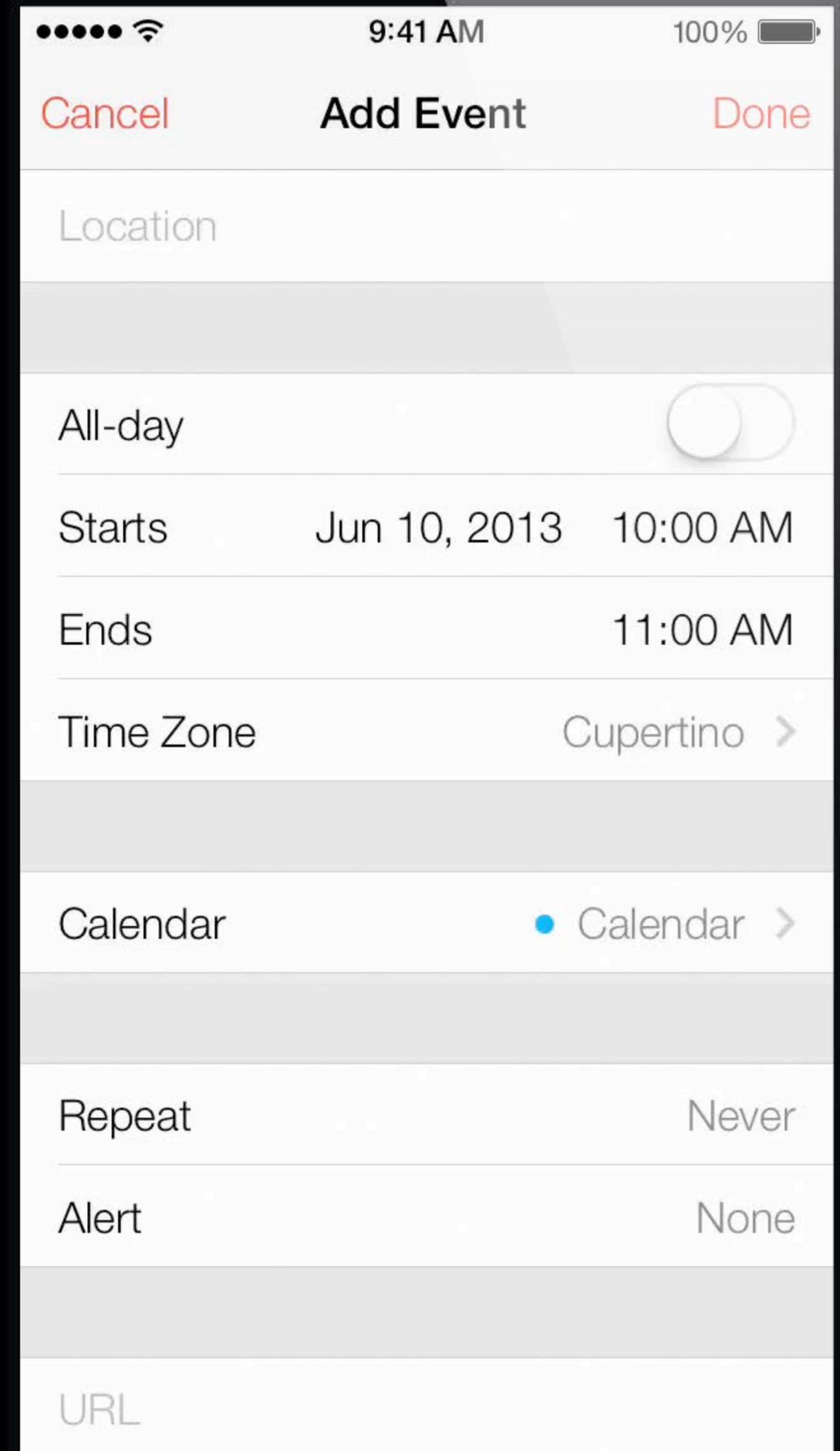
- Avoid using as a `UIInputView`
- Present inline instead



Controls

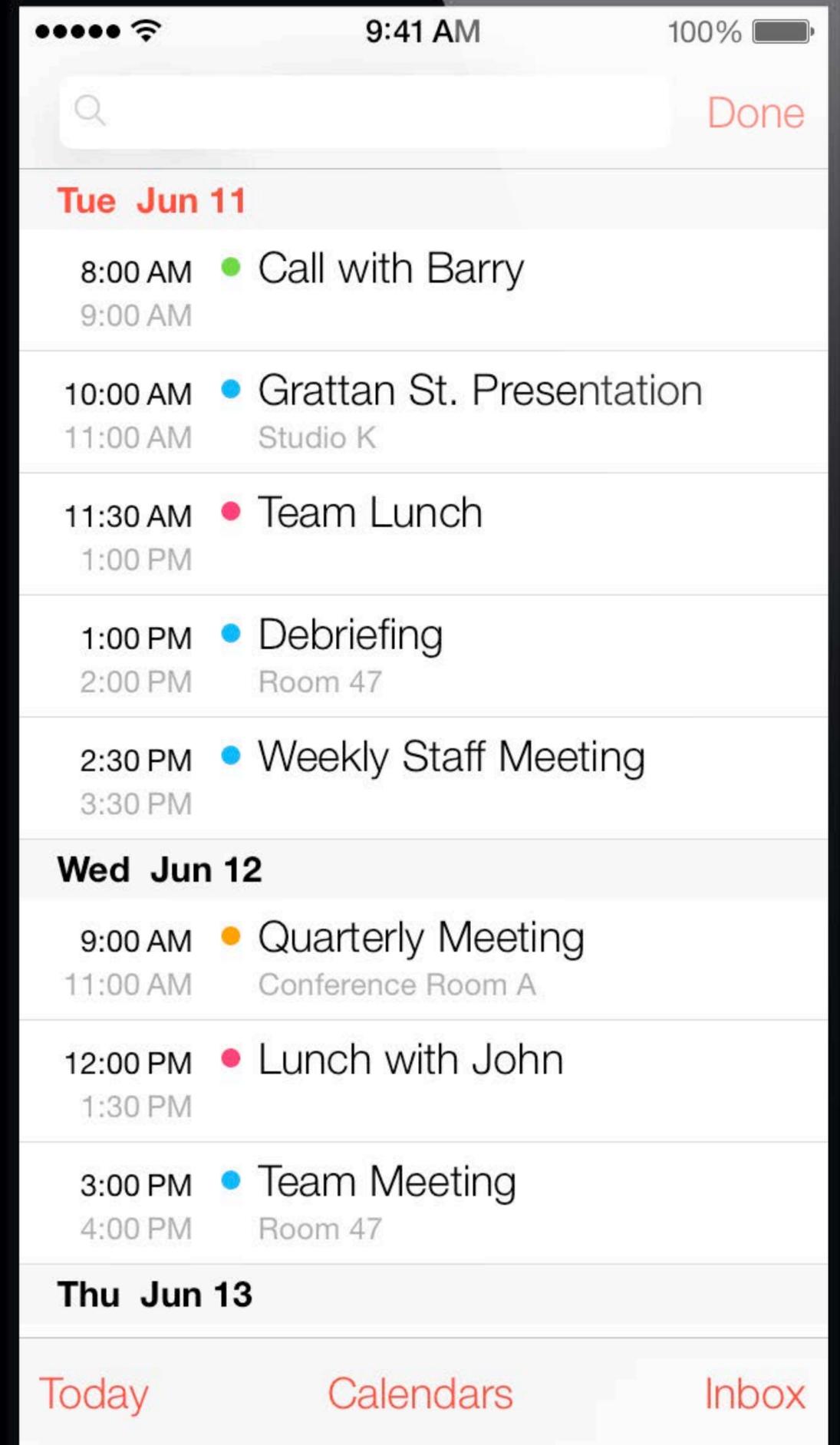
Picker views

- Avoid using as a `UIInputView`
- Present inline instead



Controls

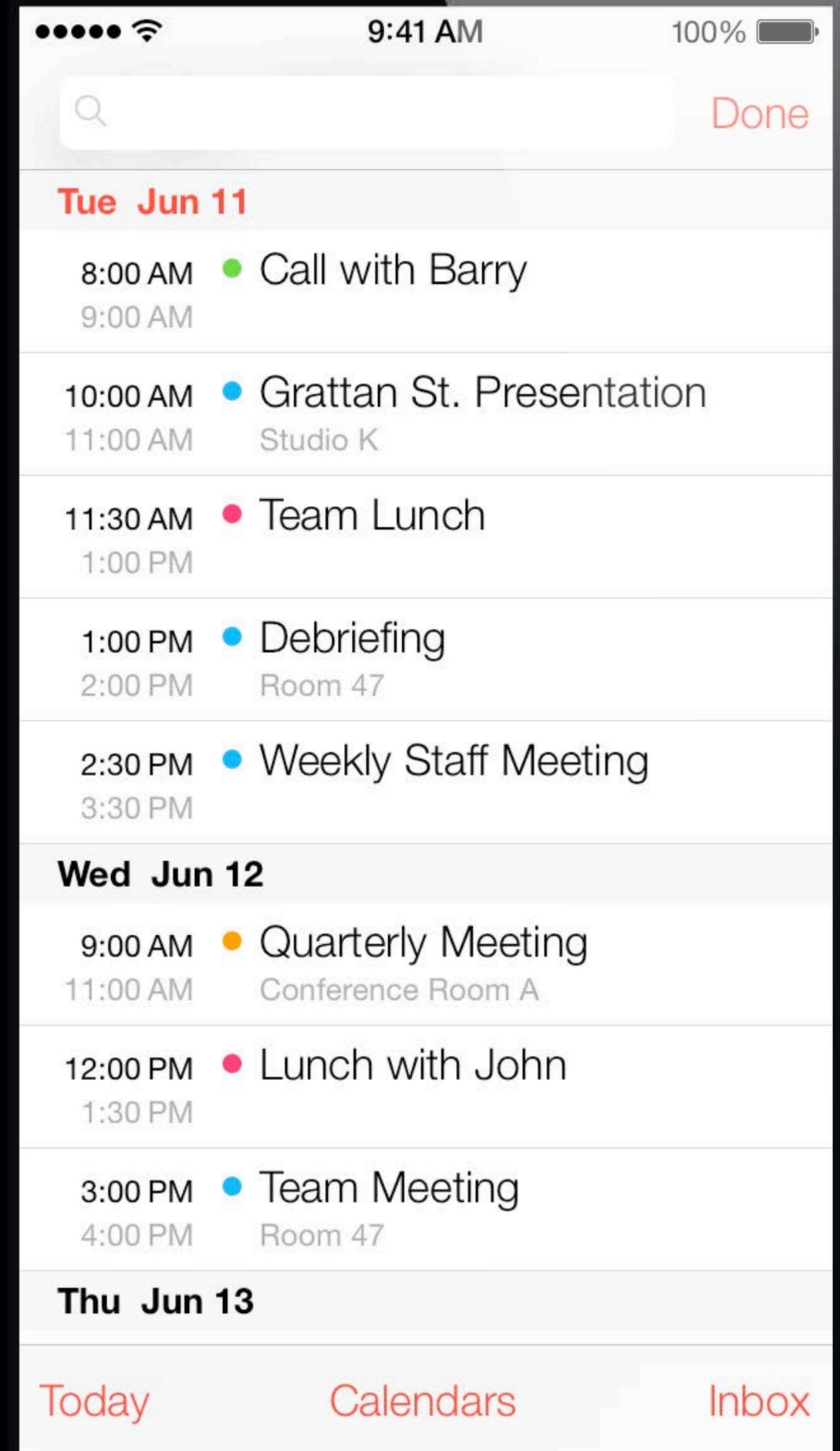
Search fields



Controls

Search fields

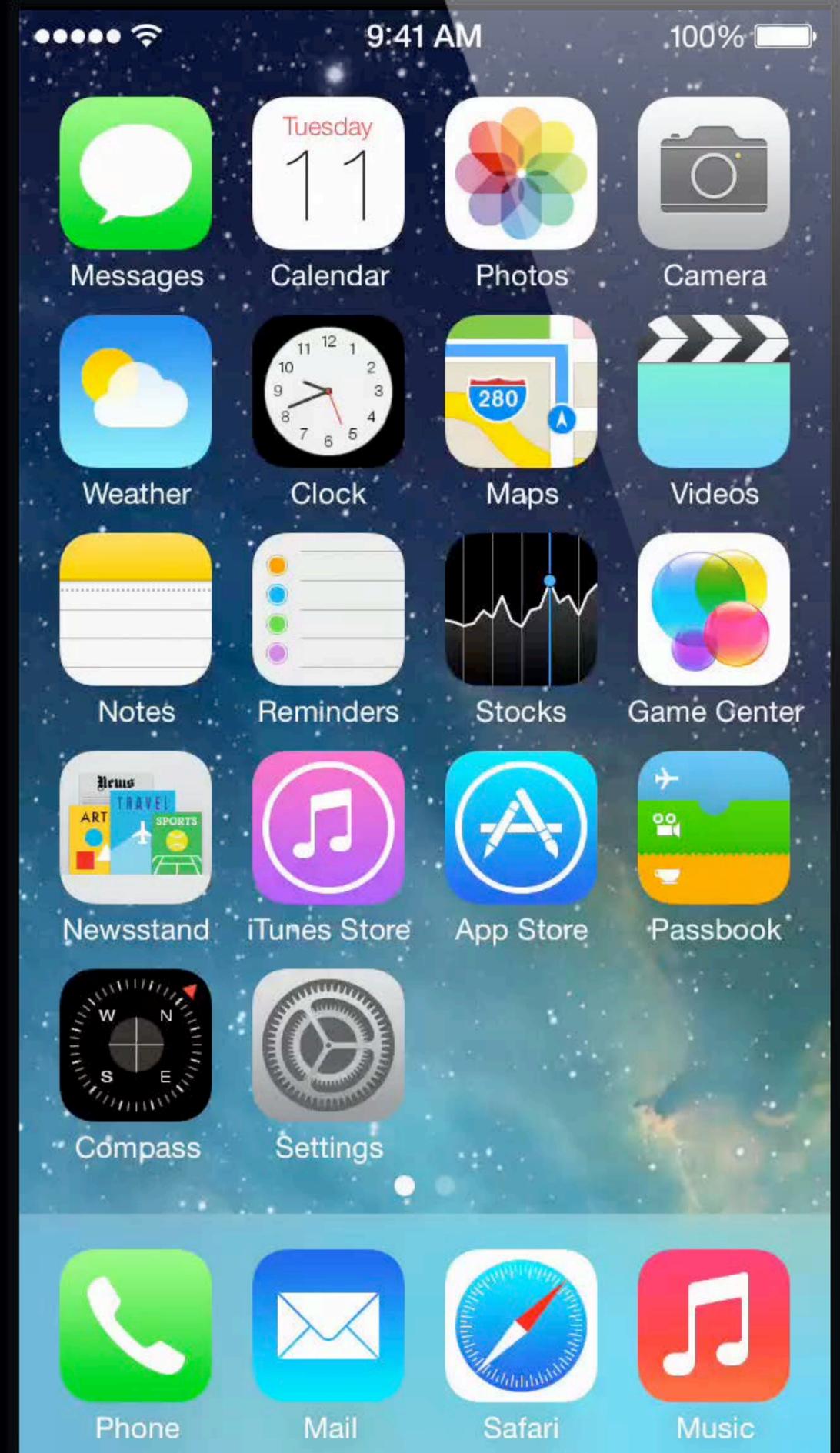
```
@interface UISearchDisplayController
@property BOOL displaysSearchBarInNavigationBar;
@property UINavigationController *navigationItem;
@end
```



Adaptive Multitasking



Adaptive Multitasking



What's New with Multitasking

Presidio
Tuesday 2:00PM



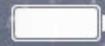
Building User Interfaces for iOS 7

Andy Matuschak
iOS Apps and Frameworks





9:41 AM

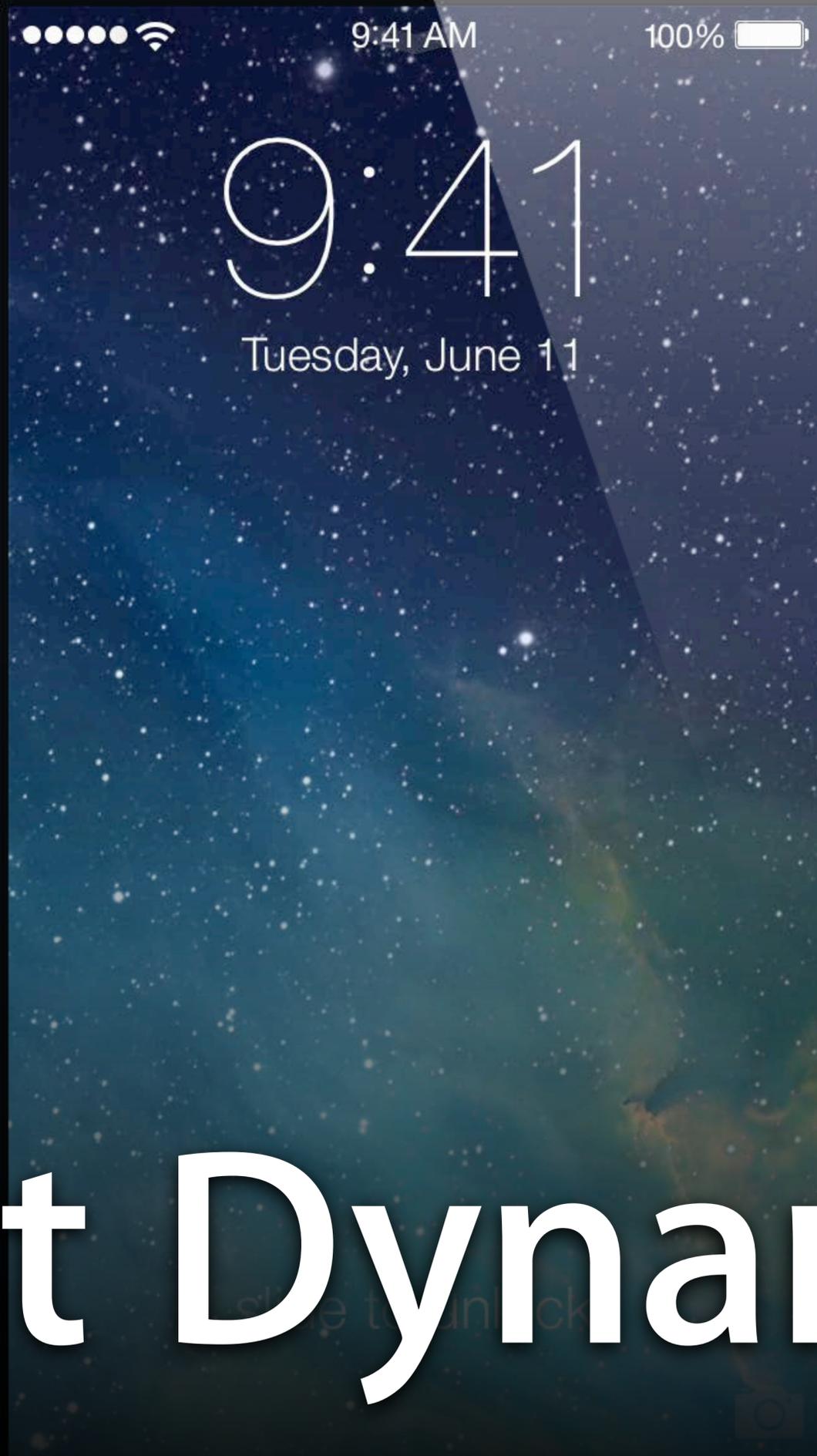
100% 

9:41

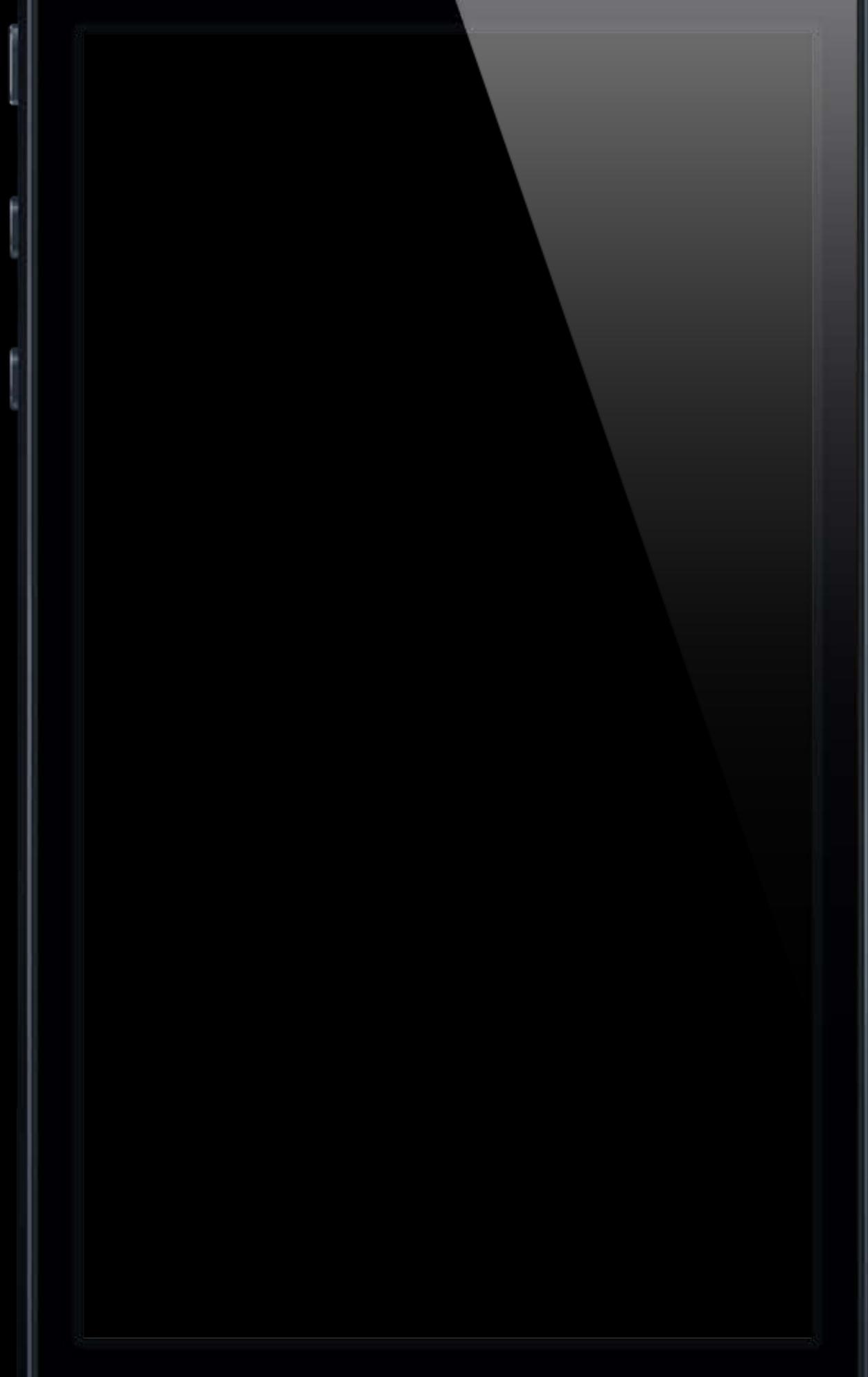
Tuesday, June 11

slide to unlock



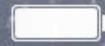


UIKit Dynamics





9:41 AM

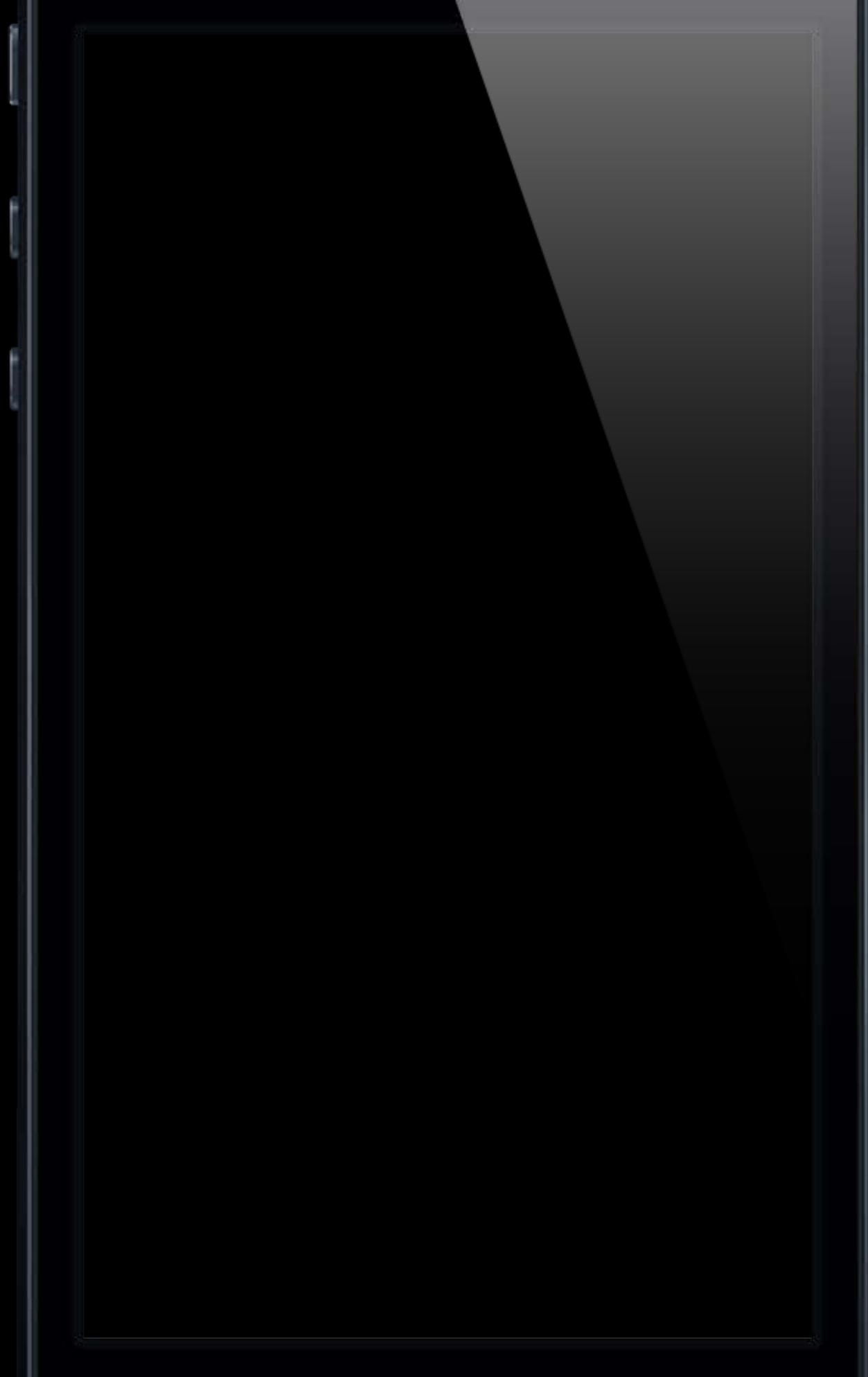
100% 

9:41

Tuesday, June 11

slide to unlock







9:41 AM

100%

[← Messages](#) **John Appleseed** [Contact](#)

Monday 2:23 PM

Hey, you called?

Just wondering how the meeting went this morning.

It went well. I'll send you a full report as soon as I get back to my office.

Great, I appreciate it.

Just sent it.

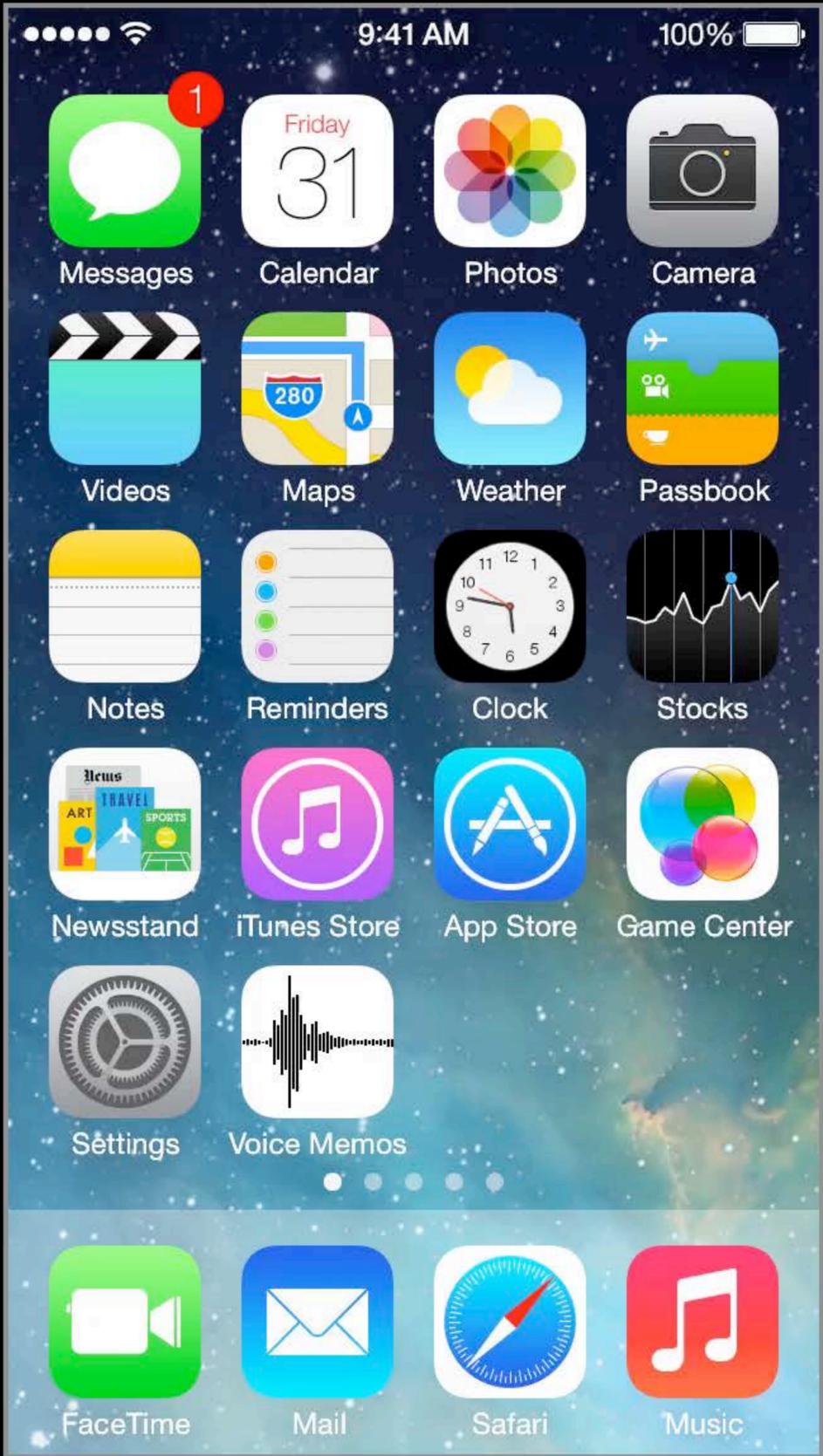
Thanks. I have a few questions about it. Can you meet to talk about this today?

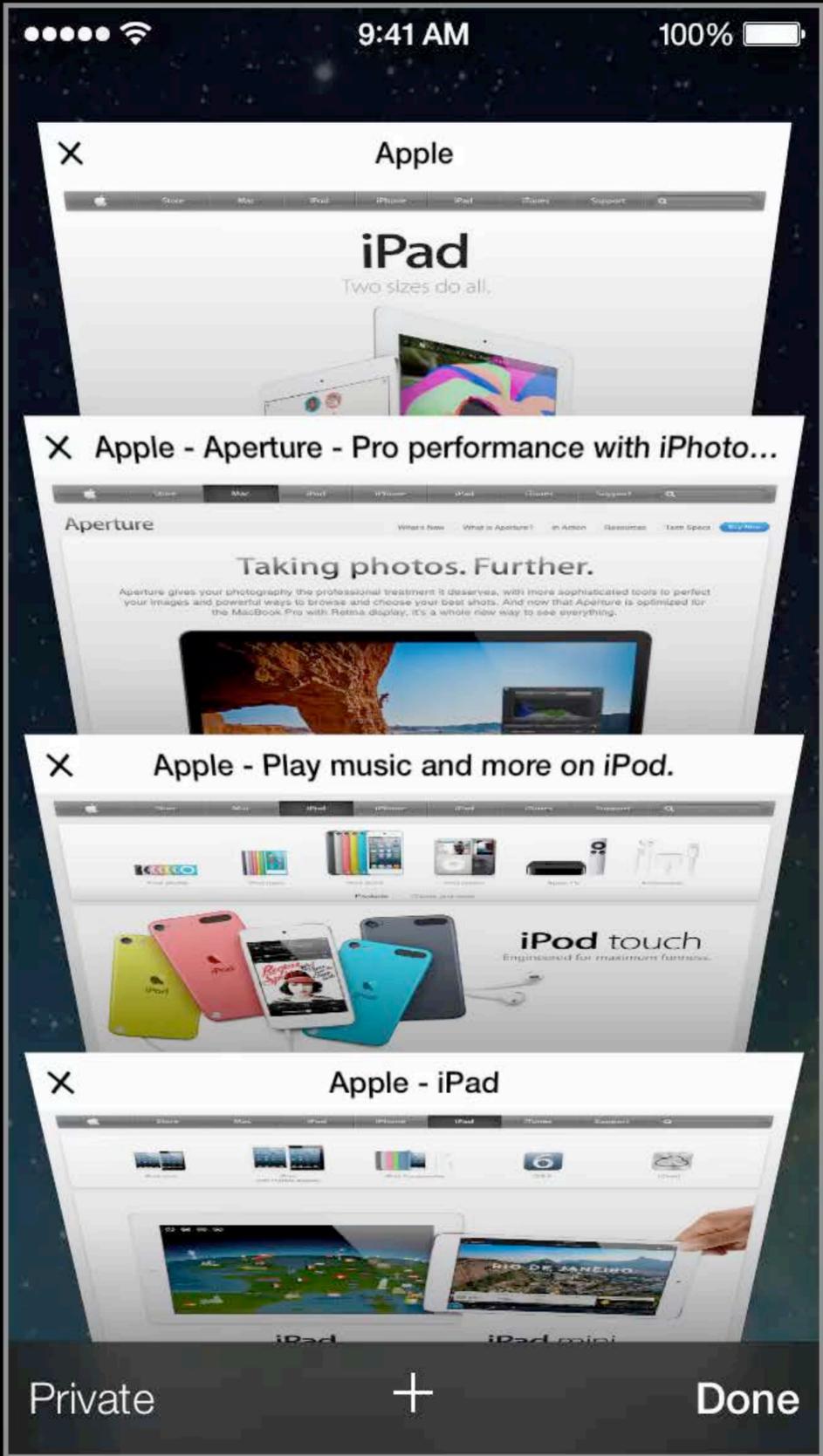
I have a meeting until 5pm,

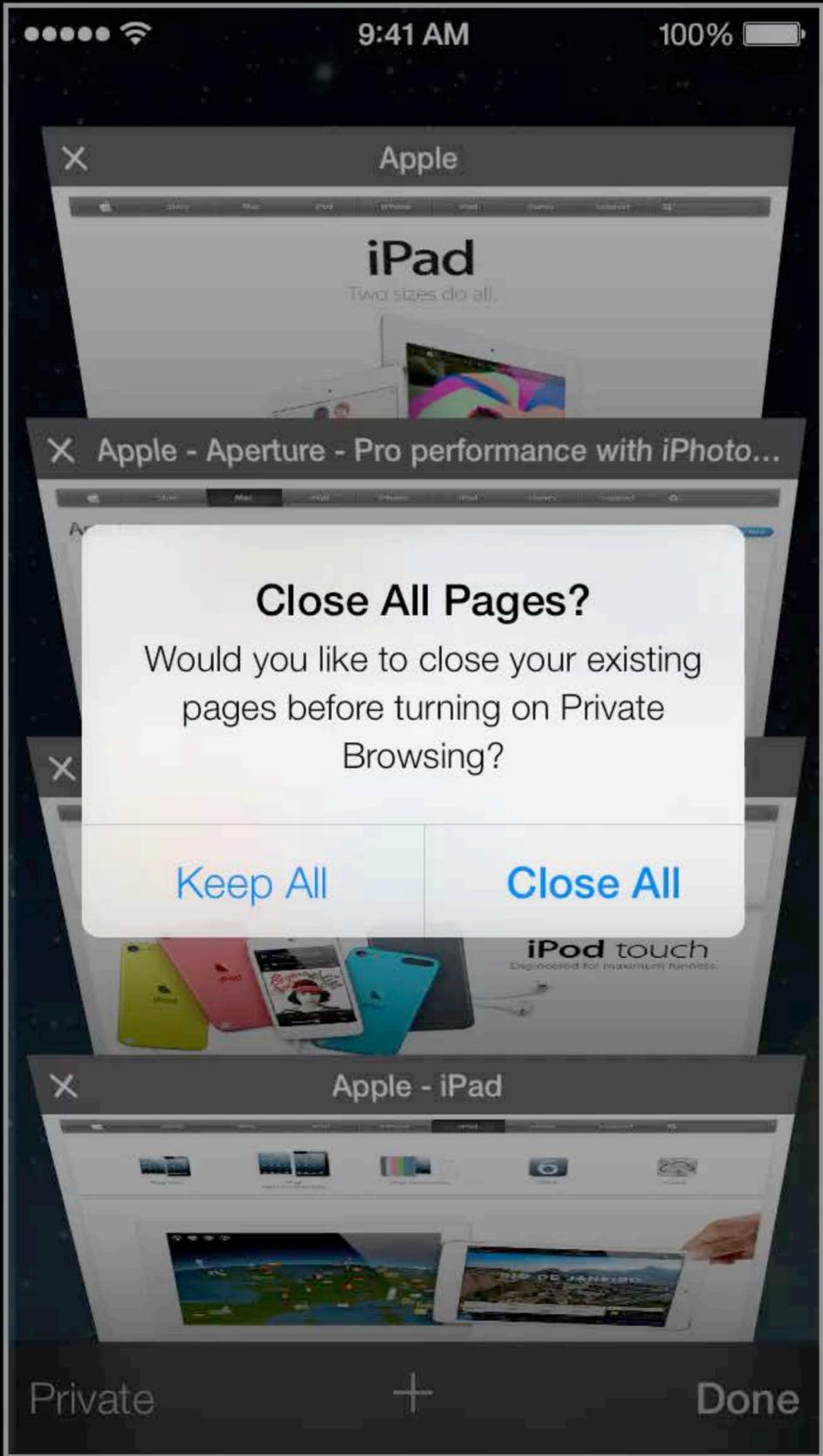


Send

Getting Started with UIKit Dynamics	Presidio Tuesday 4:30PM	
Advanced Techniques with UIKit Dynamics	Presidio Thursday 3:15PM	
Exploring Scroll Views on iOS 7	Presidio Thursday 10:15AM	







Close All Pages?

Would you like to close your existing pages before turning on Private Browsing?

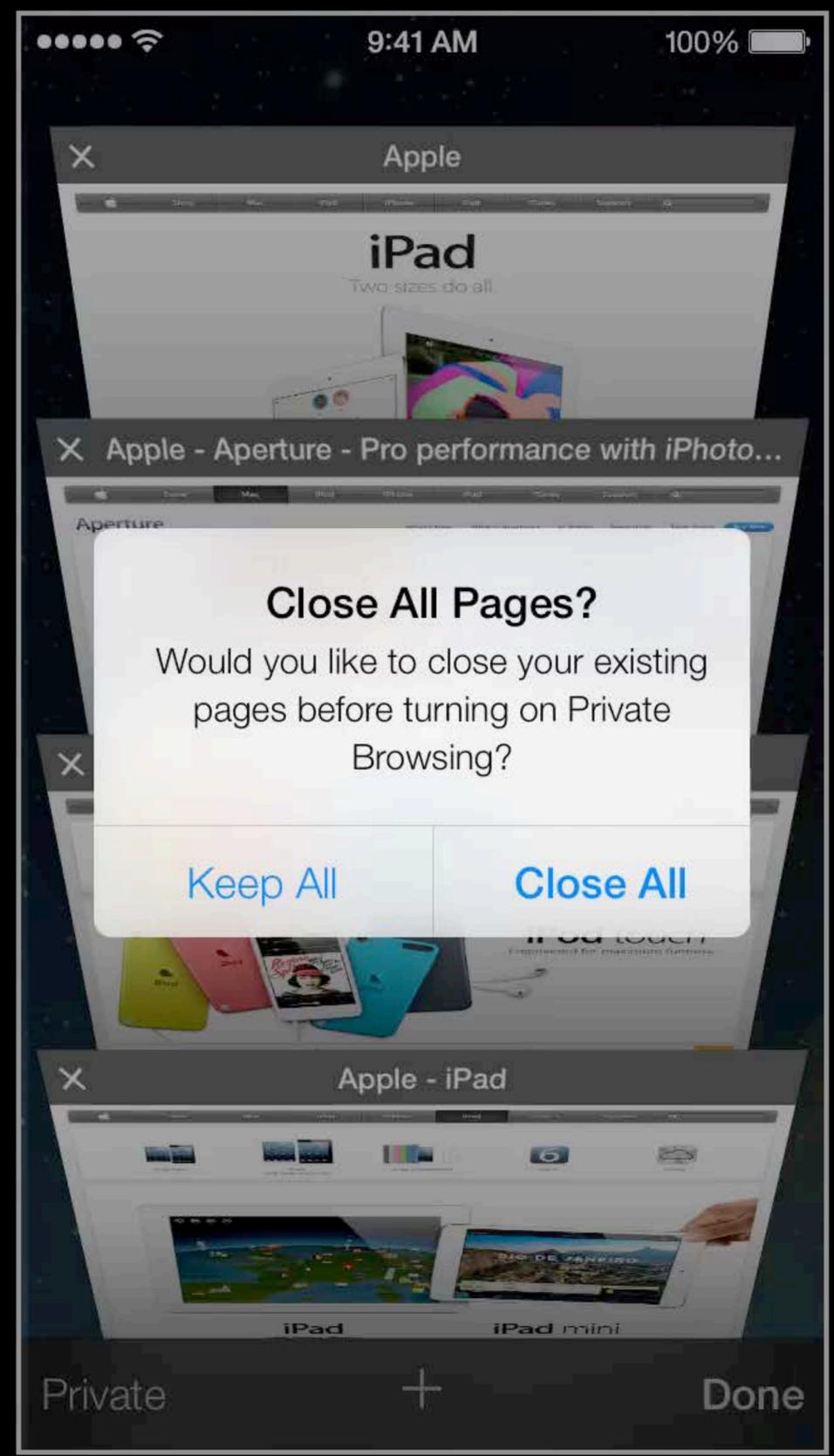
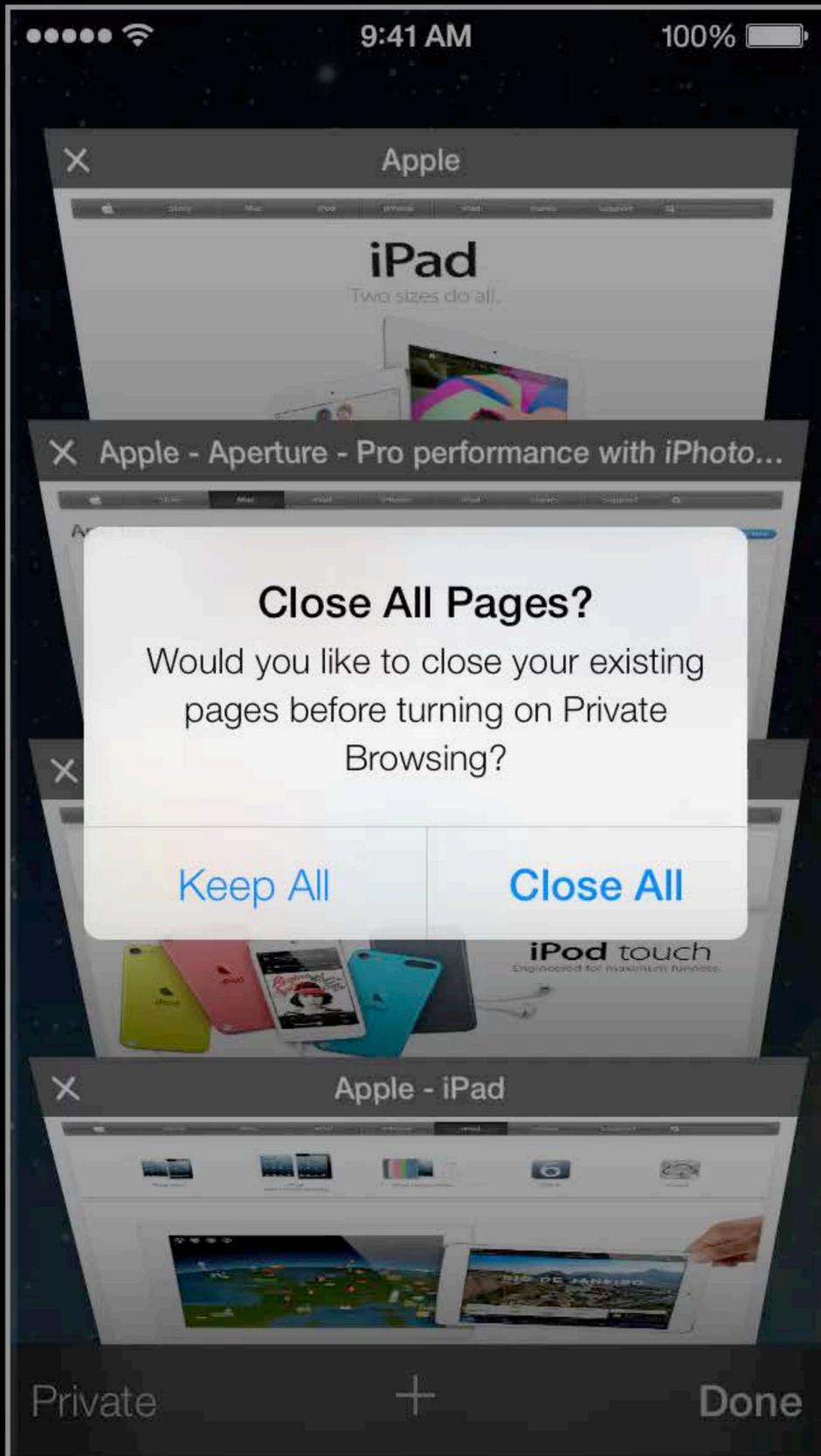
Keep All

Close All

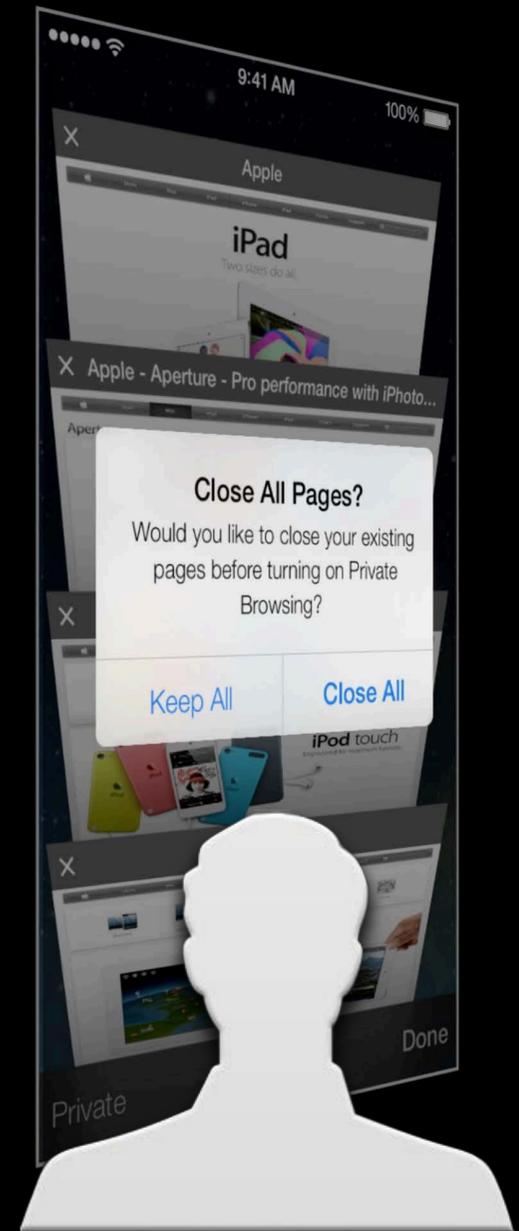
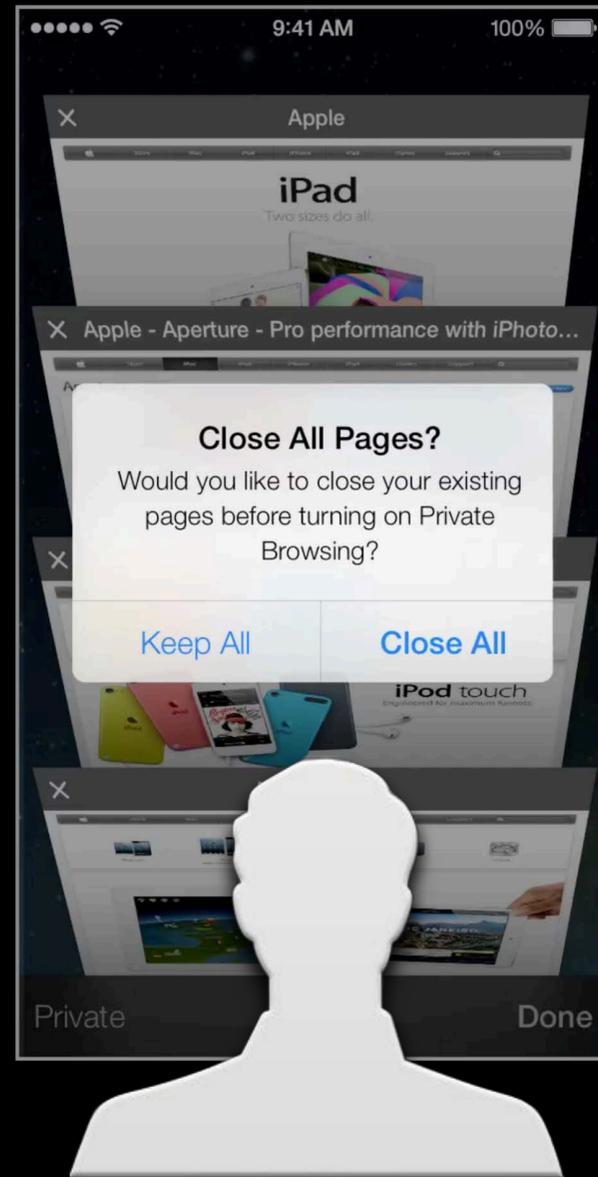
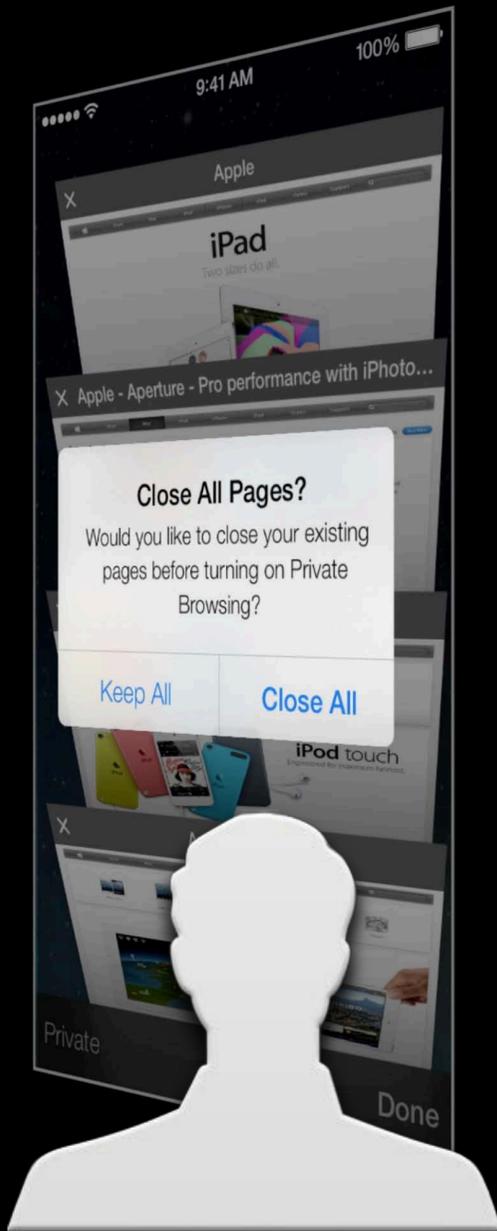
Private

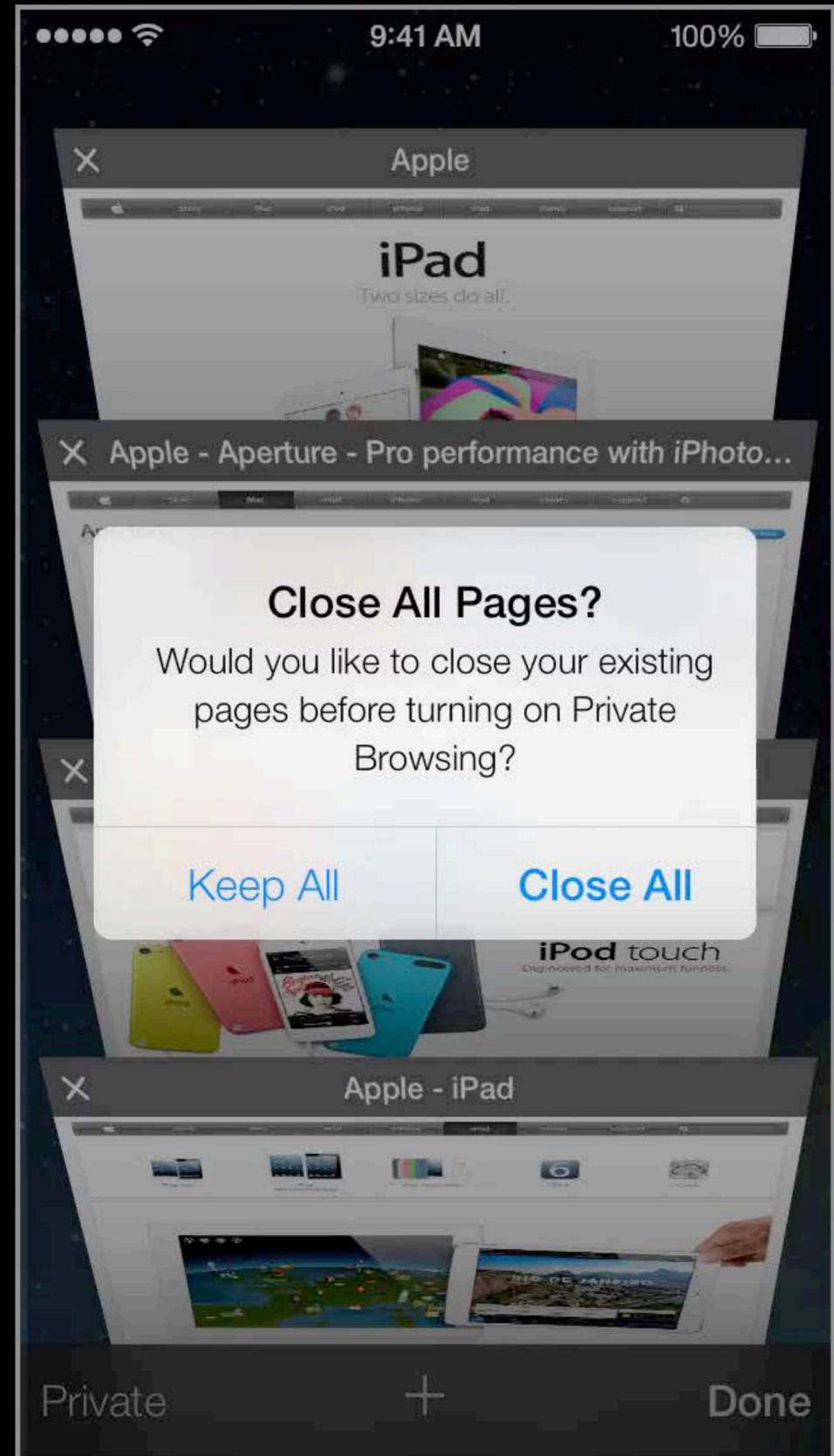
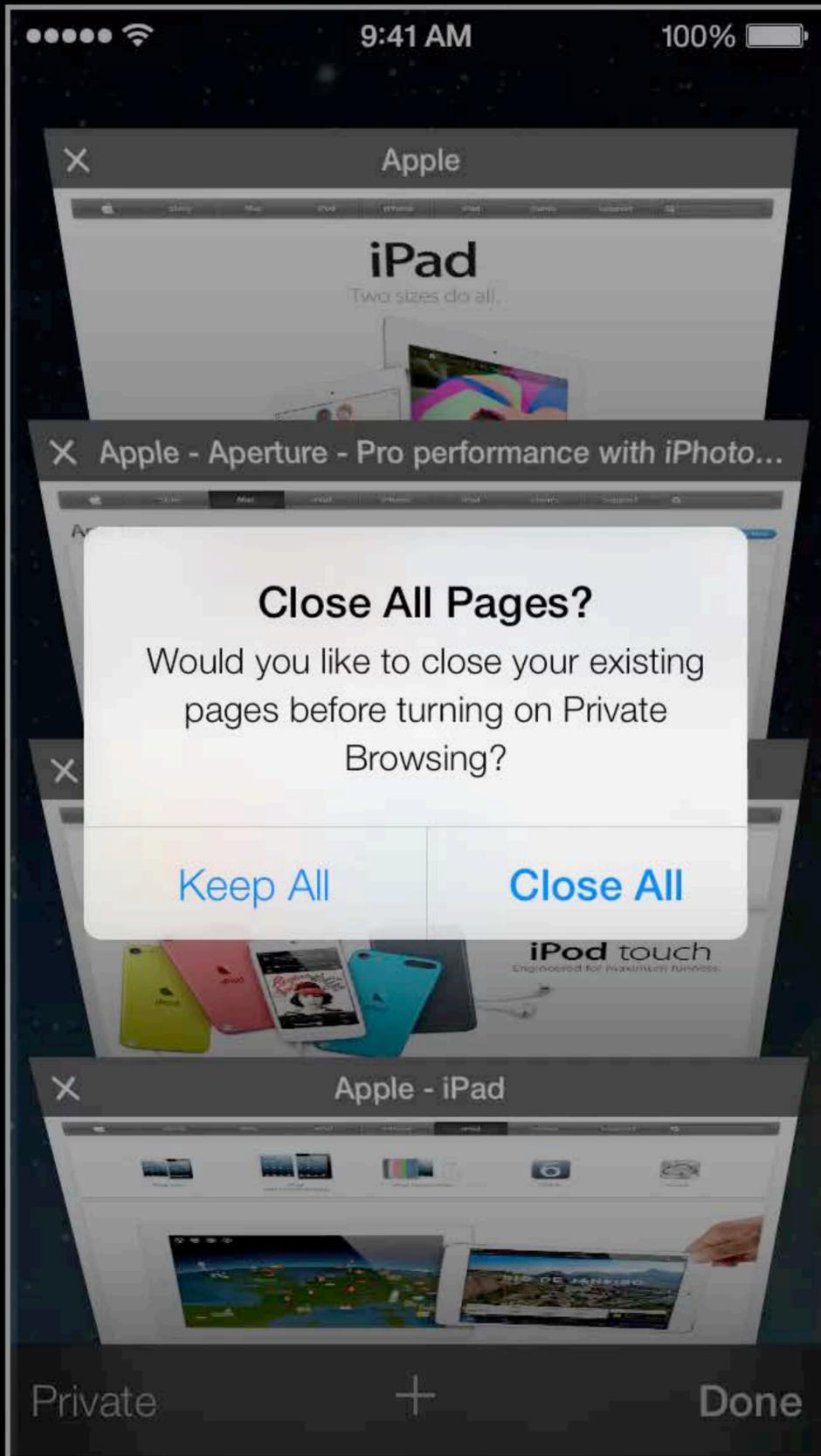


Done



Motion Effects





Implementing Engaging UI on iOS

Mission
Friday 11:30AM





History

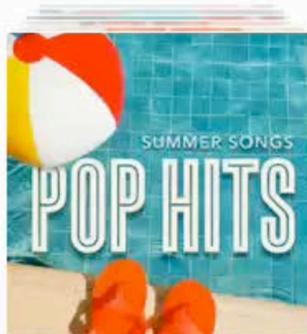
iTunes Radio

Now
Playing

Featured Stations



'80s Dance Party



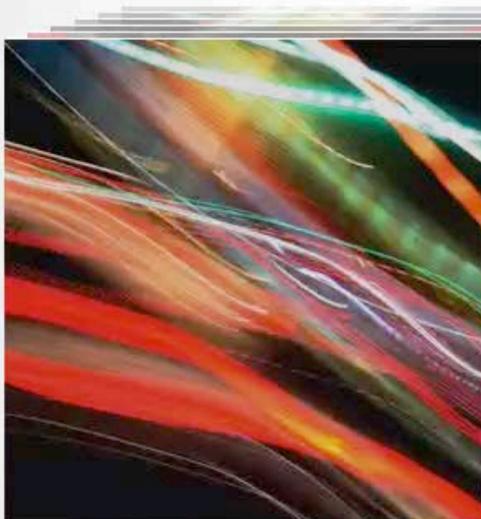
Pop Hits
Summer Songs



Artists on Tour

Edit

My Stations



Modern Rock Radio



Dance Radio



Radio



Playlists



Artists



Songs



More



9:41 AM

100%



Messages



Calendar



Photos



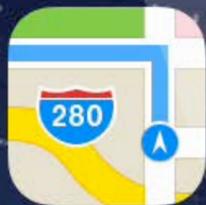
Camera



Weather



Clock



Maps



Videos



Notes



Reminders



Stocks



Game Center



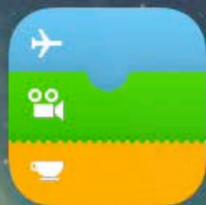
Newsstand



iTunes Store



App Store



Passbook



Compass



Settings



Phone



Mail



Safari



Music



9:41 AM

100%



Messages



Calendar



Photos



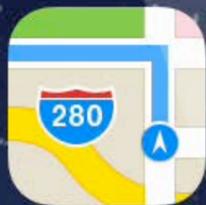
Camera



Weather



Clock



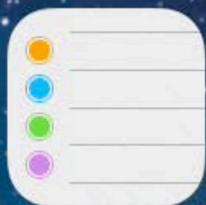
Maps



Videos



Notes



Reminders



Stocks



Game Center



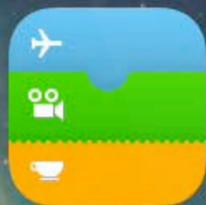
Newsstand



iTunes Store



App Store



Passbook



Compass



Settings



Phone



Mail



Safari



Music



- [UIView drawHierarchyInRect:]

Implementing Engaging UI on iOS

Mission
Friday 11:30AM



Adapting Your App for iOS 7

Adapting Your App for iOS 7

At a high level

Adapting Your App for iOS 7

At a high level

- Focus on core functionality

Adapting Your App for iOS 7

At a high level

- Focus on core functionality
- Exalt it

Adapting Your App for iOS 7

At a high level

- Focus on core functionality
- Exalt it
- Breathe new life

Adapting Your App for iOS 7

At a high level

- Focus on core functionality
- Exalt it
- Breathe new life
- Consider Retina's possibilities

Adapting Your App for iOS 7

On an API level

Adapting Your App for iOS 7

On an API level

- Adopt new text APIs

Adapting Your App for iOS 7

On an API level

- Adopt new text APIs
- Ensure view controllers are full screen

Adapting Your App for iOS 7

On an API level

- Adopt new text APIs
- Ensure view controllers are full screen
- Incorporate adaptive multitasking

Adapting Your App for iOS 7

On an API level

- Adopt new text APIs
- Ensure view controllers are full screen
- Incorporate adaptive multitasking
- Create fluid view controller and collection view transitions

Adapting Your App for iOS 7

On an API level

- Adopt new text APIs
- Ensure view controllers are full screen
- Incorporate adaptive multitasking
- Create fluid view controller and collection view transitions
- Consider dynamics and motion effects

Adapting Your App for iOS 7

Supporting both iOS 6 and iOS 7

Adapting Your App for iOS 7

Supporting both iOS 6 and iOS 7

- Use the iOS 7 UI Transition Guide

Adapting Your App for iOS 7

Supporting both iOS 6 and iOS 7

- Use the iOS 7 UI Transition Guide
- Autolayout will help

Adapting Your App for iOS 7

Supporting both iOS 6 and iOS 7

- Use the iOS 7 UI Transition Guide
- Autolayout will help
- Consider backporting a new design

More Information

Jake Behrens

UI Frameworks Evangelist
behrens@apple.com

Documentation

iOS 7 UI Transition Guide
<http://developer.apple.com/ios>

Apple Developer Forums

<http://devforums.apple.com>

Related Sessions

What's New in Cocoa Touch	Presidio Tuesday 11:30AM	
What's New with Multitasking	Presidio Tuesday 2:00PM	
Introducing Text Kit	Presidio Wednesday 2:00PM	
Customizing Your App's Appearance for iOS 7	Presidio Wednesday 3:15PM	
Custom Transitions Using View Controllers	Pacific Heights Thursday 11:30AM	
Getting Started with UIKit Dynamics	Presidio Tuesday 4:30PM	

Related Labs

Cocoa Touch Lab	Frameworks Lab A Tuesday 4:30PM	
Adapting Your Apps for iOS 7 Lab	Frameworks Lab B Wednesday 11:30AM	
UIKit Dynamic Lab	Frameworks Lab A Wednesday 4:30PM	
Text Kit and Core Text Lab	Frameworks Lab B Wednesday 4:30PM	
Appearance Customization for iOS Lab	Frameworks Lab B Thursday 9:00AM	
Cocoa Touch Animation Lab	Frameworks Lab B Thursday 2:00PM	

 WWDC2013